APOLLO G&N Specification
PS2901143 REV H
Original Issue Date:
Release Authority: TDRR 29186
Class Release

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

PSA ADAPTER MODULE (BLOCK II)

DRAWING NO. 2901143

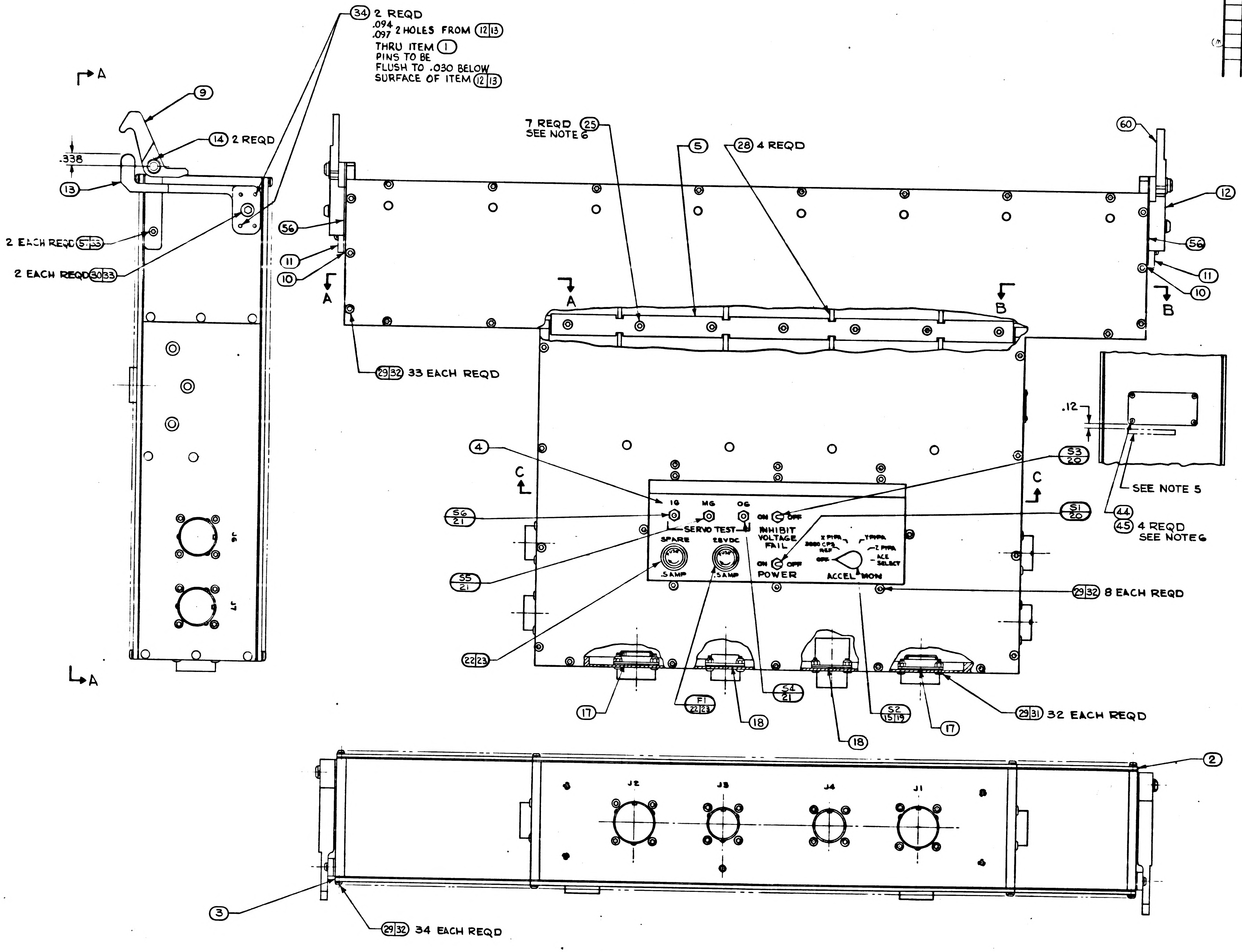
Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA
4-28-66	A	MXC 211814	31		
5/5/66	B	MXC 212199	3, 12		
5/20/66	C	MXC 212606	7, 8		
(W1) 5/27/66	D	29186	ALL SHEETS		
(A1) 7-5-66	E	30085	12, 16, 26, 32 RDG/AC	MGM	ACM
(M) 9-15-66	F	31043	7, 18, 31, 32 RDG/AC	MGM EA	ACM
(M) 9-30-66	G	31333	9, 29 RDG/AC	MGM EA	WLS
9/30/66	H	31381	9, 10, 11, 12, 15, 18, 21, 24 RDG/AC	MGM EA	WLS

This specification consists of page 1 to 32 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	5/5/66 MIT/IL	R. Mura ACSP

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		8 APR 66	
	G	REVISION STATUS CHANGED		APR 66	
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	CP
	L	INITIAL RELEASE CLASS A PER TDRR		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.


34 2 REQD
.094
.097 2 HOLES FROM 12 13
THRU ITEM 1
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM 12 13
A
9
14 2 REQD
.338
13
2 EACH REQD 5 33
2 EACH REQD 30 33
J6
J7
A
7 REQD 25
SEE NOTE 6
5
28 4 REQD
60
12
56
11
10
56
11
10
A
A
B
B
29 32 33 EACH REQD
.12
SEE NOTE 5
44
45 4 REQD
SEE NOTE 6
4
C
C
S3
20
S6
21
S1
20
S5
21
IG
MG
OG
SERVO TEST
SPARE
28VDC
FUSE
.5AMP
ON OFF
INHIBIT
VOLTAGE
FAIL
ON OFF
POWER
X PIPA
Y PIPA
3200 CPS REF
Z PIPA
OFF
ACE SELECT
ACCEL MON
29 32 8 EACH REQD
22 23
17
F1
22 23
18
S4
21
18
S2
15 19
17
29 31 32 EACH REQD
2
J2
J3
J4
J1
3
29 32 34 EACH REQD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	DRAWN M Gardner DATE 1-APR 66 CHECKED Ed Foster 4APR66 APPROVAL CONTRACT NAS 9-497	PSA ADAPTER MODULE (BLK II)	
DO NOT SCALE THIS DRAWING			
MATERIAL —	NASA APPROVAL A. METZGER	SIZE E	CODE IDENT NO. 99974
APPROVAL	MIT APPROVAL	SCALE FULL	2901143 SHEET 2 OF 3

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		A44-14 A9-43	38 8				.25 .25	YES YES			
A 242	1		A44-16 A9-24	38 8				.25 .25	YES YES			
A 243	1		J2-78 A21-40	99 15				.15 .25	NO YES			CHANNEL B
A 244	1		A21-40 A33-1	15 26				.25 .25	YES YES			
A 245	1		A33-1 A44-17	26 38				.25 .25	YES YES			
A 246	1		J2-53 A21-32	99 15				.15 .25	NO YES			CHANNEL B
A 247	1		A33-6 A21-31	26 15				.25 .25	YES YES			
A 248	1		A33-6 A44-16	26 38				.25 .25	YES YES			
A 249	1		J2-52 A20-17	99 14				.15 .25	NO YES			CHANNEL B
A 250	1		J2-31 A20-15	99 14				.15 .25	NO YES			CHANNEL B
A 251	1		J1-31 A9-21	87 8				.15 .25	NO YES			CHANNEL B
A 252	1		J1-53 A9-13	87 8				.15 .25	NO YES			CHANNEL B

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 27 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		A8-21 J1-78	7 87				.25 .15	YES NO			CHANNEL B
A 254	1		A8-13 J1-54	7 87				.25 .15	YES NO			CHANNEL B
A 255	1		A11-18 A9-4	9 8				.25 .25	YES YES			
A 256	1		A11-15 A9-1	9 8				.25 .25	YES YES			
A 257	1		A9-4 A7-4	8 6				.25 .25	YES YES			
A 258	1		A9-1 A7-1	8 6				.25 .25	YES YES			
A 259	1		A19-18 A24-4	13 18				.25 .25	YES YES			
A 260	1		A19-15 A24-1	13 18				.25 .25	YES YES			
A 261	1		A24-4 A25-4	18 19				.25 .25	YES YES			
A 262	1		A25-4 A26-4	19 20				.25 .25	YES YES			
A 263	1		A24-1 A25-1	18 19				.25 .25	YES YES			
A 264	1		A25-1 A26-1	19 20				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 28 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		A19-31 A15-4	13 10				.25 .25	YES YES			
A 266	1		A19-28 A15-1	13 10				.25 .25	YES YES			
A 267	1		J1-26 A26-21	87 20				.15 .25	NO YES			CHANNEL A
A 268	1		J1-46 A26-13	87 20				.15 .25	NO YES			CHANNEL A
A 269	1		J1-25 A25-21	87 19				.15 .25	NO YES			CHANNEL A
A 270	1		J1-45 A25-13	87 19				.15 .25	NO YES			CHANNEL A
A 271	1		J1-70 A24-21	87 18				.15 .25	NO YES			CHANNEL A
A 272	1		J1-71 A24-13	87 18				.15 .25	NO YES			CHANNEL A
A 273	1		J1-65 A15-21	87 10				.15 .25	NO YES			CHANNEL A
A 274	1		J1-40 A15-13	87 10				.15 .25	NO YES			CHANNEL A
A 275	1		A23-17 A26-43	17 20				.25 .25	YES YES			
A 276	1		A23-15 A26-24	17 20				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 29 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

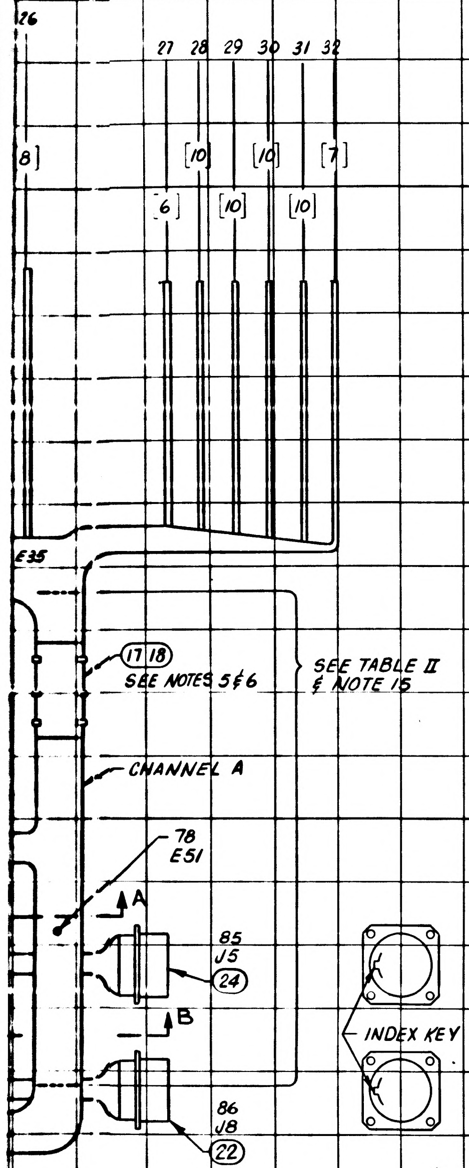
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		A23-17 A15-43	17 10				.25 .25	YES YES			
A 278	1		A23-32 A25-24	17 19				.25 .25	YES YES			
A 279	1		A23-40 A25-43	17 19				.25 .25	YES YES			
A 280	1		A23-40 A16-43	17 11				.25 .25	YES YES			
A 281	1		A20-40 A19-1	14 13				.25 .25	YES YES			
A 282	1		A20-40 A44-2	14 38				.25 .25	YES YES			
A 283	1		A20-32 A19-6	14 13				.25 .25	YES YES			
A 284	1		A20-31 A44-20	14 38				.25 .25	YES YES			
A 285	1		A44-4 A19-33	38 13				.25 .25	YES YES			
A 286	1		E36-8 A24-24	36 18				.27 .25	NO YES			
A 287	1		A27-17 A24-43	21 18				.25 .25	YES YES			
A 288	1		J8-33 A23-1	86 17				.15 .25	NO YES			

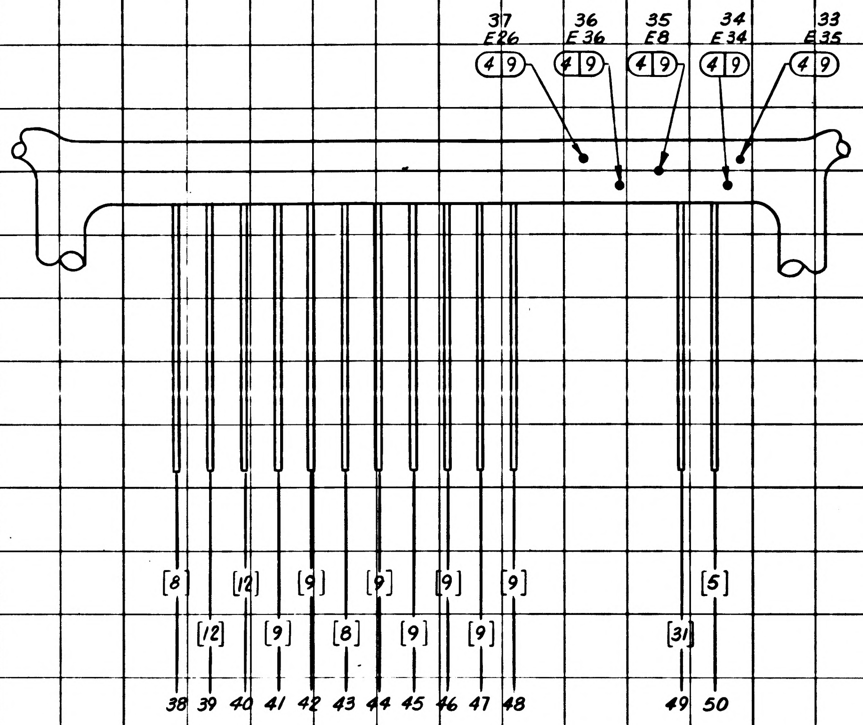
SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 30 OF 55

MIL 2084 9-65

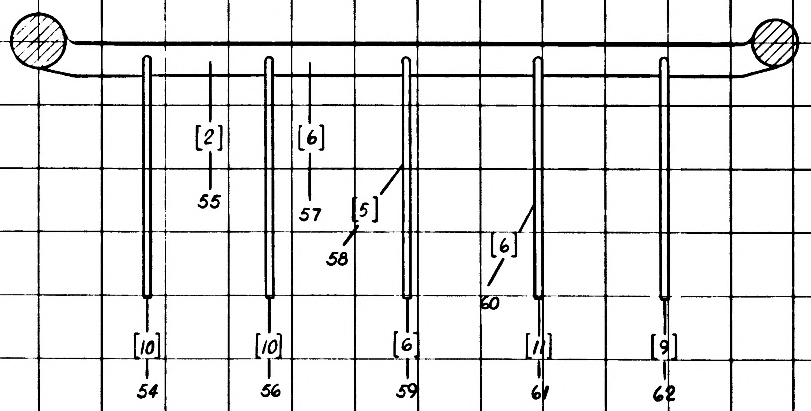
REVISIONS T:PR 28641				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD


26
27 28 29 30 31 32
[8]
[10] [10] [7]
[6] [10] [10]
E35
(17)(18)
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL A
78
E51
A
85
J5
(24)
B
86
J8
(22)
INDEX KEY


37 E26 (4 9)
36 E36 (4 9)
35 E8 (4 9)
34 E34 (4 9)
33 E35 (4 9)
[8] [12] [9] [9] [9] [9]
[12] [9] [8] [9] [9]
[31] [5]
38 39 40 41 42 43 44 45 46 47 48
49 50

DETAIL A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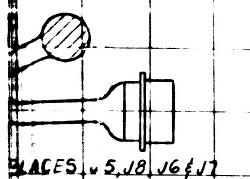
55
[6]
57
[5]
58
[6]
60
[10] [10] [6] [11] [9]
54 56 59 61 62

SECTION A-A

TABLE II

TERM NO	REF DES	ITEM NO
63	E6	5, 6
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
80	E53	5, 6
81	E54	5, 6
82	E55	5, 6
83	E56	5, 6
84	E63	5, 6


PLACES J5, J8, J6 & J7

SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN J Woloski DATE 5 APR 66 CHECKED 12 APR 66 APPROVAL J Mott 13 APR 66 APPROVAL Gedeman	WIRING HARNESS "A"
MATERIAL —	NASA APPROVAL	CODE IDENT NO 99974 — SIZE J₂ — 2901144
CONTRACT NAS 9-497	MIT APPROVAL	SCALE FULL — SHEET 55 OF 55

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20 APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR-66	B.
D	REVISED PER MXC 211815	28-APR 66	RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. EF
F	REVISED PER TDRR 29637.	8 JULY 66	JAC

REV		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
REV STATUS OF SHEETS	REV			F	F	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN 17 JAN 66 (DAY MO YR)
CHECKER W Diehl 14 APR '66
ENGINEER 14 Apr 66
APPROVAL 5/5/66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

WIRING HARNESS A

SIZE A | CODE IDENT. NO 99974 | 2901144
SCALE NONE | SHEET 1 OF 55

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	E																
49	E																
50	E																
51	E																
52	E																
53	E																
54	E																
55	F																

SIZE A | CODE IDENT. NO. 99974 | 2901144
SCALE NONE | REV LTR F | SHEET 2 OF 55

MIL 1377A3 8-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9 A59-4	16 49				.25 .25	YES YES			
A 50	1		A60-7 A22-17	50 16				.25 .25	YES YES			
A 51	1		J4-A A60-3	90 50				.15 .25	NO YES			
A 52	1		J4-B A60-1	90 50				.15 .25	NO YES			
A 53	1		J4-C E1	90 93				.15 .15	NO NO			
A 54	1		S1-3 E8-BB	58 35				.25 .27	YES NO		7	
A 55	2				2.30 4.00	2.00 4.00				B,6B A,7	10, 11 10	
A 55A	1		SHLD OFA55 E11-B	 112				.15 .27	NO NO			
A 55L			A2-78 E10	1 111				.25 .25	YES NO			
A 55R			A2-75 E9	1 110				.25 .25	YES NO			
A 56	1		E9 J7-45	110 101				.25 .15	NO NO			
A 57	1		E9 J6-45	110 102				.25 .15	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10 J6-46	111 102				.25 .15	NO NO			
A 59	1		E10 J7-46	111 101				.25 .15	NO NO			
A 60	1		E11-BB J6-25	112 102				.27 .15	NO NO			
A 61	1		E11-BB J7-25	112 101				.27 .15	NO NO			
A 62	1		E11-B E1	112 93				.27 .15	NO NO			
A 63	1		J1-32 A2-3	87 1				.15 .25	NO YES			CHANNEL B
A 64	1		J1-15 A2-14	87 1				.15 .25	NO YES			CHANNEL B
A 65	1		J3-8 K6-4	95 59				.15 .25	NO YES		 7	
A 66	1		J3-22 K6-8	95 59				.15 .25	NO YES		 7	
A 67	1		K6-7 E12	59 113				.25 .25	YES NO		7	
A 68	1		J6-42 E12	102 113				.15 .25	NO NO			
A 69	1		J7-42 E12	101 113				.15 .25	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-1 E13	58 114				.25 .25	YES NO		7	
A 71	1		J6-39 E13	102 114				.15 .25	NO NO			
A 72	1		J7-39 E13	101 114				.15 .25	NO NO			
A 73	1		S3-2 K5-3	58 59				.25 .25	YES YES		7 7	
A 74	1		K4-7 J7-21	61 101				.25 .15	YES NO		7	
A 75	1		K4-7 J6-21	61 102				.25 .15	YES NO			
A 76	1		K4-3 J7-40	61 101				.25 .15	YES NO		7	
A 77	1		K4-3 J6-40	61 102				.25 .15	YES NO			
A 78	1		E22 J7-48	121 101				.25 .15	NO NO			
A 79	1		E26-BB J5-14	37 85				.27 .15	NO NO			
A 80	1		J3-18 TB1-16	95 59				.15 .25	NO YES			
A 81	1		J3-20 K4-4	95 61				.15 .25	NO YES		 7	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39 K4-8	95 61				.15 .25	NO YES		 7	
A 84	1		J3-32 K3-5	95 61				.15 .25	NO YES		 7	
A 85	1		J3-16 K2-5	95 62				.15 .25	NO YES		 7	
A 86	1		J3-34 K1-5	95 62				.15 .25	NO YES		 7	
A 87	1		A59-~~20~~13 K2-8	49 62				.25 .25	YES YES		 7	
A 88	1		A59-20 K3-8	49 61				.25 .25	YES YES		 7	
A 89	1		S6-2 K3-2	55 61				.25 .25	YES YES		7 7	
A 90	1		S6-1 K3-3	55 61				.25 .25	YES YES		7 7	
A 91	1		K3-3 E16	61 115				.25 .25	YES NO			
A 92	1		E16 J6-18	115 102				.25 .15	NO NO			
A 93	1		E16 J7-18	115 101				.25 .15	NO NO			
A 94	1		S5-2 K2-2	57 62				.25 .25	YES YES		7 7	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1	57				.25	YES		7	
			K2-3	62				.25	YES		7	
A 96	1		K2-3	62				.25	YES			
			E17	116				.25	NO			
A 97	1		E17	116				.25	NO			
			J6-6	102				.15	NO			
A 98	1		E17	116				.25	NO			
			J7-6	101				.15	NO			
A 99	1		S4-2	57				.25	YES		7	
			K1-2	62				.25	YES		7	
A 100	1		S4-1	57				.25	YES		7	
			K1-3	62				.25	YES		7	
A 101	1		K1-3	62				.25	YES			
			E18	117				.25	NO			
A 102	1		J7-7	101				.15	NO			
			E18	117				.25	NO			
A 103	1		J6-7	102				.15	NO			
			E18	117				.25	NO			
A 104	1		A59-14	49				.25	YES			
			E26-B	37				.27	NO			
A 105	1		A47-37	41				.25	YES			
			E26-B	37				.27	NO			
A 106	1		A48-37	42				.25	YES			
			E26-B	37				.27	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 15 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37	45				.25	YES			
			E26-B	37				.27	NO			
A 108	1		A52-37	46				.25	YES			
			E26-B	37				.27	NO			
A 109	1		A53-37	47				.25	YES			
			E26-B	37				.27	NO			
A 110	1		E26-BB	37				.27	NO			
			J8-14	86				.15	NO			
A 111	1		A47-2	41				.25	YES			SEE NOTE 10.
			E19	118				.25	NO			
A 112	1		E19	118				.25	NO			
			J6-22	102				.15	NO			
A 113	1		E19	118				.25	NO			
			J7-22	101				.15	NO			
A 114	1		A48-2	42				.25	YES			SEE NOTE 10
			E20	119				.25	NO			
A 115	1		E20	119				.25	NO			
			J6-9	102				.15	NO			
A 116	1		E20	119				.25	NO			
			J7-9	101				.15	NO			
A 117	1		A49-2	43				.25	YES			SEE NOTE 10
			E21	120				.25	NO			
A 118	1		E21	120				.25	NO			
			J6-47	102				.15	NO			

SIZE	CODE IDENT NO.		
A	80230 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 16 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21	120				.25	NO			
			J7-47	101				.15	NO			
A 120	1		A49-37	43				.25	YES			
			E22	121				.25	NO			
A 121	1		E22	121				.25	NO			
			J6-48	102				.15	NO			
A 122	1		A50-2	44				.25	YES			SEE NOTE 10
			E23	122				.25	NO			
A 123	1		E23	122				.25	NO			
			J7-26	101				.15	NO			
A 124	1		E23	122				.25	NO			
			J6-26	102				.15	NO			
A 125	1		A50-37	44				.25	YES			
			E24-B					.27	NO			
A 126	1		E24-BB	123				.27	NO			
			J6-27	102				.15	NO			
A 127	1		E24-BB	123				.27	NO			
			J7-27	101				.15	NO			
A 128	1		A51-2	45				.25	YES			SEE NOTE 10
			E25	64				.25	NO			
A 129	1		E25	64				.25	NO			
			J8-15	86				.15	NO			
A 130	1		E25	64				.25	NO			
			J5-15	85				.15	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 17 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-2	46				.25	YES			SEE NOTE 10
			E27	65				.25	NO			
A 132	1		J8-5	86				.15	NO			
			E27	65				.25	NO			
A 133	1		J5-5	85				.15	NO			
			E27	65				.25	NO			
A 134	1		E28	124				.25	NO			SEE NOTE 10
			A53-2	47				.25	YES			
A 135	1		E28	124				.25	NO			
			J7-41	101				.15	NO			
A 136	1		E28	124				.25	NO			
			J6-41	102				.15	NO			
A 137	1		A54-2	48				.25	YES			SEE NOTE 10
			E29	66				.25	NO			
A 138	1		J8-6	86				.15	NO			
			E29	66				.25	NO			
A 139	1		J5-6	85				.15	NO			
			E29	66				.25	NO			
A 140	1		E30	67				.25	NO			
			A54-37	48				.25	YES			
A 141	1		E30	67				.25	NO			
			J5-16	85				.15	NO			
A 142	1		E30	67				.25	NO			
			J8-16	86				.15	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 18 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-58	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 19 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 87				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 20 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 21 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 E14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 E14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-8	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 22 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		J5-33 A23-1	85 17				.15 .25	NO YES			
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-BB	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298	1		J8-32 A27-1	86 21				.15 .25	NO YES			
A 299	1		J5-32 A27-1	85 21				.15 .25	NO YES			
A 300	1		J8-54 A23-19	86 17				.15 .25	NO YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 31 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		J5-54 A23-19	85 17				.15 .25	NO YES			
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-36 E37-BB	101 92				.15 .27	NO NO			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 32 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-BB	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 89				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 88				.15 .25	NO NO			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 33 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		7	

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 34 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J6-43 T3-2	102 51				.15 .25	NO YES			
A 338	1		T1-3 A7-43	53 6				.25 .25	YES YES		7	
A 339	1		T2-3 A6-43	52 5				.25 .25	YES YES		7	
A 340	1		T3-3 A5-43	51 4				.25 .25	YES YES		7	
A 341	1		A7-4 A6-4	6 5				.25 .25	YES YES			
A 342	1		A6-4 A5-4	5 4				.25 .25	YES YES			
A 343	1		A7-1 A6-1	6 5				.25 .25	YES YES			
A 344	1		A6-1 A5-1	5 4				.25 .25	YES YES			
A 345	1		A7-21 J1-77	6 87				.25 .15	YES NO			CHANNEL B
A 346	1		A7-13 J1-76	6 87				.25 .15	YES NO			CHANNEL B
A 347	1		A6-21 J1-52	5 87				.25 .15	YES NO			CHANNEL B
A 348	1		A6-13 J1-51	5 87				.25 .15	YES NO			CHANNEL B

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 35 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21 J1-30	4 87				.25 .15	YES NO			CHANNEL B
A 350	1		A5-13 J1-29	4 87				.25 .15	YES NO			CHANNEL B
A 351	1		A45-40 J2-66	39 99				.25 .15	YES NO			CHANNEL B
A 352	1		A45-32 J2-42	39 99				.25 .15	YES NO			CHANNEL B
A 353	1		A45-17 J2-43	39 99				.25 .15	YES NO			CHANNEL B
A 354	1		A45-15 J2-23	39 99				.25 .15	YES NO			CHANNEL B
A 355	1		A46-40 J2-68	40 99				.25 .15	YES NO			CHANNEL B
A 356	1		A46-32 J2-67	40 99				.25 .15	YES NO			CHANNEL B
A 357	1		A46-17 J2-69	40 99				.25 .15	YES NO			CHANNEL B
A 358	1		A46-15 J2-45	40 99				.25 .15	YES NO			CHANNEL B
A 359	1		A3-40 J2-25	2 99				.25 .15	YES NO			CHANNEL B
A 360	1		A3-32 J2-11	2 99				.25 .15	YES NO			CHANNEL B

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 36 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17 J2-70	2 99				.25 .15	YES NO			CHANNEL B
A 362	1		A3-15 J2-46	2 99				.25 .15	YES NO			CHANNEL B
A 363	1		A4-40 J2-47	3 99				.25 .15	YES NO			CHANNEL B
A 364	1		A4-32 J2-27	3 99				.25 .15	YES NO			CHANNEL B
A 365	1		A4-17 J2-71	3 99				.25 .15	YES NO			CHANNEL B
A 366	1		A4-15 J2-72	3 99				.25 .15	YES NO			CHANNEL B
A 367	1		J7-14 A45-19	101 39				.15 .25	NO YES			
A 368	1		J6-14 A45-19	102 39				.15 .25	NO YES			
A 369	1		J7-3 A45-1	101 39				.15 .25	NO YES			
A 370	1		J6-3 A45-1	102 39				.15 .25	NO YES			
A 371	1		J7-5 A46-19	101 40				.15 .25	NO YES			
A 372	1		J6-5 A46-19	102 40				.15 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 37 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1 A46-1	101 40				.15 .25	NO YES			
A 374	1		J6-1 A46-1	102 40				.15 .25	NO YES			
A 375	1		J7-15 A3-19	101 2				.15 .25	NO YES			
A 376	1		J6-15 A3-19	102 2				.15 .25	NO YES			
A 377	1		J7-4 A3-1	101 2				.15 .25	NO YES			
A 378	1		J6-4 A3-1	102 2				.15 .25	NO YES			
A 379	1		J7-13 A4-19	101 3				.15 .25	NO YES			
A 380	1		J6-13 A4-19	102 3				.15 .25	NO YES			
A 381	1		J7-12 A4-1	101 3				.15 .25	NO YES			
A 382	1		J6-12 A4-1	102 3				.15 .25	NO YES			
A 383	1		T1-4 E24-BB	53 123				.25 .26	YES NO		7	
A 384	1		T2-4 E24-BB	52 123				.25 .26	YES NO		7	

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 38 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			E47 A32-19	74 25				.25 .25	NO YES			
A 421	1		E47 J8-44	74 86				.25 .15	NO NO			
A 422	1		E47 J5-44	74 85				.25 .15	NO NO			
A 423	1		E48 J5-45	75 85				.25 .15	NO NO			
A 424	1		E48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 10	
A 425A	1		SHLD A425 E51-B	 78				.25 .27	NO NO			
A 425L			E50 A37-9	77 27				.25 .25	NO YES			
A 425R			E49 A37-1	76 27				.25 .25	NO YES			
A 426	1		E49 J5-47	76 85				.25 .15	NO NO			
A 427	1		E49 J8-47	76 86				.25 .15	NO NO			
A 428	1		E50 J5-46	77 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 43 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		E50 J8-46	77 86				.25 .15	NO NO			
A 430	1		E52 J5-31	79 85				.25 .15	NO NO			
A 431	1		E52 J8-31	79 86				.25 .15	NO NO			
A 432	1		E52 A41-43	79 31				.25 .25	NO YES			
A 433	1		E51-BB J8-26	78 86				.27 .15	NO NO			
A 434	1		E51-BB J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 E53	85 80				.15 .25	NO NO			
A 436	1		J8-52 E53	86 80				.15 .25	NO NO			
A 437	1		A42-43 E53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 44 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 45 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 46 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13 J1-11	31 87				.25 .15	YES NO			CHANNEL A
A 466	1		A42-21 J1-28	32 87				.25 .15	YES NO			CHANNEL A
A 467	1		A42-13 J1-27	32 87				.25 .15	YES NO			CHANNEL A
A 468	1		A27-40 A31-43	21 24				.25 .25	YES YES			
A 469	1		A27-32 A31-24	21 24				.25 .25	YES YES			
A 470	1		A32-17 A30-43	25 23				.25 .25	YES YES			
A 471	1		A32-15 A30-24	25 23				.25 .25	YES YES			
A 472	1		A32-40 A29-43	25 22				.25 .25	YES YES			
A 473	1		A32-32 A29-24	25 22				.25 .25	YES YES			
A 474	1		A37-17 A38-43	27 28				.25 .25	YES YES			
A 475	1		A37-15 A38-24	27 28				.25 .25	YES YES			
A 476	1		E26-88 J2-29	37 99				.27 .15	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 47 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8 E54	86 81				.15 .25	NO NO			
A 478	1		J5-8 E54	85 81				.15 .25	NO NO			
A 479	1		J1-68 E54	87 81				.15 .25	NO NO			
A 480	1		J8-9 E55	86 82				.15 .25	NO NO			
A 481	1		J5-9 E55	85 82				.15 .25	NO NO			
A 482	1		J1-44 E55	87 82				.15 .25	NO NO			
A 483	1		J5-19 E56	85 83				.15 .25	NO NO			
A 484	1		J8-19 E56	86 83				.15 .25	NO NO			
A 485	1		J2-30 E56	99 83				.15 .25	NO NO			
A 486	1		J6-8 TB1-1	102 104				.15 .25	NO YES			
A 487	1		J7-8 TB1-1	101 104				.15 .25	NO YES			
A 488	1		J2-17 TB1-2	99 103				.15 .25	NO YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 48 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2 E58	102 125				.15 .25	NO NO			
A 490	1		J7-2 E58	101 125				.15 .25	NO NO			
A 491	1		J2-6 E58	99 125				.15 .25	NO NO			
A 492	1		J6-54 TB1-3	102 104				.15 .25	NO YES			
A 493	1		J7-54 TB1-3	101 104				.15 .25	NO YES			
A 494	1		J2-16 TB1-4	99 103				.15 .25	NO YES			
A 495	1		J6-32 E60	102 126				.15 .25	NO NO			
A 496	1		J7-32 E60	101 126				.15 .25	NO NO			
A 497	1		J2-5 E60	99 126				.15 .25	NO NO			
A 498	1		J6-56 TB1-5	102 104				.15 .25	NO YES			
A 499	1		J7-56 TB1-5	10[illegible] 104				.15 .25	NO YES			
A 500	1		J2-15 TB1-6	99 103				.15 .25	NO YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 49 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55 E62	102 127				.15 .25	NO NO			
A 502	1		J7-55 E62	101 127				.15 .25	NO NO			
A 503	1		J2-14 E62	99 127				.15 .25	NO NO			
A 504	1		J5-36 E63	85 84				.15 .25	NO NO			
A 505	1		J8-36 E63	86 84				.15 .25	NO NO			
A 506	1		J2-51 E63	99 84				.15 .25	NO NO			
A 507	1		E8-8 A45-13	35 39				.27 .25	NO YES			
A 508	1		A46-38 A3-13	40 2				.25 .25	YES YES			
A 509	1		A3-38 A4-13	2 3				.25 .25	YES YES			
A 510	1		A4-38 A5-23	3 4				.25 .25	YES YES			
A 511	1		A5-23 A6-23	4 5				.25 .25	YES YES			
A 512	1		A6-23 A7-23	5 6				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 50 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		J5-33 A23-1	85 17				.15 .25	NO YES			
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-BB	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298	1		J8-32 A27-1	86 21				.15 .25	NO YES			
A 299	1		J5-32 A27-1	85 21				.15 .25	NO YES			
A 300	1		J8-54 A23-19	86 17				.15 .25	NO YES			

SIZE A

CODE IDENT NO. ~~89230~~ 99974

2901144

SCALE-NONE

REV LTR E*

SHEET 31 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		J5-54 A23-19	85 17				.15 .25	NO YES			
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-36 E37-BB	101 92				.15 .27	NO NO			

SIZE A

CODE IDENT NO. ~~89230~~ 99974

2901144

SCALE-NONE

REV LTR E*

SHEET 32 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-BB	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 89				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 88				.15 .25	NO NO			

SIZE A

CODE IDENT NO. ~~89230~~ 99974

2901144

SCALE-NONE

REV LTR E*

SHEET 33 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		 7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		 7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		 7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		 7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		 7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		 7	

SIZE A

CODE IDENT NO. ~~89230~~ 99974

2901144

SCALE-NONE

REV LTR E*

SHEET 34 OF 55

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20 APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR 66	B.
D	REVISED PER MXC 211815	28 APR 66	RM RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. EF
F	REVISED PER TDRR 29637.	8 JULY 66	JAC
G	REVISED PER TDRR 30350	17AUG 66	JJB JI
H	REVISED PER TDRR 30488	23 AUG 66	mcm JJK

M

N

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

REV STATUS OF SHEETS																								
REV			H	H	E	G	E	G	F	E	E	E	E	E	E	E	E	H	H	H	E	E	E
SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN	Tutolski 17 JAN 66 (DAY MO YR)
CHECKER	W Diehl 14 APR '66
ENGINEER	14 Apr 66
APPROVAL	5/5/66
CONTR NO.	NAS 9-497
NASA APPROVAL	
MIT APPROVAL	5/10/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A

SIZE	CODE IDENT. NO	
A	99974	2901144
SCALE NONE		SHEET 1 OF 55

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	E																
49	E																
50	E																
51	E																
52	E																
53	E																
54	E																
55	G																

SIZE	CODE IDENT. NO.	
A	99974	2901144
SCALE NONE	REV LTR H	SHEET 2 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9 A59-4	16 49				.25 .25	YES YES			
A 50	1		A60-7 A22-17	50 16				.25 .25	YES YES			
A 51	1		J4-A A60-3	90 50				.15 .25	NO YES			
A 52	1		J4-B A60-1	90 50				.15 .25	NO YES			
A 53	1		J4-C E1	90 93				.15 .15	NO NO			
A 54	1		S1-3 E8-BB	58 35				.25 .27	YES NO		7	
A 55	2				2.30 4.00	2.00 4.00				6.68 A.7	10, 11 10	
A 55A	1		SHLD OF A55 E11-B	 112				.15 .27	NO NO			
A 55L			A2-78 E10	1 111				.25 .25	YES NO			
A 55R			A2-75 E9	1 110				.25 .25	YES NO			
A 56	1		E9 J7-45	110 101				.25 .15	NO NO			
A 57	1		E9 J6-45	110 102				.25 .15	NO NO			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 11 OF 55	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10 J6-46	111 102				.25 .15	NO NO			
A 59	1		E10 J7-46	111 101				.25 .15	NO NO			
A 60	1		E11-BB J6-25	112 102				.27 .15	NO NO			
A 61	1		E11-BB J7-25	112 101				.27 .15	NO NO			
A 62	1		E11-B E1	112 93				.27 .15	NO NO			
A 63	1		J1-32 A2-3	87 1				.15 .25	NO YES			CHANNEL B
A 64	1		J1-15 A2-14	87 1				.15 .25	NO YES			CHANNEL B
A 65	1		J3-8 K6-4	95 59				.15 .25	NO YES		 7	
A 66	1		J3-22 K6-8	95 59				.15 .25	NO YES		 7	
A 67	1		K6-7 E12	59 113				.25 .25	YES NO		7	
A 68	1		J6-42 E12	102 113				.15 .25	NO NO			
A 69	1		J7-42 E12	101 113				.15 .25	NO NO			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 12 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-1 E13	58 114				.25 .25	YES NO		7	
A 71	1		J6-39 E13	102 114				.15 .25	NO NO			
A 72	1		J7-39 E13	101 114				.15 .25	NO NO			
A 73	1		S3-2 K5-3	58 59				.25 .25	YES YES		7 7	
A 74	1		K4-7 J7-21	61 101				.25 .15	YES NO		7	
A 75	1		K4-7 J6-21	61 102				.25 .15	YES NO			
A 76	1		K4-3 J7-40	61 101				.25 .15	YES NO		7	
A 77	1		K4-3 J6-40	61 102				.25 .15	YES NO			
A 78	1		E22 J7-48	121 101				.25 .15	NO NO			
A 79	1		E26-BB J5-14	37 85				.27 .15	NO NO			
A 80	1		J3-18 TB1-16	95 59				.15 .25	NO YES			
A 81	1		J3-20 K4-4	95 61				.15 .25	NO YES		 7	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 13 OF 55	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39 K4-8	95 61				.15 .25	NO YES		 7	
A 84	1		J3-32 K3-5	95 61				.15 .25	NO YES		 7	
A 85	1		J3-16 K2-5	95 62				.15 .25	NO YES		 7	
A 86	1		J3-34 K1-5	95 62				.15 .25	NO YES		 7	
A 87	1		A59-~~20~~ 13 K2-8	49 62				.25 .25	YES YES		 7	
A 88	1		A59-~~13~~ 20 K3-8	49 61				.25 .25	YES YES		 7	
A 89	1		S6-2 K3-2	55 61				.25 .25	YES YES		7 7	
A 90	1		S6-1 K3-3	55 61				.25 .25	YES YES		7 7	
A 91	1		K3-3 E16	61 115				.25 .25	YES NO			
A 92	1		E16 J6-18	115 102				.25 .15	NO NO			
A 93	1		E16 J7-18	115 101				.25 .15	NO NO			
A 94	1		S5-2 K2-2	57 62				.25 .25	YES YES		7 7	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 14 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1 K2-3	57 62				.25 .25	YES YES		7 7	
A 96	1		K2-3 E17	62 116				.25 .25	YES NO			
A 97	1		E17 J6-6	116 102				.25 .15	NO NO			
A 98	1		E17 J7-6	115 101				.25 .15	NO NO			
A 99	1		S4-2 K1-2	57 62				.25 .25	YES YES		7 7	
A 100	1		S4-1 K1-3	57 62				.25 .25	YES YES		7 7	
A 101	1		K1-3 E18	62 117				.25 .25	YES NO			
A 102	1		J7-7 E18	101 117				.15 .25	NO NO			
A 103	1		J6-7 E18	102 117				.15 .25	NO NO			
A 104	1		A59-14 E26-8	49 37				.25 .27	YES NO			
A 105	1		A47-37 E26-8	41 37				.25 .27	YES NO			
A 106	1		A48-37 E26-8	42 37				.25 .27	YES NO			

SIZE	CODE IDENT NO.	2901144
A	~~89730~~ 99974	
SCALE-NONE	REV LTR E	SHEET 15 OF 55

WIRING HARNESS A 2901144 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37 E26-8	45 37				.25 .27	YES NO			
A 108	1		A52-37 E26-8	46 37				.25 .27	YES NO			
A 109	1		A53-37 E26-8	47 37				.25 .27	YES NO			
A 110	1		E26-88 J8-14	37 86				.27 .15	NO NO			
A 111	1		A47-3 E19	41 118				.25 .25	YES NO			SEE NOTE 10.
A 112	1		E19 J6-22	118 102				.25 .15	NO NO			
A 113	1		E19 J7-22	118 101				.25 .15	NO NO			
A 114	1		A48-3 E20	42 119				.25 .25	YES NO			SEE NOTE 10
A 115	1		E20 J6-9	119 102				.25 .15	NO NO			
A 116	1		E20 J7-9	119 101				.25 .15	NO NO			
A 117	1		A49-3 E21	43 120				.25 .25	YES NO			SEE NOTE 10
A 118	1		E21 J6-47	120 102				.25 .15	NO NO			

SIZE	CODE IDENT NO.	2901144
A	99974	
SCALE-NONE	REV LTR H	SHEET 16 OF 55

WIRING HARNESS A 2901144 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21 J7-47	120 101				.25 .15	NO NO			
A 120	1		A49-37 E22	43 121				.25 .25	YES NO			
A 121	1		E22 J6-48	121 102				.25 .15	NO NO			
A 122	1		A50-3 E23	44 122				.25 .25	YES NO			SEE NOTE 10
A 123	1		E23 J7-26	122 101				.25 .15	NO NO			
A 124	1		E23 J6-26	122 102				.25 .15	NO NO			
A 125	1		A50-37 E24-8	44				.25 .27	YES NO			
A 126	1		E24-88 J6-27	123 102				.27 .15	NO NO			
A 127	1		E24-88 J7-27	123 101				.27 .15	NO NO			
A 128	1		A51-3 E25	45 64				.25 .25	YES NO			SEE NOTE 10
A 129	1		E25 J8-15	64 86				.25 .15	NO NO			
A 130	1		E25 J5-15	64 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.	2901144
A	99974	
SCALE-NONE	REV LTR H	SHEET 17 OF 55

WIRING HARNESS A 2901144 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-3 E27	46 65				.25 .25	YES NO			SEE NOTE 10
A 132	1		J8-5 E27	86 65				.15 .25	NO NO			
A 133	1		J5-5 E27	85 65				.15 .25	NO NO			
A 134	1		E28 A53-3	124 47				.25 .25	NO YES			SEE NOTE 10
A 135	1		E28 J7-41	124 101				.25 .15	NO NO			
A 136	1		E28 J6-41	124 102				.25 .15	NO NO			
A 137	1		A54-3 E29	48 66				.25 .25	YES NO			SEE NOTE 10
A 138	1		J8-6 E29	86 66				.15 .25	NO NO			
A 139	1		J5-6 E29	85 66				.15 .25	NO NO			
A 140	1		E30 A54-37	67 48				.25 .25	NO YES			
A 141	1		E30 J5-16	67 85				.25 .15	NO NO			
A 142	1		E30 J8-16	67 86				.25 .15	NO NO			

SIZE	CODE IDENT NO.	2901144
A	99974	
SCALE-NONE	REV LTR H	SHEET 18 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31 E31-83	102 98				.15 .27	NO NO			
A 194	1		J6-53 E32-88	102 100				.15 .27	NO NO			
A 195	1		J7-53 E32-8	101 100				.15 .27	NO NO			
A 196	1		J1-37 E32-8	87 100				.15 .27	NO NO			
A 197	1		J1-39 E32-8	87 100				.15 .27	NO NO			
A 198	1		J7-52 E33	101 94				.15 .25	NO NO			
A 199	1		J6-52 E33	102 94				.15 .25	NO NO			
A 200	1		J1-64 E33	87 94				.15 .25	NO NO			
A 201	1		J8-18 A59-5	86 49				.15 .25	NO YES			
A 202	1		J5-16 A59-5	85 49				.15 .25	NO YES			
A 203	1		A59-6 A22-19	49 16				.25 .25	YES YES			
A 204	1		J5-7 E34-8	85 34				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 23 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7 E34-8	86 34				.15 .27	NO NO			
A 206	1		J2-50 E34-8	99 34				.15 .27	NO NO			
A 207	1		A59-8 E34-88	49 34				.25 .27	YES NO			
A 208	1		A59-12 E34-88	49 34				.25 .27	YES NO			
A 209	1		J5-17 A59-9	85 49				.15 .25	NO YES			
A 210	1		J8-17 A59-9	86 49				.15 .25	NO YES			
A 211	1		A59-8 A22-31	49 16				.25 .25	YES YES			
A 212	1		A59-10 A21-1	49 15				.25 .25	YES YES			
A 213	1		A59-12 A21-9	49 15				.25 .25	YES YES			
A 214	1		J8-58 A59-28	86 49				.15 .25	NO YES			
A 215	1		J5-58 A59-28	85 49				.15 .25	NO YES			
A 216	1		A59-18 A21-19	49 15				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 24 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34 E35-88	85 33				.15 .27	NO NO			
A 218	1		J8-34 E35-88	86 33				.15 .27	NO NO			
A 219	1		A59-27 E35-8	49 33				.25 .27	YES NO			
A 220	1		A59-25 E35-8	49 33				.25 .27	YES NO			
A 221	1		A21-31 E35-8	15 33				.25 .27	YES NO			
A 222	1		A20-9 E35-8	14 33				.25 .27	YES NO			
A 223	1		J8-35 A59-26	86 49				.15 .25	NO YES			
A 224	1		J5-35 A59-26	85 49				.15 .25	NO YES			
A 225	1		A59-17 A20-1	49 14				.25 .25	YES YES			
A 226	1		J8-59 A59-24	86 49				.15 .25	NO YES			
A 227	1		J5-59 A59-24	85 49				.15 .25	NO YES			
A 228	1		A59-16 A11-1	49 9				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 25 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60 A11-6	85 9				.15 .25	NO YES			
A 230	1		J8-60 A11-6	86 9				.15 .25	NO YES			
A 231	1		J2-81 A22-40	99 16				.15 .25	NO YES			CHANNEL B
A 232	1		A22-40 A8-42	16 7				.25 .25	YES YES			
A 233	1		A22-32 J2-80	16 99				.25 .15	YES NO			CHANNEL B
A 234	1		A22-31 A8-24	16 7				.25 .25	YES YES			
A 235	1		A21-17 J2-55	15 99				.25 .15	YES NO			CHANNEL B
A 236	1		A21-17 A11-33	15 9				.25 .25	YES YES			
A 237	1		J2-32 A21-15	99 15				.15 .25	NO YES			CHANNEL B
A 238	1		A21-15 A11-22	15 9				.25 .25	YES YES			
A 239	1		A11-31 A8-4	9 7				.25 .25	YES YES			
A 240	1		A11-28 A8-1	9 7				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 26 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		A44-14	38				.25	YES			
			A9-43	8				.25	YES			
A 242	1		A44-16	38				.25	YES			
			A9-24	8				.25	YES			
A 243	1		J2-78	99				.15	NO			CHANNEL B
			A21-40	15				.25	YES			
A 244	1		A21-40	15				.25	YES			
			A33-1	26				.25	YES			
A 245	1		A33-1	26				.25	YES			
			A44-17	38				.25	YES			
A 246	1		J2-53	99				.15	NO			CHANNEL B
			A21-32	15				.25	YES			
A 247	1		A33-6	26				.25	YES			
			A21-31	15				.25	YES			
A 248	1		A33-6	26				.25	YES			
			A44-16	38				.25	YES			
A 249	1		J2-52	99				.15	NO			CHANNEL B
			A20-17	14				.25	YES			
A 250	1		J2-31	99				.15	NO			CHANNEL B
			A20-15	14				.25	YES			
A 251	1		J1-31	87				.15	NO			CHANNEL B
			A9-21	8				.25	YES			
A 252	1		J1-53	87				.15	NO			CHANNEL B
			A9-13	8				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 27 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		A8-21	7				.25	YES			CHANNEL B
			J1-78	87				.15	NO			
A 254	1		A8-13	7				.25	YES			CHANNEL B
			J1-54	87				.15	NO			
A 255	1		A11-18	9				.25	YES			
			A9-4	8				.25	YES			
A 256	1		A11-15	9				.25	YES			
			A9-1	8				.25	YES			
A 257	1		A9-4	8				.25	YES			
			A7-4	6				.25	YES			
A 258	1		A9-1	8				.25	YES			
			A7-1	6				.25	YES			
A 259	1		A19-18	13				.25	YES			
			A24-4	18				.25	YES			
A 260	1		A19-15	13				.25	YES			
			A24-1	18				.25	YES			
A 261	1		A24-4	18				.25	YES			
			A25-4	19				.25	YES			
A 262	1		A25-4	19				.25	YES			
			A26-4	20				.25	YES			
A 263	1		A24-1	18				.25	YES			
			A25-1	19				.25	YES			
A 264	1		A25-1	19				.25	YES			
			A26-1	20				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 28 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		A19-31	13				.25	YES			
			A15-4	10				.25	YES			
A 266	1		A19-28	13				.25	YES			
			A15-1	10				.25	YES			
A 267	1		J1-26	87				.15	NO			CHANNEL A
			A26-21	20				.25	YES			
A 268	1		J1-46	87				.15	NO			CHANNEL A
			A26-13	20				.25	YES			
A 269	1		J1-25	87				.15	NO			CHANNEL A
			A25-21	19				.25	YES			
A 270	1		J1-45	87				.15	NO			CHANNEL A
			A25-13	19				.25	YES			
A 271	1		J1-70	87				.15	NO			CHANNEL A
			A24-21	18				.25	YES			
A 272	1		J1-71	87				.15	NO			CHANNEL A
			A24-13	18				.25	YES			
A 273	1		J1-65	87				.15	NO			CHANNEL A
			A15-21	10				.25	YES			
A 274	1		J1-40	87				.15	NO			CHANNEL A
			A15-13	10				.25	YES			
A 275	1		A23-17	17				.25	YES			
			A26-43	20				.25	YES			
A 276	1		A23-15	17				.25	YES			
			A26-24	20				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 29 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		A23-17	17				.25	YES			
			A15-43	10				.25	YES			
A 278	1		A23-32	17				.25	YES			
			A25-24	19				.25	YES			
A 279	1		A23-40	17				.25	YES			
			A25-43	19				.25	YES			
A 280	1		A23-40	17				.25	YES			
			A16-43	11				.25	YES			
A 281	1		A20-40	14				.25	YES			
			A19-1	13				.25	YES			
A 282	1		A20-40	14				.25	YES			
			A44-2	38				.25	YES			
A 283	1		A20-32	14				.25	YES			
			A19-6	13				.25	YES			
A 284	1		A20-31	14				.25	YES			
			A44-20	38				.25	YES			
A 285	1		A44-4	38				.25	YES			
			A19-33	13				.25	YES			
A 286	1		E36-8	36				.27	NO			
			A24-24	18				.25	YES			
A 287	1		A27-17	21				.25	YES			
			A24-43	18				.25	YES			
A 288	1		J8-33	86				.15	NO			
			A23-1	17				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 30 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23 A8-23	6 7				.25 .25	YES YES			
A 514	1		A8-23 A9-23	7 8				.25 .25	YES YES			
A 515	1		A9-23 A11-25	8 9				.25 .25	YES YES			
A 516	1		E8-8 A15-23	35 10				.27 .25	NO YES			
A 517	1		A15-23 A16-23	10 11				.25 .25	YES YES			
A 518	1		A16-23 A17-23	11 12				.25 .25	YES YES			
A 519	1		A17-23 A19-25	12 13				.25 .25	YES YES			
A 520	1		A19-10 A20-38	13 14				.25 .25	YES YES			
A 521	1		A20-13 A21-38	14 15				.25 .25	YES YES			
A 522	1		A21-13 A22-38	15 16				.25 .25	YES YES			
A 523	1		A22-13 A23-38	16 17				.25 .25	YES YES			
A 524	1		A23-13 A24-23	17 18				.25 .25	YES YES			

SIZE A	CODE IDENT NO. ~~89238~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 51 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23 A25-23	18 19				.25 .25	YES YES			
A 526	1		A25-23 A26-23	19 20				.25 .25	YES YES			
A 527	1		A26-23 A27-13	20 21				.25 .25	YES YES			
A 528	1		E8-8 A29-23	35 22				.27 .25	NO YES			
A 529	1		A29-23 A30-23	22 23				.25 .25	YES YES			
A 530	1		A30-23 A31-23	23 24				.25 .25	YES YES			
A 531	1		A31-23 A32-38	24 25				.25 .25	YES YES			
A 532	1		A32-13 A33-10	25 26				.25 .25	YES YES			
A 533	1		A33-10 A37-13	26 27				.25 .25	YES YES			
A 534	1		A37-13 A38-23	27 28				.25 .25	YES YES			
A 535	1		A38-23 A39-23	28 29				.25 .25	YES YES			
A 536	1		A39-23 A40-23	29 30				.25 .25	YES YES			

SIZE A	CODE IDENT NO. ~~89238~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 52 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23 A41-23	30 31				.25 .25	YES YES			
A 538	1		A41-23 A42-23	31 32				.25 .25	YES YES			
A 540	1		E8-8 A44-13	35 38				.27 .25	NO YES			
A 541	1		E8-8 A2-81	35 1				.27 .25	NO YES			
A 542	1		A2-81 A47-23	1 41				.25 .25	YES YES			
A 543	1		A47-23 A48-23	41 42				.25 .25	YES YES			
A 544	1		A48-23 A49-23	42 43				.25 .25	YES YES			
A 545	1		A49-23 A50-23	43 44				.25 .25	YES YES			
A 546	1		A50-23 A51-23	44 45				.25 .25	YES YES			
A 547	1		A51-23 A52-23	45 46				.25 .25	YES YES			
A 548	1		A52-23 A53-23	46 47				.25 .25	YES YES			
A 549	1		A53-23 A54-23	47 48				.25 .25	YES YES			

SIZE A	CODE IDENT NO. ~~89238~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 53 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23 A59-19	48 49				.25 .25	YES YES			
A 551	1		A59-19 A60-19	49 50				.25 .25	YES YES			
A 552	1		J6-50 F11-88	102 112				.15 .27	NO NO			
A 553	1		J5-50 F11-8	85 112				.15 .27	NO NO			
A 554	1		S1-3 K5-3	58 59				.25 .25	YES YES		7	

SIZE A	CODE IDENT NO. ~~89238~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 54 OF 55

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 ASSEMBLE PER ND1002032.

4 SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.

5 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

6 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.

7 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.

9 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

10 COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.

11 SPOT TIE AS REQUIRED USING ITEM 17.

12 ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.

13 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 3 OF 55

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

14 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.

15 E POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.

16 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

17 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - SHIELD LEAD ON FRONT END
L - WHITE WITH BLUE TRACER.
R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.

18 SPOT TIE AREA SHOWN OF BREAKOUTS 1 THRU 32 AND 38 THRU 50 USING ITEM 32.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	G	SHEET 4 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	16	1016006-001	SPLICE REDUCER
9	5	44	1010763-001	SOLDER SLEEVE
9	6	48	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	~~47~~ 53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	16	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-105	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	200	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 5 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102R14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS
	32	AR	MIL-T-713	LACING TAPE, CLASS II TYPE P, WAXED, BLACK.

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	G	SHEET 6 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J6-57	102				.15	NO			
			XF1-2	57				.25	YES		13	
A 2	1		J6-58	102				.15	NO			
			XF1-2	57				.25	YES			
A 3	1		J6-59	102				.15	NO			
			XF1-2	57				.25	YES			
A 4	1		J7-57	101				.15	NO			
			E7-8	109				.27	NO			
A 5	1		J7-58	101				.15	NO			
			E7-8	109				.27	NO			
A 6	1		J7-59	101				.15	NO			
			E7-8	109				.27	NO			
A 7	1		S1-2	58				.25	YES		7	
			E7-88	109				.27	NO			
A 8	1		XF1-1	57				.25	YES		13	
			E7-88	109				.27	NO			
A 9	1		J7-19	101				.15	NO			
			E2	105				.25	NO			
A 10	1		J6-19	102				.15	NO			
			E2	105				.25	NO			
A 11	1		K9-3	54				.25	YES		7	
			E2	105				.25	NO			
A 12	1		K9-3	54				.25	YES			
			S2-3	60				.25	YES		8	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR F		SHEET 7 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J7-60	101				.15	NO			
			E3	106				.25	NO			
A 14	1		J6-60	102				.15	NO			
			E3	106				.25	NO			
A 15	1		K10-3	54				.25	YES		7	
			S2-4	60				.25	YES		8	
A 16	1		E3	106				.25	NO			
			K10-3	54				.25	YES			
A 17	1		J6-38	102				.15	NO			
			E4	107				.25	NO			
A 18	1		J7-38	101				.15	NO			
			E4	107				.25	NO			
A 19	1		E4	107				.25	NO			
			K8-3	56				.25	YES		7	
A 20	1		K8-3	56				.25	YES			
			S2-2	60				.25	YES		8	
A 21	1		J6-61	102				.15	NO			
			E5-8	108				.27	NO			
A 22	1		J6-37	102				.15	NO			
			E5-8	108				.27	NO			
A 23	1		J6-20	102				.15	NO			
			E5-8	108				.27	NO			
A 24	1		J7-61	101				.15	NO			
			E5-8	108				.27	NO			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E8		SHEET 8 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J7-37	101				.15	NO			
			E5-8	108				.27	NO			
A 26	1		J7-20	101				.15	NO			
			E5-8	108				.27	NO			
A 27	1		E5-88	108				.27	NO			
			J8-57	86				.15	NO			
A 28	1		E5-88	108				.27	NO			
			J5-57	85				.15	NO			
A 29	1		E5-88	108				.27	NO			
			A59-4	49				.25	YES			
A 30	1		J8-56	86				.15	NO			
			E6	63				.25	NO			
A 31	1		J5-56	85				.15	NO			
			E6	63				.25	NO			
A 32	1		E6	63				.25	NO			
			A59-1	49				.25	YES			
A 33	1		K10-8	54				.25	YES		7	
			K9-2	54				.25	YES		7	
A 34	1		K9-8	54				.25	YES		7	
			K8-2	56				.25	YES		7	
A 35	1		K8-8	56				.25	YES		7	
			K7-2	56				.25	YES		7	
A 36	1		K7-8	56				.25	YES		7	
			S2-5	60				.25	YES		8	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E8		SHEET 9 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S2-1	60				.25	YES		8	
			K7-3	56				.25	YES		7	
A 38	1		K7-3	56				.25	YES			
			A59-2	49				.25	YES			
A 39	1		A59-2	49				.25	YES			
			A2-22	1				.25	YES			
A 40	1		J3-5	95				.15	NO			
			TB1-7	54				.25	YES			
A 41	1		J3-30	95				.15	NO			
			TB1-8	54				.25	YES			
A 42	1		J3-14	95				.15	NO			
			TB1-10	54				.25	YES			
A 43	1		J3-28	95				.15	NO			
			TB1-12	56				.25	YES			
A 44	1		J3-6	95				.15	NO			
			TB1-14	56				.25	YES			
A 45	1		S2-C1	60				.25	YES		8	
			A22-1	16				.25	YES			
A 46	1		A20-31	14				.25	YES			
			A22-9	16				.25	YES			
A 47	1		A2-17	1				.25	YES			
			E5-8	108				.27	NO			
A 48	1		A60-21	50				.25	YES			
			A22-15	16				.25	YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E8		SHEET 10 OF 55

WIRING HARNESS A 29C1144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1	57				.25	YES		7	
			K2-3	62				.25	YES		7	
A 96	1		K2-3	62				.25	YES			
			E17	116				.25	NO			
A 97	1		E17	116				.25	NO			
			J6-6	102				.15	NO			
A 98	1		F17	116				.25	NO			
			J7-6	101				.15	NO			
A 99	1		S4-2	57				.25	YES		7	
			K1-2	62				.25	YES		7	
A 100	1		S4-1	57				.25	YES		7	
			K1-3	62				.25	YES		7	
A 101	1		K1-3	62				.25	YES			
			E18	117				.25	NO			
A 102	1		J7-7	101				.15	NO			
			E18	117				.25	NO			
A 103	1		J6-7	102				.15	NO			
			E18	117				.25	NO			
A 104	1		A59-14	49				.25	YES			
			E26-B	37				.27	NO			
A 105	1		A47-37	41				.25	YES			
			E26-B	37				.27	NO			
A 106	1		A48-37	42				.25	YES			
			E26-B	37				.27	NO			

SIZE A	CODE IDENT NO. ~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 15 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37	45				.25	YES			
			E26-B	37				.27	NO			
A 108	1		A52-37	46				.25	YES			
			E26-B	37				.27	NO			
A 109	1		A53-37	47				.25	YES			
			E26-B	37				.27	NO			
A 110	1		E26-BB	37				.27	NO			
			J8-14	86				.15	NO			
A 111	1		A47-3	41				.25	YES			SEE NOTE 10.
			E19	118				.25	NO			
A 112	1		E19	118				.25	NO			
			J6-22	102				.15	NO			
A 113	1		E19	118				.25	NO			
			J7-22	101				.15	NO			
A 114	1		A48-3	42				.25	YES			SEE NOTE 10
			E20	119				.25	NO			
A 115	1		E20	119				.25	NO			
			J6-9	102				.15	NO			
A 116	1		E20	119				.25	NO			
			J7-9	101				.15	NO			
A 117	1		A49-3	43				.25	YES			SEE NOTE 10
			E21	120				.25	NO			
A 118	1		E21	120				.25	NO			
			J6-47	102				.15	NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR H		SHEET 16 OF 55

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~~[illegible]~~ ~~[illegible]~~ WIRING HARNESS A 2901144 J

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21	120				.25	NO			
			J7-47	101				.15	NO			
A 120	1		A49-37	43				.25	YES			
			E22	121				.25	NO			
A 121	1		E22	121				.25	NO			
			J6-48	102				.15	NO			
A 122	1		A50-3	44				.25	YES			SEE NOTE 10
			E23	122				.25	NO			
A 123	1		E23	122				.25	NO			SEE NOTE 10
			J7-26	101				.15	NO			
A 124	1		E23	122				.25	NO			SEE NOTE 10
			J6-26	102				.15	NO			
A 125	1		A50-37	44				.25	YES			
			E24-B					.27	NO			
A 126	1		E24-BB	123				.27	NO			
			J6-27	102				.15	NO			
A 127	1		E24-BB	123				.27	NO			
			J7-27	101				.15	NO			
A 128	1		A51-3	45				.25	YES			SEE NOTE 10
			E25	64				.25	NO			
A 129	1		E25	64				.25	NO			SEE NOTE 10
			J8-15	86				.15	NO			
A 130	1		E25	64				.25	NO			SEE NOTE 10
			J5-15	85				.15	NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR J		SHEET 17 OF 55

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~~[illegible]~~ ~~[illegible]~~ WIRING HARNESS A 2901144 J

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-3	46				.25	YES			SEE NOTE 10
			E27	65				.25	NO			
A 132	1		J8-5	86				.15	NO			SEE NOTE 10
			E27	65				.25	NO			
A 133	1		J5-5	85				.15	NO			SEE NOTE 10
			E27	65				.25	NO			
A 134	1		E28	124				.25	NO			SEE NOTE 10
			A53-3	47				.25	YES			
A 135	1		E28	124				.25	NO			
			J7-41	101				.15	NO			
A 136	1		F28	124				.25	NO			
			J6-41	102				.15	NO			
A 137	1		A54-3	48				.25	YES			SEE NOTE 10
			E29	66				.25	NO			
A 138	1		J8-6	86				.15	NO			SEE NOTE 10
			E29	66				.25	NO			
A 139	1		J5-6	85				.15	NO			SEE NOTE 10
			E29	66				.25	NO			
A 140	1		E30	67				.25	NO			
			A54-37	48				.25	YES			
A 141	1		E30	67				.25	NO			
			J5-16	85				.15	NO			
A 142	1		E30	67				.25	NO			
			J8-16	86				.15	NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR J		SHEET 18 OF 55

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WIRING HARNESS A 2901144 E ~~8~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-58	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E ~~8~~	SHEET 19 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E ~~8~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 87				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E ~~8~~	SHEET 20 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E ~~8~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E ~~8~~	SHEET 21 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E ~~8~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 E14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 E14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-8	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E ~~8~~	SHEET 22 OF 55

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			E47 A32-19	74 25				.25 .25	NO YES			
A 421	1		E47 J8-44	74 86				.25 .15	NO NO			
A 422	1		F47 J5-44	74 85				.25 .15	NO NO			
A 423	1		F48 J5-45	75 85				.25 .15	NO NO			
A 424	1		E48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				8,6B A,7	10, 11 10	
A 425A	1		SHLD A425 E51-B	 78				.25 .27	NO NO			
A 425L			E50 A37-9	77 27				.25 .25	NO YES			
A 425R			F49 A37-1	76 27				.25 .25	NO YES			
A 426	1		E49 J5-47	76 85				.25 .15	NO NO			
A 427	1		E49 J8-47	76 86				.25 .15	NO NO			
A 428	1		E50 J5-46	77 85				.25 .15	NO NO			

SIZE A

CODE IDENT NO. ~~80230~~ 99974

2901144

SCALE-NONE REV LTR E SHEET 43 OF 55

MIL 2084 9-65

WIRING HARNESS A 29C1144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		E50 J8-46	77 86				.25 .15	NO NO			
A 430	1		F52 J5-31	79 85				.25 .15	NO NO			
A 431	1		E52 J8-31	79 86				.25 .15	NO NO			
A 432	1		E52 A41-43	79 31				.25 .25	NO YES			
A 433	1		E51-BB J8-26	78 86				.27 .15	NO NO			
A 434	1		E51-BB J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 E53	85 80				.15 .25	NO NO			
A 436	1		J8-52 E53	86 80				.15 .25	NO NO			
A 437	1		A42-43 E53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE A

CODE IDENT NO. ~~80230~~ 99974

2901144

SCALE-NONE REV LTR E SHEET 44 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE A

CODE IDENT NO. ~~80230~~ 99974

2901144

SCALE-NONE REV LTR E SHEET 45 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE A

CODE IDENT NO. ~~80230~~ 99974

2901144

SCALE-NONE REV LTR E SHEET 46 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13 J1-11	31 87				.25 .15	YES NO			CHANNEL A
A 466	1		A42-21 J1-28	32 87				.25 .15	YES NO			CHANNEL A
A 467	1		A42-13 J1-27	32 87				.25 .15	YES NO			CHANNEL A
A 468	1		A27-40 A31-43	21 24				.25 .25	YES YES			
A 469	1		A27-32 A31-24	21 24				.25 .25	YES YES			
A 470	1		A32-17 A30-43	25 23				.25 .25	YES YES			
A 471	1		A32-15 A30-24	25 23				.25 .25	YES YES			
A 472	1		A32-40 A29-43	25 22				.25 .25	YES YES			
A 473	1		A32-32 A29-24	25 22				.25 .25	YES YES			
A 474	1		A37-17 A38-43	27 28				.25 .25	YES YES			
A 475	1		A37-15 A38-24	27 28				.25 .25	YES YES			
A 476	1		E26-88 J2-29	37 99				.27 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 47 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8 E54	86 81				.15 .25	NO NO			
A 478	1		J5-8 E54	85 81				.15 .25	NO NO			
A 479	1		J1-68 E54	87 81				.15 .25	NO NO			
A 480	1		J8-9 E55	86 82				.15 .25	NO NO			
A 481	1		J5-9 E55	85 82				.15 .25	NO NO			
A 482	1		J1-44 E55	87 82				.15 .25	NO NO			
A 483	1		J5-19 E56	85 83				.15 .25	NO NO			
A 484	1		J8-19 E56	86 83				.15 .25	NO NO			
A 485	1		J2-30 E56	99 83				.15 .25	NO NO			
A 486	1		J6-8 TB1-1	102 104				.15 .25	NO YES			
A 487	1		J7-8 TB1-1	101 104				.15 .25	NO YES			
A 488	1		J2-17 TB1-2	99 103				.15 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 48 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2 E58	102 125				.15 .25	NO NO			
A 490	1		J7-2 E58	101 125				.15 .25	NO NO			
A 491	1		J2-6 E58	99 125				.15 .25	NO NO			
A 492	1		J6-54 TB1-3	102 104				.15 .25	NO YES			
A 493	1		J7-54 TB1-3	101 104				.15 .25	NO YES			
A 494	1		J2-16 TB1-4	99 103				.15 .25	NO YES			
A 495	1		J6-32 E60	102 126				.15 .25	NO NO			
A 496	1		J7-32 E60	101 126				.15 .25	NO NO			
A 497	1		J2-5 E60	99 126				.15 .25	NO NO			
A 498	1		J6-56 TB1-5	102 104				.15 .25	NO YES			
A 499	1		J7-56 TB1-5	101 104				.15 .25	NO YES			
A 500	1		J2-15 TB1-6	99 103				.15 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 49 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55 E62	102 127				.15 .25	NO NO			
A 502	1		J7-55 E62	101 127				.15 .25	NO NO			
A 503	1		J2-14 E62	99 127				.15 .25	NO NO			
A 504	1		J5-36 E63	85 84				.15 .25	NO NO			
A 505	1		J8-36 E63	86 84				.15 .25	NO NO			
A 506	1		J2-51 E63	99 84				.15 .25	NO NO			
A 507	1		E8-8 A45-13	35 39				.27 .25	NO YES			
A 508	1		A46-38 A3-13	40 2				.25 .25	YES YES			
A 509	1		A3-38 A4-13	2 3				.25 .25	YES YES			
A 510	1		A4-38 A5-23	3 4				.25 .25	YES YES			
A 511	1		A5-23 A6-23	4 5				.25 .25	YES YES			
A 512	1		A6-23 A7-23	5 6				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 50 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23	6				.25	YES			
			A8-23	7				.25	YES			
A 514	1		A8-23	7				.25	YES			
			A9-23	8				.25	YES			
A 515	1		A9-23	8				.25	YES			
			A11-25	9				.25	YES			
A 516	1		E8-8	35				.27	NO			
			A15-23	10				.25	YES			
A 517	1		A15-23	10				.25	YES			
			A16-23	11				.25	YES			
A 518	1		A16-23	11				.25	YES			
			A17-23	12				.25	YES			
A 519	1		A17-23	12				.25	YES			
			A19-25	13				.25	YES			
A 520	1		A19-10	13				.25	YES			
			A20-38	14				.25	YES			
A 521	1		A20-13	14				.25	YES			
			A21-38	15				.25	YES			
A 522	1		A21-13	15				.25	YES			
			A22-38	16				.25	YES			
A 523	1		A22-13	16				.25	YES			
			A23-38	17				.25	YES			
A 524	1		A23-13	17				.25	YES			
			A24-23	18				.25	YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 51 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23	18				.25	YES			
			A25-23	19				.25	YES			
A 526	1		A25-23	19				.25	YES			
			A26-23	20				.25	YES			
A 527	1		A26-23	20				.25	YES			
			A27-13	21				.25	YES			
A 528	1		E8-8	35				.27	NO			
			A29-23	22				.25	YES			
A 529	1		A29-23	22				.25	YES			
			A30-23	23				.25	YES			
A 530	1		A30-23	23				.25	YES			
			A31-23	24				.25	YES			
A 531	1		A31-23	24				.25	YES			
			A32-38	25				.25	YES			
A 532	1		A32-13	25				.25	YES			
			A33-10	26				.25	YES			
A 533	1		A33-10	26				.25	YES			
			A37-13	27				.25	YES			
A 534	1		A37-13	27				.25	YES			
			A38-23	28				.25	YES			
A 535	1		A38-23	28				.25	YES			
			A39-23	29				.25	YES			
A 536	1		A39-23	29				.25	YES			
			A40-23	30				.25	YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 52 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23	30				.25	YES			
			A41-23	31				.25	YES			
A 538	1		A41-23	31				.25	YES			
			A42-23	32				.25	YES			
A 540	1		E8-8	35				.27	NO			
			A44-13	38				.25	YES			
A 541	1		E8-8	35				.27	NO			
			A2-81	1				.25	YES			
A 542	1		A2-81	1				.25	YES			
			A47-23	41				.25	YES			
A 543	1		A47-23	41				.25	YES			
			A48-23	42				.25	YES			
A 544	1		A48-23	42				.25	YES			
			A49-23	43				.25	YES			
A 545	1		A49-23	43				.25	YES			
			A50-23	44				.25	YES			
A 546	1		A50-23	44				.25	YES			
			A51-23	45				.25	YES			
A 547	1		A51-23	45				.25	YES			
			A52-23	46				.25	YES			
A 548	1		A52-23	46				.25	YES			
			A53-23	47				.25	YES			
A 549	1		A53-23	47				.25	YES			
			A54-23	48				.25	YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 53 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23	48				.25	YES			
			A59-19	49				.25	YES			
A 551	1		A59-19	49				.25	YES			
			A60-19	50				.25	YES			
A 552	1		J6-50	102				.15	NO			
			E11-88	112				.27	NO			
A 553	1		J5-50	85				.15	NO			
			E11-8	112				.27	NO			
A 554	1		S1-3	58				.25	YES			
			K5-8	59				.25	YES		7	

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 54 OF 55

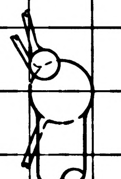
PARTIAL VIEW D-D

TABLE I

TERM NO	REF DES	ITEM NO.
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106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5, 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
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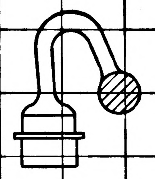
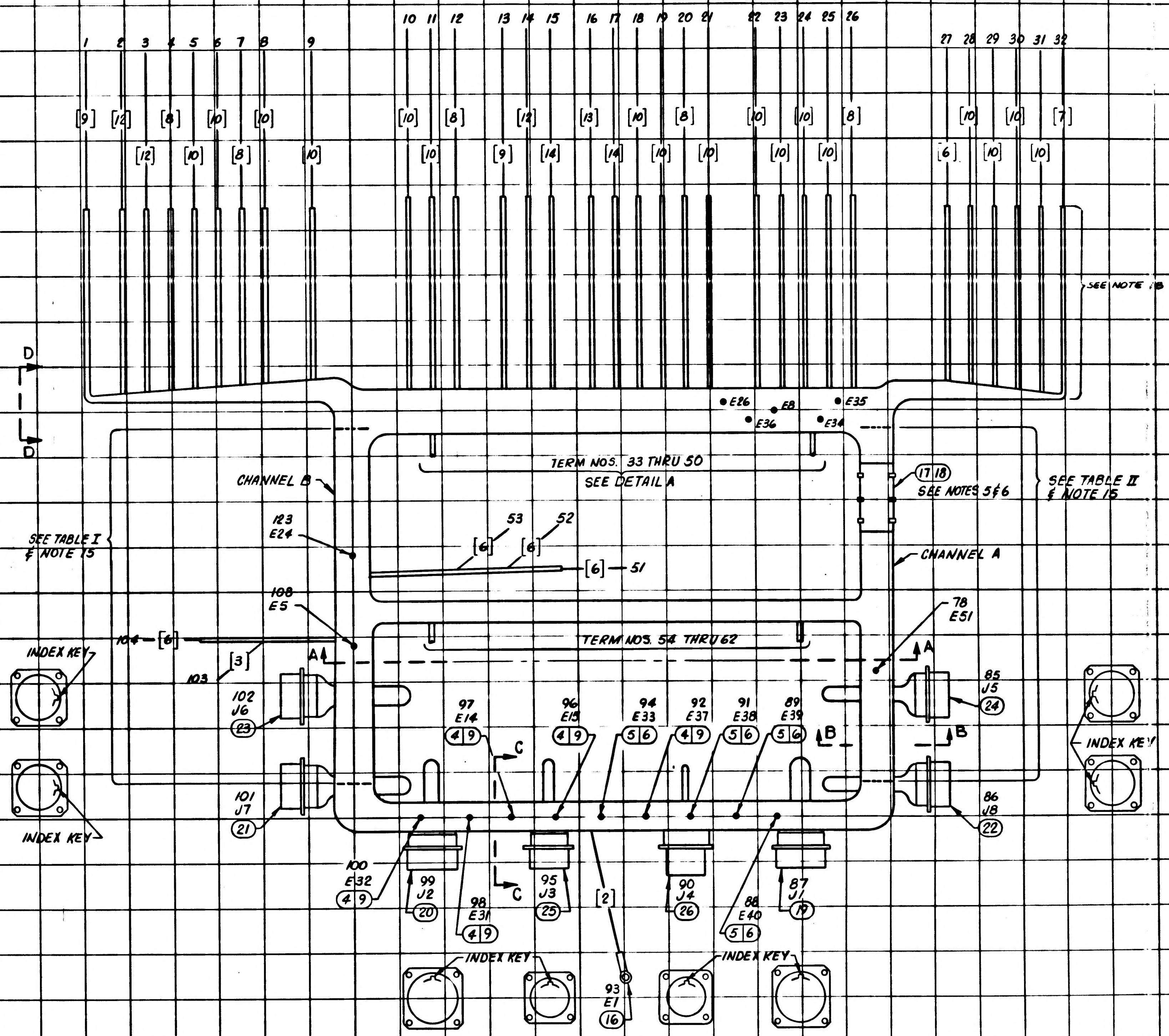
124	E28	5, 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6


4 PLACES J2, J3, J4 & J1
SECTION C-C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10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32
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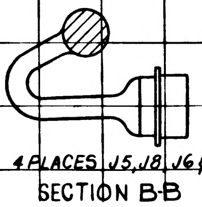
[10] [10] [7] [6] [10] [10]
SEE NOTE 15
D
D
E26 E8 E35 E36 E34
TERM NOS. 33 THRU 50
SEE DETAIL A
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL B
CHANNEL A
123 E24
53 52
[6] [6] [6] 51
SEE TABLE I & NOTE 15
108 E5
104 [6]
[3] 103
TERM NOS. 54 THRU 62
78 E51
A A
INDEX KEY
102 J6 23
101 J7 21
INDEX KEY
97 E14 4 9
96 E15 4 9
94 E33 5 6
92 E37 4 9
91 E38 5 6
89 E39 5 6
B B
C C
85 J5 24
86 J8 22
INDEX KEY
100 E32 4 9
99 J2 20
98 E31 4 9
95 J3 25
[2]
90 J4 26
88 E40 5 6
87 J1 19
INDEX KEY
93 E1 16
INDEX KEY


4 PLACES J5, J8, J6 & J7
SECTION B-B

2901144	REV G	SH 55

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289			DELETED									
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-BB	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298			DELETED									
A 299			DELETED									
A 300			DELETED									

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 31 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301			DELETED									
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-34 E37-BB	101 92				.15 .27	NO NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 32 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-BB	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 99				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 98				.15 .25	NO NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 33 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		7	

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 34 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J6-43	102				.15	NO			
			T3-2	51				.25	YES			
A 338	1		T1-3	53				.25	YES		7	
			A7-43	6				.25	YES			
A 339	1		T2-3	52				.25	YES		7	
			A6-43	5				.25	YES			
A 340	1		T3-3	51				.25	YES		7	
			A5-43	4				.25	YES			
A 341	1		A7-4	6				.25	YES			
			A6-4	5				.25	YES			
A 342	1		A6-4	5				.25	YES			
			A5-4	4				.25	YES			
A 343	1		A7-1	6				.25	YES			
			A6-1	5				.25	YES			
A 344	1		A6-1	5				.25	YES			
			A5-1	4				.25	YES			
A 345	1		A7-21	6				.25	YES			CHANNEL B
			J1-77	87				.15	NO			
A 346	1		A7-13	6				.25	YES			CHANNEL B
			J1-76	87				.15	NO			
A 347	1		A6-21	5				.25	YES			CHANNEL B
			J1-52	87				.15	NO			
A 348	1		A6-13	5				.25	YES			CHANNEL B
			J1-51	87				.15	NO			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 35 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21	4				.25	YES			CHANNEL B
			J1-30	87				.15	NO			
A 350	1		A5-13	4				.25	YES			CHANNEL B
			J1-29	87				.15	NO			
A 351	1		A45-40	39				.25	YES			CHANNEL B
			J2-66	99				.15	NO			
A 352	1		A45-32	39				.25	YES			CHANNEL B
			J2-42	99				.15	NO			
A 353	1		A45-17	39				.25	YES			CHANNEL B
			J2-43	99				.15	NO			
A 354	1		A45-15	39				.25	YES			CHANNEL B
			J2-23	99				.15	NO			
A 355	1		A46-40	40				.25	YES			CHANNEL B
			J2-68	99				.15	NO			
A 356	1		A46-32	40				.25	YES			CHANNEL B
			J2-67	99				.15	NO			
A 357	1		A46-17	40				.25	YES			CHANNEL B
			J2-62	99				.15	NO			
A 358	1		A46-15	40				.25	YES			CHANNEL B
			J2-45	99				.15	NO			
A 359	1		A3-40	2				.25	YES			CHANNEL B
			J2-25	99				.15	NO			
A 360	1		A3-32	2				.25	YES			CHANNEL B
			J2-11	99				.15	NO			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 36 OF

CYZMOURE 102666 WIRING HARNESS A 2901144

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17	2				.25	YES			CHANNEL B
			J2-70	99				.15	NO			
A 362	1		A3-15	2				.25	YES			CHANNEL B
			J2-46	99				.15	NO			
A 363	1		A4-40	3				.25	YES			CHANNEL B
			J2-47	99				.15	NO			
A 364	1		A4-32	3				.25	YES			CHANNEL B
			J2-27	99				.15	NO			
A 365	1		A4-17	3				.25	YES			CHANNEL B
			J2-71	99				.15	NO			
A 366	1		A4-15	3				.25	YES			CHANNEL B
			J2-72	99				.15	NO			
A 367	1		J7-14	101				.15	NO			
			A45-19	39				.25	YES			
A 368	1		J6-14	102				.15	NO			
			A45-19	39				.25	YES			
A 369	1		J7-3	101				.15	NO			
			A45-1	39				.25	YES			
A 370	1		J6-3	102				.15	NO			
			A45-1	39				.25	YES			
A 371	1		J7-5	101				.15	NO			
			A46-19	40				.25	YES			
A 372	1		J6-5	102				.15	NO			
			A46-19	40				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 37 OF

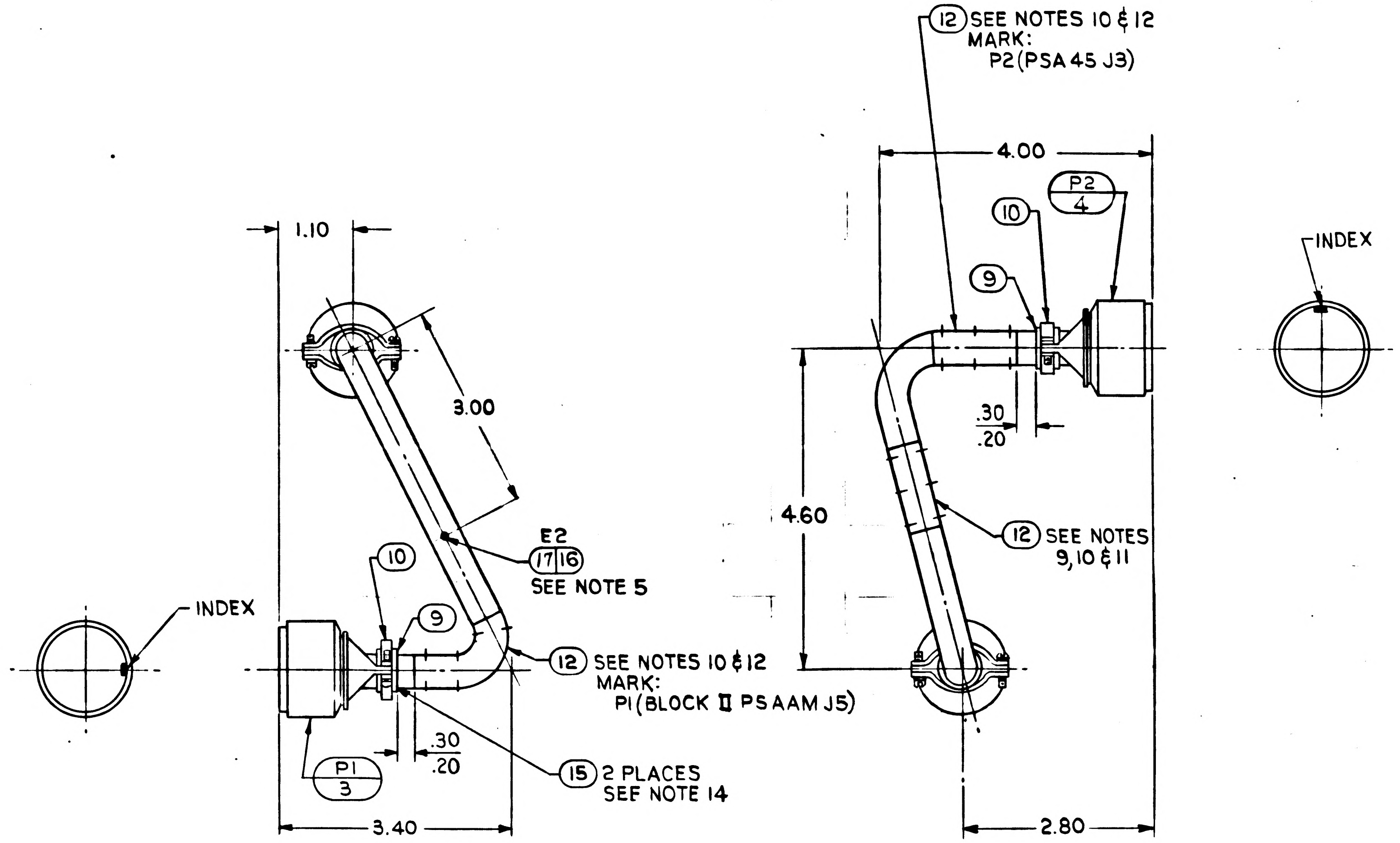
CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1	101				.15	NO			
			A46-1	40				.25	YES			
A 374	1		J6-1	102				.15	NO			
			A46-1	40				.25	YES			
A 375	1		J7-15	101				.15	NO			
			A3-19	2				.25	YES			
A 376	1		J6-15	102				.15	NO			
			A3-19	2				.25	YES			
A 377	1		J7-4	101				.15	NO			
			A3-1	2				.25	YES			
A 378	1		J6-4	102				.15	NO			
			A3-1	2				.25	YES			
A 379	1		J7-13	101				.15	NO			
			A4-19	3				.25	YES			
A 380	1		J6-13	102				.15	NO			
			A4-19	3				.25	YES			
A 381	1		J7-12	101				.15	NO			
			A4-1	3				.25	YES			
A 382	1		J6-12	102				.15	NO			
			A4-1	3				.25	YES			
A 383	1		T1-4	53				.25	YES		7	
			E24-BB	123				.26	NO			
A 384	1		T2-4	52				.25	YES		7	
			E24-BB	123				.26	NO			

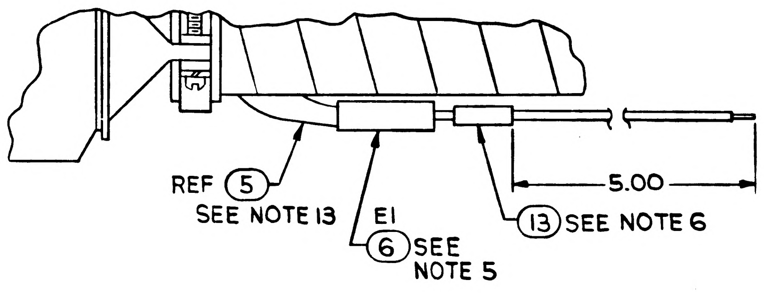
SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 38 OF

2901146

REVISIONS 22641					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



12 SEE NOTES 10 & 12
MARK:
P2 (PSA 45 J3)
4.00
P2
4
10
9
INDEX
.30
.20
4.60
12 SEE NOTES
9, 10 & 11
2.80
1.10
3.00
E2
17 16
SEE NOTE 5
10
9
INDEX
12 SEE NOTES 10 & 12
MARK:
P1 (BLOCK II PSAAM J5)
P1
3
.30
.20
15 2 PLACES
SEE NOTE 14
3.40



5.00
REF 5
SEE NOTE 13
E1
6 SEE
NOTE 5
13 SEE NOTE 6

FIGURE 1
SCALE: NONE
WITH ITEM 14 NOT SHOWN

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .25
3 PLACE DECIMALS ± –
ANGLES ± –
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Janowiak DATE 30 MAR 66
CHECKED 6 APR 66
APPROVAL Yeldman 5/4/66
CONTRACT NAS 9-497
NASA APPROVAL 5/5/66
MIT APPROVAL 5-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL

SIZE D
CODE IDENT NO. 99974
2901146
SCALE FULL
SHEET 12 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 382	1		J3-J	1				.20	NO		10	
			TB2-14	11				.25	NO		21	
A 383	1		R2-COM	.75				.25	YES			
			E1	8				.25	NO			
A 384	1		K22-12	18A				.25	YES		20	
			K22-1	18A				.25	YES			
A 385	1		K21-4	33A				.25	YES		9	
			K22-13	18A				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 46 OF 47

WIRING HARNESS E 2901198 +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 248	16		E138-BB E123-BB	69 58				.25 .25	NO NO			2L 2L
E 249	3				4.00 .52	3.75 .23				B,6B A,10	9, 29 34, 35	
E 249A	1		SHLD E249 P82-FF	 24				.25 .22	NO NO		 15	1562 1562
E 249E			P82-GG P134-1	24 36				.44 .11	NO NO		15 33	1561 1561
E 249X			SHLD E249 P134-2	 36								1562 1562
E 250	3				4.00 .52	3.75 .23				B,6B A,10	9, 29 34, 35	
E 250A	1		SHLD E250 P82-Z	 24				.25 .22	NO NO		 15	1588 1588
E 250E			P82-Y P135-1	24 37				.44 .11	NO NO		15 33	1587 1587
E 250X			SHLD E250 P135-2	 37								1588 1588
E 251	16		J3-HH T89-2	32 71				.22 .20	NO NO		15 32	1A 1A
E 252	1		J3-BB E137-B	32 70				.22 .25	NO NO		15	2C 2C
E 253	1		J3-D* E137-B	 70				.22 .25	NO NO		15	2L 2L

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 71 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 254	1		J4-T* E138-B	 70				.22 .25	NO NO		15		2A 2A
E 255	1		J4-U E138-B	31 69				.22 .25	NO NO		15		2G 2G
E 256	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 256B	1		E136-B SHLD E256	68				.25 .25	NO NO				2L 2L
E 256L			P82-N P122B-4	24 23				.22 .12	NO NO		15 11		1631B 1631B
E 256R			P82-M P122B-3	24 23				.22 .12	NO NO		15 11		1630B 1630B
E 257	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 257B	1		P117B-31 SHLD E257	18				.12 .25	NO NO		11		1H 1H
E 257L			P82-V* P117B-12	24 18				.22 .12	NO NO		15 11		1584B 1584B
E 257R			P82-A* P117B-11	24 18				.22 .12	NO NO		15 11		1583B 1583B
E 258	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 258B	1		E136-B SHLD E258	68				.25 .25	NO NO				2L 2L

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 72 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198 +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 258L			P82-K* P122B-6	24 23				.22 .12	NO NO		15 11	1629 1629
E 258R			P82-I* P122B-5	24 23				.22 .12	NO NO		15 11	1628 1628
E 259	1		P82-CC P121B-25	24 22				.22 .12	NO NO		15 11	1501 1501
E 260	1		P82-LL P121B-28	24 22				.22 .12	NO NO		15 11	1644 1644
E 261	1		P82-MM P121B-27	24 22				.22 .12	NO NO		15 11	1645 1645
E 262	1		P82-NN P121B-29	24 22				.22 .12	NO NO		15 11	1580 1580
E 263	1		P121B-30 P82-PP	22 24				.12 .22	NO NO		11 15	902 902
E 264	1		P83-A P122B-7	30 23				.22 .12	NO NO		15 11	1847 1847

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 73 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198 A

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E	19	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	19B	1		E109-B	45				.25	NO				2L
				SHLD E19					.25	NO				2L
E	19L			P9-E*	26				.22	NO		15		179B
				P104B-22	5				.12	NO		11		179B
E	19R			P9-D*	26				.22	NO		15		178B
				P104B-21	5				.12	NO		11		178B
E	20	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	20B	1		E100-B	38				.25	NO				1H
				SHLD E20					.25	NO				1H
E	20L			P9-EE	26				.22	NO		15		654A
				P100B-2	1				.12	NO		11		654A
E	20R			P9-DD	26				.22	NO		15		653A
				P100B-1	1				.12	NO		11		653A
E	21	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	21B	1		E118-B	53				.25	NO				2L
				SHLD E21					.25	NO				2L
E	21L			P9-J	26				.22	NO		15		106B
				P109B-28	10				.12	NO		11		106B
E	21R			P9-H	26				.22	NO		15		105B
				P109B-27	10				.12	NO		11		105B

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 15 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198 A

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E	22	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	22B	1		E118-B	53				.25	NO				2L
				SHLD E22					.25	NO				2L
E	22L			P9-E	26				.22	NO		15		286B
				P109B-6	10				.12	NO		11		286B
E	22R			P9-D	26				.22	NO		15		285A
				P109B-[illegible]	10				.12	NO		11		285A
E	23	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	23B	1		P102B-31	3				.12	NO		11		1H
				SHLD E23					.25	NO				1H
E	23L			P9-T	26				.22	NO		15		723B
				P102B-2	3				.12	NO		11		723B
E	23R			P9-S	26				.22	NO		15		1637B
				P102B-1	3				.12	NO		11		1637B
E	24	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	24B	1		E105-B	41				.25	NO				2L
				SHLD E24					.25	NO				2L
E	24L			P9-G*	26				.22	NO		15		1264B
				P102B-30	3				.12	NO		11		1264B
E	24R			P9-F*	26				.22	NO		15		1263A
				P102B-29	3				.12	NO		11		1263A

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 16 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E	25	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	25B	1		E100-B	38				.25	NO				1H
				SHLD E25					.25	NO				1H
E	25L			P9-T*	26				.22	NO		15		212B
				P100B-14	1				.12	NO		11		212B
E	25R			P9-S*	26				.22	NO		15		719A
				P100B-13	1				.12	NO		11		719A
E	26	2				2.25	2.00				A,7	18		
						2.25	2.00				B,6A	10, 9		
E	26B	1		E137-B	70				.25	NO				2L
				SHLD E26					.25	NO				2L
E	26L			P10-PP	25				.22	NO		15		42
				J3-B	32				.22	NO		15		42
E	26R			P10-AA	25				.22	NO		15		41
				J3-A	32				.22	NO		15		41
E	27	2				2.25	2.00				A,7	18		
						2.25	2.00				B,6A	10, 9		
E	27B	1		E137-B	70				.25	NO				2L
				SHLD E27					.25	NO				2L
E	27L			P10-A*	25				.22	NO		15		44
				J3-E	32				.22	NO		15		44
E	27R			P10-A	25				.22	NO		15		43
				J3-D	32				.22	NO		15		43

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 17 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E	28	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	28B	1		E108-B	44				.25	NO				1H
				SHLD E28					.25	NO				1H
E	28L			P10-LL	25				.22	NO		15		847A
				P104B-2	5				.12	NO		11		847A
E	28R			P10-KK	25				.22	NO		15		846A
				P104B-1	5				.12	NO		11		846A
E	29	2				2.25	2.00				A,7	18		
						4.00	3.75				B,6A	10, 9		
E	29B	1		E108-B	44				.25	NO				1H
				SHLD E29					.25	NO				1H
E	29L			P10-NN	25				.22	NO		15		849A
				P104B-20	5				.12	NO		11		849A
E	29R			P10-MM	25				.22	NO		15		848A
				P104B-19	5				.12	NO		11		848A
E	30	2				2.25	2.00				A,7	18		
						2.25	2.00				B,6A	10, 9		
E	30B	1		E138-B	69				.25	NO				2L
				SHLD E30					.25	NO				2L
E	30L			P10-K*	25				.22	NO		15		70
				J4-B	31				.22	NO		15		70
E	30R			P10-I*	25				.22	NO		15		69
				J4-A	31				.22	NO		15		69

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 18 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 130	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 130B	1		P113B-31 SHLD E130	14				.12 .25	NO NO		11	1H 1H
E 130L			P84-R P113B-2	28 14				.22 .12	NO NO		15 11	1336 1336
E 130R			P84-P P113B-1	28 14				.22 .12	NO NO		15 11	1335 1335
E 131	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 131B	1		E116-B SHLD E131	51				.25 .25	NO NO			2L 2L
→ E 131L			P84-E* P108B-28	28 9				.22 .12	NO NO		15 11	170A ← 170A
E 131P			P84-D* P108B-27	28 9				.22 .12	NO NO		15 11	1690 1690
E 132	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 132B	1		E118-B SHLD E132	53				.25 .25	NO NO			2L 2L
E 132L			P84-J P109B-22	28 10				.22 .12	NO NO		15 11	1040 1040
E 132R			P84-H P109B-21	28 10				.22 .12	NO NO		15 11	1030 1030

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 47 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 133	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 133B	1		E100-B SHLD E133	38				.25 .25	NO NO			1H 1H
E 133L			P84-T* P100B-6	28 1				.22 .12	NO NO		15 11	2120 2120
E 133R			P84-S* P100B-5	28 1				.22 .12	NO NO		15 11	211A 211A
E 134	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 134B	1		E108-B SHLD E134	44				.25 .25	NO NO			1H 1H
→ E 134L			P84-V P104B-6	28 5				.22 .12	NO NO		15 11	204B ← 204B
E 134R			P84-U P104B-5	28 5				.22 .12	NO NO		15 11	2030 2030
E 135	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 135B	1		E105-B SHLD E135	41				.25 .25	NO NO			2L 2L
E 135L			P84-G* P102B-24	28 3				.22 .12	NO NO		15 11	348F 348F
E 135R			P84-F* P102B-23	28 3				.22 .12	NO NO		15 11	347F 347F

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 48 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 136	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 136B	1		E116-B SHLD E136	51				.25 .25	NO NO			2L 2L
E 136L			P84-E P108B-30	28 9				.22 .12	NO NO		15 11	288A 288A
E 136R			P84-D P108B-29	28 9				.22 .12	NO NO		15 11	287A 287A
E 137	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 137B	1		E125-B SHLD E137	59				.25 .25	NO NO			2L 2L
→ E 137L			P84-J* P113B-10	28 14				.22 .12	NO NO		15 11	13050 ← 13050
E 137R			P84-H* P113B-9	28 14				.22 .12	NO NO		15 11	13040 13040
E 138	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 138B	1		E105-B SHLD E138	41				.25 .25	NO NO			2L 2L
E 138L			P84-JJ P102B-6	28 3				.22 .12	NO NO		15 11	1320 1320
E 138R			P84-HH P102B-5	28 3				.22 .12	NO NO		15 11	1310 1310

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 49 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 139	1		P84-Z P122B-15	28 23				.22 .12	NO NO		15 11	1407 1407
E 140	1		P84-Y P122B-16	28 23				.22 .12	NO NO		15 11	1408 1408
E 141	1		P84-K* P122B-17	28 23				.22 .12	NO NO		15 11	1409 1409
E 142	1		P84-I* P122B-18	28 23				.22 .12	NO NO		15 11	1410 1410
E 143	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 143B	1		E137-B SHLD E143	70				.25 .25	NO NO			2L 2L
→ E 143L			P85-V* J3-H	29 32				.22 .22	NO NO		15 15	46 ← 46
E 143R			P85-U* J3-G	29 32				.22 .22	NO NO		15 15	45 45
E 144	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 144B	1		E135-B SHLD E144	67				.25 .25	NO NO			1H 1H
E 144L			P85-R* P121B-2	29 22				.22 .12	NO NO		15 11	1360 1360
E 144R			P85-P* P121B-1	29 22				.22 .12	NO NO		15 11	1359 1359

SIZE	CODE IDENT NO.		
A	99974	2901198	
SCALE-NONE	REV LTR	B	SHEET 50 OF 74

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 12.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 12.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES. EXCEPT ITEMS 6 AND 7.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 14 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 2 OF 19

NOTE NUMBER — GENERAL NOTES DESCRIPTION

15 MARK ITEM 11 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 Continuity test per conductor chart. Resistance shall be less than 2 Ohms.

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 3 OF 19

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	AR	2901217-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 135 FT TOTAL LENGTH
	2	1	1897047-614	CONNECTOR, ELECTRICAL 61P2
	3	1	1897047-611	CONNECTOR, ELECTRICAL 61PW
	4	1	1897047-610	CONNECTOR, ELECTRICAL 61P
	5	1	1897047-613	CONNECTOR, ELECTRICAL 61PY
7	6	1	1897398-001	CONNECTOR, ELECTRICAL
7	7	1	1897171- 3	CONNECTOR, ELECTRICAL
7	8	97	1010738-006	CONTACT, SOCKET
7	9	2	1010490-258	INSULATION SLEEVING
7	10	2	1010490-256	INSULATION SLEEVING
7	11	7	1016128-011	BAND, IDENTIFICATION
7	12	AR	1012507-004	TAPE, LACING AND TYING
	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP (FURNISHED WITH ITEMS 2 THRU 5)
14	14	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
7	15	2	1016006-001	SPLICE REDUCER
7	16	2	1016006-002	SPLICE REDUCER
7	17	2	1016006-003	SPLICE REDUCER

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 4 OF 19

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	2	1010490-228	INSULATION SLEEVING
	19	1	2901217-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT 6 FT TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 5 OF 19

CABLE ASSEMBLY SCA 2901217 ~~8~~E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-K E6					.22 .37	NO NO		13	
A 50	1		P3-L P1-~~15~~29					.22 .10	NO NO		13 8	
A 51	1		P3-M P1-~~27~~15					.22 .10	NO NO		13 8	
A 52	1		P3-N J1-130					.22 .10	NO NO		13 8	
A 53	1		P3-P E6					.22 .37	NO NO		13	
A 54	1		P3-R P1-28					.22 .10	NO NO		13 8	
A 55	1		P3-S P1-40					.22 .10	NO NO		13 8	
A 56	1		P3-T J1-106					.22 .10	NO NO		13 8	
A 57	1		P3-U E6					.22 .37	NO NO		13	
A 58	1		P3-V P1-17					.22 .10	NO NO		13 8	
A 59	1		P3-W P1-16					.22 .10	NO NO		13 8	
A 60	1		P3-X J1-110					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~8~~ ~~D~~ E	SHEET 10 OF 19

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CABLE ASSEMBLY SCA 2901217 ~~8~~E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-Y E6					.22 .37	NO NO		13	
A 62	1		P3-Z P1-30					.22 .10	NO NO		13 8	
A 63	1		P3-A* P1-31					.22 .10	NO NO		13 8	
A 64	1		P3-B* J1-88					.22 .10	NO NO		13 8	
A 65	1		P3-C* E6					.22 .37	NO NO		13	
A 66	1		P3-D* P1-96					.22 .10	NO NO		13 8	
A 67	1		P3-E* P1-82					.22 .10	NO NO		13 8	
A 68	1		P3-F* J1-107					.22 .10	NO NO		13 8	
A 69	1		P3-G* E6					.22 .37	NO NO		13	
A 70	1		P3-H* P1-70					.22 .10	NO NO		13 8	
A 71	1		P3-I* P1-71					.22 .10	NO NO		13 8	
A 72	1		P3-J* J1-128					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~8~~ E	SHEET 11 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~8~~E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-K* E6					.22 .37	NO NO		13	
A 74	1		P3-M* P1-72					.22 .10	NO NO		13 8	
A 75	1		P3-N* P1-83					.22 .10	NO NO		13 8	
A 76	1		P6-B* J1-17					.22 .10	NO NO		13 8	
A 77	1		P6-C* E5					.22 .37	NO NO		13	
A 78	1		P6-D* P1-61					.22 .10	NO NO		13 8	
A 79	1		P6-E* P1-51					.22 .10	NO NO		13 8	
A 80	1		P6-F* J1-18					.22 .10	NO NO		13 8	
A 81	1		P6-G* E5					.22 .37	NO NO		13	
A 82	1		P6-H* P1-60					.22 .10	NO NO		13 8	
A 83	1		P6-J* J1-35					.22 .10	NO NO		13 8	
A 84	1		P6-K* E5					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~8~~ E	SHEET 12 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~8~~ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P6-M* P1-50					.22 .10	NO NO		13 8	
A 86	1		P6-X* J1-37					.22 .10	NO NO		13 8	
A 87	1		P6-Y* E5					.22 .37	NO NO		13	
A 88	1		P6-Z* P1-33					.22 .10	NO NO		13 8	
A 89	1		P6-AA E1					.22 .37	NO NO		13	
A 90	1		P6-BB J1-53					.22 .10	NO NO		13 8	
A 91	1		P6-CC E5					.22 .37	NO NO		13	
A 92	1		P6-DD P1-43					.22 .10	NO NO		13 8	
A 93	1		P6-FF J1-54					.22 .10	NO NO		13 8	
A 94	1		P6-GG E5					.22 .37	NO NO		13	
A 95	1		P6-HH P1-44					.22 .10	NO NO		13 8	
A 96	1		P8-A ~~J1-63~~ J1-105					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~8~~ ~~D~~ E	SHEET 13 OF 19

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 109	1		J2-S1 J7-R21	137 109				.19 .22	NO NO		3 6	
C 110	1		J2-S2 J7-R22	137 110				.19 .22	NO NO		3 6	
C 111	1		J2-S3 J7-R23	137 111				.19 .22	NO NO		3 6	
C 112	1		J2-S4 J7-R24	137 112				.19 .22	NO NO		3 6	
C 113	1		J2-S5 J7-R25	137 113				.19 .22	NO NO		3 6	
C 114	1		J2-S6 J7-R26	137 114				.19 .22	NO NO		3 6	
C 115	1		J2-S7 J7-R27	137 115				.19 .22	NO NO		3 6	
C 116	1		J2-S8 J7-R28	137 116				.19 .22	NO NO		3 6	
C 117	1		J2-T1 J7-R29	137 117				.19 .22	NO NO		3 6	
C 118	1		J2-T2 J7-R30	137 118				.19 .22	NO NO		3 6	
C 119	1		J2-T3 J7-R31	137 119				.19 .22	NO NO		3 6	
C 120	1		J2-T4 J7-R32	137 120				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE REV LTR A
SHEET 14 OF 18

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WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 121	1		J2-T5 J7-R33	137 121				.19 .22	NO NO		3 6	
C 122	1		J2-T6 J7-R34	137 122				.19 .22	NO NO		3 6	
C 123	1		J2-T7 J7-R35	137 123				.19 .22	NO NO		3 6	
C 124	1		J2-T8 J7-R36	137 124				.19 .22	NO NO		3 6	
C 125	1		J2-U1 J7-R37	137 125				.19 .22	NO NO		3 6	
C 126	1		J2-U2 J7-R38	137 126				.19 .22	NO NO		3 6	
C 127	1		J2-U3 J7-R39	137 127				.19 .22	NO NO		3 6	
C 128	1		J2-U4 J7-R40	137 128				.19 .22	NO NO		3 6	
C 129	1		J2-U5 J7-R41	137 129				.19 .22	NO NO		3 6	
C 130	1		J2-U6 J7-R42	137 130				.19 .22	NO NO		3 6	
C 131	1		J2-U7 J7-R43	137 131				.19 .22	NO NO		3 6	
C 132	1		J2-U8 J7-R44	137 132				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE REV LTR A
SHEET 15 OF 18

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WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 133	1		J2-V1 J7-R45	137 133				.19 .22	NO NO		3 6	
C 134	1		J2-V2 J7-R46	137 134				.19 .22	NO NO		3 6	
C 135	1		J2-V3 J7-R47	137 135				.19 .22	NO NO		3 6	
C 136	1		J2-V4 J7-R48	137 136				.19 .22	NO NO		3 6	
C 137	1		J2-V5 J7-U1	137 89				.19 .22	NO NO		3 6	
C 138	1		J2-V6 J7-U2	137 90				.19 .22	NO NO		3 6	
C 139	1		J2-V7 J7-U3	137 91				.19 .22	NO NO		3 6	
C 140	1		J2-V8 J7-U4	137 92				.19 .22	NO NO		3 6	
C 141	1		J2-W1 J7-U5	137 93				.19 .22	NO NO		3 6	
C 142	1		J2-W2 J7-U6	137 94				.19 .22	NO NO		3 6	
C 143	1		J2-W3 J7-U7	137 95				.19 .22	NO NO		3 6	
C 144	1		J2-W4 J7-U8	137 96				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE REV LTR A
SHEET 16 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 145	1		J2-W5 J7-U9	137 97				.19 .22	NO NO		3 6	
C 146	1		J2-W6 J7-U10	137 98				.19 .22	NO NO		3 6	
C 147	1		J2-W7 J7-U11	137 99				.19 .22	NO NO		3 6	
C 148	1		J2-W8 J7-U12	137 100				.19 .22	NO NO		3 6	
C 149	1		J2-X3 J7-U13	137 101				.19 .22	NO NO		3 6	
C 150	1		J2-X4 J7-U14	137 102				.19 .22	NO NO		3 6	
C 151	1		J2-X5 J7-U15	137 103				.19 .22	NO NO		3 6	
C 152	2		J2-X6 E1	137 138				.19 .13	NO NO		9 8	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE REV LTR A
SHEET 17 OF 18

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P3-S P12-35					.22 .10	NO NO		13 11	
A 146	1		P3-T P196-20					.22 .10	NO NO		13 12	
A 147	1		P3-U P196-21					.22 .10	NO NO		13 12	
A 148	1		P3-V P11-20					.22 .10	NO NO		13 11	
A 149	1		P3-W P11-21					.22 .10	NO NO		13 11	
A 150	1		P3-X P196-27					.22 .10	NO NO		13 12	
A 151	1		P3-Y P196-28					.22 .10	NO NO		13 12	
A 152	1		P3-Z P11-27					.22 .10	NO NO		13 11	
A 153	1		P3-A* P11-28					.22 .10	NO NO		13 11	
A 154	1		P3-B* P196-35					.22 .10	NO NO		13 12	
A 155	1		P3-C* P196-36					.22 .10	NO NO		13 12	
A 156	1		P3-D* P11-35					.22 .10	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ~~B~~ D	SHEET 18 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P3-E* P11-36					.22 .10	NO NO		13 11	
A 158	1		P4-A P202-14					.22 .10	NO NO		13 12	
A 159	1		P4-B P202-15					.22 .10	NO NO		13 12	
A 160	1		P4-C P17-14					.22 .10	NO NO		13 11	
A 161	1		P4-D P17-15					.22 .10	NO NO		13 11	
A 162	1		P4-M P199-18					.22 .10	NO NO		13 12	
A 163	1		P4-S P199-19					.22 .10	NO NO		13 12	
A 164	1		P4-T P11-23					.22 .10	NO NO		13 11	
A 165	1		P4-U E3					.22 .37	NO NO		13	
A 166	1		P4-W P199-20					.22 .10	NO NO		13 12	
A 167	1		P4-X P11-24					.22 .10	NO NO		13 11	
A 168	1		P4-A* P199-21					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ~~B~~ D	SHEET 19 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P4-B* P11-31					.22 .10	NO NO		13 11	
A 170	1		P4-E* P199-22					.22 .10	NO NO		13 12	
A 171	1		P4-T* P2-V					.22 .22	NO NO		13 13	
A 172	1		P4-U* P2-W					.22 .22	NO NO		13 13	
A 173	1		P4-V* E6					.22 .37	NO NO		13	
A 174	1		P4-W* E7					.22 .37	NO NO		13	
A 175	1		P4-X* P19-12					.22 .10	NO NO		13 11	
A 176	1		P4-Z* P11-3					.22 .10	NO NO		13 11	
A 177	1		P6-A P196-7					.22 .10	NO NO		13 12	
A 178	1		P6-B E1					.22 .37	NO NO		13	
A 179	1		P6-C P11-7					.22 .10	NO NO		13 11	
A 180	1		P6-E P196-6					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ~~B~~ D	SHEET 20 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-F E1					.22 .37	NO NO		13	
A 182	1		P6-G P11-6					.22 .10	NO NO		13 11	
A 183	1		P6-J P196-13					.22 .10	NO NO		13 12	
A 184	1		P6-K E1					.22 .37	NO NO		13	
A 185	1		P6-L P11-13					.22 .10	NO NO		13 11	
A 186	1		P6-M P11-14					.22 .10	NO NO		13 11	
A 187	1		P6-N P197-10					.22 .10	NO NO		13 12	
A 188	1		P6-P E2					.22 .37	NO NO		13	
A 189	1		P6-R P12-10					.22 .10	NO NO		13 11	
A 190	1		P6-S E3					.22 .37	NO NO		13	
A 191	1		P7-B* ~~P6-T~~ P197-17					.22 .10	NO NO		13 12	
A 192	1		P7-C* ~~P6-U~~ E2					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ~~C~~ D	SHEET 21 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-D* P12-17					.22 .10	NO NO		13 11	
A 194	1		P7-E* E3					.22 .37	NO NO		13	
A 195	1		P6-X P197-18					.22 .10	NO NO		13 12	
A 196	1		P6-Y E2					.22 .37	NO NO		13	
A 197	1		P6-Z P12-18					.22 .10	NO NO		13 11	
A 198	1		P6-A* E3					.22 .37	NO NO		13	
A 199	1		P6-B* P200-9					.22 .10	NO NO		13 12	
A 200	1		P6-C* P200-1					.22 .10	NO NO		13 12	
A 201	1		P6-D* P15-9					.22 .10	NO NO		13 11	
A 202	1		P6-E* P15-1					.22 .10	NO NO		13 11	
A 203	1		P6-F* P200-17					.22 .10	NO NO		13 12	
A 204	1		P6-G* P200-29					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 22 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-H* P15-17					.22 .10	NO NO		13 11	
A 206	2		P6-I* P6-E*					.22 .22	NO NO		13 13	
A 207	1		P6-J* P202-7					.22 .10	NO NO		13 12	
A 208	1		P6-K* P202-8					.22 .10	NO NO		13 12	
A 209	1		P6-M* P17-7					.22 .10	NO NO		13 11	
A 210	1		P6-N* P17-8					.22 .10	NO NO		13 11	
A 211	1		P6-P* P202-20					.22 .10	NO NO		13 12	
A 212	1		P6-Q* P202-21					.22 .10	NO NO		13 12	
A 213	1		P6-R* P17-20					.22 .10	NO NO		13 11	
A 214	1		P6-S* P17-21					.22 .10	NO NO		13 11	
A 215	1		P6-T* P202-27					.22 .10	NO NO		13 12	
A 216	1		P6-U* P202-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 23 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P6-V* P17-27					.22 .10	NO NO		13 11	
A 218	1		P6-W* P17-28					.22 .10	NO NO		13 11	
A 219	1		P6-X* P202-35					.22 .10	NO NO		13 12	
A 220	1		P6-Y* P202-36					.22 .10	NO NO		13 12	
A 221	1		P6-Z* P17-35					.22 .10	NO NO		13 11	
A 222	1		P6-AA P17-36					.22 .10	NO NO		13 11	
A 223	1		P6-BB P201-20					.22 .10	NO NO		13 12	
A 224	1		P6-CC P201-21					.22 .10	NO NO		13 12	
A 225	1		P6-DD P16-20					.22 .10	NO NO		13 11	
A 226	1		P6-EE P16-21					.22 .10	NO NO		13 11	
A 227	1		P6-FF P201-27					.22 .10	NO NO		13 12	
A 228	1		P6-GG P201-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 24 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P6-HH P16-27					.22 .10	NO NO		13 11	
A 230	1		P6-JJ P16-28					.22 .10	NO NO		13 11	
A 231	1		P8-B E5					.22 .37	NO NO		13	
A 232	1		P8-K E5					.22 .37	NO NO		13	
A 233	1		P8-P E5					.22 .37	NO NO		13	
A 234	1		P8-T P2-X					.22 .22	NO NO		13 13	
A 235	1		P8-U P2-Y					.22 .22	NO NO		13 13	
A 236	1		P9-A P205-5					.22 .10	NO NO		13 12	
A 237	1		P9-B E4					.22 .37	NO NO		13	
A 238	1		P9-C P20-10					.22 .10	NO NO		13 11	
A 239	1		P9-E P205-9					.22 .10	NO NO		13 12	
A 240	1		P9-F E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 25 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		11	
			P19-18					.10	NO		11	
A 98	1		P204-18					.10	NO		12	
			P204-19					.10	NO		12	
A 99	1		P19-19					.10	NO		11	
			P19-20					.10	NO		11	
A 100	1		P204-20					.10	NO		12	
			P204-21					.10	NO		12	
A 101	1		P19-21					.10	NO		11	
			P19-23					.10	NO		11	
A 102	1		P204-23					.10	NO		12	
			P204-24					.10	NO		12	
A 103	1		P19-24					.10	NO		11	
			P19-27					.10	NO		11	
A 104	1		P204-27					.10	NO		12	
			P204-28					.10	NO		12	
A 105	1		P19-28					.10	NO		11	
			P20-5					.10	NO		11	
A 106	1		P205-16					.10	NO		12	
			P205-6					.10	NO		12	
A 107	1		P20-6					.10	NO		11	
			P20-7					.10	NO		11	
A 108	1		P205-7					.10	NO		12	
			P205-8					.10	NO		12	

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 14 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		11	
			P20-13					.10	NO		11	
A 110	1		P205-13					.10	NO		12	
			P205-14					.10	NO		12	
A 111	1		P20-14					.10	NO		11	
			P20-19					.10	NO		11	
A 112	1		P205-19					.10	NO		12	
			P205-20					.10	NO		12	
A 113	1		P20-20					.10	NO		11	
			P20-21					.10	NO		11	
A 114	1		P205-21					.10	NO		12	
			P205-27					.10	NO		12	
A 115	1		P20-27					.10	NO		11	
			P20-28					.10	NO		11	
A 116	1		P205-28					.10	NO		12	
			P205-35					.10	NO		12	
A 117	1		P20-35					.10	NO		11	
			P20-36					.10	NO		11	
A 118	1		P205-36					.10	NO		12	
			P19-3					.10	NO		11	
A 119	1		P203-27					.10	NO		12	
			P203-28					.10	NO		12	
A 120	1		P2-B					.22	NO		13	
			E5					.37	NO			

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 15 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P2-F					.22	NO		13	
			E5					.37	NO			
A 122	1		P2-F*					.22	NO		13	
			P201-35					.10	NO		12	
A 123	1		P2-G*					.22	NO		13	
			P201-36					.10	NO		12	
A 124	1		P2-H*					.22	NO		13	
			P16-35					.10	NO		11	
A 125	1		P2-I*					.22	NO		13	
			P16-36					.10	NO		11	
A 126	1		P2-K*					.22	NO		13	
			E5					.37	NO			
A 127	1		P2-LL					.22	NO		13	
			P201-9					.10	NO		12	
A 128	1		P2-MM					.22	NO		13	
			P201-1					.10	NO		12	
A 129	1		P2-NN					.22	NO		13	
			P16-9					.10	NO		11	
A 130	1		P2-PP					.22	NO		13	
			P16-1					.10	NO		11	
A 131	1		P7-F*					.22	NO		13	
			P201-10					.10	NO		12	
A 132	2		P7-G*					.22	NO		13	
			P2-MM					.22	NO			

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 16 OF 33

MIL 2084 9-65

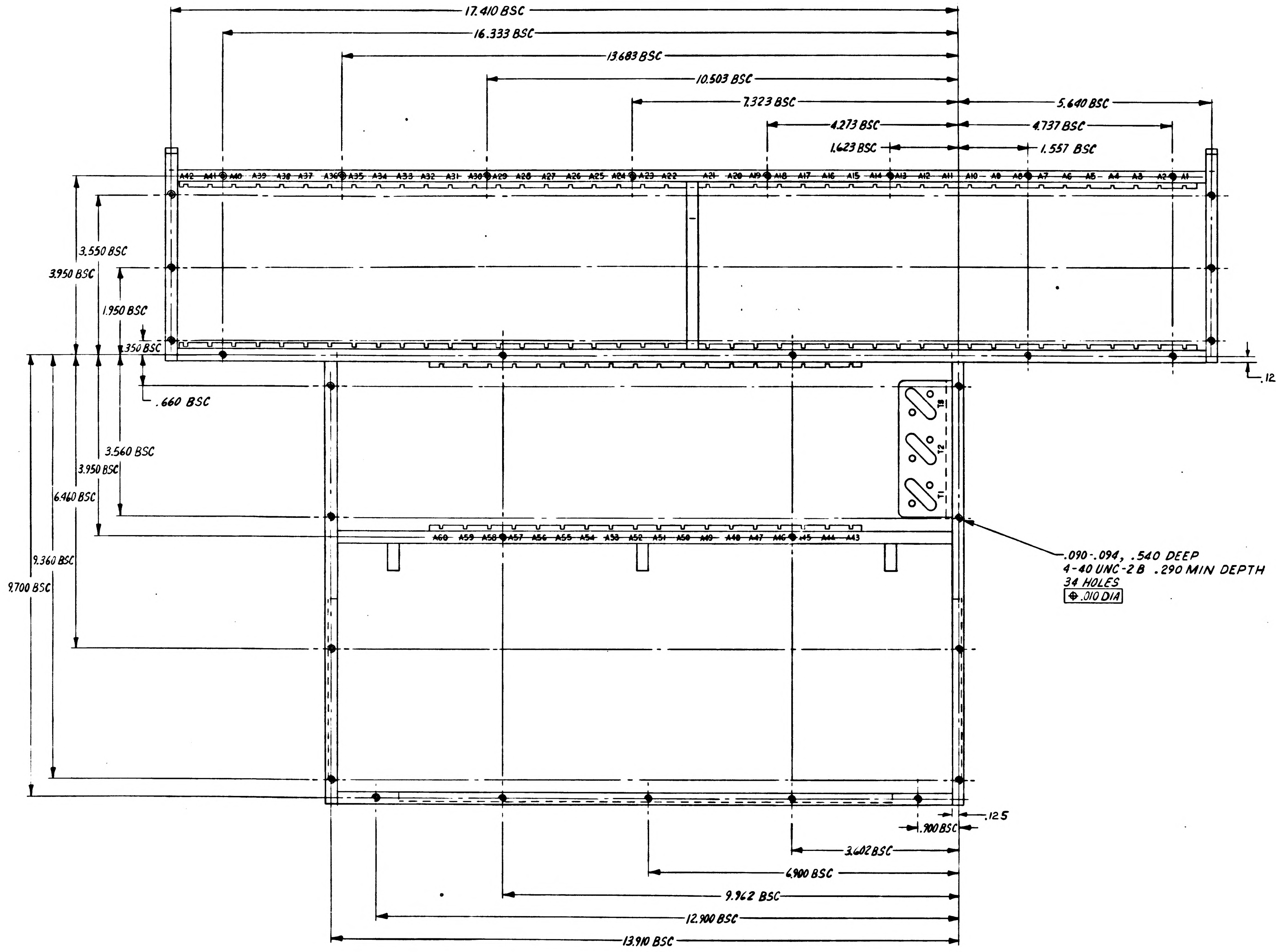
CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-H*					.22	NO		13	
			P16-10					.10	NO		11	
A 134	1		P7-J*					.22	NO		13	
			P205-34					.10	NO		12	
A 135	1		P7-K*					.22	NO		13	
			P205-26					.10	NO		12	
A 136	1		P7-M*					.22	NO		13	
			P20-34					.10	NO		12	
A 137	1		P7-N*					.22	NO		13	
			P20-26					.10	NO		11	
A 138	1		P3-J					.22	NO		13	
			P197-28					.10	NO		12	
A 139	1		P3-K					.22	NO		13	
			P197-27					.10	NO		12	
A 140	1		P3-L					.22	NO		13	
			P12-28					.10	NO		11	
A 141	1		P3-M					.22	NO		13	
			P12-27					.10	NO		11	
A 142	1		P3-N					.22	NO		13	
			P197-36					.10	NO		12	
A 143	1		P3-P					.22	NO		13	
			P197-35					.10	NO		12	
A 144	1		P3-R					.22	NO		13	
			P12-36					.10	NO		11	

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 17 OF 33

MIL 2084 9-65

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 APR 66	
	B	INITIAL RELEASE CLASS A PER TDRR 24641		MAY 66	



17.410 BSC
16.333 BSC
13.683 BSC
10.503 BSC
7.323 BSC
5.640 BSC
4.273 BSC
4.737 BSC
1.623 BSC
1.557 BSC
A42 A41 A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
3.550 BSC
3.950 BSC
1.950 BSC
.350 BSC
.125
.660 BSC
T3
T2
T1
3.560 BSC
3.950 BSC
6.460 BSC
9.360 BSC
9.700 BSC
A60 A59 A58 A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A45 A44 A43
.090-.094, .540 DEEP
4-40 UNC-2B .290 MIN DEPTH
34 HOLES
⊕ .010 DIA
.125
.900 BSC
3.602 BSC
6.900 BSC
9.962 BSC
12.900 BSC
13.910 BSC

BOTTOM COVER MOUNTING HOLES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .005 ANGLES ±	**AC ELECTRONICS DIVISION** GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN DATE 29 MAR CHECKED Ed Foster 1 APR 66 APPROVAL CONTRACT NAS 9-497	CASE, PSA ADAPTER MODULE (INSEPARABLE ASSEMBLY)
MATERIAL	NASA APPROVAL	SIZE E · CODE IDENT NO. 99974 · 2901241
APPROVAL	MIT APPROVAL	SCALE FULL · SHEET [illegible] OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	1	1	E1 P196-14					.37 .10	NO NO		 13	
A	2	1	E2 P12-1					.37 .10	NO NO		 12	
A	3	1	E3 P197-1					.37 .10	NO NO		 13	
A	4	1	E4 P205-3					.37 .10	NO NO		 13	
A	5	1	E5 P20-23					.37 .10	NO NO		 12	
A	6	1	E5 E6					.37 .37	NO NO			
A	7	1	E6 P205-2					.37 .10	NO NO		 13	
A	8	1	E6 P205-10					.37 .10	NO NO		 13	
A	9	1	E6 P205-11					.37 .10	NO NO		 13	
A	10	1	E6 P205-17					.37 .10	NO NO		 13	
A	11	1	E6 P205-24					.37 .10	NO NO		 13	
A	12	1	E6 P205-32					.37 .10	NO NO		 13	

SIZE A	CODE IDENT NO. 99974	2901375	
SCALE-NONE	REV LTR D		SHEET 6 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	13	1	E6 P205-31					.37 .10	NO NO		 13	
A	14	1	P2-X P21-C					.22 .22	NO NO		14 14	
A	15	1	P2-Y P21-A					.22 .22	NO NO		14 14	
A	16	1	E7 P11-34					.37 .10	NO NO		 12	
A	17	1	E7 P13-2					.37 .10	NO NO		 12	
A	18	1	E7 P13-3					.37 .10	NO NO		 12	
A	19	1	E7 P14-2					.37 .10	NO NO		 12	
A	20	1	E8 P11-26					.37 .10	NO NO		 12	
A	21	1	E8 P13-1					.37 .10	NO NO		 12	
A	22	1	P196-3 P196-4					.10 .10	NO NO		13 13	
A	23	1	P11-4 P11-12					.10 .10	NO NO		12 12	
A	24	1	P196-12 P196-32					.10 .10	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901375	
SCALE-NONE	REV LTR D		SHEET 7 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	25	1	P11-32 P11-33					.10 .10	NO NO		12 12	
A	26	1	P196-33 P197-9					.10 .10	NO NO		13 13	
A	27	1	P12-9 P12-13					.10 .10	NO NO		12 12	
A	28	1	P197-13 P197-14					.10 .10	NO NO		13 13	
A	29	1	P12-14 P12-15					.10 .10	NO NO		12 12	
A	30	1	P197-15 P197-20					.10 .10	NO NO		13 13	
A	31	1	P12-20 P12-21					.10 .10	NO NO		12 12	
A	32	1	P197-21 P198-23					.10 .10	NO NO		13 13	
A	33	1	P13-23 P13-24					.10 .10	NO NO		12 12	
A	34	1	P198-24 P198-31					.10 .10	NO NO		13 13	
A	35	1	P13-31 P13-32					.10 .10	NO NO		12 12	
A	36	1	P198-32 P199-23					.10 .10	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901375	
SCALE-NONE	REV LTR D		SHEET 8 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	37	1	P14-23 P14-31					.10 .10	NO NO		12 12	
A	38	1	P199-31 P200-20					.10 .10	NO NO		13 13	
A	39	1	P15-20 P15-21					.10 .10	NO NO		12 12	
A	40	1	P200-21 P200-23					.10 .10	NO NO		13 13	
A	41	1	P15-23 P15-24					.10 .10	NO NO		12 12	
A	42	1	P200-24 P200-25					.10 .10	NO NO		13 13	
A	43	1	P15-25 P15-27					.10 .10	NO NO		12 12	
A	44	1	P200-27 P200-28					.10 .10	NO NO		13 13	
A	45	1	P15-28 P15-31					.10 .10	NO NO		12 12	
A	46	1	P200-31 P200-32					.10 .10	NO NO		13 13	
A	47	1	P15-32 P15-33					.10 .10	NO NO		12 12	
A	48	1	P200-33 P200-35					.10 .10	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901375	
SCALE-NONE	REV LTR D		SHEET 9 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		12	
			P19-18					.10	NO		12	
A 98	1		P204-18					.10	NO		13	
			P204-19					.10	NO		13	
A 99	1		P19-19					.10	NO		12	
			P19-20					.10	NO		12	
A 100	1		P204-20					.10	NO		13	
			P204-21					.10	NO		13	
A 101	1		P19-21					.10	NO		12	
			P19-23					.10	NO		12	
A 102	1		P204-23					.10	NO		13	
			P204-24					.10	NO		13	
A 103	1		P19-24					.10	NO		12	
			P19-27					.10	NO		12	
A 104	1		P204-27					.10	NO		13	
			P204-28					.10	NO		13	
A 105	1		P19-28					.10	NO		12	
			P20-5					.10	NO		12	
A 106	1		P205-16					.10	NO		13	
			P205-6					.10	NO		13	
A 107	1		P20-6					.10	NO		12	
			P20-7					.10	NO		12	
A 108	1		P205-7					.10	NO		13	
			P205-8					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 14 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		12	
			P20-13					.10	NO		12	
A 110	1		P205-13					.10	NO		13	
			P205-14					.10	NO		13	
A 111	1		P20-14					.10	NO		12	
			P20-19					.10	NO		12	
A 112	1		P205-19					.10	NO		13	
			P205-20					.10	NO		13	
A 113	1		P20-20					.10	NO		12	
			P20-21					.10	NO		12	
A 114	1		P205-21					.10	NO		13	
			P205-27					.10	NO		13	
A 115	1		P20-27					.10	NO		12	
			P20-28					.10	NO		12	
A 116	1		P205-28					.10	NO		13	
			P205-35					.10	NO		13	
A 117	1		P20-35					.10	NO		12	
			P20-36					.10	NO		12	
A 118	1		P205-36					.10	NO		13	
			P197-28					.10	NO		13	
A 119	1		P12-28					.10	NO		12	
			P12-27					.10	NO		12	
A 120	1		E8					.37	NO			
			P14-1					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 15 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P197-27					.10	NO		13	
			P197-36					.10	NO		13	
A 122	1		P12-36					.10	NO		12	
			P12-35					.10	NO		12	
A 123	1		P197-35					.10	NO		13	
			P203-17					.10	NO		13	
A 124	1		P18-17					.10	NO		12	
			P18-18					.10	NO		12	
A 125	1		P203-18					.10	NO		13	
			P203-19					.10	NO		13	
A 126	1		P18-19					.10	NO		12	
			P18-24					.10	NO		12	
A 127	1		P203-24					.10	NO		13	
			P203-27					.10	NO		13	
A 128	1		P18-27					.10	NO		12	
			P18-28					.10	NO		12	
A 129	1		P203-28					.10	NO		13	
			P205-18					.10	NO		13	
A 130	1		P2-F*					.22	NO		14	
			P201-35					.10	NO		13	
A 131	1		P2-G*					.22	NO		14	
			P201-36					.10	NO		13	
A 132	1		P2-H*					.22	NO		14	
			P16-35					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 16 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P2-I*					.22	NO		14	
			P16-36					.10	NO		12	
A 134	1		P4-A					.22	NO		14	
			P202-14					.10	NO		13	
A 135	1		P4-B					.22	NO		14	
			P202-15					.10	NO		13	
A 136	1		P4-C					.22	NO		14	
			P17-14					.10	NO		12	
A 137	1		P4-D					.22	NO		14	
			P17-15					.10	NO		12	
A 138	1		P4-M					.22	NO		14	
			P199-18					.10	NO		13	
A 139	1		P4-S					.22	NO		14	
			P199-19					.10	NO		13	
A 140	1		P4-T					.22	NO		14	
			P11-23					.10	NO		12	
A 141	1		P4-U					.22	NO		14	
			E2					.37	NO			
A 142	1		P4-W					.22	NO		14	
			P199-20					.10	NO		13	
A 143	1		P4-X					.22	NO		14	
			P11-24					.10	NO		12	
A 144	1		P4-A*					.22	NO		14	
			P199-21					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 17 OF 33

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		P1-13 P2-C1					.15 .19	NO NO		7 4	
A	14	1		P1-14 P2-C2					.15 .19	NO NO		7 4	
A	15	1		P1-15 P2-C3					.15 .19	NO NO		7 4	
A	16	1		P1-16 P2-C4					.15 .19	NO NO		7 4	
A	17	1		P1-17 P2-C5					.15 .19	NO NO		7 4	
A	18	1		P1-18 P2-C6					.15 .19	NO NO		7 4	
A	19	1		P1-19 P2-C7					.15 .19	NO NO		7 4	
A	20	1		P1-20 P2-C8					.15 .19	NO NO		7 4	
A	21	1		P1-21 P2-D1					.15 .19	NO NO		7 4	
A	22	1		P1-22 P2-D2					.15 .19	NO NO		7 4	
A	23	1		P1-23 P2-D3					.15 .19	NO NO		7 4	
A	24	1		P1-24 P2-D4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR B	SHEET 6 OF 13

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		P1-25 P2-D5					.15 .19	NO NO		7 4	
A	26	1		P1-26 P2-D6					.15 .19	NO NO		7 4	
A	27	1		P1-27 P2-D7					.15 .19	NO NO		7 4	
A	28	1		P1-28 P2-D8					.15 .19	NO NO		7 4	
A	29	1		P1-29 P2-E1					.15 .19	NO NO		7 4	
A	30	1		P1-30 P2-E2					.15 .19	NO NO		7 4	
A	31	1		P1-31 P2-E3					.15 .19	NO NO		7 4	
A	32	1		P1-32 P2-E4					.15 .19	NO NO		7 4	
A	33	1		P1-33 P2-E5					.15 .19	NO NO		7 4	
A	34	1		P1-34 P2-E6					.15 .19	NO NO		7 4	
A	35	1		P1-35 P2-E7					.15 .19	NO NO		7 4	
A	36	1		P1-36 P2-E8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR B	SHEET 7 OF 13

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1		P1-37 P2-F1					.15 .19	NO NO		7 4	
A	38	1		P1-38 P2-F2					.15 .19	NO NO		7 4	
A	39	1		P1-39 P2-F3					.15 .19	NO NO		7 4	
A	40	1		P1-40 P2-F4					.15 .19	NO NO		7 4	
A	41	1		P1-41 P2-F5					.15 .19	NO NO		7 4	
A	42	1		P1-42 P2-F6					.15 .19	NO NO		7 4	
A	43	1		P1-43 P2-F7					.15 .19	NO NO		7 4	
A	44	1		P1-44 P2-F8					.15 .19	NO NO		7 4	
A	45	1		P1-45 P2-G1					.15 .19	NO NO		7 4	
A	46	1		P1-46 P2-G2					.15 .19	NO NO		7 4	
A	47	1		P1-47 P2-G3					.15 .19	NO NO		7 4	
A	48	1		P1-48 P2-G4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR B	SHEET 8 OF 13

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	49	1		P1-49 P2-G5					.15 .19	NO NO		7 4	
A	50	1		P1-50 P2-G6					.15 .19	NO NO		7 4	
A	51	1		P1-51 P2-G7					.15 .19	NO NO		7 4	
A	52	1		P1-52 P2-G8					.15 .19	NO NO		7 4	
A	53	1		P1-53 P2-H1					.15 .19	NO NO		7 4	
A	54	1		P1-54 P2-H2					.15 .19	NO NO		7 4	
A	55	1		P1-55 P2-H3					.15 .19	NO NO		7 4	
A	56	1		P1-56 P2-H4					.15 .19	NO NO		7 4	
A	57	1		P1-57 P2-H5					.15 .19	NO NO		7 4	
A	58	1		P1-58 P2-H6					.15 .19	NO NO		7 4	
A	59	1		P1-59 P2-H7					.15 .19	NO NO		7 4	
A	60	1		P1-60 P2-H8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR B	SHEET 9 OF 13

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE.
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 21.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 21.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
10	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8 THRU 13.
13	SOLDER PER ND1002071 USING ITEM 29 OR ITEMS 27 AND 28.
14	MARK IDENTIFICATION BANDS WITH DESIGNATIONS AS NOTED, .12 INCH HIGH, COLOR BLACK PER ND1002019. CENTRALIZE.

SIZE	CODE IDENT NO.		
A	99974	2901396	
SCALE-NONE	REV LTR ~~A~~ C	SHEET 2 OF 28	

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 22 TO SECURE THE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP
16	SERIALIZE PER ND1002023.
17	ASSEMBLE PER ND1002032.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901396	
SCALE-NONE	REV LTR ~~B~~ C	SHEET 3 OF 28	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901396-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, TOTAL LENGTH
	2	1	2901396-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614)CONNECTOR-PLUG, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611)CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610)CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613)CONNECTOR-PLUG, ELECTRICAL
	7	2	MS3126F24-61PX	(1897047-612)CONNECTOR-PLUG, ELECTRICAL
7	8	1	1897249-006	CONNECTOR-PLUG, ELECTRICAL
7	9	1	1897249-007	CONNECTOR-PLUG, ELECTRICAL
7	10	1	1897249-009	CONNECTOR-PLUG, ELECTRICAL
7	11	1	1897250-002	CONNECTOR-PLUG, ELECTRICAL
7	12	1	1897250-003	CONNECTOR-PLUG, ELECTRICAL
	13	1	MS3106R14S-7P	(1896918-007) CONNECTOR-PLUG, ELECTRICAL
7	14	1	1010933-103	CLAMP, CABLE, ELECTRICAL
7	15	2	1010933-104	CLAMP, CABLE, ELECTRICAL
7	16	2	1010933-105	CLAMP, CABLE, ELECTRICAL
15	17	~~AR~~ X	MS3192A20A	(1896855-020) CONTACT-ELECTRICAL, PIN, CRIMP (FURNISHED WITH ITEMS 3 THRU 7).

SIZE	CODE IDENT NO.		
A	99974	2901396	
SCALE-NONE	REV LTR ~~A~~ C	SHEET 4 OF 28	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	~~AR~~ X	1897190- 1	CONTACT, ELECTRICAL (PIN CONTACT) (FURNISHED WITH ITEMS 11 AND 12).
7	19	~~103~~ X	1897190- 2	CONTACT, ELECTRICAL (SOCKET CONTACT) (FURNISHED WITH ITEMS 8 THRU 10).
7	20	15	1016128-011	BAND-IDENTIFICATION, BLANK
	21	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK ~~(ES2732)~~
	22	AR	MIL-I-631	FILLER TAPE, ~~TYPE I,~~ TYPE F, FORM T (BLACK) GRADE A, CLASS 1, .62 INCH WIDE, .020 INCH THICK
7	23	7	1016006-001	SPLICE-REDUCER
7	24	2	1016006-002	SPLICE-REDUCER
7	25	7	1010490-228	INSULATION-SLEEVING, ELECTRICAL
7	26	2	1010490-256	INSULATION-SLEEVING, ELECTRICAL
	27	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

SIZE	CODE IDENT NO.		
A	99974	2901396	
SCALE-NONE	REV LTR ~~A~~ C	SHEET 5 OF 28	

CABLE ASSEMBLY 2901396 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 101	2		P5-B P4-U*					.22 .22	NO NO		17	
A 102	1		P5-C E6-BB					.22 .38	NO NO		17	
A 103	1		P5-D E7-BB					.22 .38	NO NO		17	
A 104	1		P5-E P2-N					.22 .22	NO NO		 17	
A 105	1		P5-F P2-P					.22 .22	NO NO		17 17	
A 106	1		P5-G P15-59					.22 .15	NO NO		17 19	
A 107	1		P5-H P15-60					.22 .15	NO NO		17 19	
A 108	1		P5-J P2-R					.22 .22	NO NO		17 17	
A 109	1		P5-K P2-S					.22 .22	NO NO		17 17	
A 110	1		P5-L P15-58					.22 .15	NO NO		17 19	
A 111	1		P5-M P15-34					.22 .15	NO NO		 19	
A 112	2		P5-N P5-E					.22 .22	NO NO		17 17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~B~~ C	SHEET 14 OF 28

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CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P5-P P5-F					.22 .22	NO NO		17 17	
A 114	1		P5-R P15-17					.22 .15	NO NO		17 19	
A 115	1		P5-S E5-B					.22 .38	NO NO		17	
A 116	1		P6-A P12-66					.22 .15	NO NO		17 18	
A 117	1		P6-B P12-42					.22 .15	NO NO		17 18	
A 118	1		P6-C P16-14					.22 .15	NO NO		17 19	
A 119	1		P6-D E3-B					.22 .38	NO NO		17	
A 120	1		P6-E P12-43					.22 .15	NO NO		17 18	
A 121	1		P6-F P12-23					.22 .15	NO NO		17 18	
A 122	1		P6-G P16-3					.22 .15	NO NO		17 19	
A 123	1		P6-J P12-68					.22 .15	NO NO		17 19	
A 124	1		P6-K P12-67					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 15 OF 28

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CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG.	ACCESSORY ITEMS	REMARKS
A 125	1		P6-L P16-5					.22 .15	NO NO		17 19	
A 126	1		P6-N P12-69					.22 .15	NO NO		17 18	
A 127	1		P6-P P12-45					.22 .15	NO NO		17 18	
A 128	1		P6-R P16-1					.22 .15	NO NO		17 19	
A 129	1		P6-S E3-B					.22 .38	NO NO		17	
A 130	1		P6-T P12-25					.22 .15	NO NO		17 18	
A 131	1		P6-U P12-11					.22 .15	NO NO		17 18	
A 132	1		P6-V P16-15					.22 .15	NO NO		17 19	
A 133	1		P6-X P12-70					.22 .15	NO NO		17 18	
A 134	1		P6-Y P12-46					.22 .15	NO NO		17 18	
A 135	1		P6-Z P16-4					.22 .15	NO NO		17 19	
A 136	1		P6-B* P12-47					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 16 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137	1		P6-C* P12-27					.22 .15	NO NO		17 18	
A 138	1		P6-D* P16-13					.22 .15	NO NO		17 19	
A 139	1		P6-F* P12-71					.22 .15	NO NO		17 18	
A 140	1		P6-G* P12-72					.22 .15	NO NO		17 18	
A 141	1		P6-H* P16-12					.22 .15	NO NO		17 19	
A 142	1		P6-J* P12-81					.22 .15	NO NO		17 18	
A 143	1		P6-K* P12-80					.22 .15	NO NO		17 18	
A 144	1		P6-M* P15-18					.22 .15	NO NO		17 19	
A 145	1		P6-N* E5-B					.22 .38	NO NO		17	
A 146	1		P6-P* P11-26					.22 .15	NO NO		17 18	
A 147	1		P6-Q* P11-46					.22 .15	NO NO		17 18	
A 148	1		P6-R* P15-33					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 17 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 197	1		P7-CC					.22	NO		17	
			P12-50					.15	NO		18	
A 198	1		P7-DD					.22	NO		17	
			P15-36					.15	NO		19	
A 199	1		P7-EE					.22	NO		17	
			E5-B					.38	NO			
A 200	1		P8-X					.22	NO		17	
			P11-61					.15	NO		18	
A 201	1		P8-Y					.22	NO		17	
			P11-37					.15	NO		18	
A 202	1		P8-Z					.22	NO		17	
			P16-31					.15	NO		19	
A 203	1		P8-A*					.22	NO			
			P16-53					.15	NO		19	
A 204	1		P8-B*					.22	NO		17	
			P11-64					.15	NO		18	
A 205	1		P8-C*					.22	NO		17	
			P11-39					.15	NO		18	
A 206	1		P8-D*					.22	NO		17	
			P16-52					.15	NO		19	
A 207	2		P8-E*					.22	NO		17	
			P8-A*					.22	NO		17	
A 208	1		P8-F*					.22	NO		17	
			P11-79					.15	NO		18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 22 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 209	1		P8-G*					.22	NO		17	
			P11-55					.15	NO		18	
A 210	1		P8-H*					.22	NO		17	
			P16-16					.15	NO		19	
A 211	1		P8-I*					.22	NO		17	
			P16-33					.15	NO		19	
A 212	1		P8-J*					.22	NO		17	
			P11-67					.15	NO		18	
A 213	1		P8-K*					.22	NO		17	
			P11-66					.15	NO		18	
A 214	1		P8-M*					.22	NO		17	
			P16-35					.15	NO		19	
A 215	1		P8-N*					.22	NO		17	
			E9-B					.38	NO			
A 216	1		P8-P*					.22	NO		17	
			P11-43					.15	NO		18	
A 217	1		P8-Q*					.22	NO		17	
			P11-42					.15	NO		18	
A 218	1		P8-R*					.22	NO		17	
			P16-17					.15	NO		19	
A 219	1		P8-S*					.22	NO		17	
			E9-B					.38	NO			
A 220	1		P8-T*					.22	NO		17	
			P11-24					.15	NO		18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 23 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221	1		P8-U*					.22	NO		17	
			P11-23					.15	NO		18	
A 222	1		P8-V*					.22	NO		17	
			P16-34					.15	NO		19	
A 223	1		P8-W*					.22	NO		17	
			E9-B					.38	NO			
A 224	1		P8-X*					.22	NO		17	
			P16-39					.15	NO		19	
A 225	2		P8-Y*					.22	NO		17	
			P2-N*					.22	NO		17	
A 226	1		P9-A					.22	NO		17	
			P12-36					.15	NO		18	
A 227	1		P9-B					.22	NO		17	
			P12-19					.15	NO		18	
A 228	1		P9-C					.22	NO		17	
			P16-41					.15	NO		19	
A 229	1		P9-E					.22	NO		17	
			P12-82					.15	NO		18	
A 230	1		P9-F					.22	NO		17	
			P12-58					.15	NO		18	
A 231	1		P9-G					.22	NO		17	
			P16-26					.15	NO		19	
A 232	1		P9-H					.22	NO		17	
			E2-B					.38	NO			

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 24 OF 28

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CABLE ASSEMBLY 2901396 E M

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 233	1		P9-T					.22	NO		17		A
			P12-35					.15	NO		18		
A 234	1		P9-U					.22	NO		17		A
			P12-18					.15	NO		18		
A 235	1		P9-V					.22	NO		17		A
			P15-6					.15	NO		19		
A 236	1		P2-W*					.22	NO		17		A
			P15-16					.15	NO		19		
A 237	1		P9-X					.22	NO		17		A
			P12-85					.15	NO		18		
A 238	1		P9-Y					.22	NO		17		A
			P12-61					.15	NO		18		
A 239	1		P9-Z					.22	NO		17		A
			P16-22					.15	NO		19		
A 240	1		P9-B*					.22	NO		17		A
			P12-84					.15	NO		18		
A 241	1		P9-C*					.22	NO		17		A
			P12-60					.15	NO		18		
A 242	1		P9-D*					.22	NO		17		A
			P16-9					.15	NO		19		
A 243	1		P9-J*					.22	NO		17		A
			P12-38					.15	NO		18		
A 244	1		P9-K*					.22	NO		17		A
			P12-39					.15	NO		18		

SIZE	CODE IDENT NO.		
A	99974	2901396	0
SCALE-NONE	REV LTR E	SHEET 25 OF 28	

MIL 2084 9-65

NOTE NUMBER GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.

4 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

5 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

6 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

7 APPLY LEAD IDENTIFICATIONS PER ND1002019.

8 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

9 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 10.

10 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

11 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

12 ASSEMBLE PER ND1002032.

13 LACE HARNESS USING ITEM 15.

14 SERIALIZE PER ND1002023.

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR DB *
SHEET 2 OF 25

NOTE NUMBER GENERAL NOTES DESCRIPTION

15 ITEM 11 SUPPLIED WITH ITEMS 8 AND 9, ITEM 12 SUPPLIED WITH ITEM 10 AND ITEM 13 SUPPLIED WITH ITEMS 3 THRU 7.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.

17 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR DB *
SHEET 3 OF ~~24~~
25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901412-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT
	2	1	2901412-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG, WHT
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
6	8	1	1897249-002	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	9	1	1897249-008	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	10	1	1897250-001	CONNECTOR, PLUG, ELEC-(CRIMP TYPE PIN CONTACTS)
6	11	X	1897190- 2	CONTACT SOCKET
6	12	X	1897190- 1	CONTACT PIN
	13	X	MS3192A20A	(1896855-020) CONTACT, ELEC, PIN CRIMP
6	14	8	1016128-041	BAND-IDENTIFICATION, BLANK

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR DB *
SHEET 4 OF ~~[illegible]~~
25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
6	15	AR	MIL-T-713B ~~1012507-604~~	LACING TAPE, TYPE P, CLASS 2, BLACK ~~TAPE LACING AND TYING~~
	16	AR	MIL-I-631	TYPE F FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
6	17	2	1010933-105	CLAMP, CABLE ELEC CONNECTOR
6	18	1	1010933-104	CLAMP, CABLE ELEC CONNECTOR
6	19	~~[illegible]~~ 16	1016006-001	SPLICE-REDUCER
6	20	~~[illegible]~~ 16	1010490-228	INSULATION-SLEEVING, ELEC (HEAT SHRINKABLE)

SIZE A
CODE IDENT NO. 99974
2901412
25
SCALE-NONE
REV LTR DB *
SHEET 5 OF ~~24~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	2		P3-DD P7-MM					.22 .22	NO NO		13 13	
A 98	2		P3-EE P7-NN					.22 .22	NO NO		13 13	
A 99	1		P6-A P13-13					.22 .15	NO NO		13 12	
A 100	1		P6-B E1					.22 .37	NO NO		13	
A 101	1		P6-C ~~P1-[illegible]~~ P1-80					.22 .15	NO NO		13 11	
A 102	1		P6-D ~~P1-[illegible]~~ P1-81					.22 .15	NO NO		13 11	
A 103	1		P6-E P13-65					.22 .15	NO NO		13 12	
A 104	1		P6-F E2					.22 .37	NO NO		13	
A 105	1		P6-J P13-3					.22 .15	NO NO		13 12	
A 106	1		P6-K E1					.22 .37	NO NO		13	
A 107	1		P6-L ~~[illegible]~~ P1-85					.22 .15	NO NO		13 11	
A 108	1		P6-M ~~[illegible]~~ P1-61					.22 .15	NO NO		13 11	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR D C	SHEET 14 OF 25	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A). TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-N P13-66					.22 .15	NO NO		13 12	
A 110	1		P6-P E2					.22 .37	NO NO		13	
A 111	1		P6-T P13-18					.22 .15	NO NO		13 12	
A 112	1		P6-U E6					.22 .37	NO NO		13	
A 113	1		P6-X P13-19					.22 .15	NO NO		13 12	
A 114	1		P6-Y E6					.22 .37	NO NO		13	
A 115	1		P6-B* P13-28					.22 .15	NO NO		13 12	
A 116	1		P6-C* E9					.22 .37	NO NO		13	
A 117	1		P6-P* P13-42					.22 .15	NO NO		13 12	
A 118	1		P6-Q* E2					.22 .37	NO NO		13	
A 119	1		P6-R* P1-~~[illegible]~~ 59					.22 .15	NO NO		13 11	
A 120	1		P6-S* P1-~~[illegible]~~ 35					.22 .15	NO NO		13 11	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR D C	SHEET 15 OF 25	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-T* P13-14					.22 .15	NO NO		13 12	
A 122	1		P6-U* E3					.22 .37	NO NO		13	
A 123	1		P7-A P13-9					.22 .15	NO NO		13 12	
A 124	2		P7-B P7-F					.22 .22	NO NO		13 13	
A 125	1		P7-C P1-28					.22 .15	NO NO		13 11	
A 126	1		P7-D P1-48					.22 .15	NO NO		13 11	
A 127	1		P7-E P13-22					.22 .15	NO NO		13 12	
A 128	1		P7-F E5					.22 .37	NO NO		~~[illegible]~~	
A 129	2		P7-G P7-C					.22 .22	NO NO		13	
A 130	2		P7-H P7-D					.22 .22	NO NO		13	
A 131	1		P7-J P13-44					.22 .15	NO NO		13 12	
A 132	2		P7-K P7-P					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR D C	SHEET 16 OF 25	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-L P12-57					.22 .15	NO NO		~~12~~ 13 11	
A 134	1		P7-M P12-58					.22 .15	NO NO		13 11	
A 135	1		P7-N P13-69					.22 .15	NO NO		13 12	
A 136	1		P7-P P13-68					.22 .15	NO NO		~~[illegible]~~ 12	
A 137	1		P7-R P12-59					.22 .15	NO NO		13 11	
A 138	1		P7-S P12-36					.22 .15	NO NO		13 11	
A 139	1		P7-T P13-49					.22 .15	NO NO		13 12	
A 140	1		P7-U E9					.22 .37	NO NO		13	
A 141	1		P7-V P12-39					.22 .15	NO NO		13 11	
A 142	1		P7-W P12-38					.22 .15	NO NO		13 11	
A 143	1		P7-X P13-57					.22 .15	NO NO		13 12	
A 144	2		P7-Y P7-C*					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR D C	SHEET 17 OF 25	

CABLE ASSEMBLY BLK II 2901412 D C ~~F~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-X P13-59					.22 .15	NO NO		13 12	
A 194	2		P8-Y P13-58					.22 .15	NO NO		~~13~~ 12	
A 195	1		P8-Z P1-74					.22 .15	NO NO		13 11	
A 196	1		P8-A* E13					.22 .37	NO NO		13	
A 197	1		P8-B* P13-60					.22 .15	NO NO		13 12	
A 198	1		P8-C* E8					.22 .37	NO NO		13	
A 199	1		P8-F* P13-36					.22 .15	NO NO		13 12	
A 200	1		P8-G* E8					.22 .37	NO NO		13	
A 201	1		P8-J* P13-38					.22 .15	NO NO		13 12	
A 202	1		P8-K* E8					.22 .37	NO NO		13	
A 203	1		P8-P* P13-61					.22 .15	NO NO		13 12	
A 204	1		P8-Q* E8					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D C ~~B~~	SHEET 22 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~B~~ ★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	~~1~~ 2		P8-T* ~~P12-3~~ P8-B*					.22 .22 ~~.15~~	NO NO		13 ~~11~~	
A 206	1		P8-U* ~~P12-16~~ E8					.22 .37 ~~.15~~	NO NO		13 ~~11~~	
A 207	1		E14 P1-12					.37 .15	NO NO		 11	
A 208	1		E15 P1-40					.37 .15	NO NO		 11	
A 209	2		P6-X* P2-N					.22 .22	NO NO		13	
A 210	2		P6-Y* P2-P					.22 .22	NO NO		13	
A 211	2		P6-BB P2-V					.22 .22	NO NO		13	
A 212	2		P6-CC P2-W					.22 .22	NO NO		13	
A 213	2		P6-FF P2-R					.22 .22	NO NO		13	
A 214	2		P6-GG P2-S					.22 .22	NO NO		13	
A 215	2		P1-45 E16					.15 .37	NO NO		11	
A 216	2		P1-10 E16					.15 .37	NO NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D ★ ~~B~~	SHEET 23 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	2		P1-9 E16					.15 .37	NO NO		11	
A 218	2		E16 P2-U*					.37 .22	NO NO			
A 219	2		P1-14 P7-JJ					.15 .22	NO NO		11	
A 220	1		~~P8-M*~~ P8-N* P1-67					.22 .15	NO NO		13 11	
~~A 221~~	~~1~~ DELETED		~~P8-N*~~ ~~E13~~					~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
A 222	1		P8-V* P12-3					.22 .15	NO NO		13 11	
A 223	1		P8-W* P12-10					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901412
SCALE-NONE	REV LTR D ~~C~~ ~~B~~	SHEET 24 of 25

M 2084 9-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	APPLY LEAD IDENTIFICATIONS PER ND1002019.
8	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
9	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8,9 AND 10.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
12	ASSEMBLE PER ND1002032.
13	LACE HARNESS USING ITEM 15.
14	SERIALIZE PER ND1002023.

SIZE A	CODE IDENT NO. 99974	2901412
SCALE-NONE	REV LTR F	SHEET 2 OF 26

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 11 SUPPLIED WITH ITEMS 8 AND 9. ITEM 12 SUPPLIED WITH ITEM 10 AND ITEM 13 SUPPLIED WITH ITEMS 3 THRU 7.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901412
SCALE-NONE	REV LTR F	SHEET 3 OF 26

LIST OF MATERIALS

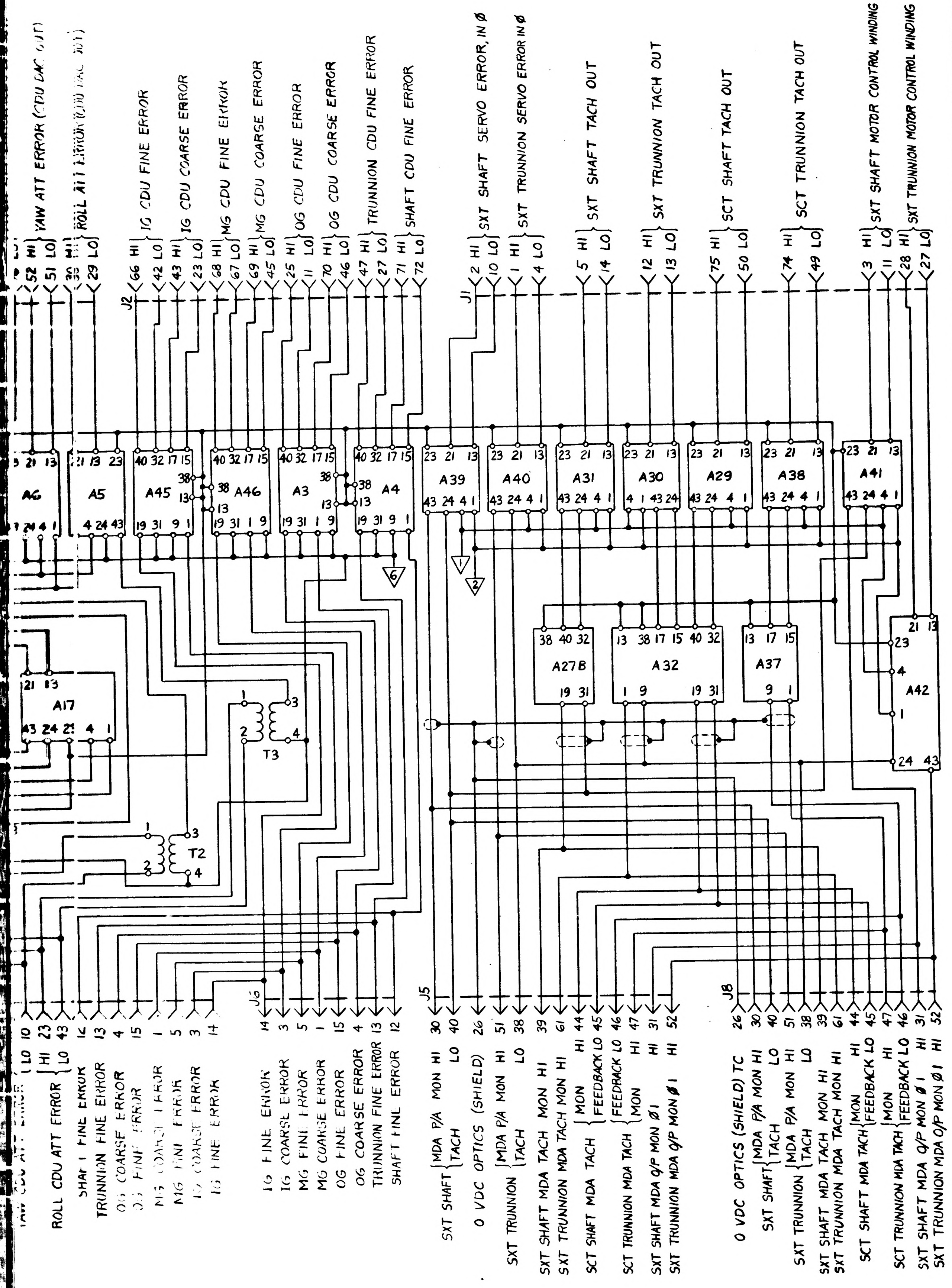
SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901412-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT
	2	1	2901412-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG, WHT
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
6	8	1	1897249-002	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	9	1	1897249-008	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	10	1	1897250-001	CONNECTOR, PLUG, ELEC-(CRIMP TYPE PIN CONTACTS)
6	11	X	1897190- 2	CONTACT SOCKET
6	12	X	1897190- 1	CONTACT PIN
	13	X	MS3192A20A	(1896855-020) CONTACT, ELEC, PIN CRIMP
6	14	8	1016128-011	BAND-IDENTIFICATION, BLANK

SIZE A	CODE IDENT NO. 99974	2901412
SCALE-NONE	REV LTR F	SHEET 4 OF 26

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
6	15	AR	MIL-T-713B	LACING TAPE, TYPE +, CLASS 2, BLACK
	16	AR	MIL-I-631	TYPE F FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
6	17	2	1010933-105	CLAMP, CABLE ELEC CONNECTOR
6	18	1	1010933-104	CLAMP, CABLE ELEC CONNECTOR
6	19	14	1016006-001	SPLICE-REDUCER
6	20	14	1010490-228	INSULATION-SLEEVING, ELEC (HEAT SHRINKABLE)

SIZE A	CODE IDENT NO. 99974	2901412
SCALE-NONE	REV LTR F	SHEET 5 OF 26


YAW ATT ERROR (CDU DAC OUT)
52 HI
51 LO
ROLL ATT ERROR (CDU DAC OUT)
30 HI
29 LO
J2
IG CDU FINE ERROR 66 HI 42 LO
IG CDU COARSE ERROR 43 HI 23 LO
MG CDU FINE ERROR 68 HI 67 LO
MG CDU COARSE ERROR 69 HI 45 LO
OG CDU FINE ERROR 25 HI 11 LO
OG CDU COARSE ERROR 70 HI 46 LO
TRUNNION CDU FINE ERROR 47 HI 27 LO
SHAFT CDU FINE ERROR 71 HI 72 LO
J1
SXT SHAFT SERVO ERROR, IN Ø 2 HI 10 LO
SXT TRUNNION SERVO ERROR IN Ø 1 HI 4 LO
SXT SHAFT TACH OUT 5 HI 14 LO
SXT TRUNNION TACH OUT 12 HI 13 LO
SCT SHAFT TACH OUT 75 HI 50 LO
SCT TRUNNION TACH OUT 74 HI 49 LO
SXT SHAFT MOTOR CONTROL WINDING 3 HI 11 LO
SXT TRUNNION MOTOR CONTROL WINDING 28 HI 27 LO
A6
A5
A45
A46
A3
A4
A39
A40
A31
A30
A29
A38
A41
A17
T3
T2
A27B
A32
A37
A42
YAW CDU ATT ERROR
ROLL CDU ATT ERROR LO 10 HI 23 LO 43
SHAFT FINE ERROR 12
TRUNNION FINE ERROR 13
OG COARSE ERROR 4
OG FINE ERROR 15
MG COARSE ERROR 1
MG FINE ERROR 5
IG COARSE ERROR 3
IG FINE ERROR 14
J6
IG FINE ERROR 14
IG COARSE ERROR 3
MG FINE ERROR 5
MG COARSE ERROR 1
OG FINE ERROR 15
OG COARSE ERROR 4
TRUNNION FINE ERROR 13
SHAFT FINE ERROR 12
J5
SXT SHAFT MDA P/A MON HI 30
SXT SHAFT TACH LO 40
0 VDC OPTICS (SHIELD) 26
SXT TRUNNION MDA P/A MON HI 51
SXT TRUNNION TACH LO 38
SXT SHAFT MDA TACH MON HI 39
SXT TRUNNION MDA TACH MON HI 61
SCT SHAFT MDA TACH MON HI 44
SCT SHAFT MDA TACH FEEDBACK LO 45
SCT TRUNNION MDA TACH FEEDBACK LO 46
SCT TRUNNION MDA TACH MON HI 47
SXT SHAFT MDA O/P MON Ø1 HI 31
SXT TRUNNION MDA O/P MON Ø1 HI 52
J8
0 VDC OPTICS (SHIELD) TC 26
SXT SHAFT MDA P/A MON HI 30
SXT SHAFT TACH LO 40
SXT TRUNNION MDA P/A MON HI 51
SXT TRUNNION TACH LO 38
SXT SHAFT MDA TACH MON HI 39
SXT TRUNNION MDA TACH MON HI 61
SCT SHAFT MDA TACH MON HI 44
SCT SHAFT MDA TACH FEEDBACK LO 45
SCT TRUNNION MDA TACH MON HI 47
SCT TRUNNION MDA TACH FEEDBACK LO 46
SXT SHAFT MDA O/P MON Ø1 HI 31
SXT TRUNNION MDA O/P MON Ø1 HI 52

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E16	CR1	1N645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
E17	CR2	1N645 (1896966-004)		
E17	CR3	1N645 (1896966-004)		
E18	CR4	1N645 (1896966-004)		
E19	CR5	1N645 (1896966-004)		
E19	CR6	1N645 (1896966-004)		
D21	CR7	1N645 (1896966-004)		
D21	CR8	1N645 (1896966-004)		
D22	CR9	1N645 (1896966-004)		
D23	CR10	1N645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
C20	E1			
D22	F1	F02B250V1/2A (1897099-025)	FUSE-CARTRIDGE MIL-F-15160/02	.5 AMP
	J1	1897247-002	CONNECTOR	
	J2	1897247-003		
	J3	1897252-109		
	J4	MS3102R14S-7S(C) (1896916-107)		
	J5	1897252-107		
	J6	1897252-106		
	J7	1897247-006		
	J8	1897247-007	CONNECTOR	
E16	K1	1015832-118	RELAY	
E17	K2			
E17	K3			
E18	K4			
E19	K5			
E19	K6			
D21	K7			
D22	K8			
D22	K9			
D23	K10	1015832-118	RELAY	
F20	R1	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
F19	R2	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C10	R3	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C22	S1	1016265-004	SWITCH - TOGGLE	
C21	S2	1897379-001	- ROTARY	
D19	S3	1016265-004	- TOGGLE	
D17	S4	-006		
D17	S5	-006		
C18	S6	1016265-006	SWITCH - TOGGLE	
C 9	T1	1897413	TRANSFORMER	
C 9	T2	1897413	TRANSFORMER	
D 8	T3	1897413	TRANSFORMER	
	XF1	MS26572-1	FUSEHOLDER	

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E20	A2	2901063-011	PHASE DIFF CKT	2900988
E8	A3	1902433-011	AC AMPLIFIER	1902451
E8	A4	1902433-011	AC AMPLIFIER	1902451
E9	A5	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E9	A6			
E9	A7			
F12	A8			
E11	A9	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A10		NOT USED	
E13	A11	2901203-011	CONVERTER, WAVE FORM	2901213
	A12		NOT USED	
	A13		NOT USED	
	A14		NOT USED	
D10	A15	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A16	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A17	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
	A18		NOT USED	
C11	A19	2901203-011	CONVERTER, WAVE FORM	2901213
D13	A20	1902433-011	AC AMPLIFIER	1902451
D13	A21			
▷1	A22			
D11	A23	1902433-011	AC AMPLIFIER	1902451
E10	A24	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A25	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A26	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
▷1	A27	1902433-011	AC AMPLIFIER	1902451
	A28		NOT USED	
E7	A29	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A30	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A31	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
D7	A32	1902433-011	AC AMPLIFIER	1902451
D12	A33	2901203-011	CONVERTER, WAVE FORM	2901213
	A34		NOT USED	
	A35		NOT USED	
	A36		NOT USED	
D6	A37	1902433-011	AC AMPLIFIER	1902451
E6	A38	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E8	A39			
E7	A40			
E6	A41			
D6	A42	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A43		NOT USED	
D11	A44	2901147-011	PHASE SHIFTER, 90°	2900989
E9	A45	1902433-011	AC AMPLIFIER	1902451
E8	A46	1902433-011	AC AMPLIFIER	1902451
D16	A47	2901154-011	GLITCH DETECTOR	2901155
C16	A48			
E15	A49			
E15	A50			
E15	A51			
E14	A52			
E14	A53			
E14	A54	2901154-011	GLITCH DETECTOR	2901155
	A55		NOT USED	
	A56			
	A57			
	A58		NOT USED	
▷1	A59	2901168-011	ATTENUATOR	2901215
F20	A60	1902434-011	LINE DRIVE AMPLIFIER	1902448

REVISIONS

ZONE	LTR	DESCRIPTION	CHG NO	DATE	APPROVE
	A	REVISED PER MXC 21816		27 APR 66	3 RWH
	B	INITIAL RELEASE CLASS A PER TDRR 2264		[illegible] 66	[illegible]
	C	REVISED PER TDRR 29636		23 [illegible] 66	[illegible]

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN W. Munson DATE 11 APR 66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PSA ADAPTER MODULE
(BLOCK II)

SIZE J3 CODE IDENT NO. 99974 2901419
SCALE — SHEET 1 OF 1

2901419

3/2901419

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

2901143-011	ASSEMBLY DRAWING
2901144	WIRING HARNESS A
2901458	LEAD SET A-A

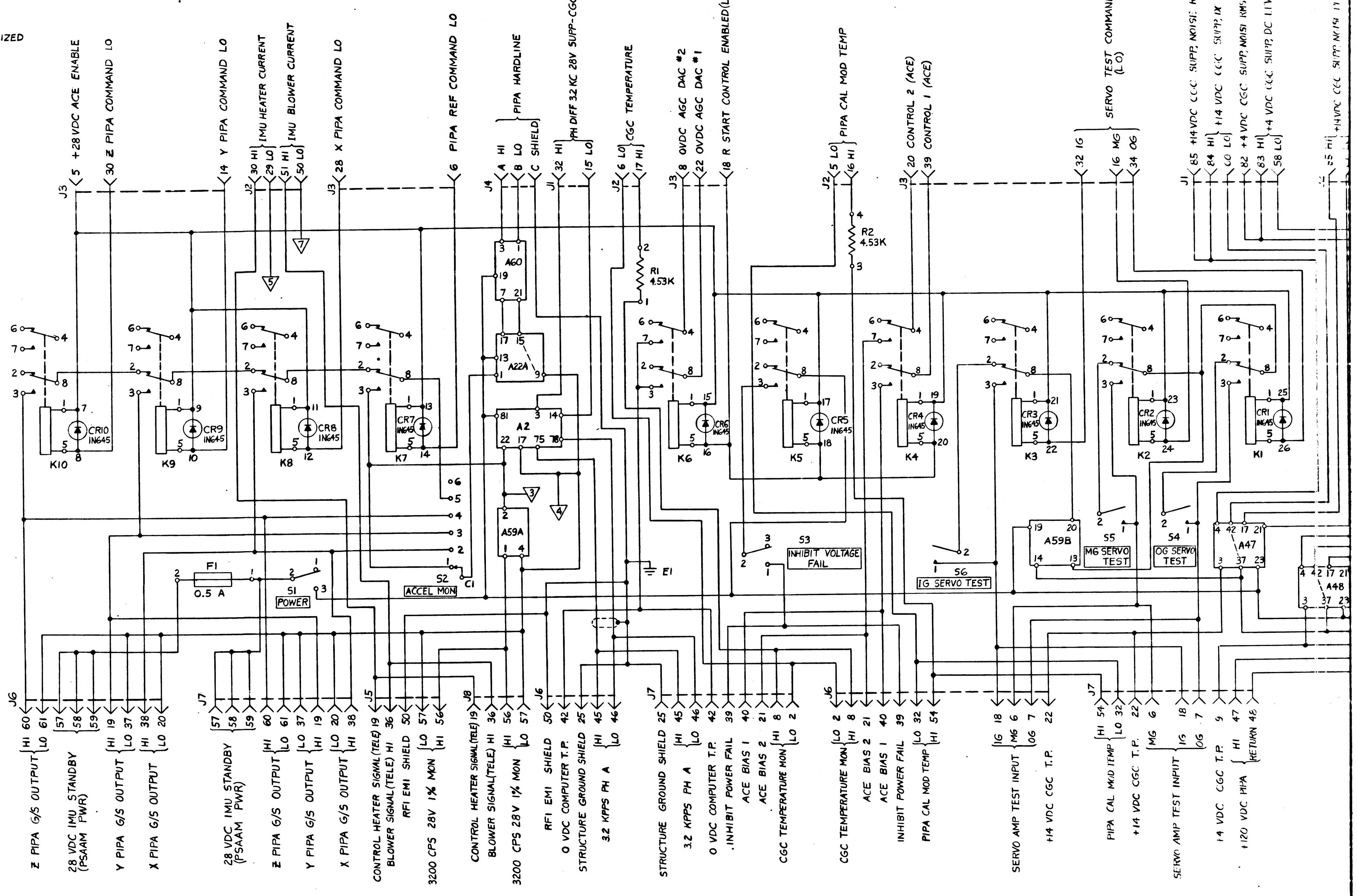
4. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. LAST NUMBER USED ▽ = 7
6. SIGNAL DESCRIPTIONS:
   - ▽ PSD REF HI
   - 2 PSD REF LO
   - 3 3200 CPS BUFFERED HI
   - 4 3200 CPS 28V 1% MON LO
   - 5 IMU OPERATE OVDC
   - 6 CDU TEST POINT COMMON
   - 7 IMU BLOWER CURRENT LO

UNUSED TERMINALS

REF DES	TERMINAL NO.
K1	4,6,7
K2	4,6,7
K3	4,6,7
K4	2,6
K5	2,4,6,7
K6	2,6
K7	4,6,7
K8	4,6,7
K9	4,6,7
K10	4,6,7
S1	1
S2	6
S3	3
J1	47,48,69,72,73,80,81
J2	1-4, 7-10,12,13,21,22,24, 26,28,33,34,40,41,44,48 49,54,56,57,62-65, 73-77,79
J3	1-4,7,9-13,15,17,19,21,23-27, 29,31,33,35-38,40 44
J5	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,53
J6	28,29,30,49,51
J7	28,29,30,49,50,51
J8	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,50,53

1 SEPARATED SYMBOL LOCATIONS

REF DES	ZONE
A22A,B	E20, E13
A27A,B	D10, D7
A59A,B,C	D20, D17, D13


J3
5 +28 VDC ACE ENABLE
30 Z PIPA COMMAND LO
14 Y PIPA COMMAND LO
J2
30 HI 29 LO IMU HEATER CURRENT
51 HI 50 LO IMU BLOWER CURRENT
J3
28 X PIPA COMMAND LO
6 PIPA REF COMMAND LO
J4
A HI B LO C SHIELD PIPA HARDLINE
J1
32 HI 15 LO PH DIFF 32 KC 28V SUPP-CGC
J2
6 LO 17 HI CGC TEMPERATURE
J3
8 OVDC AGC DAC #2
22 OVDC AGC DAC #1
18 R START CONTROL ENABLED (LO)
J2
5 LO 16 HI PIPA CAL MOD TEMP
J3
20 CONTROL 2 (ACE)
39 CONTROL 1 (ACE)
32 IG 16 MG 34 OG SERVO TEST COMMAND (LO)
J1
85 +14 VDC CGC SUPP. NOISE RMS
84 HI 60 LO +14 VDC CGC SUPP. IX 11 VI
82 +4 VDC CGC SUPP. NOISE RMS (11)
83 HI 58 LO +4 VDC CGC SUPP. DC 11 VI
R2 4.53K
R1 4.53K
A60
A22A
A2
A59A
K10 K9 K8 K7 K6 K5 K4 K3 K2 K1
CR10 CR9 CR8 CR7 CR6 CR5 CR4 CR3 CR2 CR1
IN645
F1 0.5 A
S1 POWER
S2 ACCEL MON
E1
S3 INHIBIT VOLTAGE FAIL
S6 IG SERVO TEST
A59B
S5 MG SERVO TEST
S4 OG SERVO TEST
A47
A48
J6
60 HI 61 LO Z PIPA G/S OUTPUT
57 28 VDC IMU STANDBY (PSAAM PWR)
58
59
19 HI 37 LO Y PIPA G/S OUTPUT
38 HI 20 LO X PIPA G/S OUTPUT
J7
57 28 VDC IMU STANDBY (PSAAM PWR)
58
59
60 HI 61 LO Z PIPA G/S OUTPUT
37 LO 19 HI Y PIPA G/S OUTPUT
20 LO 38 HI X PIPA G/S OUTPUT
J5
19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
50 RFI EMI SHIELD
57 LO 56 HI 3200 CPS 28V 1% MON
J8
19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
56 HI 57 LO 3200 CPS 28V 1% MON
J6
50 RFI EMI SHIELD
42 0 VDC COMPUTER T.P.
25 STRUCTURE GROUND SHIELD
45 HI 46 LO 3.2 KPPS PH A
J7
25 STRUCTURE GROUND SHIELD
45 HI 46 LO 3.2 KPPS PH A
42 0 VDC COMPUTER T.P.
39 INHIBIT POWER FAIL
40 ACE BIAS 1
21 ACE BIAS 2
8 HI 2 LO CGC TEMPERATURE MON
J6
2 LO 8 HI CGC TEMPERATURE MON
21 ACE BIAS 2
40 ACE BIAS 1
39 INHIBIT POWER FAIL
32 LO 54 HI PIPA CAL MOD TEMP
18 IG 6 MG 7 OG SERVO AMP TEST INPUT
22 +14 VDC CGC T.P.
J7
54 HI 32 LO PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG 18 IG 7 OG SERVO AMP TEST INPUT
9 +14 VDC CGC T.P.
47 HI 48 RETURN +120 VDC HPA

2901419

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P3-U E1					.22 .37	NO NO		13	
A 98	1		P3-V P1-F29					.22 .18	NO NO		13 11, 23	
A 99	1		P3-W P1-F28					.22 .18	NO NO		13 11, 23	
A 100	1		P3-X P1-D2					.22 .18	NO NO		13 11, 23	
A 101	1		P3-Y E1					.22 .37	NO NO		13	
A 102	1		P3-Z P1-G29					.22 .18	NO NO		13 11, 23	
A 103	1		P3-A* P1-G28					.22 .18	NO NO		13 11, 23	
A 104	1		P3-B* P1-F2					.22 .18	NO NO		13 11, 23	
A 105	1		P3-C* E3					.22 .37	NO NO		13	
A 106	1		P3-D* P1-A26					.22 .18	NO NO		13 11, 23	
A 107	1		P3-E* P1-A25					.22 .18	NO NO		13 11, 23	
A 108	1		P3-F* P1-G3					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 14 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P3-G* E3					.22 .37	NO NO		13	
A 110	1		P3-H* P1-B26					.22 .18	NO NO		13 11, 23	
A 111	1		P3-I* P1-B25					.22 .18	NO NO		13 11, 23	
A 112	1		P3-J* P1-F4					.22 .18	NO NO		13 11, 23	
A 113	1		P3-K* E3					.22 .37	NO NO		13	
A 114	1		P3-M* P1-C26					.22 .18	NO NO		13 11, 23	
A 115	1		P3-N* P1-C25					.22 .18	NO NO		13 11, 23	
A 116	1		P4-X* P12-64					.22 .15	NO NO		13 12	
A 117	1		P4-Z* P1-A32					.22 .18	NO NO		13 11, 23	
A 118	1		P6-A P1-A4					.22 .18	NO NO		13 11, 23	
A 119	1		P6-B E10					.22 .37	NO NO		13	
A 120	1		P6-C P1-G25					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 15 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-D P1-F25					.22 .18	NO NO		13 11, 23	
A 122	1		P1-C5 P1-C5					.22 .18	NO NO		13 11, 23	
A 123	1		E11 E11					.22 .37	NO NO		13	
A 124	1		P6-J P1-A5					.22 .18	NO NO		13 11, 23	
A 125	1		P6-K E10					.22 .37	NO NO		13	
A 126	1		P6-L P1-G26					.22 .18	NO NO		13 11, 23	
A 127	1		P6-M P1-F26					.22 .18	NO NO		13 11, 23	
A 128	1		P1-D6 P1-D6					.22 .18	NO NO		13 11, 23	
A 129	1		F11 E11					.22 .37	NO NO		13	
A 130	1		P6-T P1-G10					.22 .18	NO NO		13 11, 23	
A 131	1		P6-U E6					.22 .37	NO NO		13	
A 132	1		P6-V P1-F33					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 16 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P6-X P1-F9					.22 .18	NO NO		13 11, 23	
A 134	1		P6-Y E6					.22 .37	NO NO		13	
A 135	1		P6-Z P1-G33					.22 .18	NO NO		13 11, 23	
A 136	2		P6-A* P6-E*					.22 .22	NO NO		13 13	
A 137	1		P6-B* P1-C10					.22 .18	NO NO		13 11, 23	
A 138	1		P6-C* E7					.22 .37	NO NO		13	
A 139	1		P6-D* P1-B33					.22 .18	NO NO		13 11, 23	
A 140	1		P6-E* P1-A33					.22 .18	NO NO		 11, 23	
A 141	1		P6-F* P1-C9					.22 .18	NO NO		13 11, 23	
A 142	1		P6-G* E7					.22 .37	NO NO		13	
A 143	1		P6-H* P1-C33					.22 .18	NO NO		13 11, 23	
A 144	1		P6-J* P1-C8					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 17 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P8-MM P1-A17					.22 .18	NO NO		13 11, 23	
A 50	1		P8-NN P1-A18					.22 .18	NO NO		13 11, 23	
A 51	1		P2-F P1-G5					.22 .18	NO NO		13 11, 23	
A 52	1		P2-N P1-G15					.22 .18	NO NO		13 11, 23	
A 53	1		P2-P P1-G16					.22 .18	NO NO		13 11, 23	
A 54	1		P2-V P1-A15					.22 .18	NO NO		13 11, 23	
A 55	1		P2-W P1-A16					.22 .18	NO NO		13 11, 23	
A 56	1		P2-X P1-C19					.22 .18	NO NO		13 11, 23	
A 57	1		P2-Y E13					.22 .37	NO NO		13	
A 58	1		P2-B* P1-D12					.22 .18	NO NO		13 11, 23	
A 59	1		P2-C* E16					.22 .37	NO NO		13	
A 60	1		P2-D* P1-B31					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420	
SCALE-NONE	REV LTR G		SHEET 10 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P2-E* E13					.22 .37	NO NO		13	
A 62	1		P2-F* P12-27					.22 .15	NO NO		13 12	
A 63	1		P2-G* P12-26					.22 .15	NO NO		13 12	
A 64	1		P2-H* P1-D16					.22 .18	NO NO		13 11, 23	
A 65	1		P2-I* P1-F16					.22 .18	NO NO		13 11, 23	
A 66	1		P1-D8 P1-D8					.22 .18	NO NO		13 11, 23	
A 67	1		E15 E15					.22 .37	NO NO		13	
A 68	1		P1-F7 P1-F7					.22 .18	NO NO		13 11, 23	
A 69	1		P1-F24 P1-F24					.22 .18	NO NO		13 11, 23	
A 70	1		P1-G24 P1-G24					.22 .18	NO NO		13 11, 23	
A 71	1		P1-A24 P1-A24					.22 .18	NO NO		13 11, 23	
A 72	1		P1-B24 P1-B24					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420	
SCALE-NONE	REV LTR G		SHEET 11 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P1-D7 P1-D7					.22 .18	NO NO		13 11, 23	
A 74	1		E15 E15					.22 .37	NO NO		13	
A 75	1		P1-C24 P1-C24					.22 .18	NO NO		13 11, 23	
A 76	1		P1-D24 P1-D24					.22 .18	NO NO		13 11, 23	
A 77	1		P2-LL P12-47					.22 .15	NO NO		13 12	
A 78	2		P2-MM P2-G*					.22 .22	NO NO		13	
A 79	1		P2-NN P1-F15					.22 .18	NO NO		13 11, 23	
A 80	1		P3-A P1-B1					.22 .18	NO NO		13 11, 23	
A 81	1		P3-B E1					.22 .37	NO NO		13	
A 82	1		P3-C P1-A29					.22 .18	NO NO		13 11, 23	
A 83	1		P3-D P1-A28					.22 .18	NO NO		13 11, 23	
A 84	1		P3-E P1-B2					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420	
SCALE-NONE	REV LTR G		SHEET 12 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-F E1					.22 .37	NO NO		13	
A 86	1		P3-G P1-B29					.22 .18	NO NO		13 11, 23	
A 87	1		P3-H P1-B28					.22 .18	NO NO		13 11, 23	
A 88	1		P3-J P1-C1					.22 .18	NO NO		13 11, 23	
A 89	1		P3-K E1					.22 .37	NO NO		13	
A 90	1		P3-L P1-C29					.22 .18	NO NO		13 11, 23	
A 91	1		P3-M P1-C28					.22 .18	NO NO		13 11, 23	
A 92	1		P3-N P1-D1					.22 .18	NO NO		13 11, 23	
A 93	1		P3-P E1					.22 .37	NO NO		13	
A 94	1		P3-R P1-D29					.22 .18	NO NO		13 11, 23	
A 95	1		P3-S P1-D28					.22 .18	NO NO		13 11, 23	
A 96	1		P3-T P1-F1					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420	
SCALE-NONE	REV LTR G		SHEET 13 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P3-U					.22	NO		13	
			E1					.37	NO			
A 98	1		P3-V					.22	NO		13	
			P1-F29					.18	NO		11, 23	
A 99	1		P3-W					.22	NO		13	
			P1-F28					.18	NO		11, 23	
A 100	1		P3-X					.22	NO		13	
			P1-D2					.18	NO		11, 23	
A 101	1		P3-Y					.22	NO		13	
			E1					.37	NO			
A 102	1		P3-Z					.22	NO		13	
			P1-G29					.18	NO		11, 23	
A 103	1		P3-A*					.22	NO		13	
			P1-G28					.18	NO		11, 23	
A 104	1		P3-B*					.22	NO		13	
			P1-F2					.18	NO		11, 23	
A 105	1		P3-C*					.22	NO		13	
			E3					.37	NO			
A 106	1		P3-D*					.22	NO		13	
			P1-A26					.18	NO		11, 23	
A 107	1		P3-E*					.22	NO		13	
			P1-A25					.18	NO		11, 23	
A 108	1		P3-F*					.22	NO		13	
			P1-G3					.18	NO		11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 14 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P3-G*					.22	NO		13	
			E3					.37	NO			
A 110	1		P3-H*					.22	NO		13	
			P1-B26					.18	NO		11, 23	
A 111	1		P3-I*					.22	NO		13	
			P1-B25					.18	NO		11, 23	
A 112	1		P3-J*					.22	NO		13	
			P1-F4					.18	NO		11, 23	
A 113	1		P3-K*					.22	NO		13	
			E3					.37	NO			
A 114	1		P3-M*					.22	NO		13	
			P1-C26					.18	NO		11, 23	
A 115	1		P3-N*					.22	NO		13	
			P1-C25					.18	NO		11, 23	
A 116	1		P12-38					.15	NO		12	
			P12-69					.15	NO		12	
A 117	1		P4-Z*					.22	NO		13	
			P1-A32					.18	NO		11, 23	
A 118	1		P6-A					.22	NO		13	
			P1-A4					.18	NO		11, 23	
A 119	1		P6-B					.22	NO		13	
			E10					.37	NO			
A 120	1		P6-C					.22	NO		13	
			P1-G25					.18	NO		11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR H
SHEET 15 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-D					.22	NO		13	
			P1-F25					.18	NO		11, 23	
A 122	1		P1-C5					.22	NO		13	
			P1-C5					.18	NO		11, 23	
A 123	1		E11					.22	NO		13	
			E11					.37	NO			
A 124	1		P6-J					.22	NO		13	
			P1-A5					.18	NO		11, 23	
A 125	1		P6-K					.22	NO		13	
			E10					.37	NO			
A 126	1		P6-L					.22	NO		13	
			P1-G26					.18	NO		11, 23	
A 127	1		P6-M					.22	NO		13	
			P1-F26					.18	NO		11, 23	
A 128	1		P1-D6					.22	NO		13	
			P1-D6					.18	NO		11, 23	
A 129	1		E11					.22	NO		13	
			E11					.37	NO			
A 130	1		P6-T					.22	NO		13	
			P1-G10					.18	NO		11, 23	
A 131	1		P6-U					.22	NO		13	
			E6					.37	NO			
A 132	1		P6-V					.22	NO		13	
			P1-F33					.18	NO		11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 16 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P6-X					.22	NO		13	
			P1-F9					.18	NO		11, 23	
A 134	1		P6-Y					.22	NO		13	
			E6					.37	NO			
A 135	1		P6-Z					.22	NO		13	
			P1-G33					.18	NO		11, 23	
A 136	2		P6-A*					.22	NO		13	
			P6-E*					.22	NO		13	
A 137	1		P6-B*					.22	NO		13	
			P1-C10					.18	NO		11, 23	
A 138	1		P6-C*					.22	NO		13	
			E7					.37	NO			
A 139	1		P6-D*					.22	NO		13	
			P1-B33					.18	NO		11, 23	
A 140	1		P6-E*					.22	NO			
			P1-A33					.18	NO		11, 23	
A 141	1		P6-F*					.22	NO		13	
			P1-C9					.18	NO		11, 23	
A 142	1		P6-G*					.22	NO		13	
			E7					.37	NO			
A 143	1		P6-H*					.22	NO		13	
			P1-C33					.18	NO		11, 23	
A 144	1		P6-J*					.22	NO		13	
			P1-C8					.18	NO		11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 17 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P6-K* E7					.22 .37	NO NO		13	
A 146	1		P6-M* P1-D33					.22 .18	NO NO		13 11, 23	
A 147	1		P6-P* P1-C4					.22 .18	NO NO		13 11, 23	
A 148	1		P6-Q* E10					.22 .37	NO NO		13	
A 149	1		P6-R* P1-G27					.22 .18	NO NO		13 11, 23	
A 150	1		P6-S* P1-F27					.22 .18	NO NO		13 11, 23	
A 151	1		P1-F6 P1-F6					.22 .18	NO NO		13 11, 23	
A 152	1		E11 E11					.22 .37	NO NO		13	
A 153	1		P6-X* P1-G5					.22 .18	NO NO		13 11, 23	
A 154	1		P6-Y* E12					.22 .37	NO NO		13	
A 155	1		P6-Z* P1-G37					.22 .18	NO NO		13 11, 23	
A 156	1		P6-AA P1-G36					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 18 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-BB P1-C6					.22 .18	NO NO		13 11, 23	
A 158	1		P6-CC E12					.22 .37	NO NO		13	
A 159	1		P6-DD P1-G38					.22 .18	NO NO		13 11, 23	
A 160	1		P6-FF P1-A6					.22 .18	NO NO		13 11, 23	
A 161	1		P6-GG E12					.22 .37	NO NO		13	
A 162	1		P6-HH P1-G39					.22 .18	NO NO		13 11, 23	
A 163	1		P7-A P1-G4					.22 .18	NO NO		13 11, 23	
A 164	1		P7-B E3					.22 .37	NO NO		13	
A 165	1		P7-C P1-D26					.22 .18	NO NO		13 11, 23	
A 166	1		P7-D P1-D25					.22 .18	NO NO		13 11, 23	
A 167	1		P7-E P1-C7					.22 .18	NO NO		13 11, 23	
A 168	1		P7-F E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 19 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	2		P7-G P3-V					.22 .22	NO NO		13	
A 170	2		P7-H P3-W					.22 .22	NO NO		13	
A 171	1		P1-D10 P1-D10					.22 .18	NO NO		13 11, 23	
A 172	1		E5 E5					.22 .37	NO NO		13	
A 173	1		P1-D21 P1-D21					.22 .18	NO NO		13 11, 23	
A 174	1		P1-D22 P1-D22					.22 .18	NO NO		13 11, 23	
A 175	1		P7-N P1-G7					.22 .18	NO NO		13 11, 23	
A 176	1		P7-P E8					.22 .37	NO NO		13	
A 177	1		P7-T P1-B3					.22 .18	NO NO		13 11, 23	
A 178	1		P7-U E9					.22 .37	NO NO		13	
A 179	1		P7-V P1-D37					.22 .18	NO NO		13 11, 23	
A 180	1		P7-W P1-F37					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 20 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P7-X P1-A3					.22 .18	NO NO		13 11, 23	
A 182	1		P7-Y E9					.22 .37	NO NO		13	
A 183	1		P7-Z P1-D38					.22 .18	NO NO		13 11, 23	
A 184	1		P7-A* P1-F38					.22 .18	NO NO		13 11, 23	
A 185	1		P7-B* P1-C3					.22 .18	NO NO		13 11, 23	
A 186	1		P7-C* E9					.22 .37	NO NO		13	
A 187	1		P7-D* P1-D39					.22 .18	NO NO		13 11, 23	
A 188	1		P7-E* P1-F39					.22 .18	NO NO		13 11, 23	
A 189	1		P7-F* P1-A7					.22 .18	NO NO		13 11, 23	
A 190	1		P7-G* E4					.22 .37	NO NO		13	
A 191	2		P7-H* P3-C					.22 .22	NO NO		13	
A 192	2		P7-I* P3-D					.22 .22	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 21 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P4-BB E17					.22 .37	NO NO		13	
A 242	1		P4-CC E17					.22 .37	NO NO		13	
A 243	1		P4-DD E17					.22 .37	NO NO		13	
A 244	1		P4-EE E17					.22 .37	NO NO		13	
A 245	1		P4-FF E17					.22 .37	NO NO		13	
A 246	2		P3-FF P2-N					.22 .22	NO NO		13	
A 247	2		P3-GG P2-P					.22 .22	NO NO		13	
A 248	2		P3-KK P2-V					.22 .22	NO NO		13	
A 249	2		P3-LL P2-W					.22 .22	NO NO		13	
A 250	1		P7-KK P1-D13					.22 .18	NO NO		13 11, 23	
A 251	2		P7-LL P3-CC					.22 .22	NO NO		13 13	
A 252	1		P7-MM P1-C32					.22 .18	NO NO		13 11, 23	

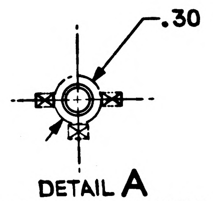
SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR	G	SHEET 26 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P7-NN P1-D32					.22 .18	NO NO		13 11, 23	
A 254	1		P3-BB P1-G13					.22 .18	NO NO		13 11, 23	
A 255	1		P3-CC E16					.22 .37	NO NO			
A 256	1		P3-DD P1-B19					.22 .18	NO NO		13 11, 23	
A 257	1		P3-EE P1-B20					.22 .18	NO NO		13 11, 23	
A 258	1		P12-20 P12-61					.15 .15	NO NO		12 12	
A 259	1		P1-G34 P1-F34					.18 .18	NO NO		11, 23 11, 23	
A 260	1		P12-63 P12-7					.15 .15	NO NO		12 12	
A 261	1		P4-X* P1-D34					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR	H	SHEET 27 OF 28

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MIL-P-18177 TYPE GEE, LAMINATED GLASS CLOTH EPOXY RESIN .055-.070 THICK (ES2744-1).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. MARK PER ND1002019 USING BLACK, .09 HIGH CHARACTERS. CHARACTERS TO BE CENTRALIZED WITHIN .03 AS SHOWN.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
6. LOWER CASE LETTERS FOR MANUFACTURING REFERENCE.
7. ARROW INDICATES DIRECTION OF POSITIVE(+)DIMENSION.



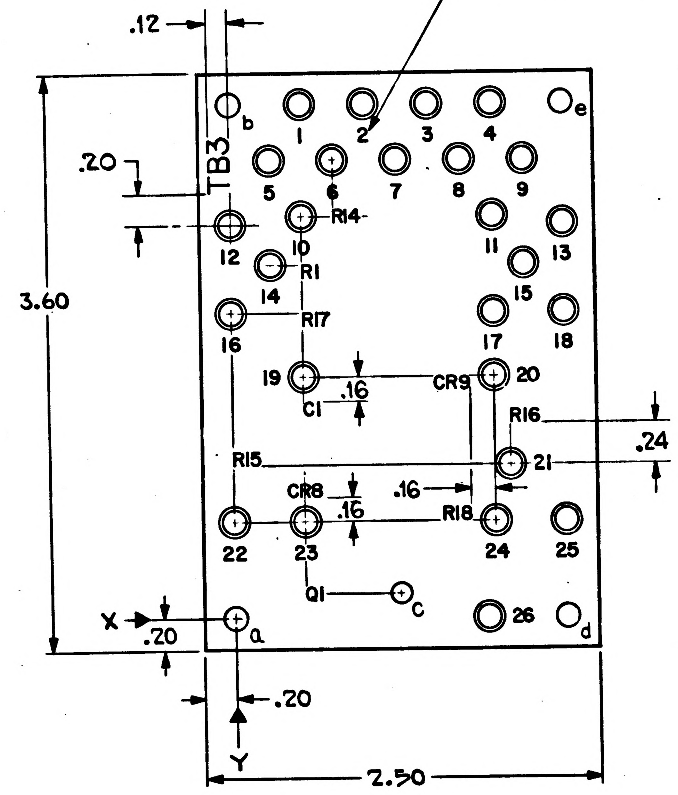
DETAIL A
LOCATION OF MARKING
1 THRU 26

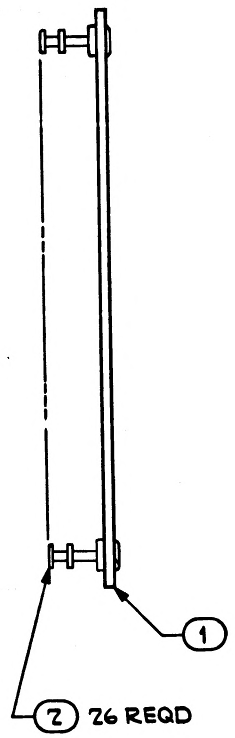
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 30013		26 MAY 66	

COORDINATE DIMENSIONS

HOLE NO.	COORDINATE X (HORIZ)	COORDINATE Y (VERT)	HOLE DESCRIPTION		
1	.450	3.200	.114-.119	THRU	
2	.850	3.200			
3	1.250	3.200			
4	1.650	3.200			
5	.250	2.850			
6	.650	2.850			
7	1.050	2.850			
8	1.450	2.850			
9	1.850	2.850			
10	.450	2.500			
11	1.650	2.500			
12	0	2.450			
13	2.100	2.450			
14	.250	2.200			
15	1.850	2.200			
16	0	1.900			
17	1.650	1.900			
18	2.100	1.900			
19	.450	1.500			
20	1.650	1.500			
21	1.750	.950			
22	0	.600			
23	.450	.600			
24	1.650	.600			
25	2.100	.600			
26	1.600	0	.114-.119		
a	0	0	.164-.171		⊕.014 DIA
b	0	3.200 BSC	.164-.171		⊕.014 DIA
c	1.050	.150	.134-.141		
d	2.100 BSC	0	.164-.171		⊕.014 DIA
e	2.100 BSC	3.200 BSC	.164-.171	THRU	⊕.014 DIA

SEE DETAIL A





SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	26	MS17122-7	TERMINAL - STUD
1	1	2901439-001	BOARD, LAMINATED

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901438-011	1900011-041

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL
11 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R.H. Beke DATE 1 APR '66
CHECKED 11 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD
(INSEPARABLE ASSEMBLY)

SIZE D
CODE IDENT NO. 99974
2901439
SCALE 2:1
SHEET 1 OF 1

NOTES:

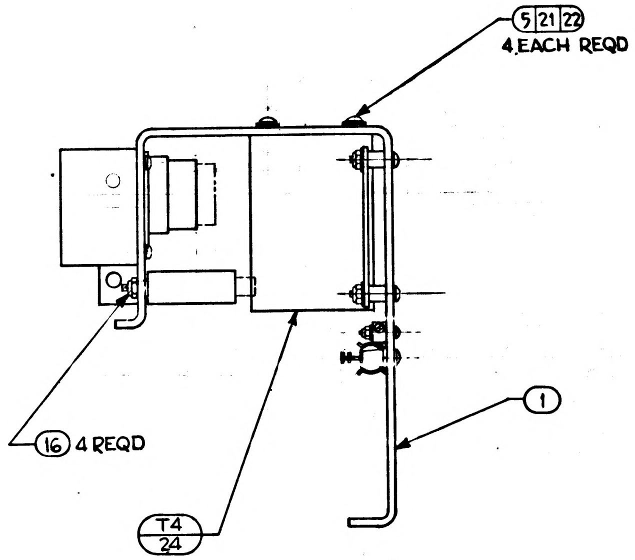
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
3. VENDOR ITEM, SEE SPECIFICATION CONTROL DRAWING.
4. SOLDER PER ND1002071 USING ITEM ㉕, OR ITEMS ㉖ AND ㉗.

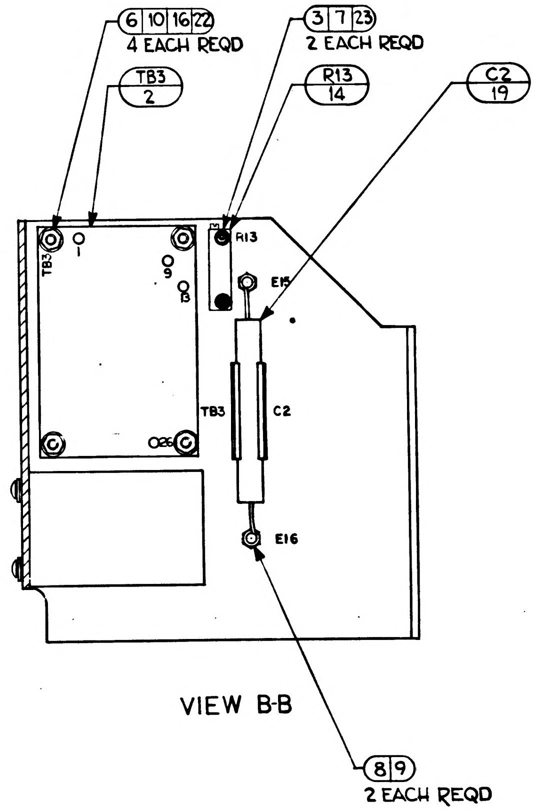
REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER DO 61974	—	3 MAY 66	
	B	INITIAL RELEASE CLASS A PER TDRR 30013		26 MAY 66	

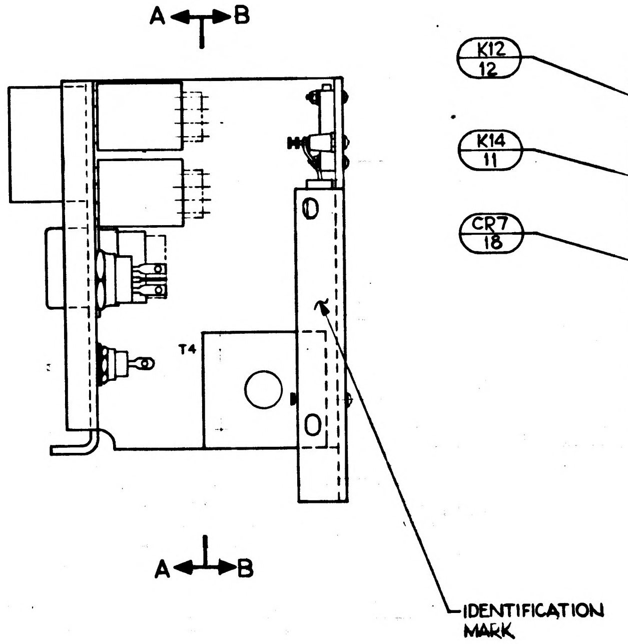
CONDUCTOR CHART

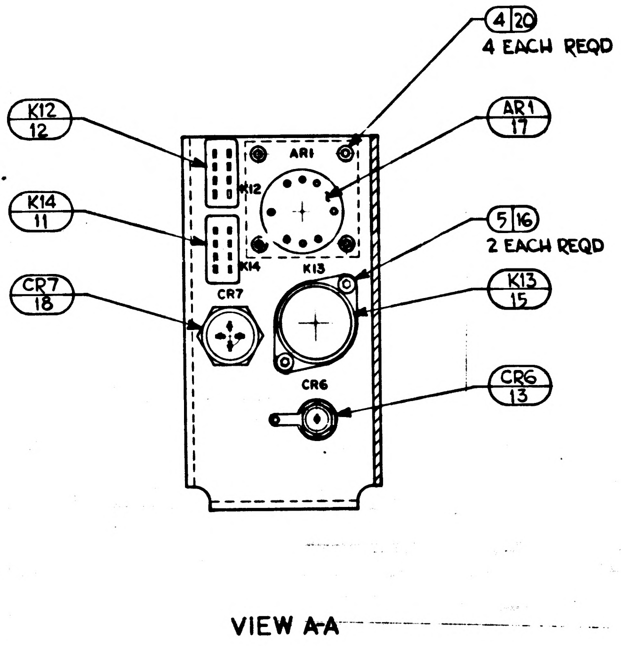
FROM	TO	CUT	STRIP	TIN
R13 GREEN	TB3-13	1.50	.30	YES
R13 RED	TB3-13	1.50	.30	YES
R13 YELLOW	TB3-9	2.00	.30	YES





VIEW B-B





VIEW A-A

	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	AR		27	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	AR		26	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	AR		25	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
SEE NOTE 3	1		24	1897425	TRANSFORMER
	2		23	AN960C2L (1897006-0)	WASHER, FLAT
	8		22	AN960C6L (1897006-036)	WASHER, FLAT
	4		21	MS35338-79	WASHER, LOCK, SPLIT
	4		20	MS35338-78	WASHER, LOCK, SPLIT
SEE NOTE 3	1		19	CL25BJ151UP3	(1897081-320) CAPACITOR
	1		18	1897277-001	RECTIFIER, BRIDGE
	1		17	1897261	COMPARATOR (28 VDC, 50 MA)
	10		16	1012525-004	NUT, SELF-LOCKING
	1		15	1016024-001	RELAY, ARMATURE
	1		14	1015989-002	RESISTOR, VARIABLE
	1		13	1015939-2	SEMICONDUCTOR, DEVICE DIODE
	1		12	1015982-007	RELAY, ARMATURE
	1		11	1015982-006	RELAY, ARMATURE
	4		10	1015860-001	SPACER
	2		9	1010676-1	TERMINAL, STUD (INSULATED)
	2		8	1010618-13	SCREW, BUT. HD, SELF LOC, HEX SOC
	2		7	1010617-2	NUT, HEX SELF LOCKING
	4		6	1006783-24	SCREW, BUTTON HEAD HEX SOC
	6		5	1006783-22	SCREW, BUTTON HEAD HEX SOC
	4		4	1006783-19	SCREW, BUTTON HEAD HEX SOC
SEE NOTE 3	2		3	1006783-13	SCREW, BUTTON HEAD HEX SOC
	1		2	2901438-011	COMPONENT BOARD ASSY
	1		1	2901441	BRACKET, COMPONENT, INSEP ASSY

QUANTITY REQUIRED

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1902630-011	1900011-041	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R. Staticek 6 APR 66
CHECKED 12 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRONIC COMPONENTS
ASSEMBLY

SIZE E
CODE IDENT NO. 99974
2901440
SCALE FULL
SHEET 1 OF 1

CABLE ASSEMBLY W192 2901447 B~~A~~

SEE NOTL

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	14	X	MS3192A-20A	(1896855-020) CONTACT, ELECTRICAL-PIN TYPE (FURNISHED WITH ITEM 7)
3	15	24	1897370-001	PLUG, END SEAL
3	16	X	1897370-002	PLUG, END SEAL (FURNISHED WITH ITEMS 9 AND 10)
	17	AR	MIL-I-15126 TYPE ACT	TAPE, ADHESIVE, ELECTRICAL .50 WIDE (ES2716-4 TYPE C)
	18	1	2901447-005	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG, WHT 1 FT TOTAL LENGTH

SIZE A | CODE IDENT NO. 99974 | 2901447

SCALE-NONE | REV LTR ~~A~~ B | SHEET 5 OF 7

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B

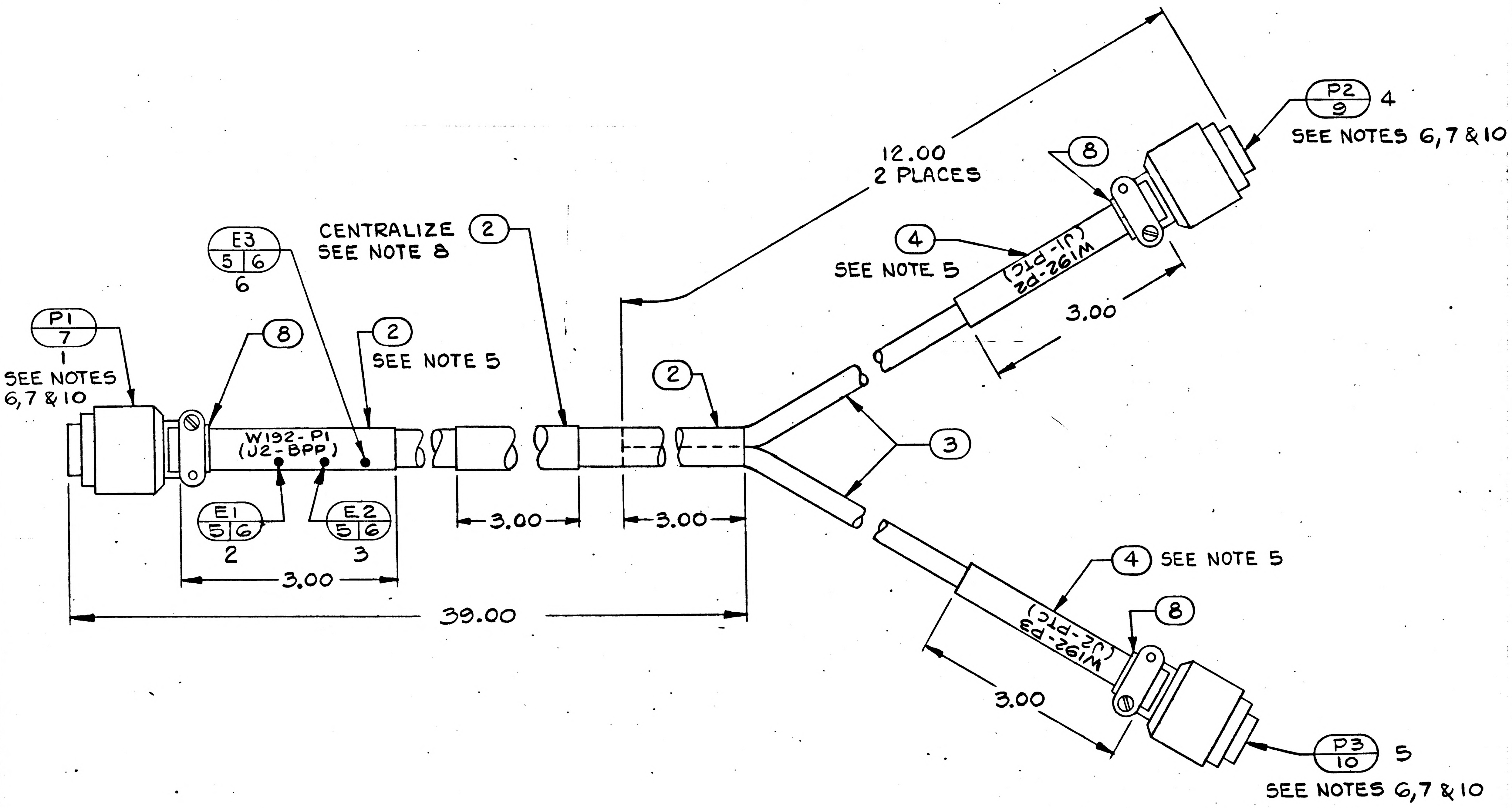
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	P1-N E1-B	1 2				.25 .25	NO NO		11	
A	2	1	P1-K E1-B	1 2				.25 .25	NO NO		11	
A	3	1	E1-BB P2-L	2 4				.25 .25	NO NO			
A	4	1	P1-P P2-K	1 4				.25 .25	NO NO		11	
A	5	1	P1-V E2-BB	1 3				.25 .25	NO NO		11	
A	6	1	E2-B P2-M	3 4				.25 .25	NO NO			
A	7	1	E2-B P3-L	3 5				.25 .25	NO NO			
A	8	1	P1-T P3-M	1 5				.25 .25	NO NO		11	
A	9	1	E3-BB ~~P1-R~~ P3-J	1 5				.25 .25	NO NO		~~11~~	
A	10	1	E3-B P1-M	6 1				.25 .25	NO NO		 11	
A	11	18	E3-B P1-L	6 1				.25 .25	NO NO		 11	
A	12	18	P3-G P3-H	5 5				.25 .25	NO NO			

SIZE A | CODE IDENT NO. 99974 | 2901447

SCALE-NONE | REV LTR ~~A~~B | SHEET 6 OF 7

MIL 2084 9-65

REVISIONS					30013
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		See Sht 1 for Rev Record			


P1
7
1
SEE NOTES 6,7 & 10
8
E3
5 | 6
6
2
SEE NOTE 5
CENTRALIZE
SEE NOTE 8
2
W192-P1
(J2-BPP)
E1
5 | 6
2
E2
5 | 6
3
3.00
3.00
3.00
3.00
39.00
2
3
12.00
2 PLACES
4
SEE NOTE 5
W192-P2
(J1-PTC)
8
P2
9
4
SEE NOTES 6,7 & 10
3.00
4
SEE NOTE 5
W192-P3
(J2-PTC)
8
3.00
P3
10
5
SEE NOTES 6,7 & 10

8102205	1900011-031
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .50
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Oezel DATE 20 APR 66
CHECKED Piojda 20 APR 66
APPROVAL Gedeman 6/28/66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL W G Murphy 7-5-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED-W192

SIZE C
CODE IDENT NO. 99974
2901447
SCALE ~
SHEET 7 OF 7

MIL-10882 D

APPLICATION	
NEXT ASSY	USED ON
1900011-041	1900011-041

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211995	2 MAY 66	JW CP
B	INITIAL RELEASE CLASS A PER TDRR 30013	4 MAY 66	JHP EF
C	REVISED PER TDRR 30815	1 SEPT 66	JJB JI
D	REVISED PER TDRR 31475	17 OCT 66	WK RWH

Charleston 20APR66

REV STATUS OF SHEETS								
REV	D	C	B	D	B	D	B
SHEET	1	2	3	4	5	6	7

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 20 APR 66 DAY MO YR
CHECKER 20 APR 66
ENGINEER 20 APR 66
APPROVAL W. Watson 6-23-66
CONTR NO. NAS9-497

A. C. METZGER
NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

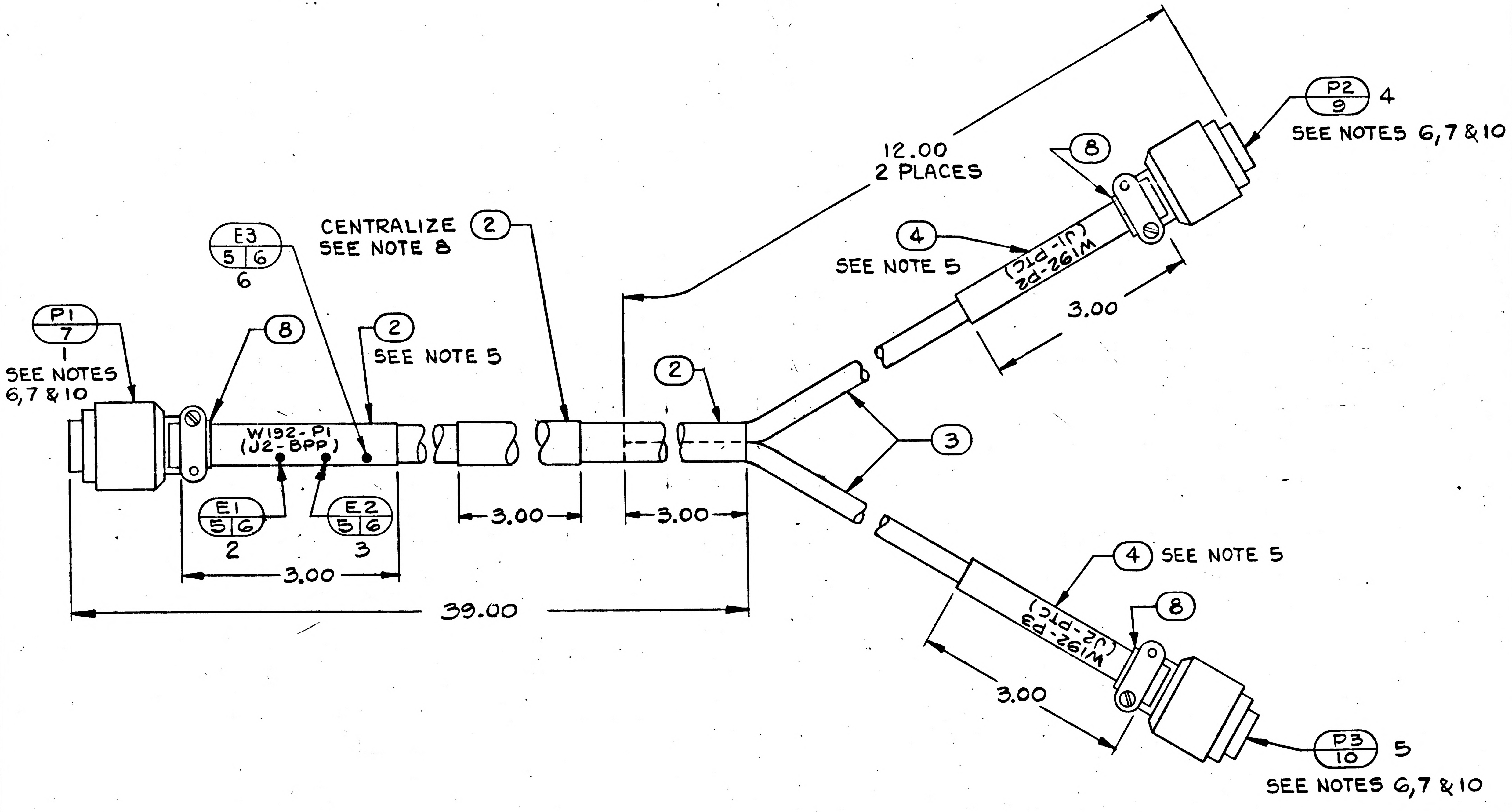
CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED-W192

SIZE A
CODE IDENT. NO 99974
2901447
SCALE NONE
SHEET 1 OF 7

MIL 1377A6 12-65

REV LTR B 2901447

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		REVISIONS 30013			
		See SHT 1 For Rev Record			



P1 / 7
1
SEE NOTES 6,7 & 10
8
E3 / 5 6
6
CENTRALIZE SEE NOTE 8
2
2 SEE NOTE 5
W192-P1 (J2-BPP)
E1 / 5 6
2
E2 / 5 6
3
3.00
3.00
3.00
39.00
2
3
12.00 2 PLACES
4 SEE NOTE 5
8
P2 / 9
4
SEE NOTES 6,7 & 10
W192-P2 (J1-PTC)
3.00
4 SEE NOTE 5
8
W192-P3 (J2-PTC)
3.00
P3 / 10
5
SEE NOTES 6,7 & 10

8102205	1900011-031
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .50
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Orzel DATE 20 APR 66
CHECKED Pisida 20APR 66
APPROVAL Wedeman 6/28/66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED-W192

SIZE C
CODE IDENT NO. 99974
2901447
SCALE ~
SHEET 7 OF 7

MIL-1058D D

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	22	1	MS3126F12-10P	(1897038-100) CONNECTOR PLUG, ELEC
	23	7	MS3126F24-61SW	(1897048-611) CONNECTOR PLUG, ELEC
	24	9	MS3126F24-61S	(1897048-610) CONNECTOR PLUG, ELEC
	25	1	MS3126F20-16S	(1897044-160) CONNECTOR PLUG, ELEC
	26	6	MS3126F24-61SX	(1897048-612) CONNECTOR PLUG, ELEC
	27	1	MS3126F12-10SW	(1897039-101) CONNECTOR PLUG, ELEC
	28	1	MS3126F12-10S	(1897039-100) CONNECTOR PLUG, ELEC
	29	1	MS3126F24-61SZ	(1897048-614) CONNECTOR PLUG, ELEC
	30	1	MS3126F16-8SW	(1897042-081) CONNECTOR PLUG, ELEC
	31	1	MS3126F10-6S	(1897026-060) CONNECTOR PLUG, ELEC
	32	1	MS3126F20-41P	(1897043-410) CONNECTOR PLUG, ELEC
7	33	2	1897215-011	CONNECTOR PLUG, ELEC
7	34	9	1015922-001	CONNECTOR PLUG, ELEC
7	35	2	1015907-101	CONNECTOR PLUG, ELEC
7	36	1	1015907-102	CONNECTOR PLUG, ELEC
7	37	1	1015907-104	CONNECTOR PLUG, ELEC
	38	2	MS3126F24-61SY	(1897048-613) CONNECTOR PLUG, ELEC
	39	1	MS3126F14-19P	(1897089-190) CONNECTOR PLUG, ELEC

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 7 OF 209

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	40	1	1015906-100	CONNECTOR RECEP, ELEC
7	41	1	1015906-101	CONNECTOR RECEP, ELEC
7	42	1	1015906-102	CONNECTOR RECEP, ELEC
7	43	1	1015906-103	CONNECTOR RECEP, ELEC
7	44	1	1015906-104	CONNECTOR RECEP, ELEC
	45	1	MS3127E24-61PY	(1897055-613) CONNECTOR RECEP, ELEC
	46	1	MS3127E24-61PZ	(1897055-614) CONNECTOR RECEP, ELEC
	47	1	MS3127E24-61S	(1897056-610) CONNECTOR RECEP, ELEC
	48	1	MS3127E20-41PW	(1897051-411) CONNECTOR RECEP, ELEC
	49	1	MS3127E14-15S	(1897116-150) CONNECTOR RECEP, ELEC
	50	1	MS3127E22-55PX	(1897053-552) CONNECTOR RECEP, ELEC
	51	1	MS3127E22-55PY	(1897053-553) CONNECTOR RECEP, ELEC
	52	1	MS3127E22-55PZ	(1897053-554) CONNECTOR RECEP, ELEC
	53	1	MS3127E22-55SW	(1897054-551) CONNECTOR RECEP, ELEC
	54	1	MS3127E22-55SX	(1897054-552) CONNECTOR RECEP, ELEC
	55	1	MS3127E22-55SY	(1897054-553) CONNECTOR RECEP, ELEC
	56	1	MS3127E12-10P	(1897119-100) CONNECTOR RECEP, ELEC
7	57	1	1897214-011	CONNECTOR RECEP, ELEC

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 8 OF 209

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	58	1	1897214-012	CONNECTOR RECEP, ELEC
7	59	1	1897214-013	CONNECTOR RECEP, ELEC
7	60	1	1897215-013	CONNECTOR
7	61	1	1897215-012	CONNECTOR
	62	1	MS3126F20-41S	(1897044-410) CONNECTOR
	63	1	MS3106A18-1P	(1897084-010) CONNECTOR PLUG
7	64	1	1016282- 10	GROMMET, CONNECTOR
7	65	3	1016282- 12	GROMMET, CONNECTOR
7	66	3	1016282- 14	GROMMET, CONNECTOR
7	67	9	1016282- 16	GROMMET, CONNECTOR
7	68	4	1016282- 18	GROMMET, CONNECTOR
7	69	5	1016282- 22	GROMMET, CONNECTOR
7	70	26	1016282- 24	GROMMET, CONNECTOR
7	72	35	1016006-003	SPLICE REDUCER
7	74	73	1015902- 3	TERMINAL LUG, RING TONGUE, CRIMP
	78	16	1900448- 11	CLAMP, CABLE, BRACKET ASSY
	79	31	MS21919-WDG2 THRU MS21919-WDG32	(1897073-202 THRU 1897073-224) CLAMP-LOOP TYPE, CUSHIONED (SELECTED AS REQUIRED)
7	80	9	1015905-061	CLAMP, STRAIN RELIEF

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 9 OF 209

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	81	104	1016128-011	BAND, IDENTIFICATION
7	82	35	1010490-198	INSULATION-SLEEVING, ELEC
7	83	100	1010490-196	INSULATION-SLEEVING, ELEC
	84	1	2901465-018	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., .50 DIA
	85	1	2901465-019	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., .75 DIA
	86	1	2901465-020	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., .88 DIA
	87	1	2901465-021	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., 1.00 DIA
	88	1	2901465-022	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., 1.25 DIA
	89	1	2901465-023	TUBING, MIL-I-7444, TYPE 3, BLK, FLEX., 1.50 DIA
7	90	62	1015908- 11	PIN CONTACT
7	91	47	1015908- 41	OUTER MALE BODY
7	92	110	1015908- 51	HYRING
7	93	47	1015908- 21	SOCKET CONTACT
7	94	63	1015908- 31	OUTER FEMALE BODY
7	95	6	1897228-001	COAX CABLE HOUSING CONN.
7	96	106	1897229-001	PIN CONTACT ASSY
7	97	106	1897229-002	RETENTION SPRING

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 10 OF 209

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET NO.
B 5	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 5E			J8-A1 P127A-1A	27 170A				.11 .22	NO NO		93,148 96		225A 225A
B 5X			J8-A2 P127A-1B	27 170A									226A 226A
B 6	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 6E			J8-B1 P127A-2A	27 170A				.11 .22	NO NO		93,148 96		227A 227A
B 6X			J8-B2 P127A-2B	27 170A									226C 226C
B 7	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 7E			J8-C1 P127A-3A	27 170A				.11 .22	NO NO		93,148 96		229A 229A
B 7X			J8-C2 P127A-3B	27 170A									230A 230A
B 8	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 8E			J8-D1 P127A-4A	27 170A				.11 .22	NO NO		93,148 96		231A 231A
B 8X			J8-D2 P127A-4B	27 170A									230C 230C

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B | SHEET 15 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET NO.
B 9	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 9E			J8-E1 P127A-5A	27 170A				.11 .22	NO NO		93,148 96		233B 233B
B 9X			J8-E2 P127A-5B	27 170A									234A 234A
B 10	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 10E			J8-F1 P127A-6A	27 170A				.11 .22	NO NO		93,148 96		235A 235A
B 10X			J8-F2 P127A-6B	27 170A									234C 234C
B 11	118				.52 2.25	.23 2.00				A,9 B,6B	91, 92,120 119,120		
B 11B	1		P14-H SHLD B11	197				.22 .25	NO NO		114		250 250
B 11E			J9-C1 P14-J	25 197				.11 .22	NO NO		93,148 114		249 249
B 11X			J9-C2 SHLD B11	25									250 250
B 12	118				.52 2.25	.23 2.00				A,9 B,6B	91, 92,120 119,124,120		
B 12B	1		P14-G SHLD B12	197				.22 .25	NO NO		114		252 252

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B | SHEET 16 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 12E			J9-D1 P14-F	25 197				.11 .22	NO NO		93,148 114		251 251
B 12X			J9-D2 SHLD B12	25									252 252
B 13	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 13E			J9-E1 P127A-9A	25 170A				.11 .22	NO NO		93,148 96		253A 253A
B 13X			J9-E2 P127A-9B	25 170A									254A 254A
B 14	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 14E			J9-F1 P127A-10A	25 170A				.11 .22	NO NO		93,148 96		255A 255A
B 14X			J9-F2 P127A-10B	25 170A									256A 256A
B 15	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 15E			J9-G1 P127A-11A	25 170A				.11 .22	NO NO		93,148 96		257A 257A
B 15X			J9-G2 P127A-11B	25 170A									258A 258A
B 16	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B | SHEET 17 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 16E			J9-J1 P127A-13A	25 170A				.11 .22	NO NO		93,148 96		261A 261A
B 16X			J9-J2 P127A-13B	25 170A									262A 262A
B 17	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120		
B 17E			J9-A1 P12-A1	25 126				.11 .11	NO NO		93,148 90,148		245 245
B 17X			J9-A2 P12-A2	25 126									246 246
B 18	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120		
B 18E			J9-B1 P12-B1	25 126				.11 .11	NO NO		93,148 90,148		247 247
B 18X			J9-B2 P12-B2	25 126									248 248
B 19	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 19E			J9-K1 P127A-14A	25 170A				.11 .22	NO NO		93,148 96		263A 263A
B 19X			J9-K2 P127A-14B	25 170A									264A 264A
B 20	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B | SHEET 18 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 34E			J14-C1 P128A-2A	28 171				.11 .22	NO NO		93,148 96		396B 396B
B 34X			J14-C2 P128A-2B	28 171									397A 397A
B 35	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 35E			J14-D1 P128A-3A	28 171				.11 .22	NO NO		93,148 96		398B 398B
B 35X			J14-D2 P128A-3B	28 171									397C 397C
B 36	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 36E			J14-E1 P128A-4A	28 171				.11 .22	NO NO		93,148 96		400A 400A
B 36X			J14-E2 P128A-4B	28 171									401A 401A
B 37	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 37E			J14-F1 P128A-5A	28 171				.11 .22	NO NO		93,148 96		402A 402A
B 37X			J14-F2 P128A-5B	28 171									401C 401C
B 38	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B *	SHEET	23 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 38E			J15-A1 P128A-8A	26 171				.11 .22	NO NO		93,148 96		408A 408A
B 38X			J15-A2 P128A-8B	26 171									409A 409A
B 39	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,120		
B 39B	1		P14-V SHLD B39	197				.22 .25	NO NO		114		411 411
B 39E			J15-B1 P14-U	26 197				.11 .22	NO NO		93,148 114		410 410
B 39X			J15-B2 SHLD B39	26									411 411
B 40	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 40E			J15-G1 P128A-10A	26 171				.11 .22	NO NO		93,148 96		420B 420B
B 40X			J15-G2 P128A-10B	26 171									421A 421A
B 41	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 41E			J15-J1 P128A-12A	26 171				.11 .22	NO NO		93,148 96		424A 424A
B 41X			J15-J2 P128A-12B	26 171									425A 425A

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B *	SHEET	24 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 42	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 42E			J15-K1 P128A-13A	26 171				.11 .22	NO NO		93,148 96		426A 426A
B 42X			J15-K2 P128A-13B	26 171									427A 427A
B 43	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 43E			J15-H1 P128A-11A	26 171				.11 .22	NO NO		93,148 96		422A 422A
B 43X			J15-H2 P128A-11B	26 171									423A 423A
B 44	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98		
B 44E			J15-C1 P128A-9A	26 171				.11 .22	NO NO		93,148 96		412A 412A
B 44X			J15-C2 P128A-9B	26 171									413A 413A
B 45	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,120		
B 45B	1		P14-H* SHLD B45	197				.22 .25	NO NO		114		415 415
B 45E			J15-D1 P14-I*	26 197				.11 .22	NO NO		93,148 114		414 414

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B *	SHEET	25 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 45X			J15-D2 SHLD B45	26									415 415
B 46	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,120		
B 46B	1		P14-K SHLD B46	197				.22 .25	NO NO		114		417 417
B 46E			J15-E1 P14-L	26 197				.11 .22	NO NO		93,148 114		416 416
B 46X			J15-E2 SHLD B46	26									417 417
B 47	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,120		
B 47B	1		P14-Y SHLD B47	197				.22 .25	NO NO		114		419 419
B 47E			J15-F1 P14-Z	26 197				.11 .22	NO NO		93,148 114		418 418
B 47X			J15-F2 SHLD B47	26									419 419
B 48	7				2.25 4.00	2.00 3.75				A,7 B,68	120 120,119		
B 48B	1		P104D-31 SHLD B48	68				.12 .25	NO NO		113		1H 1H
B 48L			J16-H* P104D-12	20 68				.22 .12	NO NO		114 113		435A 435A

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B *	SHEET	26 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 94L			J17-W* P1050-28	15 47				.22 .12	NO NO		114 113		481 481
B 94R			J17-V* P1050-27	15 47				.22 .12	NO NO		114 113		480 480
B 95	1		J18-FF P21-R*	12 202				.22 .22	NO NO		115 115		519 519
B 96	1		J18-GG P21-M*	12 202				.22 .22	NO NO		115 115		520 520
B 97	1		J18-N* P92-B*	12 183				.22 .22	NO NO		115 115		502 502
B 98	1		J18-M* P92-A*	12 183				.22 .22	NO NO		115 115		501 501
B 99	1		J18-K* P92-Y	12 183				.22 .22	NO NO		115 115		500 500
B 100	1		J18-KK P36-Z	12 181				.22 .22	NO NO		115 115		523 523
B 101	1		J18-H* P108D-1	12 45				.22 .12	NO NO		115 113		498 498
B 102	1		J18-G* P98-E	12 187				.22 .22	NO NO		115 115		497 497
B 103	1		J18-Q* P31-G	12 191				.22 .22	NO NO		115 115		504 504
B 104	1		J18-U* P31-H	12 191				.22 .22	NO NO		115 115		508 508

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B *
SHEET 35 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 105	1		J18-X* P31-N	12 191				.22 .22	NO NO		115 115		511 511
B 106	1		J18-S* P31-CC	12 191				.22 .22	NO NO		115 115		506 506
B 107	1		J18-R* P31-EE	12 191				.22 .22	NO NO		115 115		505 505
B 108	1		J18-W* P31-AA	12 191				.22 .22	NO NO		115 115		510 510
B 109	1		J18-V* P31-Z*	12 191				.22 .22	NO NO		115 115		509 509
B 110	1		J18-Z* P31-T*	12 191				.22 .22	NO NO		115 115		513 513
B 111	1		J18-Y* P31-Y*	12 191				.22 .22	NO NO		115 115		512 512
B 112	1		J18-J* P92-Z	12 183				.22 .22	NO NO		115 115		499 499
B 113	1		J18-CC P130E-9	12 22E				.22 .12	NO NO		115 113		516 516
B 114	3		J18-B E3C7-B	12 13				.22 .25	NO NO		115		2 2
B 115	3		J18-C TB7-1	12 224				.22 .20	NO NO		115 74		494 494
B 116	1		J18-D P96-NN	12 182				.22 .22	NO NO		115 115		1704 1704

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B *
SHEET 36 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 117	1		J18-E P96-PP	12 182				.22 .22	NO NO		115 115		1705 1705
B 118	10				2.25 2.25	2.00 2.00				8,6A A,7	120,119 120		
B 118A	1		SHLD B118 E307-B	 13				.25 .25	NO NO				2 2
B 118L			J18-G P35-V*	12 184				.22 .22	NO NO		115 115		1728 1728
B 118R			J18-F P35-U*	12 184				.22 .22	NO NO		115 115		1727 1727
B 119	1		J18-U P31-F	12 191				.22 .22	NO NO		115 115		1503 1503
B 120	1		J18-V P33-Z	12 189				.22 .22	NO NO		115 115		1504 1504
B 121	1		J18-W P31-FF	12 191				.22 .22	NO NO		115 115		1505 1505
B 122	1		J18-X P27-Z	12 185				.22 .22	NO NO		115 115		1666 1666
B 123	1		J18-AA P25-EE	12 195				.22 .22	NO NO		115 115		1633 1633
B 124	1		J18-BB P25-PP	12 195				.22 .22	NO NO		115 115		1648 1648
B 125	1		J18-DD P102D-1	12 49				.22 .12	NO NO		115 113		1637 1637

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B *
SHEET 37 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 126	1		J18-EE P26-JJ	12 194				.22 .22	NO NO		115 115		1638 1638
B 127	1		J18-NN P24-N*	12 196				.22 .22	NO NO		115 115		1639 1639
B 128	1		J19-T P11-A	7 250				.22 .22	NO NO		114 114		1667 1667
B 129	1		J19-P* P11-B	7 250				.22 .22	NO NO		114 114		535 535
B 130	1		J19-N* P11-C	7 250				.22 .22	NO NO		114 114		534 534
B 133	1		J19-Z P11-F	7 250				.22 .22	NO NO		114 114		528 528
B 134	1		J19-A* P11-G	7 250				.22 .22	NO NO		114 114		529 529
B 135	1		J19-B* P11-K	7 250				.22 .22	NO NO		114 114		530 530
B 136	1		J19-C* P37-C	7 251				.22 .22	NO NO		114 115		531 531
B 137	1		J19-J* E309-B	7 9				.22 .25	NO NO		114		2 2
B 147	3		J19-E P100D-3	7 87				.22 .12	NO NO		114 113		1324 1324
B 148	3		J19-F P100D-4	7 87				.22 .12	NO NO		114 113		1325 1325

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B *
SHEET 38 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 275	1		J23-DD	14				.22	NO		114	658A
			P121D-4	72				.12	NO		113	658A
B 276	143				4.00	3.75				B,6A	120,119	
					2.25	2.00				A,7	120	
B 276A	1		SHLD B276					.25	NO			1H
			E311-B	11				.25	NO			1H
B 276L			J24-H	10				.22	NO		115	666
			P21-S*	202				.22	NO		115	666
B 276R			J24-G	10				.22	NO		115	665
			P21-U*	202				.22	NO		115	665
B 276Y			J24-J	10				.22	NO		115	667
			P21-T*	202				.22	NO		115	667
B 277	1		J24-R*	10				.22	NO		115	686
			P37-K	251				.22	NO		115	686
B 278	1		J24-S*	10				.22	NO		115	687
			P37-M	251				.22	NO		115	687
B 279	1		J24-V*	10				.22	NO		115	690
			P37-T*	251				.22	NO		115	690
B 280	1		J24-BB	10				.22	NO		115	696
			P37-V*	251				.22	NO		115	696
B 281	1		J24-W*	10				.22	NO		115	691
			P37-P*	251				.22	NO		115	691
B 282	1		J24-Y*	10				.22	NO		115	693
			P37-X*	251				.22	NO		115	693

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 283	1		J24-Q*	10				.22	NO		115	685
			P37-Z*	251				.22	NO		115	685
B 284	1		J24-N*	10				.22	NO		115	683
			P37-BB	251				.22	NO		115	683
B 285	1		J24-P*	10				.22	NO		115	684
			P37-DD	251				.22	NO		115	684
B 286	1		J24-U*	10				.22	NO		115	689
			P37-I*	251				.22	NO		115	689
B 287	10				2.25	2.00				B,6A	120,119	
					2.25	2.00				A,7	120	
B 287A	1		SHLD B287					.25	NO			1H
			E311-B	11				.25	NO			1H
B 287L			J24-D	10				.22	NO		115	664
			P37-NN	251				.22	NO		115	664
B 287R			J24-C	10				.22	NO		115	663
			P37-Z	251				.22	NO		115	663
B 288	1		J24-X*	10				.22	NO		115	692
			P37-M*	251				.22	NO		115	692
B 289	1		J24-T*	10				.22	NO		115	688
			P37-L	251				.22	NO		115	688
B 290	1		J24-AA	10				.22	NO		115	695
			P37-R*	251				.22	NO		115	695
B 291	1		J24-Z*	10				.22	NO		115	694
			P37-K*	251				.22	NO		115	694

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 292	1		J24-B	10				.22	NO		115	2
			P129A-32	174A				.12	NO		138	2
B 293	1		J25-CC	6				.22	NO		115	719B
			P100D-13	87				.12	NO		113	719B
B 294	1		J25-DD	6				.22	NO		115	720A
			P100D-7	87				.12	NO		113	720A
B 295	1		J25-B	6				.22	NO		115	2
			P129D-32	174D				.12	NO		113	2
B 296	1		J25-X	6				.22	NO		115	1423
			P26-AA	194				.22	NO		115	1423
B 297	1		J25-W	6				.22	NO		115	1425A
			P110D-19	60				.12	NO		113	1425A
B 298	1		J25-T	6				.22	NO		115	1424
			P26-CC	194				.22	NO		115	1424
B 299	1		J25-C	6				.22	NO		115	1709
			P96-Q*	182				.22	NO		115	1709
B 300	1		J25-D	6				.22	NO		115	1710
			P96-R*	182				.22	NO		115	1710
B 301	1		J25-E	6				.22	NO		115	1711
			P96-S*	182				.22	NO		115	1711
B 302	1		J25-F	6				.22	NO		115	1712
			P96-T*	182				.22	NO		115	1712
B 303	1		J25-G	6				.22	NO		115	1713
			P96-U*	182				.22	NO		115	1713

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 304	1		J25-H	6				.22	NO		115	1714
			P96-V*	182				.22	NO		115	1714
B 305	1		J25-J	6				.22	NO		115	1715
			P96-W*	182				.22	NO		115	1715
B 306	1		J25-K	6				.22	NO		115	1716
			P96-X*	182				.22	NO		115	1716
B 307	1		J25-L	6				.22	NO		115	1717
			P96-Y*	182				.22	NO		115	1717
B 308	1		J25-M	6				.22	NO		115	1718
			P96-Z*	182				.22	NO		115	1718
B 309	1		J25-Z	6				.22	NO		115	1742
			P96-F*	182				.22	NO		115	1742
B 312	1		J25-P*	6				.22	NO		115	1721
			P96-AA	182				.22	NO		115	1721
B 313	1		J25-Q*	6				.22	NO		115	1722
			P96-BB	182				.22	NO		115	1722
B 314	1		J25-R*	6				.22	NO		115	1723
			P96-EE	182				.22	NO		115	1723
B 317	2		J26-AA	3				.22	NO		127	538A
			TB7-5	221				.20	NO		74	538A
B 318	3		J26-C*	3				.22	NO		115	353
			P129F-11	23F				.12	NO		113	353
B 319	1		J26-D*	3				.22	NO		115	723A
			P129F-12	23F				.12	NO		113	723A

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 383B	1		P117A-31 SHLD B383	36				.12 .25	NO NO		138	1H 1H
B 383L			P1-D P117A-6	193 36				.22 .12	NO NO		115 113	748A 748A
B 383R			P1-B P117A-5	193 36				.22 .12	NO NO		115 113	746A 746A
B 384	9				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,121	
B 384B	1		TB6-6 SHLD B384	240				.20 .25	NO NO		74	3B 3B
B 384L			P2-E TB6-6	192 240				.22 .20	NO NO		117 74	3B 3B
B 384R			P2-D TB6-9	192 243				.22 .20	NO NO		117 74	754 754
B 385	2		P2-A P126F-27	192 30				.22 .22	NO NO		117 138	1B 1B
B 386	7				2.25 2.25	2.00 2.00				A,7 B,6B	120 120,119	
B 386B	1		E315-B SHLD B386	172				.25 .25	NO NO			1H 1H
B 386L			P3-C P91-K*	149 173				.22 .22	NO NO		115 115	756 756
B 386R			P3-F P91-K	149 173				.22 .22	NO NO		115 115	758 758

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR B		SHEET 67 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 387	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 387B	1		E315-B SHLD B387	172				.25 .25	NO NO			1H 1H
B 387L			P3-R P91-N*	149 173				.22 .22	NO NO		115 115	761 761
B 387R			P3-G P91-N	149 173				.22 .22	NO NO		115 115	759 759
B 388	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 388B	1		E315-B SHLD B388	172				.25 .25	NO NO			1H 1H
B 388L			P3-U P91-R*	149 173				.22 .22	NO NO		115 115	762 762
B 388R			P3-K P91-R	149 173				.22 .22	NO NO		115 115	760 760
B 389	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 389B	1		P117A-31 SHLD B389	36				.12 .25	NO NO			1H 1H
B 389L			P3-D P117A-10	149 36				.22 .12	NO NO		115 113	757A 757A
B 389R			P3-B P117A-9	149 36				.22 .12	NO NO		115 113	755A 755A

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR B		SHEET 68 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 390	9				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,121	
B 390B	1		TB6-5 SHLD B390	239				.20 .25	NO NO		74	3A 3A
B 390L			P4-E TB6-5	148 239				.22 .20	NO NO		117 74	3B 3B
B 390R			P4-D TB6-8	148 242				.22 .20	NO NO		117 74	754 754
B 391	2		P4-A P126E-31	148 31				.22 .22	NO NO		117 138	1B 1B
B 392	2		P5-V* TB9-3	110 101				.22 .20	NO NO		126 74	1A 1A
B 393	2		P5-BB TB9-1	110 103				.22 .20	NO NO		126 74	538A 538A
B 394	1		P5-S* P64-GG	110 134				.22 .22	NO NO		114 115	789 789
B 395	1		P5-FF P64-V*	110 134				.22 .22	NO NO		114 115	797 797
B 396	1		P5-CC P64-W*	110 134				.22 .22	NO NO		114 115	795 795
B 397	1		P5-DD P64-X*	110 134				.22 .22	NO NO		114 115	796 796
B 398	1		P5-W* P64-Y*	110 134				.22 .22	NO NO		114 115	792 792

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR B		SHEET 69 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 399	1		P5-Y* P64-Z*	110 134				.22 .22	NO NO		114 115	793 793
B 400	1		P5-AA P64-AA	110 134				.22 .22	NO NO		114 115	794 794
B 401	1		P5-C P41-B	110 107				.22 .22	NO NO		114 115	764 764
B 402	1		P5-D P41-C	110 107				.22 .22	NO NO		114 115	765 765
B 403	1		P5-E P41-D	110 107				.22 .22	NO NO		114 115	766 766
B 404	1		P5-H P39-LL	110 105				.22 .22	NO NO		114 115	767 767
B 405	1		P5-J P39-MM	110 105				.22 .22	NO NO		114 115	768 768
B 406	1		P5-K P39-NN	110 105				.22 .22	NO NO		114 115	769 769
B 407	1		P5-L P39-PP	110 105				.22 .22	NO NO		114 115	770 770
B 408	1		P5-P P39-GG	110 105				.22 .22	NO NO		114 115	771 771
B 409	1		P5-R P39-HH	110 105				.22 .22	NO NO		114 115	772 772
B 410	1		P5-S P39-JJ	110 105				.22 .22	NO NO		114 115	773 773

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR B		SHEET 70 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 411	1		P5-T	110				.22	NO		114		774
			P39-KK	105				.22	NO		115		774
B 412	1		P5-W	110				.22	NO		114		775
			P39-CC	105				.22	NO		115		775
B 413	1		P5-X	110				.22	NO		114		776
			P39-DD	105				.22	NO		115		776
B 414	1		P5-Y	110				.22	NO		114		777
			P39-EE	105				.22	NO		115		777
B 415	1		P5-Z	110				.22	NO		114		778
			P39-FF	105				.22	NO		115		778
B 416	1		P5-B*	110				.22	NO		114		779
			P39-Y*	105				.22	NO		115		779
B 417	1		P5-C*	110				.22	NO		114		780
			P39-Z*	105				.22	NO		115		780
B 418	1		P5-D*	110				.22	NO		114		781
			P39-AA	105				.22	NO		115		781
B 419	1		P5-E*	110				.22	NO		114		782
			P39-BB	105				.22	NO		115		782
B 420	1		P5-G*	110				.22	NO		114		783
			P39-U*	105				.22	NO		115		783
B 421	1		P5-H*	110				.22	NO		114		784
			P39-V*	105				.22	NO		115		784
B 422	1		P5-I*	110				.22	NO		114		785
			P39-W*	105				.22	NO		115		785

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 71 OF 209

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 423	1		P5-J*	110				.22	NO		114		786
			P39-X*	105				.22	NO		115		786
B 424	1		P5-R*	110				.22	NO		114		788
			P39-S*	105				.22	NO		115		788
B 425	1		P5-S*	110				.22	NO		114		789
			P39-P*	105				.22	NO		115		789
B 426	1		P5-P*	110				.22	NO		114		787
			P39-T*	105				.22	NO		115		787
B 427	1		P5-U*	110				.22	NO		114		791
			P39-Q*	105				.22	NO		114		791
B 428	1		P5-B	110				.22	NO		114		763
			P116A-19	58				.12	NO		113		763
B 429	1		P5-T*	110				.22	NO		114		790
			P116A-20	58				.12	NO		113		790
B 430	118				.52	.23				A,10	92, 94,120		
					.52	.23				A,10	92, 94,120		
B 430E			P7-D1	108				.11	NO		90,148		804
			P93-B1	130				.11	NO		90,148		804
B 430X			P7-D2	108									805
			P93-B2	130									805
B 431	118				.52	.23				A,10	92, 94,120		
					2.25	2.00				B,68	119,120		
B 431B	1		P63-CC	137				.22	NO		115		807
			SHLD B431					.25	NO				807

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 72 OF 209

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 431E			P7-F1	108				.11	NO		90,148		806
			P63-DD	137				.22	NO		115		806
B 431X			P7-F2	108									807
			SHLD B431										807
B 432	118				.52	.23				A,10	92, 94,120		
					.52	.23				A,10	92, 94,120		
B 432E			P7-A1	108				.11	NO		90,148		798
			P69-A1	136				.11	NO		90,148		798
B 432X			P7-A2	108									799
			P69-A2	136									799
B 433	118				.52	.23				A,10	92, 94,120		
					.52	.23				A,10	92, 94,120		
B 433E			P7-B1	108				.11	NO		90,148		800
			P93-A1	130				.11	NO		90,148		800
B 433X			P7-B2	108									801
			P93-A2	130									801
B 434	118				.52	.23				A,10	92, 94,120		
					2.25	2.00				B,68	119,120		
B 434B	1		P17-A*	200				.22	NO		115		803
			SHLD B434					.25	NO				803
B 434E			P7-C1	108				.11	NO		90,148		802
			P17-B*	200				.22	NO		115		802
B 434X			P7-C2	108									803
			SHLD B434										803

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 73 OF 209

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 435	9				2.25	2.00				A,7	120		
					2.25	2.00				B,68	120,121		
B 435B	1		TB9-10	96				.20	NO		74		3
			SHLD B435					.25	NO				3
B 435L			P8-E	109				.22	NO		117		3
			TB9-10	96				.20	NO		74		3
B 435R			P8-D	109				.22	NO		117		13
			TB9-7	99				.20	NO		74		13
B 436	2		P8-A	109				.22	NO		117		1
			P126F-28	30				.22	NO		138		1
B 437	1		P11-M*	250				.22	NO		114		854
			P24-R*	196				.22	NO		115		854
B 438	1		P11-K*	250				.22	NO		114		853
			P24-P*	196				.22	NO		115		853
B 439	1		P11-N*	250				.22	NO		114		855
			P24-S*	196				.22	NO		115		855
B 440	2		P11-T*	250				.22	NO		126		1
			P126F-30	30				.22	NO		138		1
B 441	1		P11-D*	250				.22	NO		114		223
			P111D-3	41				.12	NO		113		223
B 442	1		P11-E*	250				.22	NO		114		224
			P110D-29	60				.22	NO		113		224
B 443	1		P11-F*	250				.22	NO		114		222
			P111D-9	41				.12	NO		113		222

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 74 OF 209

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 500	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 500A	1		SHLD B500					.25	NO			872
			P16-J	199				.22	NO		114	872
B 500E			P16-H	199				.22	NO		114	873
			P70-B1	133				.11	NO		90,148	873
B 500X			SHLD B500									872
			P70-B2	133								872
B 501	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 501A	1		SHLD B501					.25	NO			875
			P16-L	199				.22	NO		114	875
B 501E			P16-K	199				.22	NO		114	874
			P68-B1	129				.11	NO		90,148	874
B 501X			SHLD B501									875
			P68-B2	129								875
B 502	1		P16-Y*	199				.22	NO		114	892
			P64-EE	134				.22	NO		115	892
B 503	1		P16-AA	199				.22	NO		114	893
			P64-BB	134				.22	NO		115	893
B 504	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 504A	1		SHLD B504					.25	NO			875
			P16-N	199				.22	NO		114	875

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 91 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 504E			P16-M	199				.22	NO		114	876
			P70-C1	133				.11	NO		90,148	876
B 504X			SHLD B504									875
			P70-C2	133								875
B 505	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 505A	1		SHLD B505					.25	NO			878
			P16-R	199				.22	NO		114	878
B 505E			P16-P	199				.22	NO		114	877
			P68-C1	129				.11	NO		90,148	877
B 505X			SHLD B505									878
			P68-C2	129								878
B 506	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 506A	1		SHLD B506					.25	NO			888
			P16-D*	199				.22	NO		114	888
B 506E			P16-C*	199				.22	NO		114	887
			P68-G1	129				.11	NO		90,148	887
B 506X			SHLD B506									888
			P68-G2	129								888
B 507	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 507A	1		SHLD B507					.25	NO			888
			P16-G*	199				.22	NO		114	888

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 92 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 507E			P16-F*	199				.22	NO		114	889
			P70-H1	133				.11	NO		90,148	889
B 507X			SHLD B507									888
			P70-H2	133								888
B 508	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 508A	1		SHLD B508					.25	NO			869
			P16-C	199				.22	NO		114	869
B 508E			P16-B	199				.22	NO		114	868
			P68-H1	129				.11	NO		90,148	868
B 508X			SHLD B508									869
			P68-H2	129								869
B 509	118				2.25	2.00				B,68	119,120	
					.52	.23				A,10	92, 94,120	
B 509A	1		SHLD B509					.25	NO			869
			P16-E	199				.22	NO			869
B 509E			P16-D	199				.22	NO		114	870
			P70-J1	133				.11	NO		90,148	870
B 509X			SHLD B509									869
			P70-J2	133								869
B 510	1		P16-CC	199				.22	NO		114	894A
			P115A-23	78				.12	NO		113	894A
B 511	1		P16-V	199				.22	NO			882
			P16-X	199				.22	NO		114	882

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 93 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 512	1		P16-B*	199				.22	NO			885
			P16-Z	199				.22	NO			885
B 513	1		P16-N*	199				.22	NO			891
			P17-G	200				.22	NO		115	891
B 514	1		P16-G	199				.22	NO			872
			P16-J	199				.22	NO			872
B 515	1		P16-L	199				.22	NO			875
			P16-N	199				.22	NO			875
B 516	1		P16-R	199				.22	NO			878
			P17-K*	200				.22	NO		115	878
B 517	1		P16-D*	199				.22	NO			888
			P16-G*	199				.22	NO			888
B 518	1		P16-C	199				.22	NO		114	869
			P16-E	199				.22	NO		114	869
B 519	118				2.25	2.00				B,68	119,120	
					.44	.28					120, 97, 98	
B 519A	1		SHLD B519					.25	NO			1612
			P16-S*	199				.22	NO		114	1612
B 519E			P16-R*	199				.22	NO		114	1611
			P128B-18A	1678				.22	NO		96	1611
B 519X			SHLD B519									1612
			P128B-18B	1678						B,6		1612
B 520	118				2.25	2.00				B	119,120	
					.44	.28					120, 97, 98	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 94 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 619B	1		P104D-31 SHLD B619	68				.12 .25	NO NO		113	1H 1H
B 619L			P26-I* P104D-16	194 68				.22 .12	NO NO		115 113	194A 194A
B 619R			P26-H* P104D-15	194 68				.22 .12	NO NO		115 113	192A 192A
B 620	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 620B	1		P109D-31 SHLD B620	79				.12 .25	NO NO		113	1H 1H
B 620L			P26-P P109D-20	194 79				.22 .12	NO NO		115 113	959B 959B
B 620R			P26-N P109D-19	194 79				.22 .12	NO NO		115 113	958B 958B
B 621	143				2.25 2.25	2.00 2.00				B,6A A,7	120,121 120	
B 621A	1		SHLD B621 E313-B	195A				.25 .25	NO NO			1H 1H
B 621L			P26-B P37-KK	194 251				.22 .22	NO NO		115 115	1401 1401
B 621R			P26-A P37-LL	194 251				.22 .22	NO NO		115 115	1400 1400
B 621Y			P26-C P37-JJ	194 251				.22 .22	NO NO		115 115	1402 1402

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 111 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 622	1		P26-BB P110A-19	194 63				.22 .12	NO NO		115 113	1425A 1425A
B 623	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 623B	1		E300-B SHLD B623	43				.25 .25	NO NO			2U 2U
B 623L			P26-X P108A-18	194 46				.22 .12	NO NO		115 113	162A 162A
B 623R			P26-W P108A-17	194 46				.22 .12	NO NO		115 113	161A 161A
B 625	1		P26-U* P102A-1	194 50				.22 .12	NO NO		115 113	1637A 1637A
B 626	1		P27-H* P48-R*	185 169				.22 .22	NO NO		115 115	1572 1572
B 627	1		P27-I* P48-S*	185 169				.22 .22	NO NO		115 115	1571 1571
B 628	1		P27-J* P48-R	185 169				.22 .22	NO NO		115 115	1570 1570
B 629	1		P27-K* P48-S	185 169				.22 .22	NO NO		115 115	1569 1569
B 630	1		P27-M* P48-V	185 169				.22 .22	NO NO		115 115	1568 1568
B 631	1		P27-N* P48-W	185 169				.22 .22	NO NO		115 115	1567 1567

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 112 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 632	1		P27-P* P48-Q*	185 169				.22 .22	NO NO		115 115	1576 1576
B 633	1		P27-Q* P48-DD	185 169				.22 .22	NO NO		115 115	1573 1573
B 634	1		P27-T* P48-M*	185 169				.22 .22	NO NO		115 115	1574 1574
B 635	1		P27-U* P48-P*	185 169				.22 .22	NO NO		115 115	1575 1575
B 636	118				2.25 .44	2.00 .28				B,6B	119,120 120, 97, 98	
B 636A	1		SHLD B636 P27-W*	185				.25 .22	NO NO		115	1659 1659
B 636E			P27-V* P128A-19A	185 171				.22 .22	NO NO		115 96	1658 1658
B 636X			SHLD B636 P128A-19B	171								1659 1659
B 637	1		P27-JJ P130B-3	185 179B				.22 .12	NO NO		115 113	924 924
B 638	1		P27-LL P48-HH	185 169				.22 .22	NO NO		115 115	1732 1732
B 639	1		P27-MM P48-PP	185 169				.22 .22	NO NO		115 115	1733 1733
B 640	1		P27-NN P130D-1	185 179D				.22 .12	NO NO		115 113	996 996

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 113 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 641	1		P27-PP P31-LL	185 191				.22 .22	NO NO		115 115	1500 1500
B 642	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 642B	1		E323-B SHLD B642	128				.25 .25	NO NO			1H 1H
B 642L			P28-C P65-M*	113 131				.22 .22	NO NO		115 115	965 965
B 642R			P28-B P65-M	113 131				.22 .22	NO NO		115 115	964 964
B 643	1		P28-D P103D-32	113 84				.22 .12	NO NO		115 138	2U 2U
B 644	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 644B	1		E334-B SHLD B644	56				.25 .25	NO NO			1H 1H
B 644L			P29-C P116A-26	111 58				.22 .12	NO NO		115 113	967A 967A
B 644R			P29-B P116A-25	111 58				.22 .12	NO NO		115 113	966A 966A
B 645	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 645B	1		E334-B SHLD B645	56				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 114 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 792B	1		TB6-2	236				.20	NO		74	3
			SHLD B792					.25	NO			3
B 792L			P37-F*	251				.22	NO		115	3
			TB6-2	236			6.00	.20	NO		74	3
B 792R			P37-G*	251				.22	NO		115	896
			TB5-8	234				.20	NO		144	896
B 793	2		P37-GG	251				.22	NO		127	1
			TB8-8	246				.20	NO		74	1
B 794	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,119	
B 794B	1		P103D-32	84				.12	NO			2
			SHLD B794					.25	NO			2
B 794L			P37-X	251				.22	NO		115	352
			P103D-26	84				.12	NO		113	352
B 794R			P37-Y	251				.22	NO		115	351
			P103D-25	84				.12	NO		113	351
B 795	10				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,119	
B 795B	1		P120D-32	33				.12	NO		138	2
			SHLD B795					.22	NO			2
B 795L			P37-V	251				.22	NO		115	337
			P120D-16	33				.12	NO		113	337
B 795R			P37-U	251				.22	NO		115	338
			P120D-15	33				.12	NO		113	338

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B
SHEET 135 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 797	10				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,119	
B 797B	1		P120D-32	33				.12	NO			2
			SHLD B797					.25	NO			2
B 797L			P37-T	251				.22	NO		115	339
			P120D-18	33				.12	NO		113	339
B 797R			P37-S	251				.22	NO		115	340
			P120D-17	33				.12	NO		113	340
B 799	1		P37-FF	251				.22	NO		115	1048
			P99-HH	186				.22	NO		115	1048
B 800	1		P37-N	251				.22	NO		115	173
			P120D-3	33				.12	NO		113	173
B 801	1		P37-P	251				.22	NO		115	174
			P120D-4	33				.12	NO		113	174
B 802	1		P37-W	251				.22	NO		115	587
			P129E-15	23E				.12	NO		113	587
B 803	9				2.25	2.00				B,6A	120,121	
					2.25	2.00				A,7	120	
B 803A	1		SHLD B803					.25	NO			1
			E338-B	8				.25	NO			1
B 803L			J19-S*	7				.22	NO		126	5
			P37-G	251				.22	NO		127	5
B 803R			J19-A	7				.22	NO		126	4
			P37-J	251				.22	NO		127	4

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B
SHEET 136 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 805	9				2.25	2.00				B,6A	120,121	
					2.25	2.00				A,7	120	
B 805A	1		SHLD B805					.25	NO			1
			E338-B	8				.25	NO			1
B 805L			J19-T*	7				.22	NO		126	7
			P37-H	251				.22	NO		127	7
B 805R			J19-B	7				.22	NO		126	6
			P37-F	251				.22	NO		127	6
B 807	3		P37-B*	251				.22	NO		115	902
			P129E-21	23E				.12	NO		113	902
B 808	1		P37-EE	251				.22	NO		115	1029
			P130F-5	22F				.12	NO		113	1029
B 809	9				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,121	
B 809B	1		TB9-10	96				.20	NO		74	3
			SHLD B809					.25	NO			3
B 809L			P38-E	104				.22	NO		117	3
			TB9-10	96				.20	NO		74	3
B 809R			P38-D	104				.22	NO		117	13
			TB9-7	99				.20	NO		74	13
B 810	2		P38-A	104				.22	NO		117	1
			P126E-27	31				.22	NO		138	1
B 811	3		P38-F	104				.22	NO		117	1049
			P63-X*	137				.22	NO		115	1049

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B
SHEET 137 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 812	3		P38-G	104				.22	NO		117	1050
			P63-Y*	137				.22	NO		115	1050
B 813	3		P38-H	104				.22	NO		117	1051
			P63-W*	137				.22	NO		115	1051
B 814	1		P38-C	104				.22	NO		117	1
			TB9-2	102				.20	NO		74	1
B 815	1		P39-A	105				.22	NO		115	1052
			P64-B	134				.22	NO		115	1052
B 816	1		P39-B	105				.22	NO		115	1053
			P64-C	134				.22	NO		115	1053
B 817	1		P39-S	105				.22	NO		115	1067
			P64-U	134				.22	NO		115	1067
B 818	1		P39-T	105				.22	NO		115	1068
			P64-V	134				.22	NO		115	1068
B 819	1		P39-C	105				.22	NO		115	1054
			P64-N	134				.22	NO		115	1054
B 820	1		P39-D	105				.22	NO		115	1055
			P64-D	134				.22	NO		115	1055
B 821	1		P39-E	105				.22	NO		115	1056
			P64-E	134				.22	NO		115	1056
B 822	1		P39-F	105				.22	NO		115	1057
			P64-F	134				.22	NO		115	1057
B 823	1		P39-G	105				.22	NO		115	1058
			P64-G	134				.22	NO		115	1058

SIZE A
CODE IDENT NO. 99974
2901465
SCALE-NONE
REV LTR B
SHEET 138 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 872	1		P40-M* P65-CC	106 131				.22 .22	NO NO		115 115	1109 1109
B 873	1		P40-T* P64-R	106 134				.22 .22	NO NO		115 115	1115 1115
B 874	1		P40-B* P47-J*	106 115				.22 .22	NO NO		115 114	1099 1099
B 875	1		P40-U* P47-N*	106 115				.22 .22	NO NO		115 114	1116 1116
B 876	1		P40-V* P47-F*	106 115				.22 .22	NO NO		115 114	1117 1117
B 877	1		P40-W* P47-G*	106 115				.22 .22	NO NO		115 114	1118 1118
B 878	1		P40-X* P47-K*	106 115				.22 .22	NO NO		115 114	1119 1119
B 879	1		P40-Y* P47-W	106 115				.22 .22	NO NO		115 114	1120 1120
B 880	1		P40-Z* P47-X	106 115				.22 .22	NO NO		115 114	1121 1121
B 881	1		P40-AA P47-Z	106 115				.22 .22	NO NO		115 114	1122 1122
B 882	1		P40-BB P47-A*	106 115				.22 .22	NO NO		115 114	1123 1123
B 883	1		P40-CC P47-M	106 115				.22 .22	NO NO		115 114	1124 1124

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 143 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 884	1		P40-DD P47-P	106 115				.22 .22	NO NO		115 114	1125 1125
B 885	1		P40-EE P47-S	106 115				.22 .22	NO NO		115 114	1126 1126
B 886	1		P40-FF P47-V	106 115				.22 .22	NO NO		115 114	1127 1127
B 887	1		P40-GG P47-H	106 115				.22 .22	NO NO		115 114	1128 1128
B 888	1		P40-HH P47-J	106 115				.22 .22	NO NO		115 114	1129 1129
B 889	1		P40-JJ P47-K	106 115				.22 .22	NO NO		115 114	1130 1130
B 890	1		P40-KK P47-L	106 115				.22 .22	NO NO		115 114	1131 1131
B 891	1		P40-LL P47-B	106 115				.22 .22	NO NO		115 114	1132 1132
B 892	1		P40-MM P47-C	106 115				.22 .22	NO NO		115 114	1133 1133
B 893	1		P40-NN P47-D	106 115				.22 .22	NO NO		115 114	1134 1134
B 894	1		P40-PP P47-F	106 115				.22 .22	NO NO		115 114	1135 1135
B 895	1		P40-N* P47-B*	106 115				.22 .22	NO NO		115 114	1110 1110

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 144 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 896	1		P40-P* P47-C*	106 115				.22 .22	NO NO		115 114	1111 1111
B 897	1		P40-Q* P47-D*	106 115				.22 .22	NO NO		115 114	1112 1112
B 898	1		P40-R* P47-E*	106 115				.22 .22	NO NO		115 114	1113 1113
B 899	1		P40-S* P47-M*	106 115				.22 .22	NO NO		115 114	1114 1114
B 900	1		P41-A P116D-19	107 55				.22 .12	NO NO		115 113	763 763
B 901	7				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 901A	1		SHLD B901 E323-B	 128				.25 .25	NO NO			1 1
B 901L			P46-C P65-K*	117 131				.22 .22	NO NO		 115	1143 1143
B 901R			P46-B P65-K	117 131				.22 .22	NO NO		115 115	1142 1142
B 902	1		P47-U P63-AA	115 137				.22 .22	NO NO		114 115	1145 1145
B 903	1		P47-Y P63-Z*	115 137				.22 .22	NO NO		114 115	1146 1146
B 904	1		P47-T P63-BB	115 137				.22 .22	NO NO		114 115	1144 1144

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 145 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 905	2		P48-A P126E-23	169 31				.22 .22	NO NO		127 138	1 1
B 906	1		P48-P P129D-27	169 1740				.22 .12	NO NO		115 113	1579 1579
B 907	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 907B	1		E326-B SHLD B907	66				.25 .25	NO NO			2 2
B 907L			P48-U P107A-2	169 65				.22 .12	NO NO		115 113	122 122
B 907R			P48-T P107A-1	169 65				.22 .12	NO NO		115 113	121 121
B 908	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 908B	1		E337-B SHLD B908	82				.25 .25	NO NO			2 2
B 908L			P48-Y P106A-26	169 83				.22 .12	NO NO		115 113	120 120
B 908R			P48-X P106A-25	169 83				.22 .12	NO NO		115 113	119 119
B 909	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 909B	1		E337-B SHLD B909	82				.25 .25	NO NO			2 2

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 146 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1040	1		P64-CC P115A-21	134 78				.22 .12	NO NO		115 113	898A 898A
B 1041	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1041B	1		E306-B SHLD B1041	57				.25 .25	NO NO			2L 2L
B 1041L			P65-F* P116A-24	131 58				.22 .12	NO NO		115 113	1200A 1200A
B 1041R			P65-F P116A-23	131 58				.22 .12	NO NO		115 113	1192A 1192A
B 1042	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1042B	1		E334-B SHLD B1042	56				.25 .25	NO NO			1H 1H
B 1042L			P65-C* P116A-28	131 58				.22 .12	NO NO		115 113	967A 967A
B 1042R			P65-C P116A-27	131 58				.22 .12	NO NO		115 113	966A 966A
B 1043	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1043B	1		E306-B SHLD B1043	57				.25 .25	NO NO			2L 2L
B 1043L			P65-G* P116A-12	131 58				.22 .12	NO NO		115 113	969A 969A

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 171 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1043R			P65-G P116A-11	131 58				.22 .12	NO NO		115 113	968A 968A
B 1044	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1044B	1		E306-B SHLD B1044	57				.25 .25	NO NO			2L 2L
B 1044L			P65-E* P116A-16	131 58				.22 .12	NO NO		115 113	912A 912A
B 1044R			P65-E P116A-15	131 58				.22 .12	NO NO		115 113	911A 911A
B 1045	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1045B	1		E306-B SHLD B1045	57				.25 .25	NO NO			2L 2L
B 1045L			P65-D* P116A-22	131 58				.22 .12	NO NO		115 113	1199A 1199A
B 1045R			P65-D P116A-21	131 58				.22 .12	NO NO		115 113	1191A 1191A
B 1046	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 1046B	1		E323-B SHLD B1046	128				.25 .25	NO NO			1H 1H
B 1046L			P65-N* P71-K	131 93				.22 .22	NO NO		115 115	1201 1201

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 172 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1046R			P65-N P71-J	131 93				.22 .22	NO NO		115 115		1193 1193
B 1047	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119		
B 1047A	1		E323-B SHLD B1047	128				.25 .25	NO NO				1H 1H
B 1047L			P65-P* P71-M	131 93				.22 .22	NO NO		115 115		1202 1202
B 1047R			P65-P P71-L	131 93				.22 .22	NO NO		115 115		1194 1194
B 1048	1		P65-DD P71-E*	131 93				.22 .22	NO NO		115 115		1206 1206
B 1049	1		P65-EE P71-D*	131 93				.22 .22	NO NO		115 115		1207 1207
B 1050	3		P65-A E337-B	131 82				.22 .25	NO NO		115		2L 2L
B 1051	3		P65-X TB1-1	131 161				.22 .20	NO NO		115 144		274A 274A
B 1052	3		P65-Y TB2-1	131 158				.22 .20	NO NO		115 74		1J 1J
B 1053	3		P65-Z TB3-1	131 150				.22 .20	NO NO		115 144		273A 273A
B 1054	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 173 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1054B	1		E337-B SHLD B1054	82				.25 .25	NO NO			2L 2L
B 1054L			P65-W* P106A-24	131 83				.22 .12	NO NO		115 113	1208 1208
B 1054R			P65-V* P106A-23	131 83				.22 .12	NO NO		115 113	119A 119A
B 1055	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1055B	1		E326-B SHLD B1055	66				.25 .25	NO NO			2L 2L
B 1055L			P65-Y* P107A-4	131 65				.22 .12	NO NO		115 113	1220 1220
B 1055R			P65-X* P107A-3	131 65				.22 .12	NO NO		115 113	1210 1210
B 1056	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1056B	1		E337-B SHLD B1056	82				.25 .25	NO NO			2L 2L
B 1056L			P65-A* P106A-30	131 83				.22 .12	NO NO		115 113	1308 1308
B 1056R			P65-Z* P106A-29	131 83				.22 .12	NO NO		115 113	129A 129A
B 1057	118				2.25 .44	2.00 .28				B,6B	119,124,120 120, 97, 98	

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 174 OF 209

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1070X			P69-J2 P127C-4B	136 166								232A 232A
B 1071	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1071E			P70-A1 P127C-6A	133 166				.11 .22	NO NO		90,148 96	235 235
B 1071X			P70-A2 P127C-6B	133 166								236 236
B 1072	3		P90-E P129B-32	21 174B				.20 .12	YES NO		138	2 2L
B 1073	3		P90-I P129B-32	21 174B				.20 .12	YES NO			2L 2L
B 1074	9				2.25 2.25	2.00 2.00				B,6A A,7	120,121 120	
B 1074A	1		SHLD B1074 E335-B	 22				.25 .25	NO NO			1H 1H
B 1074L			P90-F P99-N*	21 186				.20 .22	YES NO		 127	1376 1376
B 1074R			P90-G P99-M*	21 186				.20 .22	YES NO		 127	1377 1377
B 1075	2		P90-H P126F-32	21 30				.20 .22	YES NO		 138	1 1
B 1076	3		P91-Z E336-B	173 59				.22 .25	NO NO		115	2 2L

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1077	2		P91-A P126F-23	173 30				.22 .22	NO NO		127 138	1 1
B 1078	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1078B	1		P106D-32 SHLD B1078	80				.12 .25	NO NO		138	2 2L
B 1078L			P91-B* P106D-24	173 80				.22 .12	NO NO		115 113	120 120
B 1078R			P91-B P106D-23	173 80				.22 .12	NO NO		115 113	119A 119A
B 1079	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 1079B	1		P106D-32 SHLD B1079	80				.12 .25	NO NO			2L 2L
B 1079L			P91-F* P106D-30	173 80				.22 .12	NO NO		115 113	130 130
B 1079R			P91-F P106D-29	173 80				.22 .12	NO NO		115 113	129A 129A
B 1080	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1080B	1		E304-B SHLD B1080	62				.25 .25	NO NO			2L 2L
B 1080L			P91-D* P107D-2	173 64				.22 .12	NO NO		115 113	122 122

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1080R			P91-D P107D-1	173 64				.22 .12	NO NO		115 113	121 121
B 1081	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1081B	1		E336-B SHLD B1081	59				.25 .25	NO NO			2L 2L
B 1081L			P91-H* P110D-12	173 60				.22 .12	NO NO		115 113	140A 140A
B 1081R			P91-H P110D-11	173 60				.22 .12	NO NO		115 113	139A 139A
B 1082	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1082B	1		E336-B SHLD B1082	59				.25 .25	NO NO			2L 2L
B 1082L			P91-M* P110D-16	173 60				.22 .12	NO NO		115 113	142A 142A
B 1082R			P91-M P110D-15	173 60				.22 .12	NO NO		115 113	141A 141A
B 1083	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1083B	1		E336-B SHLD B1083	59				.25 .25	NO NO			2L 2L
B 1083L			P91-P* P110D-18	173 60				.22 .12	NO NO		115 113	144A 144A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1083R			P91-P P110D-17	173 60				.22 .12	NO NO		115 113	143A 143A
B 1084	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1084B	1		E316-B SHLD B1084	34				.25 .25	NO NO			1H 1H
B 1084L			P91-W* P117D-6	173 35				.22 .12	NO NO		115 113	748A 748A
B 1084R			P91-W P117D-5	173 35				.22 .12	NO NO		115 113	746A 746A
B 1085	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1085B	1		E316-B SHLD B1085	34				.25 .25	NO NO			1H 1H
B 1085L			P91-V* P117D-10	173 35				.22 .12	NO NO		115 113	757A 757A
B 1085R			P91-V P117D-9	173 35				.22 .12	NO NO		115 113	755A 755A
B 1086	1		P92-W P99-K*	183 186				.22 .22	NO NO		115 115	1379 1379
B 1087	3		P92-N* E300-B	183 43				.22 .25	NO NO		115	2L 2L
B 1088	1		P92-B P106D-21	183 80				.22 .12	NO NO		115 113	133A 133A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1107	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,119	
B 1107B	1		P110A-31	63				.12	NO		113	1
			SHLD B1107					.25	NO			1
B 1107L			P96-D*	182				.22	NO		115	827
			P110A-10	63				.12	NO		113	827
B 1107R			P96-E*	182				.22	NO		115	826
			P110A-9	63				.12	NO		113	826
B 1108	1		P96-M*	182				.22	NO		115	1216
			P118A-11	75				.12	NO		113	1216
B 1109	1		P96-N*	182				.22	NO		115	1217
			P118A-12	75				.12	NO		113	1217
B 1110	1		P98-F	187				.22	NO		115	498
			P108A-1	46				.12	NO		113	498
B 1111	1		P98-U*	187				.22	NO		115	723
			P129B-12	174B				.12	NO		113	723
B 1112	1		P99-F*	186				.22	NO		115	1375
			TB4-2	225				.20	NO		144	1375
B 1113	1		P99-S	186				.22	NO		115	1374
			TB4-10	227				.20	NO		144	1374
B 1114	1		P99-P*	186				.22	NO		115	2
			P122D-32	51				.12	NO		138	2
B 1115	1		P99-K	186				.22	NO		115	741
			P129B-3	174B				.12	NO		113	741

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1116	1		P99-Z	186				.22	NO		115	516
			P130A-9	179A				.12	NO		113	516
B 1121	1		P25-NN	195				.22	NO		115	1647
			P27-HH	185				.22	NO		115	1647
B 1122	1		P31-F*	191				.22	NO		115	1645
			P129E-23	23E				.12	NO		113	1645
B 1129	118				.44	.28					128,131,120	
					.44	.28					120, 97, 98	
B 1129E			P60-1A	122				.28	NO		132	1155
			P128C-6A	167C				.22	NO		96	1155
B 1129X			P60-1B	122								1156
			P128C-6B	167C								1156
B 1130	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,121	
B 1130B	1		E332-1	73				.25	NO			1
			SHLD B1130					.25	NO			1
B 1130L			P62-31	125				.19	NO		134	1372
			P121A-20	74				.12	NO		113	1372
B 1130R			P62-15	125				.19	NO		134	1371
			P121A-19	74				.12	NO		113	1371
B 1140	1		P71-T*	93				.22	NO		115	2
			P118A-32	75				.12	NO		113	2
B 1141	1		P36-R	181				.22	NO		115	548
			P99-C	186				.22	NO		115	548

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1142	1		P99-D	186				.22	NO		115	898
			P130A-1	179A				.12	NO		113	898
B 1143	1		P99-U	186				.22	NO		115	743
			P129B-7	174B				.12	NO		113	743
B 1144	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,119	
B 1144B	1		P122D-32	51				.12	NO			2
			SHLD B1144					.25	NO			2
B 1144L			P99-X*	186				.22	NO		115	1629
			P122D-6	51				.12	NO		113	1629
B 1144R			P99-Y*	186				.22	NO		115	1628
			P122D-5	51				.12	NO		113	1628
B 1145	1		J21-T	2				.22	NO		114	545
			P99-GG	186				.22	NO		115	545
B 1150	1		P92-C	183				.22	NO		115	1328
			P105D-1	47				.12	NO		113	1328
B 1156	1		P115D-29	77				.12	NO		113	952
			TB5-1	228				.20	NO		144	952
B 1157	1		P116D-5	55				.12	NO		113	951
			TB5-4	231				.20	NO		144	951
B 1165	1		P108D-2	45				.12	NO		113	1
			TB8-8	208				.20	NO		74	1
B 1166	2		P110D-2	60				.22	NO		138	1
			TB8-7	209				.20	NO		74	1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1167	1		P110D-20	60				.12	NO		113		1
			TB8-6	210				.20	NO		74		1
B 1170	1		P114D-5	37				.12	NO		113		273
			TB3-2	151				.20	NO		144		273
B 1171	1		P114D-3	37				.12	NO		113		274
			TB1-2	162				.20	NO		144		274
B 1173	1		P114D-6	37				.12	NO		113		1
			TB2-2	159				.20	NO		74		1
B 1174	3		P115D-27	77				.12	NO		113		538
			TB7-9	217				.20	NO		74		538
B 1176	1		P115D-28	77				.12	NO		113		1
			TB8-9	207				.20	NO		74		1
B 1177	3		P115D-21	77				.12	NO		113		898
			P130E-1	22E				.12	NO		113		898
B 1178	1		P115D-30	77				.12	NO		113		3
			TB6-5	239				.20	NO		74		3
B 1180	1		TB5-2	229				.20	NO		144		950
			P116D-3	55				.12	NO		144		950
B 1187	3		E301-BB	39				.25	NO				2
			P108D-32	45				.12	NO		138		2
B 1188	3		E302-BB	40				.25	NO				2
			P108D-32	45				.12	NO				2
B 1189	3		E303-BB	16				.25	NO				2
			P105D-32	47				.12	NO		138		2

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1239	1		P118A-22	75				.12	NO		113		201A
			P36-A	181				.22	NO		115		201A
B 1240	2		J30-10	90				.19	NO		135		274A
			TB1-1	164				.25	NO		144		274A
B 1241	2		J30-12	90				.19	NO		135		1J
			TB2-1	158				.25	NO		74		1J
B 1242	2		J30-11	90				.19	NO		135		273A
			TB3-1	153				.25	NO		144		273A
B 1243	3		J19-C	7				.22	NO		114		924
			P130A-3	179				.12	NO		113		924
B 1244	3		J27-F	1				.22	NO		114		1745
			P26-J	194				.22	NO		115		1745
→ B 1245	118				.44	.28					128,131,120		←
					.44	.28					128,129,120		
B 1245E			J29-7A	92				.28	NO		130		1817
			P60-46A	122				.28	NO		132		1817
B 1245X			J29-7B	92									1818
			P60-46B	122									1818
B 1246	3		P35-NN	184				.22	NO		115		1823
			P130A-11	179				.12	NO		113		1823
B 1247	3		J21-Y	2				.22	NO		115		1823
			P130E-11	22				.12	NO		113		1823
B 1248	3		P35-MM	184				.22	NO		115		1824
			J21-I*	2				.22	NO		115		1824

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 195 OF 209

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WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 1249	3		P35-LL	184				.22	NO		115		1825
			J21-Z	2				.22	NO		115		1825
B 1250	3		P25-M*	195				.22	NO		115		1826
			J17-E*	15				.22	NO		114		1826
B 1251	3		P25-J*	195				.22	NO		115		1827
			J17-F*	15				.22	NO		114		1827
B 1252	3		P25-H*	195				.22	NO		115		1828
			J17-G*	15				.22	NO		114		1828
B 1254	3		P25-K*	195				.22	NO		115		1830
			J17-P*	15				.22	NO		114		1830
B 1255	3		P25-P*	195				.22	NO		115		1831
			J17-Q*	15				.22	NO		114		1831
→ B 1256	3		P25-R*	195				.22	NO		115		1832 ←
			J17-R*	15				.22	NO		114		1832
B 1257	3		P25-Q*	195				.22	NO		115		1833
			J17-S*	15				.22	NO		114		1833
B 1258	3		P25-S*	195				.22	NO		115		1834
			J17-X*	15				.22	NO		114		1834
B 1259	3		P25-N*	195				.22	NO		115		1835
			J17-Y*	15				.22	NO		114		1835
B 1260	3		P25-F*	195				.22	NO		115		1836
			J17-AA	15				.22	NO		114		1836
B 1261	3		P25-G*	195				.22	NO		115		1837
			J17-BB	15				.22	NO		114		1837

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 196 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1262	3		P11-W*	250				.22	NO		114		1823
			P130B-11	179				.12	NO		113		1823
B 1263	1		P99-C	186				.22	NO		115		548
			P31-K	191				.22	NO		115		548
B 1264	1		P27-Y	185				.22	NO		115		1846
			P26-T*	194				.22	NO		115		1846
B 1265	3		P46-E	117				.22	NO		115		1143A
			P46-C	117				.22	NO		127		1143A
B 1266	118				.44	.28				A,10	92, 94,120		
					4.00	3.75				B,6B	119,124,120		
B 1266B	1		P119A-24	54				.12	NO		113		1663A
			SHLD B1266					.25	NO				1663A
→ B 1266E			P60-54A	122				.28	NO		90		1662A ←
			P119A-23	54				.12	NO		113		1662A
B 1266X			P60-54B	122									1663A
			SHLD B1266										1663A
B 1267	118				.44	.28				A,10	92, 94,120		
					4.00	3.75				B,6B	119,124,120		
B 1267B	1		P119A-22	54				.12	NO		113		1661A
			SHLD B1267					.25	NO				1661A
B 1267E			P60-55A	122				.28	NO		90		1660A
			P119A-21	54				.12	NO		113		1660A
B 1267X			P60-55B	122									1661A
			SHLD B1267										1661A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 197 OF 209

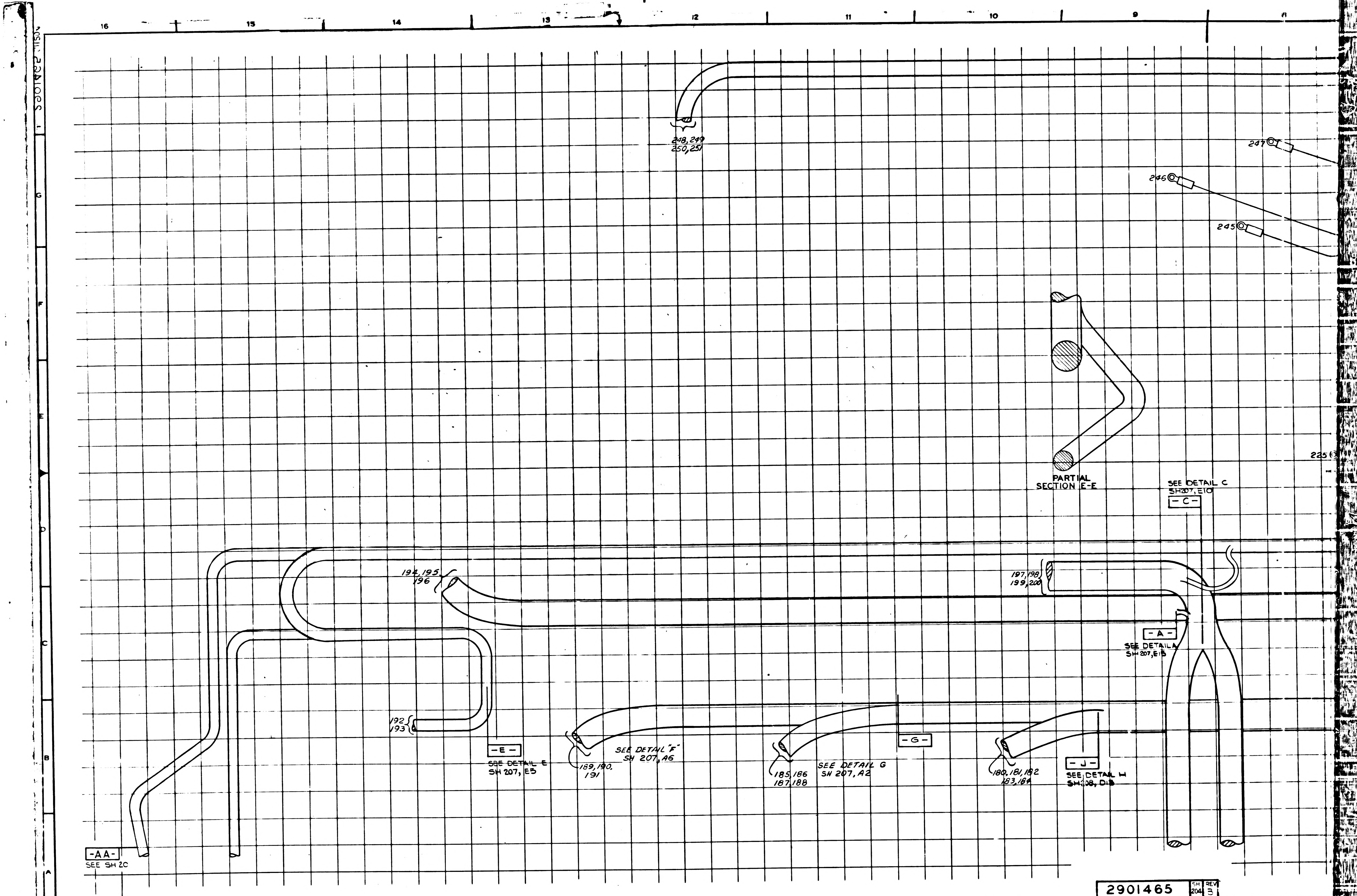
MIL [illegible]

WIRING HARNESS B 2901465 B *

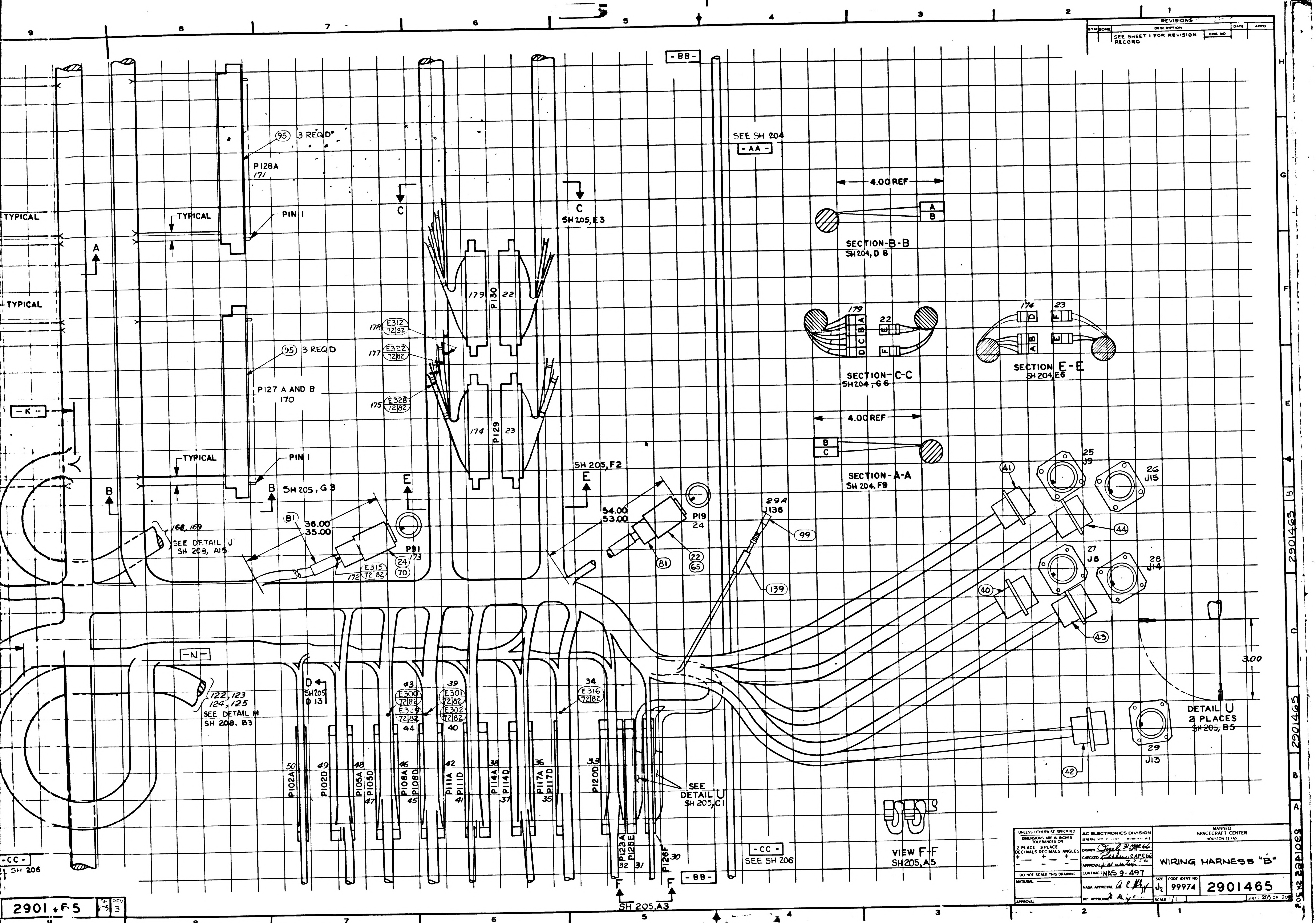
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1268	1		J25-M*	6				.22	NO		115		1042B
			P110A-1	63				.12	NO		113		1042B
B 1269	1		J21-S*	2				.22	NO		115		1845
			P96-V	182				.22	NO		115		1845
B 1270	1		J18-AA	12				.22	NO				1633
			P115D-13	16				.12	NO		113		1633
B 1271	1		P24-B*	196				.22	NO		115		1657
			P115D-7	16				.12	NO		113		1657
B 1272	1		P130E-7	179B				.12	NO		113		939
			P115D-8	16				.12	NO		113		939
B 1273	1		P61-52	123				.19	NO		134		1847
			P122A-7	23				.12	NO		113		1847
→ B 1274	1		E339BB	8A				.25	NO				1672 ←
			P105D-5	45				.12	NO		113		1672
B 1275	2		E339B	8A				.25	NO				1672
			J19-E*	7				.22	NO		126		1672
B 1276	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,119		
B 1276B	1		E331-B	69				.25	NO				1H
			SHLD B1276					.25	NO				1H
B 1276L			P20-P*	201				.22	NO		115		435A
			P104A-12	70				.12	NO		113		435A
B 1276R			P20-Q*	201				.22	NO		115		434A
			P104A-11	70				.12	NO		113		434A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 198 OF 209

MIL 2084 9-65


16
15
14
13
12
11
10
9
248,249
250,251
247
246
245
225
PARTIAL
SECTION E-E
SEE DETAIL C
SH207, E10
-C-
194,195
196
197,198
199,200
-A-
SEE DETAIL A
SH 207, E13
192
193
-E-
SEE DETAIL E
SH 207, E5
SEE DETAIL "F"
SH 207, A6
189,190,
191
185,186
187,188
SEE DETAIL G
SH 207, A2
-G-
180,181,182
183,184
-J-
SEE DETAIL H
SH208, D13
-AA-
SEE SH 2C
G
F
E
D
C
B
A
8

2901465 SH 204 REV 3



5
9
8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
- BB -
SEE SH 204
- AA -
95 3 REQ'D
P128A
171
TYPICAL
TYPICAL
PIN 1
A
TYPICAL
C
C
SH 205, E3
4.00 REF
A
B
SECTION-B-B
SH 204, D 8
179
130
22
P130
179
D C B A
22
E
F
SECTION-C-C
SH 204, G 6
174
23
D
F
A B
E
SECTION E-E
SH 204, E6
178 E312 72 82
177 E322 72 82
175 E328 72 82
95 3 REQ'D
P127 A AND B
170
- K -
174
P129
23
4.00 REF
B
C
SECTION-A-A
SH 204, F9
TYPICAL
PIN 1
B
B SH 205, G 8
E
SH 205, F2
E
168, 169
SEE DETAIL "J"
SH 208, A15
81
36.00
35.00
P91
173
24
70
E315 72 82
172
54.00
53.00
P19
24
81
22
65
29A
1138
99
139
41
25
J9
26
J15
44
27
J8
28
J14
40
43
3.00
- N -
122, 123
124, 125
SEE DETAIL M
SH 208, B3
D
SH205
D 13
43
E300 72 82
E329 72 82
44
39
E301 72 82
E302 72 82
40
34
E316 72 82
50
P102A
49
P102D
48
P105A
P105D
47
46
P108A
P108D
45
42
P111A
P111D
41
38
P114A
P114D
37
36
P117A
P117D
35
33
P120D
P123A
32
P126E
31
P126F
30
SEE
DETAIL U
SH 205, C1
DETAIL U
2 PLACES
SH 205, B5
29
J13
42
VIEW F-F
SH 205, A5
- CC -
SEE SH 206
- CC -
SH 206
- BB -
F
F
SH 205, A3
2901465
SH 205
REV 3
2901465
2901465

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Ozzel 31 MAR 66 DATE
CHECKED Zeslen 12 APR 66
APPROVAL 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

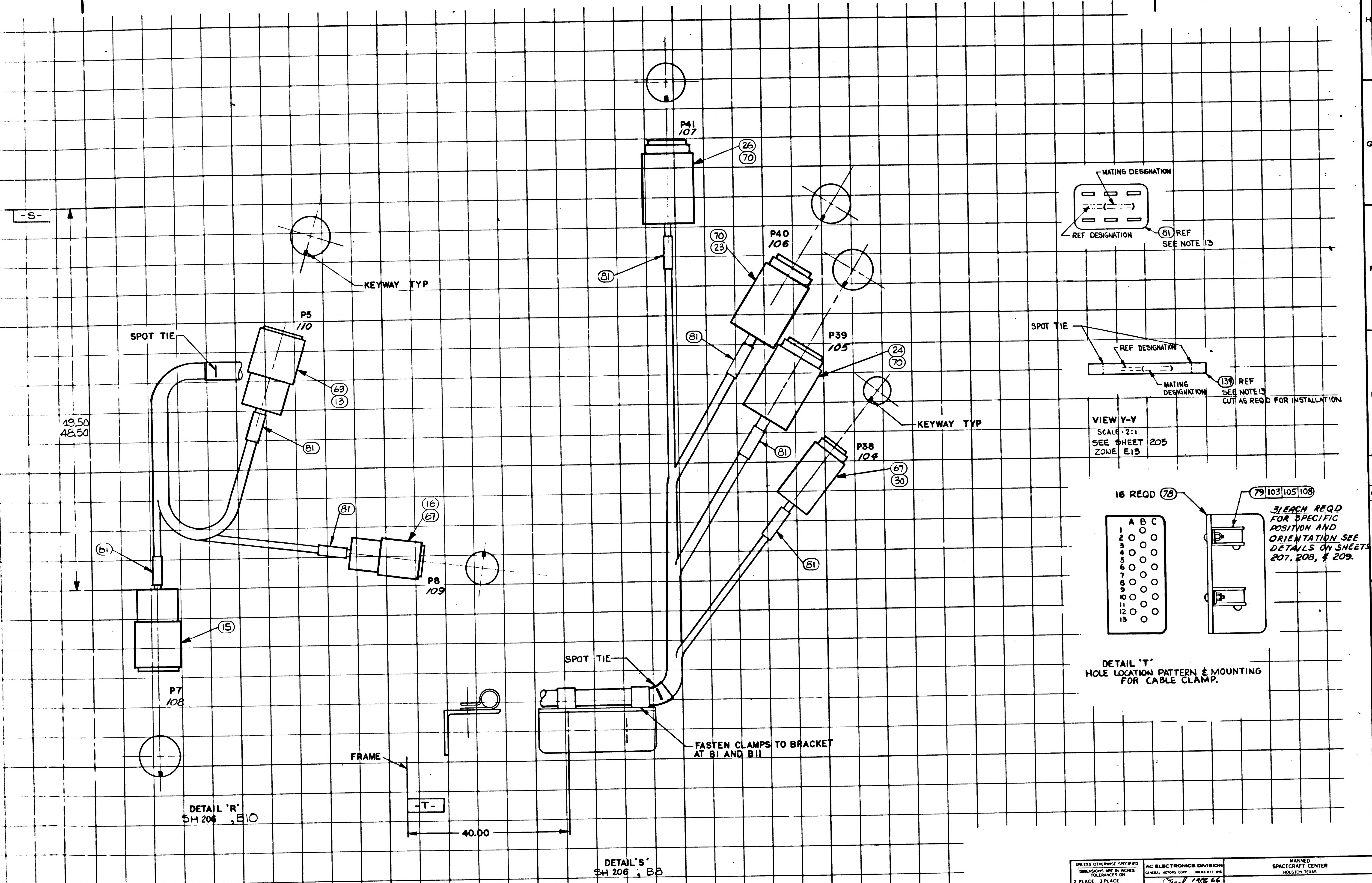
MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS "B"

SIZE J2 CODE IDENT NO 99974 2901465
SCALE 1/1 SHEET 205 OF 205

2/2901465

SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD		


-S-
19.50
48.50
KEYWAY TYP
SPOT TIE
P5
110
69
13
81
81
16
67
P8
109
61
15
P7
108
DETAIL 'R'
SH 205 , B10
FRAME
-T-
40.00
DETAIL'S'
SH 206 , B8
SPOT TIE
FASTEN CLAMPS TO BRACKET AT B1 AND B11
P41
107
26
70
81
70
23
P40
106
81
P39
105
24
70
KEYWAY TYP
81
P38
104
67
30
81
MATING DESIGNATION
REF DESIGNATION
81 REF
SEE NOTE 13
SPOT TIE
REF DESIGNATION
MATING DESIGNATION
139 REF
SEE NOTE 13
CUT AS REQD FOR INSTALLATION
VIEW Y-Y
SCALE 2:1
SEE SHEET 205
ZONE E13
16 REQD 78
79 103 105 108
31 EACH REQD FOR SPECIFIC POSITION AND ORIENTATION SEE DETAILS ON SHEETS 207, 208, & 209.
A B C
1 2 3 4 5 6 7 8 9 10 11 12 13
DETAIL 'T'
HOLE LOCATION PATTERN & MOUNTING FOR CABLE CLAMP.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + — − — 3 PLACE DECIMALS + — − — ANGLES + — − —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN Orzel DATE 1 APR 66 CHECKED Keeler 12 APR 66 APPROVAL M. Matson 5-5-66 CONTRACT NAS 9-497	WIRING HARNESS "B"
MATERIAL —	NASA APPROVAL	SIZE J2 · CODE IDENT NO 99974 · 2901465
APPROVAL	MIT APPROVAL 5/12/66	SCALE 1:1 · SHEET 209 OF 209

2901465 SH 209

1465

2/2901465

(CONT.) J31 (P4) CONNECTOR 1015317-500 FIGURE 10A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J31-R	XDS22-C	B 17	ISS STANDBY LO		
J31-S	XDS22-H	B 19			
J31-T	XDS34-G	B 20			
J31-U	XDS33-A	B 21	MARK		
J31-V	XDS33-C	B 23	NOT MARK		
J31-W	XDS32-A	B 25			
J31-X	XDS46-G	B 27			
J31-Y	S8SW1-NC	B 28			
J31-Z	XDS45-G	B 29			
J31-A*	S7SW1-NC	B 30			
J31-B*	XDS12-A	B 1	FAIL IND G/N HI		
J31-C*	XDS41-A	B 163	DSKY SPARE SD444		
J31-D*	XDS41-C	B 165	DSKY SPARE SD445		
J31-E*	XDS19-A	B 167	CGC/LGC WARNING NO. 1		
J31-F*	XDS19-C	B 169	CGC/LGC WARNING NO. 2		
J31-H*	XDS20-A	B 171	ISS WARNING LIGHT		
J31-J*	XDS20-C	B 173	ISS WARNING LMP		
J31-K*	XDS21-A	B 175	G/N CAUTION LIGHT		
J31-M*	XDS42-A	B 177	COMPUTER STANDBY		
J31-N*	XDS44-A	B 179	S IV B CUTOFF		
J31-P*	XDS44-C	B 181	RR AUTO ANGLE ENABLE		
J31-R*	XDS43-A	B 183	S IV B INJ SEQ START		
J31-S*	XDS43-C	B 185	LR HOVER POS CMD		
J31-T*	XDS22-A	B 199	TEMP CONTROL SWITCHOVER ENABLE		

J32 (P5) CONNECTOR 1015817-500 FIGURE 10B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J32-A	XF1-1	B 31	28 VDC RLP HI		
J32-B	XF1-2	B 32	28 VDC RLP HI		
J32-C	XF1-1	B 33	28 VDC RLP HI		

(CONT.) J32 (P5) CONNECTOR 1015817-500 FIGURE 10B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J32-C	XDS36-A	B 34	28 VDC RLP HI		
J32-D	XF2-2	B 54	28 VDC G/N POWER HI		
J32-E	XF2-1	B 55	28 VDC G/N POWER HI		
J32-E	S1SW1-NO	B 56	28 VDC G/N POWER HI		
J32-F			TIE POINT		
J32-H	XDS36-H	B 58			
J32-J	XDS26-H	B 61			
J32-K	XDS26-A	B 62			
J32-K	XDS45-A	B 64			
J32-L	XDS8-A	B 72			
J32-M	XDS7-A	B 78			
J32-N	XDS10-C	B 80			
J32-P	XDS29-C	B 197			
J32-R*	XDS17-G	B 200			
J32-S*	XF5-1	B 82	115 V 60 CPS PHASE A		
J32-T*	XF4-1	B 83	115 V 60 CPS PHASE B		
J32-U*	XF3-1	B 84	115 V 60 CPS PHASE C		
J32-V*	XF5-2	B 85	115 V 60 CPS PHASE A		
J32-W*	XF4-2	B 86	115 V 60 CPS PHASE B		
J32-X*	XF3-2	B 87	115 V 60 CPS PHASE C		
J32-Y*			TIE POINT		
J32-Z*	XF6-1	B 88	115 V 60 CPS PHASE A PILOT POWER		
J32-AA	XF6-2	B 89	115 V 60 CPS PHASE A PILOT POWER		
J32-BB	S6SW4-C	B 90	115 V 60 CPS NEUT		
J32-CC	J32-DD	B 92	28 VDC RLP LO		
J32-CC	XDS37-G	B 93	28 VDC RLP LO		
J32-DD	J32-CC	B 92	28 VDC RLP LO		
J32-DD	J32-EE	B 99	28 VDC RLP LO		
J32-EE	J32-DD	B 99	28 VDC RLP LO		
J32-EE	J32-FF	B 100	28 VDC RLP LO		
J32-FF	J32-EE	B 100	28 VDC RLP LO		
J32-FF	J32-HH	B 101	28 VDC RLP LO		

(CONT.) J32 (P5) CONNECTOR 1015817-500 FIGURE 10B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J32-HH	J32-FF	B 101	28 VDC RLP LO		
J32-HH	S8SW1-C	B 102	28 VDC RLP LO		

J33 (P6) CONNECTOR 1015817-500 FIGURE 10C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J33-J	S6SW4-NO	B 107			
J33-K	S6SW4-NC	B 108			
J33-L	XDS37-A	B 109	DUCOSYN EXC MON INHIB LAMP HI		
J33-M	XDS36-G	B 111			
J33-N	XDS36-D	B 112			
J33-P	XDS36-C	B 113			
J33-R	S6SW1-C	B 114			
J33-S	S6SW1-NO	B 115	TEMP CONT LATCH RESET, ENABLE		
J33-T	S6SW2-NO	B 117	DUCO SENSOR OVERRIDE		
J33-U	S6SW3-C	B 119			
J33-V	S6SW3-NO	B 121	TMC RESET		
J33-W	XDS35-A	B 123			
J33-X	XDS35-C	B 125	GIMBAL DUMP INHIBIT		
J33-Y	XDS29-G	B 127			
J33-Z	XDS28-A	B 128			
J33-A*	XDS28-C	B 130			
J33-B*	XDS27-A	B 132			
J33-C*	XDS27-D	B 134			
J33-D*	XDS27-C	B 135			
J33-E*	XDS26-G	B 136			
J33-F*	XDS26-D	B 137			
J33-H*	XDS26-C	B 138			
J33-J*	S3SW1-C	B 139			
J33-K*	S3SW1-NO	B 140			
J33-M*	S3SW1-NC	B 141			

(CONT.) J33 (P6) CONNECTOR 1015817-500 FIGURE 10C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J33-N*	XDS25-A	B 142			
J33-P*	XDS25-C	B 144			
J33-R*	S2SW1-C	B 146			
J33-S*	S2SW1-NO	B 147			
J33-T*	S2SW1-NC	B 148			
J33-U*	S2SW2-C	B 149			
J33-V*	S2SW2-NO	B 150			
J33-W*	XDS16-D	B 151	GSE REF POWER SELECTED		
J33-X*	XDS16-C	B 152	GSE CALIB ENABLED IND		
J33-Y*	XDS16-A	B 153			
J33-Z*	XDS15-G	B 155	ISS TEST CONFIG IND		
J33-AA	XDS14-G	B 156	OSS TEST CONFIG IND		
J33-BB	XDS13-G	B 157	G/N TEST CONFIG IND		
J33-CC	XDS4-A	B 158	BLK I SERIES 100 IND		
J33-EF	XDS3-G	B 160			
J33-FF	XDS2-G	B 161	BLK II IND		
J33-HH	XDS1-G	B 162	LEM CONFIG IND		

A28 K2 RELAY 1015837-001 FIG 11

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K2-1	K3-1	C 109	BLK II AND LEM STATUS IND		
K2-2	J1-9	C 14	28 VDC RLP LO		
K2-2	K2-16	C 101	28 VDC RLP LO		
K2-3	J1-55	C 107			
K2-4	J1-43	C 105	COS AMG 1X S3 HI		
K2-6	J1-56	C 108			
K2-7	J1-49	C 106	COS AMG 1X S3 LO		
K2-9	J1-13	C 123			
K2-10	J1-7	C 121			
K2-11	J1-19	C 122			

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER ND1002071 USING ITEM 2 OR ITEMS 4 AND 3.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901477
SCALE-NONE	REV LTR A	SHEET 2 OF 6

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901477-001	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG COLOR WHITE, 64.00 INCHES TOTAL LENGTH
	2	AR	SN60WS	SOLDER, QQ-S-571 (ES2175-1)
	3	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	4	AR	SN60WRAP	SOLDER, QQ-S-571 (ES2175-3)

SIZE A	CODE IDENT NO. 99974	2901477
SCALE-NONE	REV LTR A	SHEET 3 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1	3.50	P1-A TERM.2					.25 .25	YES YES			
AA 2	1	5.00	P1-B TERM.1					.25 .25	YES YES			
AA 3	1	1.50	P1-C TERM.8					.25 .25	YES YES			
AA 4	1	1.50	P1-D TERM.8					.25 .25	YES YES			
AA 5	1	3.50	P1-E TERM.10					.25 .25	YES YES			
AA 6	1	5.00	P1-F TERM.9					.25 .25	YES YES			
AA 7	1	1.50	P1-J TERM.12					.25 .25	YES YES			
AA 8	1	1.50	P1-K TERM.12					.25 .25	YES YES			
AA 9	1	3.50	P1-L TERM.18					.25 .25	YES YES			
AA 10	1	5.00	P1-M TERM.17					.25 .25	YES YES			
AA 11	1	1.50	P1-N TERM.20					.25 .25	YES YES			
AA 12	1	1.50	P1-P TERM.20					.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901477
SCALE-NONE	REV LTR A	SHEET 4 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1	3.50	P1-R TERM.26					.25 .25	YES YES			
AA 14	1	5.00	P1-S TERM.25					.25 .25	YES YES			
AA 15	1	1.50	P1-T TERM.32					.25 .25	YES YES			
AA 16	1	1.50	P1-U TERM.32					.25 .25	YES YES			
AA 17	1	1.50	P1-V TERM.36					.25 .25	YES YES			
AA 18	1	1.50	P1-W TERM.36					.25 .25	YES YES			
AA 19	1	1.50	P1-X TERM.40					.25 .25	YES YES			
AA 20	1	1.50	P1-Y TERM.40					.25 .25	YES YES			
AA 21	1	1.50	P2-A TERM.4					.25 .25	YES YES			
AA 22	1	1.50	P2-B TERM.4					.25 .25	YES YES			
AA 23	1	1.50	P2-M TERM.16					.25 .25	YES YES			
AA 24	1	1.50	P2-N TERM.16					.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901477
SCALE-NONE	REV LTR A	SHEET 5 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	2	1.50	P2-E					.25	YES			
			TERM.20					.25	YES			
AA 26	2	1.50	P2-F					.25	YES			
			TERM.20					.25	YES			
AA 27	2	1.50	P2-H					.25	YES			
			TERM.16					.25	YES			
AA 28	2	1.50	P2-J					.25	YES			
			TERM.16					.25	YES			
AA 29	2	1.50	P2-K					.25	YES			
			TERM.24					.25	YES			
AA 30	2	1.50	P2-L					.25	YES			
			TERM.24					.25	YES			
AA 31	2	3.00	P2-M					.25	YES			
			TERM.27					.25	YES			
AA 32	2	3.00	P2-N					.25	YES			
			TERM.27					.25	YES			
AA 33	2	3.00	P2-P					.25	YES			
			TERM.31					.25	YES			
AA 34	2	3.00	P2-R					.25	YES			
			TERM.31					.25	YES			
AA 35	2	3.00	P2-S					.25	YES			
			TERM.35					.25	YES			
AA 36	2	3.00	P2-T					.25	YES			
			TERM.35					.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 6 OF 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	2	1.50	P2-U					.25	YES			
			TERM.40					.25	YES			
AA 38	2	1.50	P2-V					.25	YES			
			TERM.40					.25	YES			
AA 39	2	3.00	P2-W					.25	YES			
			TERM.39					.25	YES			
AA 40	2	3.00	P2-X					.25	YES			
			TERM.39					.25	YES			
AA 41	1	2.00	TERM.12						NO			
			TERM.16						NO			

SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 7 OF 7

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2901500-011	2900895-011	A	INITIAL RELEASE CLASS A PER TDRR 28672	3-MAY 66	GM EF

Clear Linton 20 APR 66

REV														
SHEET														
REV STATUS OF SHEETS	REV			A	A	A	A	A						
	SHEET			1	2	3	4	5						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN W. Munson 14 APR 66 (DAY MO YR)
CHECKER J. GRIEB 20 APR 66
ENGINEER C. Yolle 20 APR 66
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL G. C. [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET A A,
ELECTRICAL - NO. 33

SIZE A
CODE IDENT. NO 99974
2901502
SCALE NONE
SHEET 1 OF 5

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 8.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 8.

5 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

6 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

7 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

10 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

11 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

12 CONNECTORS MUST HAVE A MIN. OF 3 CONTACT POSITIONS FILLED IN HOLES 1 THRU 10 AND IN HOLES 23 THRU 32. TO MEET THIS REQUIREMENT USE CRIMPED UNWIRED CONTACTS IN HOLES 1,2,3 AND IN HOLES 30,31,32 RESPECTIVELY.

13 IDENTIFY PER MIL-STD-130 (ES267) USING MARKING INFORMATION PER REFERENCE DESIGNATION CHART.

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 2 OF 19

NOTE GENERAL NOTES

NUMBER DESCRIPTION

14 ASSEMBLE PER ND1002032.

15 THE FOLLOWING CONDUCTORS ARE TO BE TWISTED TOGETHER IN ACCORDANCE WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER.
H94, H95

16 INSULATION SHALL NOT BE CRIMPED IN ACCESSORY ITEM 5 WHENEVER ITEM 2 IS SPECIFIED. EXPOSED WIRE SHALL NOT EXCEED .06IN.

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 3 OF 19

NOTE GENERAL NOTES

NUMBER DESCRIPTION

REFERENCE DESIGNATION CHART

CONNECTOR	MARKING DATA
P100C	P100C (J100)
P101C	P101C (J101)
P102C	P102C (J102)
P103C	P103C (J103)
P104C	P104C (J104)
P105C	P105C (J105)
P106C	P106C (J106)
P107C	P107C (J107)
P108C	P108C (J108)
P109C	P109C (J109)
P110C	P110C (J110)
P111C	P111C (J111)
P112C	P112C (J112)
P113C	P113C (J113)
P114C	P114C (J114)
P115C	P115C (J115)
P116C	P116C (J116)
P117C	P117C (J117)
P118C	P118C (J118)
P119C	P119C (J119)
P120C	P120C (J120)
P121C	P121C (J121)
P122C	P122C (J122)
P126C	P126C (J126)
P129C	P129C (J129)

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 4 OF 19

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 5 OF 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-19	E45	A 410L	SXT SHAFT MDA TACH MON HI		
A27-31	A27-32		SXT SHAFT TACH (LO)		
A27-31	E42-B	A 410R	SXT SHAFT TACH (LO)		
A27-32	A27-31		SXT SHAFT TACH (LO)		
A27-32	A31-24	A 469	SXT SHAFT TACH (LO)		
A27-38	A27-13	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-40	A31-43	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A29			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A29-1	A33-15	A 456	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-1	A30-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-4	A33-18	A 448	PSD REF HI		
A29-4	A30-4	A 449	PSD REF HI		
A29-13	J1-50	A 445	SCT SHAFT TACH OUT (LO)		
A29-21	J1-75	A 444	SCT SHAFT TACH OUT (HI)		
A29-23	E8-B	A 528	28VDC IMU STANDBY (PSAAM PWR)		
A29-23	A30-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A29-24	A32-32	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		
A29-43	A32-40	A 472	BUFFERED SCT SHAFT MDA MON (HI)		
A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-1	A29-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-1	A31-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-4	A29-4	A 449	PSD REF HI		
A30-4	A31-4	A 450	PSD REF HI		
A30-13	J1-13	A 443	SXT TRUNNION TACH OUT (LO)		
A30-21	J1-12	A 442	SXT TRUNNION TACH OUT (HI)		
A30-23	A29-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A30-23	A31-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR #B
SHEET 25 OF 69

MIL 2084 9-65

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-24	A32-15	A 471	SXT TRUNNION TACH (LO)		
A30-43	A32-17	A 470	800 CPS DEMOG SIG INPUT (HI)		
A31			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A31-1	A30-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-1	A38-1	A 459	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-4	A30-4	A 450	PSD REF HI		
A31-4	A38-4	A 451	PSD REF HI		
A31-13	J1-14	A 441	SXT SHAFT TACH OUT (LO)		
A31-21	J1-5	A 440	SXT SHAFT TACH OUT (HI)		
A31-23	A30-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		
A31-23	A32-38	A 531	28VDC IMU STANDBY (PSAAM PWR)		
A31-24	A27-32	A 469	SXT SHAFT TACH (LO)		
A31-43	A27-40	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A32			AC AMPLIFIER 1902433-011 FIGURE 1		
A32-1	E46	A 415R	SXT TRUNNION MDA TACH MON HI		
A32-9	A32-15		SXT TRUNNION TACH (LO)		
A32-9	E44-B	A 415L	SXT TRUNNION TACH (LO)		
A32-13	A32-38	AA 46	28VDC IMU STANDBY (PSAAM PWR)		
A32-13	A33-10	A 532	28VDC IMU STANDBY (PSAAM PWR)		
A32-15	A32-9		SXT TRUNNION TACH (LO)		
A32-15	A30-24	A 471	SXT TRUNNION TACH (LO)		
A32-17	A30-43	A 470	800 CPS DEMOG SIG INPUT (HI)		
A32-19	E47	A 420R	SCT SHAFT MDA TACH MON (HI)		
A32-31	A32-32		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-31	E48	A 420L	SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A32-31		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A29-24	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR #B
SHEET 26 OF 69

MIL 2084 9-65

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A32			AC AMPLIFIER 1902433-011 FIGURE 1		
A32-38	A32-13	AA 46	28VDC IMU STANDBY (PSAAM PWR)		
A32-38	A31-23	A 531	28VDC IMU STANDBY (PSAAM PWR)		
A32-40	A29-43	A 472	BUFFERED SCT SHAFT MDA MON (HI)		
A33			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A33-1	A21-40	A 244	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A33-1	A44-17	A 245	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A33-6	A33-15		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-6	A21-31	A 247	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-6	A44-16	A 248	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-10	A32-13	A 532	28VDC IMU STANDBY (PSAAM PWR)		
A33-10	A37-13	A 533	28VDC IMU STANDBY (PSAAM PWR)		
A33-15	A33-6		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-15	A29-1	A 456	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-18	A29-4	A 448	PSD REF HI		
A37			AC AMPLIFIER 1902433-011 FIGURE 1		
A37-1	E49	A 425R	SCT TRUNNION MDA TACH MON (HI)		
A37-9	A37-15		SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-9	E50	A 425L	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-13	A33-10	A 533	28VDC IMU STANDBY (PSAAM PWR)		
A37-13	A38-23	A 534	28VDC IMU STANDBY (PSAAM PWR)		
A37-15	A37-9		SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-15	A38-24	A 475	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-17	A38-43	A 474	800 CPS DEMOD INPUT SIGNAL (HI)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR #B
SHEET 27 OF 69

MIL 2084 9-65

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A38			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A38-1	A31-1	A 459	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A38-1	A39-1	A 460	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A38-4	A31-4	A 451	PSD REF HI		
A38-4	A39-4	A 452	PSD REF HI		
A38-13	J1-49	A 447	SCT TRUNNION TACH OUT (LO)		
A38-21	J1-74	A 446	SCT TRUNNION TACH OUT (HI)		
A38-23	A37-13	A 534	28VDC IMU STANDBY (PSAAM PWR)		
A38-23	A39-23	A 535	28VDC IMU STANDBY (PSAAM PWR)		
A38-24	A37-15	A 475	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A38-43	A37-17	A 474	800 CPS DEMOD INPUT SIGNAL (HI)		
A39			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A39-1	A38-1	A 460	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A39-1	A40-1	A 461	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A39-4	A38-4	A 452	PSD REF HI		
A39-4	A40-4	A 453	PSD REF HI		
A39-13	J1-10	A 398	SXT SHAFT SERVO ERROR IN PH (LO)		
A39-21	J1-2	A 397	SXT SHAFT SERVO ERROR IN PH (HI)		
A39-23	A38-23	A 535	28VDC IMU STANDBY (PSAAM PWR)		
A39-23	A40-23	A 536	28VDC IMU STANDBY (PSAAM PWR)		
A39-24	E42-B	A 408	SXT SHAFT TACH (LO)		
A39-43	E41	A 401R	SXT SHAFT MDA P/A MON (HI)		
A40			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A40-1	A39-1	A 461	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A40-1	A41-1	A 462	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A40-4	A39-4	A 453	PSD REF HI		
A40-4	A41-4	A 454	PSD REF HI		
A40-13	J1-4	A 439	SXT TRUNNION SERVO ERROR IN PH (LO)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR #B
SHEET 28 OF 69

MIL 2084 9-65

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E34			SPLICE REDUCER 1016006-001 FIGURE 14		
E34-B	E34-BB		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J5-7	A 204	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J8-7	A 205	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J2-50	A 206	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	E34-B		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-8	A 207	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-12	A 208	800 CPS 28V 5 PERCENT (PH A+B COM)		
E35			SPLICE REDUCER 1016006-001 FIGURE 14		
E35-B	E35-BB		800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A59-27	A 219	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A59-25	A 220	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A21-31	A 221	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A20-9	A 222	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	E35-B		800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	J5-34	A 217	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	J8-34	A 218	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-B	E36-BB		OVDC IMU		
E36-B	A24-24	A 286	OVDC IMU		
E36-B	A23-9	A 292	OVDC IMU		
E36-B	A23-31	A 293	OVDC IMU		
E36-B	A27-9	A 294	OVDC IMU		
E36-B	A15-24	A 295	OVDC IMU		
E36-B	A16-24	A 296	OVDC IMU		
E36-B	A17-24	A 297	OVDC IMU		
E36-BB	E36-B		OVDC IMU		
E36-BB	J5-55	A 290	OVDC IMU		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-BB	J8-55	A 291	OVDC IMU		
E37			SPLICE REDUCER 1016006-001 FIGURE 14		
E37-B	E37-BB		SERVO AMP TEST POINT LO		
E37-B	J1-42	A 314	SERVO AMP TEST POINT LO		
E37-B	J1-23	A 315	SERVO AMP TEST POINT LO		
E37-B	J1-66	A 316	SERVO AMP TEST POINT LO		
E37-BB	E37-B		SERVO AMP TEST POINT LO		
E37-BB	J7-36	A 312	SERVO AMP TEST POINT LO		
E37-BB	J6-36	A 313	SERVO AMP TEST POINT LO		
E38			SOLDER SLEEVE 1010763-001 FIGURE 16		
E38	J7-17	A 317	SERVO AMP OUTPUT MON (MG LO)		
E38	J6-17	A 318	SERVO AMP OUTPUT MON (MG LO)		
E38	J1-43	A 319	SERVO AMP OUTPUT MON (MG LO)		
E39			SOLDER SLEEVE 1010763-001 FIGURE 16		
E39	J7-34	A 320	SERVO AMP OUTPUT MON (OG LO)		
E39	J6-34	A 321	SERVO AMP OUTPUT MON (OG LO)		
E39	J1-24	A 322	SERVO AMP OUTPUT MON (OG LO)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E40			SOLDER SLEEVE 1010763-001 FIGURE 16		
E40	J7-35	A 323	SERVO AMP OUTPUT MON (IG LO)		
E40	J6-35	A 324	SERVO AMP OUTPUT MON (IG LO)		
E40	J1-67	A 325	SERVO AMP OUTPUT MON (IG LO)		
E41			SOLDER SLEEVE 1010763-001 FIGURE 16		
E41	J8-30	A 399	SXT SHAFT MDA P/A MON (HI)		
E41	J5-30	A 400	SXT SHAFT MDA P/A MON (HI)		
E41	A39-43	A 401R	SXT SHAFT MDA P/A MON (HI)		
E42			SPLICE REDUCER 1016006-001 FIGURE 14		
E42-B	E42-BB		SXT SHAFT TACH (LO)		
E42-B	A39-24	A 408	SXT SHAFT TACH (LO)		
E42-B	A41-24	A 409	SXT SHAFT TACH (LO)		
E42-B	A27-31	A 410R	SXT SHAFT TACH (LO)		
E42-BB	E42-B		SXT SHAFT TACH (LO)		
E42-BB	J5-40	A 405	SXT SHAFT TACH (LO)		
E42-BB	J8-40	A 406	SXT SHAFT TACH (LO)		
E43			SOLDER SLEEVE 1010763-001 FIGURE 16		
E43	J8-51	A 402	SXT TRUNNION MDA P/A MON (HI)		
E43	J5-51	A 403	SXT TRUNNION MDA P/A MON (HI)		
E43	A40-43	A 404R	SXT TRUNNION MDA P/A MON (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E44			SPLICE REDUCER 1016006-001 FIGURE 14		
E44-B	E44-BB		SXT TRUNNION TACH (LO)		
E44-B	A40-24	A 413	SXT TRUNNION TACH (LO)		
E44-B	A42-24	A 414	SXT TRUNNION TACH (LO)		
E44-B	A32-9	A 415L	SXT TRUNNION TACH (LO)		
E44-BB	E44-B		SXT TRUNNION TACH (LO)		
E44-BB	J5-38	A 411	SXT TRUNNION TACH (LO)		
E44-BB	J8-38	A 412	SXT TRUNNION TACH (LO)		
E45			SOLDER SLEEVE 1010763-001 FIGURE 16		
E45	A27-19	A 410L	SXT SHAFT MDA TACH MON HI		
E45	J8-39	A 416	SXT SHAFT MDA TACH MON HI		
E45	J5-39	A 417	SXT SHAFT MDA TACH MON HI		
E46			SOLDER SLEEVE 1010763-001 FIGURE 16		
E46	A32-1	A 415R	SXT TRUNNION MDA TACH MON HI		
E46	J8-61	A 418	SXT TRUNNION MDA TACH MON HI		
E46	J5-61	A 419	SXT TRUNNION MDA TACH MON HI		
E47			SOLDER SLEEVE 1010763-001 FIGURE 16		
E47	A32-19	A 420R	SCT SHAFT MDA TACH MON (HI)		
E47	J8-44	A 421	SCT SHAFT MDA TACH MON (HI)		
E47	J5-44	A 422	SCT SHAFT MDA TACH MON (HI)		

RUNNING LIST 2901518

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7				CONNECTOR 1897247-006 FIGURE 8		
J7-58	E7-B	A	5	28VDC IMU STANDBY (PSAAM PWR)		
J7-59	E7-B	A	6	28VDC IMU STANDBY (PSAAM PWR)		
J7-60	E3	A	13	Z PIPA G/S OUTPUT (HI)		
J7-61	E5-B	A	24	PIPA G/S OUTPUT (LO)		
J8				CONNECTOR 1897247-007 FIGURE 8		
J8-5	E27	A	132	+28VDC IMU STANDBY T.P.		
J8-6	E29	A	138	OPTICS +28VDC T.P.		
J8-7	E34-B	A	205	800 CPS 28V 5 PERCENT (PH A+B COM)		
J8-8	E54	A	477	IRIG TEMP (FROM SIG COND) (HI)		
J8-9	E55	A	480	IRIG TEMP (FROM SIG COND) (LO)		
J8-14	E26-BB	A	110	IMU OPERATE OVDC		
J8-15	E25	A	129	IMU OPERATE +28VDC T.P.		
J8-16	E30	A	142	OPTICS OVDC		
J8-17	A59-9	A	210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J8-18	A59-5	A	201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J8-19	E56	A	484	CONTROL HEATER SIGNAL (TELE)		
J8-26	E51-BB	A	433	0 VDC OPTICS (SHIELD)		
J8-30	E41	A	399	SXT SHAFT MDA P/A MON (HI)		
J8-31	E52	A	431	SXT SHAFT MDA O/P MON PH 1 (HI)		
J8-32	A27-1	A	298	OG IRIG ERROR, BUFFERED		
J8-33	A23-1	A	288	IG+Y IRIG ERROR, BUFFERED		
J8-34	E35-BB	A	218	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J8-35	A59-26	A	223	800 CPS 28V 5 PERCENT-OPT MON HI		
J8-36	E63	A	505	BLOWER SIGNAL (TELE) HI		
J8-38	E44-BB	A	412	SXT TRUNNION TACH (LO)		
J8-39	E45	A	416	SXT SHAFT MDA TACH MON HI		
J8-40	E42-BB	A	406	SXT SHAFT TACH (LO)		
J8-44	E47	A	421	SCT SHAFT MDA TACH MON (HI)		
J8-45	E48	A	424	SCT SHAFT MDA TACH FEEDBACK (LO)		
J8-46	E50	A	429	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J8-47	E49	A	427	SCT TRUNNION MDA TACH MON (HI)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR #B	SHEET 61 OF 69

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RUNNING LIST 2901518

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J8				CONNECTOR 1897247-007 FIGURE 8		
J8-51	E43	A	402	SXT TRUNNION MDA P/A MON (HI)		
J8-52	E53	A	436	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J8-54	A23-19	A	300	MG IRIG ERROR, BUFFERED		
J8-55	E36-BB	A	291	OVDC IMU		
J8-56	E6	A	30	3200 CPS 28V 1 PERCENT MON (HI)		
J8-57	E5-BB	A	27	PIPA G/S OUTPUT (LO)		
J8-58	A59-28	A	214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J8-59	A59-24	A	226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J8-60	A11-6	A	230	800 CPS 28V 1 PERCENT IMU MON (LO)		
J8-61	E46	A	418	SXT TRUNNION MDA TACH MON HI		
K1				RELAY 1015832-118 FIGURE 22		
K1-1	TB1-23	AA	24	+28 VDC ACE ENABLE		
K1-1	TB1-25	AA	25	+28 VDC ACE ENABLE		
K1-2	S4-2	A	99	SERVO AMP TEST INPUT (OG)		
K1-3	S4-1	A	100	SERVO AMP TEST INPUT (OG)		
K1-3	E18	A	101	SERVO AMP TEST INPUT (OG)		
K1-5	TB1-26	AA	33	SERVO TEST COMMAND (LO)(OG)		
K1-5	J3-34	A	86	SERVO TEST COMMAND (LO)(OG)		
K1-8	K2-8	AA	34	SERVO AMP TEST INPUT		
K2				RELAY 1015832-118 FIGURE 22		
K2-1	TB1-21	AA	22	+28 VDC ACE ENABLE		
K2-1	TB1-23	AA	23	+28 VDC ACE ENABLE		
K2-2	S5-2	A	94	SERVO AMP TEST INPUT (MG)		
K2-3	S5-1	A	95	SERVO AMP TEST INPUT (MG)		
K2-3	E17	A	96	SERVO AMP TEST INPUT (MG)		
K2-5	TB1-24	AA	32	SERVO TEST COMMAND (LO)(MG)		
K2-5	J3-16	A	85	SERVO TEST COMMAND (LO)(MG)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR #B	SHEET 62 OF 69

MIL 2084 9-65

RUNNING LIST 2901518

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) K2				RELAY 1015832-118 FIGURE 22		
K2-8	K1-8	AA	34	SERVO AMP TEST INPUT		
K2-8	A59-13	A	87	SERVO AMP TEST INPUT		
K3				RELAY 1015832-118 FIGURE 22		
K3-1	TB1-19	AA	20	+28 VDC ACE ENABLE		
K3-1	TB1-21	AA	21	+28 VDC ACE ENABLE		
K3-2	S6-2	A	89	SERVO AMP TEST INPUT (IG)		
K3-3	S6-1	A	90	SERVO AMP TEST INPUT (IG)		
K3-3	E16	A	91	SERVO AMP TEST INPUT (IG)		
K3-5	TB1-22	AA	31	SERVO TEST COMMAND (LO)(IG)		
K3-5	J3-32	A	84	SERVO TEST COMMAND (LO)(IG)		
K3-8	A59-20	A	88	SERVO AMP TEST INPUT (IG)		
K4				RELAY 1015832-118 FIGURE 22		
K4-1	TB1-17	AA	17	+28 VDC ACE ENABLE		
K4-1	TB1-19	AA	19	+28 VDC ACE ENABLE		
K4-3	J7-40	A	76	ACE BIAS 1		
K4-3	J6-40	A	77	ACE BIAS 1		
K4-4	J3-20	A	81	CONTROL 2 (ACE)		
K4-5	TB1-18	AA	29	R START CONTROL ENABLED (LO)		
K4-5	TB1-20	AA	30	R START CONTROL ENABLED (LO)		
K4-7	J7-21	A	74	ACE BIAS 2		
K4-7	J6-21	A	75	ACE BIAS 2		
K4-8	J3-39	A	83	CONTROL 1 (ACE)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR #B	SHEET 63 OF 69

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RUNNING LIST 2901518

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K5				RELAY 1015832-118 FIGURE 22		
K5-1	K6-1	AA	15	+28 VDC ACE ENABLE		
K5-1	TB1-17	AA	16	+28 VDC ACE ENABLE		
K5-3	S3-2	A	73	INHIBIT POWER FAIL		
K5-5	K6-5	AA	27	R START CONTROL ENABLED (LO)		
K5-5	TB1-18	AA	28	R START CONTROL ENABLED (LO)		
K5-8	S1-3	A	554	28VDC IMU STANDBY (PSAAM PWR)		
K6				RELAY 1015832-118 FIGURE 22		
K6-1	TB1-15	AA	14	+28 VDC ACE ENABLE		
K6-1	K5-1	AA	15	+28 VDC ACE ENABLE		
K6-3	K6-7	AA	13	OVDC COMPUTER T.P.		
K6-4	J3-8	A	65	OVDC AGC DAC NO. 2		
K6-5	TB1-16	AA	26	R START CONTROL ENABLED (LO)		
K6-5	K5-5	AA	27	R START CONTROL ENABLED (LO)		
K6-7	K6-3	AA	13	OVDC COMPUTER T.P.		
K6-7	E12	A	67	OVDC COMPUTER T.P.		
K6-8	J3-22	A	66	OVDC AGC DAC NO.1		
K7				RELAY 1015832-118 FIGURE 22		
K7-1	TB1-13	AA	7	+28 VDC ACE ENABLE		
K7-1	TB1-15	AA	8	+28 VDC ACE ENABLE		
K7-2	K8-8	A	35	SELECTED PIPA OUTPUT		
K7-3	S2-1	A	37	3200 CPS BUFFERED HI		
K7-3	A59-2	A	38	3200 CPS BUFFERED HI		
K7-5	TB1-14	AA	12	PIPA REF COMMAND LO		
K7-8	S2-5	A	36	SELECTED PIPA OUTPUT		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR #B	SHEET 64 OF 69

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APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2901143-011	2901143-011	A	REVISED PER D.O. 62128	15 JUNE 66	J.K. JAC
		B	INITIAL RELEASE CLASS A PER TDRR 30100	27 JUNE 66	
		C	REVISED PER TDRR 30490	22 AUG 66	MEM

REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

REV STATUS OF SHEETS	REV			C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 3 MAY 66
DAY MO YR
CHECKER 10 JUN 66
ENGINEER
APPROVAL
CONTR NO.
A. C. METZGER
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RUNNING LIST

SIZE	CODE IDENT. NO	
A	99974	2901518
SCALE NONE	NAS 9 497	SHEET 1 OF 70

MIL 1377A6 12-66

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	C																
49	C																
50	C																
51	C																
52	C																
53	C																
54	C																
55	C																
56	C																
57	C																
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63	C																
64	C																
65	C																
66	C																
67	C																
68	C																
69	C																
70	C																

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 2 OF 70

MIL 1377A1 8-65

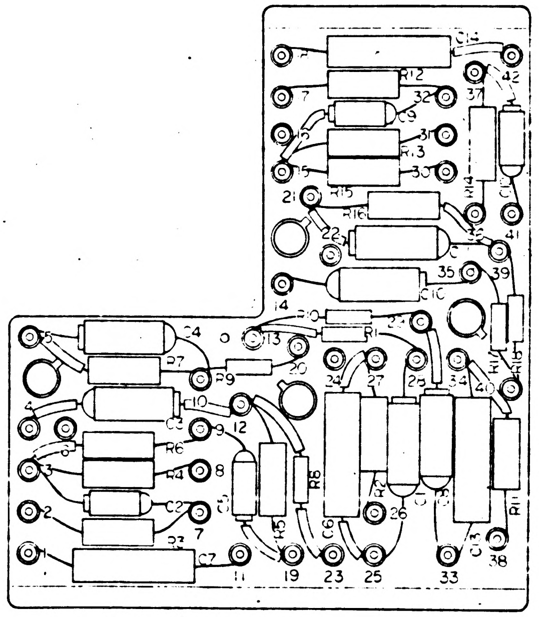

FIG 20 A44
2901147-011 PHASE SHIFTER 90 DEGREES
2900989 SCHEMATIC

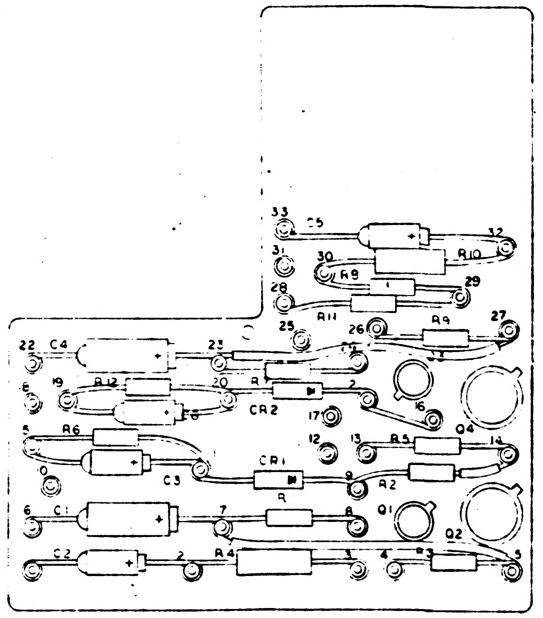

FIG 21 A11,19,33
2901203-011 CONVERTER, WAVE FORM
2901213 SCHEMATIC

SIZE	CODE IDENT. NO.		
A	99974	2901518	
SCALE NONE	REV LTR C		SHEET 11 of 70

MIL 2084 8-65

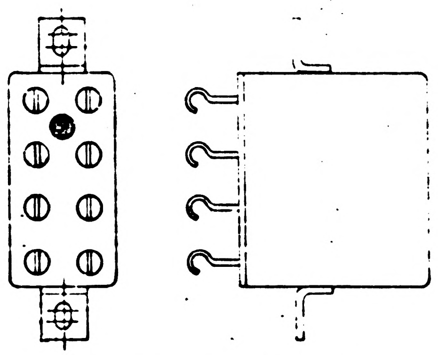

FIGURE 22 K1 THRU K10
1015832-118 RELAY

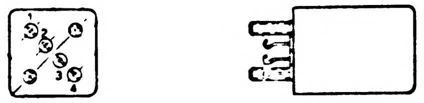

FIGURE 23 T1 THRU T3
1897413 TRANSFORMER

SIZE	CODE IDENT. NO.		
A	99974	2901518	
SCALE NONE	REV LTR C		SHEET 12 of 70

MIL 2084 8-65

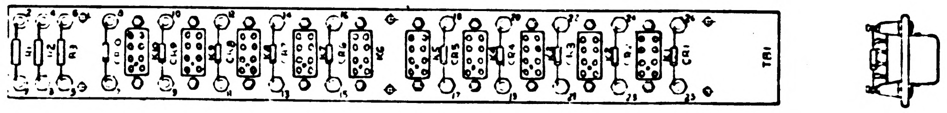

FIGURE 24 TB1
2901247 ELECTRONIC COMPONENT ASSY

SIZE	CODE IDENT. NO.		
A	99974	2901518	
SCALE NONE	REV LTR C		SHEET 13 of 70

MIL 2084 8-65

RUNNING LIST 2901518 C

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN-PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
5	DRAWINGS FOR REFERENCE 2901143-011 PSA ADAPTER MODULE (BLK II) 2901419 SCHEMATIC DIAGRAM ELECTRICAL, PSA ADAPTER MODULE 2900988 SCHEMATIC DIAGRAM ELECTRICAL, PHASE DIFF CKT 1902451 SCHEMATIC DIAGRAM ELECTRICAL, AC AMPLIFIER 2901227 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2901213 SCHEMATIC DIAGRAM ELECTRICAL, CONVERTER, WAVE FORM 2901228 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2900989 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SHIFTER, 90 DEG 2901155 SCHEMATIC DIAGRAM ELECTRICAL, GLITCH DETECTOR 2901215 SCHEMATIC DIAGRAM ELECTRICAL, ATTENUATOR BOARD 1902448 SCHEMATIC DIAGRAM ELECTRICAL, LINE DRIVE AMPLIFIER 2901144 WIRING HARNESS A 2901458 LEAD SET AA
6	WIRING OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT FACE OF PIN CONNECTORS SHOWN. SOCKET CONNECTORS OPPOSITE.

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 14 OF 70

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J2				CONNECTOR 1897247-003 FIGURE 11		
J2-46	A3-15	A	362	CDU TEST POINT + ERROR COM		
J2-47	A4-40	A	363	TRUNNION CDU FINE ERROR (HI)		
J2-50	E34-8	A	206	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-51	E63	A	506	BLOWER SIGNAL (TELE) HI		
J2-52	A20-17	A	249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
J2-53	A21-32	A	246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-55	A21-17	A	235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
J2-58	A50-21	A	161	+4VDC CDU SUPP NOISE PEAKS (LO)		
J2-59	A49-21	A	156	+120VDC PIPA NOISE PEAKS (LO)		
J2-60	A48-21	A	152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
J2-61	A47-21	A	149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
J2-66	A45-40	A	351	IG CDU FINE ERROR (HI)		
J2-67	A46-32	A	356	CDU TEST POINT + ERROR COM		
J2-68	A46-40	A	355	MG CDU FINE ERROR (HI)		
J2-69	A46-17	A	357	MG CDU COARSE ERROR (HI)		
J2-70	A3-17	A	361	OG CDU COARSE ERROR (HI)		
J2-71	A4-17	A	365	SHAFT CDU FINE ERROR (HI)		
J2-72	A4-15	A	366	CDU TEST POINT + ERROR COM		
J2-78	A21-40	A	243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
J2-80	A22-32	A	233	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-81	A22-40	A	231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
J2-82	A50-17	A	160	+4VDC CDU SUPP NOISE PEAKS (HI)		
J2-83	A49-17	A	155	+120VDC PIPA NOISE PEAKS (HI)		
J2-84	A48-17	A	151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
J2-85	A47-17	A	148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
J3				CONNECTOR 1897252-109 FIGURE 10		
J3-5	TB1-7	A	40	+28 VDC ACE ENABLE		
J3-6	TB1-14	A	44	PIPA REF COMMAND LO		
J3-8	K6-4	A	65	0VDC AGC DAC NO. 2		
J3-14	TB1-10	A	42	Y PIPA COMMAND LO		
J3-16	K2-5	A	85	SERVO TEST COMMAND (LO)(MG)		

SIZE A | CODE IDENT NO. 99974 | 2901518
SCALE NONE | REV LTR C | SHEET 55 OF 70

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J3				CONNECTOR 1897252-109 FIGURE 10		
J3-18	TB1-16	A	80	R START CONTROL ENABLED (LO)		
J3-20	K4-4	A	81	CONTROL 2 (ACE)		
J3-22	K6-8	A	66	0VDC AGC DAC NO.1		
J3-28	TB1-12	A	43	X PIPA COMMAND LO		
J3-30	TB1-8	A	41	Z PIPA COMMAND LO		
J3-32	K3-5	A	84	SERVO TEST COMMAND (LO)(IG)		
J3-34	K1-5	A	86	SERVO TEST COMMAND (LO)(OG)		
J3-39	K4-8	A	83	CONTROL 1 (ACE)		
J4				CONNECTOR MS3102R14S-7S(C)(1896916-107) FIGURE 9		
J4-A	A60-3	A	51	PIPA HARDLINE A (HI)		
J4-B	A60-1	A	52	PIPA HARDLINE B (LO)		
J4-C	E1	A	53	STRUCTURE AND SHIELD GROUND		
J5				CONNECTOR 1897252-107 FIGURE 12		
J5-5	E27	A	133	+28VDC IMU STANDBY T.P.		
J5-6	E29	A	139	OPTICS +28VDC T.P.		
J5-7	E34-8	A	204	800 CPS 28V 5 PERCENT (PH A+B COM)		
J5-8	E54	A	478	IRIG TEMP (FROM SIG COND) (HI)		
J5-9	E55	A	481	IRIG TEMP (FROM SIG COND) (LO)		
J5-14	E26-88	A	79	IMU OPERATE 0VDC		
J5-15	E25	A	130	IMU OPERATE +28VDC T.P.		
J5-16	E30	A	141	OPTICS 0VDC		
J5-17	A59-9	A	209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J5-18	A59-5	A	207	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J5-19	E56	A	483	CONTROL HEATER SIGNAL (TELE)		
J5-26	E51-88	A	434	0 VDC OPTICS (SHIELD)		
J5-30	E41	A	400	SXT SHAFT MDA P/A MON (HI)		
J5-31	E52	A	430	SXT SHAFT MDA O/P MON PH 1 (HI)		

SIZE A | CODE IDENT NO. 99974 | 2901518
SCALE NONE | REV LTR C | SHEET 56 OF 70

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J5				CONNECTOR 1897252-107 FIGURE 12		
J5-32	A27-1	A	259	OG IRIG ERROR, BUFFERED		
J5-33	A23-1	A	289	IG+Y IRIG ERROR, BUFFERED		
J5-34	E35-88	A	217	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J5-35	A59-26	A	224	800 CPS 28V 5 PERCENT-OPT MON HI		
J5-36	E63	A	504	BLOWER SIGNAL (TELE) HI		
J5-38	E44-88	A	411	SXT TRUNNION TACH (LO)		
J5-39	E45	A	417	SXT SHAFT MDA TACH MON HI		
J5-40	E42-88	A	405	SXT SHAFT TACH (LO)		
J5-44	E47	A	422	SCT SHAFT MDA TACH MON (HI)		
J5-45	E48	A	423	SCT SHAFT MDA TACH FEEDBACK (LO)		
J5-46	E50	A	428	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J5-47	E49	A	426	SCT TRUNNION MDA TACH MON (HI)		
J5-50	E11-8	A	553	STRUCTURE AND SHIELD GROUND		
J5-51	E43	A	403	SXT TRUNNION MDA P/A MON (HI)		
J5-52	E53	A	435	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J5-54	A23-19	A	301	MG IRIG ERROR, BUFFERED		
J5-55	E36-88	A	290	0VDC IMU		
J5-56	E6	A	31	3200 CPS 28V 1 PERCENT MON (HI)		
J5-57	E5-88	A	28	PIPA G/S OUTPUT (LO)		
J5-58	A59-28	A	215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J5-59	A59-24	A	227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J5-60	A11-6	A	229	800 CPS 28V 1 PERCENT IMU MON (LO)		
J5-61	E46	A	419	SXT TRUNNION MDA TACH MON HI		
J6				CONNECTOR 1897252-106 FIGURE 12		
J6-1	A46-1	A	374	MG COURSE ERROR		
J6-2	E58	A	489	CGC TEMPERATURE MON (LO)		
J6-3	A45-1	A	370	IG COURSE ERROR		
J6-4	A3-1	A	378	OG COURSE ERROR		
J6-5	A46-19	A	372	MG FINE ERROR		
J6-6	E17	A	97	SERVO AMP TEST INPUT (MG)		
J6-7	E18	A	103	SERVO AMP TEST INPUT (OG)		

SIZE A | CODE IDENT NO. 99974 | 2901518
SCALE NONE | REV LTR C | SHEET 57 OF 70

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6				CONNECTOR 1897252-106 FIGURE 12		
J6-8	TB1-1	A	486	CGC TEMPERATURE MON (HI)		
J6-9	E20	A	115	+4VDC CGC T.P.		
J6-10	T2-2	A	333	YAW CDU ATT ERROR (LO)		
J6-11	T2-1	A	331	YAW CDU ATT ERROR (HI)		
J6-12	A4-1	A	382	SHAFT FINE ERROR		
J6-13	A4-19	A	380	TRUNNION FINE ERROR		
J6-14	A45-19	A	368	IG FINE ERROR		
J6-15	A3-19	A	376	OG FINE ERROR		
J6-16	E14	A	185	-28VDC (T.P. HI)		
J6-17	E38	A	318	SERVO AMP OUTPUT MON (MG LO)		
J6-18	E16	A	92	SERVO AMP TEST INPUT (IG)		
J6-19	E2	A	10	Y PIPA G/S OUTPUT (HI)		
J6-20	E5-8	A	23	PIPA G/S OUTPUT (LO)		
J6-21	K4-7	A	75	ACE BIAS 2		
J6-22	E19	A	112	+14VDC CGC T.P.		
J6-23	T3-1	A	335	ROLL CDU ATT ERROR (HI)		
J6-24	T1-2	A	329	PITCH CDU ATT ERROR (LO)		
J6-25	E11-88	A	60	STRUCTURE AND SHIELD GROUND		
J6-26	E23	A	124	CDU TEST POINT 4V		
J6-27	E24-88	A	126	CDU TEST POINT + ERROR COM		
J6-31	E31-88	A	193	+20VDC T.P. HI		
J6-32	E60	A	495	PIPA CAL MOD TEMP (LO)		
J6-33	E15	A	187	-28VDC (LO)		
J6-34	E39	A	321	SERVO AMP OUTPUT MON (OG LO)		
J6-35	E40	A	324	SERVO AMP OUTPUT MON (IG LO)		
J6-36	E37-88	A	313	SERVO AMP TEST POINT LO		
J6-37	E5-8	A	22	PIPA G/S OUTPUT (LO)		
J6-38	E4	A	17	X PIPA G/S OUTPUT (HI)		
J6-39	E13	A	71	INHIBIT POWER FAIL		
J6-40	K4-3	A	77	ACE BIAS 1		
J6-41	E28	A	136	+28VDC COMPUTER T.P.		
J6-42	E12	A	68	0VDC COMPUTER T.P.		
J6-43	T3-2	A	337	ROLL CDU ATT ERROR (LO)		
J6-44	T1-1	A	327	PITCH CDU ATT ERROR (HI)		
J6-45	E9	A	57	3.2 KPPS PH A (HI)		

SIZE A | CODE IDENT NO. 99974 | 2901518
SCALE NONE | REV LTR C | SHEET 58 OF 70

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 62128	15 JUNE 66	J.K. JAC
B	INITIAL RELEASE CLASS A PER TDRR 30100	27 JUNE 66	
C	REVISED PER TDRR 30490	22 AUG 66	MEM
D	REVISED PER TDRR 30723	7 SEP 66	

REV	D	C	C	C	C	C	C	C	C	C	C	C	C	D	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

REV STATUS OF SHEETS	REV			D	D	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

E. LiBow 3 MAY 66
DRAFTSMAN DAY MO YR
CHECKER 10 JUN 66
ENGINEER
APPROVAL
CONTR NO.

A. C. METZGER
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RUNNING LIST

SIZE	CODE IDENT. NO	
A	99974	2901518
SCALE NONE	NAS 9-497	SHEET 1 OF 70

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	C																
49	C																
50	C																
51	C																
52	C																
53	C																
54	C																
55	C																
56	C																
57	C																
58	C																
59	C																
60	C																
61	C																
62	C																
63	C																
64	D																
65	D																
66	D																
67	C																
68	C																
69	C																
70	C																

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR D	SHEET 2 OF 70

MIL 1377A3 8-65

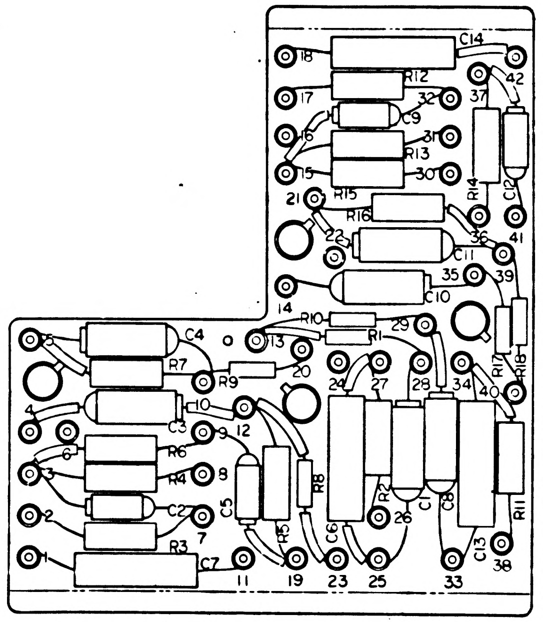

FIG 20 A44
2901147-011 PHASE SHIFTER 90 DEGREES
2900989 SCHEMATIC

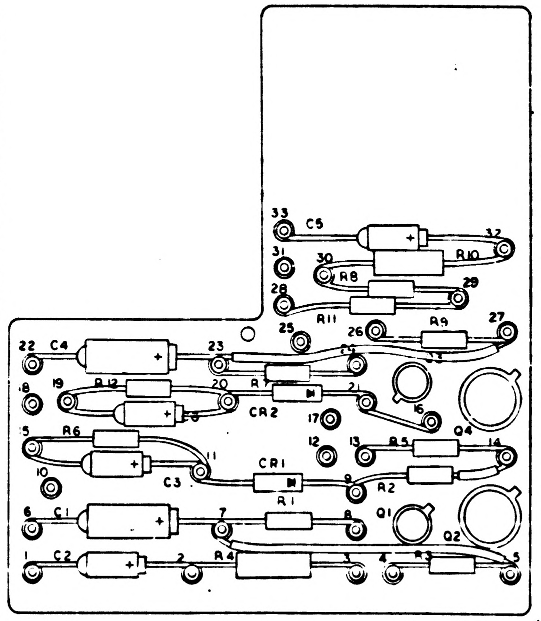

FIG 21 A11,19,33
2901203-011 CONVERTER, WAVE FORM
2901213 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 11 of 70

MIL 2084 8-65

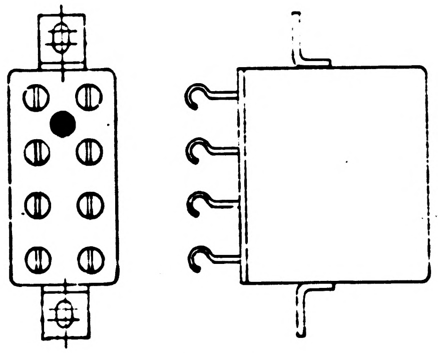

FIGURE 22 K1 THRU K10
1015832-118 RELAY

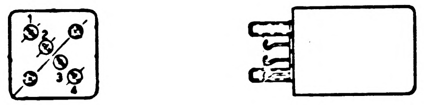

FIGURE 23 T1 THRU T3
1897413 TRANSFORMER

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 12 of 70

MIL 2084 8-65

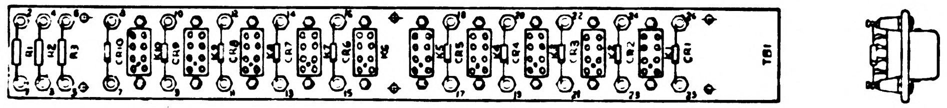

FIGURE 24 TB1
2901247 ELECTRONIC COMPONENT ASSY

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 13 of 70

MIL 2084 8-65

RUNNING LIST 2901518 C

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN-PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
5	DRAWINGS FOR REFERENCE 2901143-011 PSA ADAPTER MODULE (BLK II) 2901419 SCHEMATIC DIAGRAM ELECTRICAL, PSA ADAPTER MODULE 2900988 SCHEMATIC DIAGRAM ELECTRICAL, PHASE DIFF CKT 1902451 SCHEMATIC DIAGRAM ELECTRICAL, AC AMPLIFIER 2901227 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2901213 SCHEMATIC DIAGRAM ELECTRICAL, CONVERTER, WAVE FORM 2901228 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2900989 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SHIFTER, 90 DEG 2901155 SCHEMATIC DIAGRAM ELECTRICAL, GLITCH DETECTOR 2901215 SCHEMATIC DIAGRAM ELECTRICAL, ATTENUATOR BOARD 1902448 SCHEMATIC DIAGRAM ELECTRICAL, LINE DRIVE AMPLIFIER 2901144 WIRING HARNESS A 2901458 LEAD SET AA
6	WIRING OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT FACE OF PIN CONNECTORS SHOWN. SOCKET CONNECTORS CPPOSITE.

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 14 OF 7C

MIL 2084 9-65

A46 AC AMPLIFIER 1902433-011 FIGURE 1

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A46-1	J7-1	A 373	MG COURSE ERROR		
A46-1	J6-1	A 374	MG COURSE ERROR		
A46-9	A46-15		CDU TEST POINT + ERROR COM		
A46-9	E24-8	A 392	CDU TEST POINT + ERROR COM		
A46-13	A46-38	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-13	A45-38	A 407	28VDC IMU STANDBY (PSAAM PWR)		
A46-15	A46-9		CDU TEST POINT + ERROR COM		
A46-15	J2-45	A 358	CDU TEST POINT + ERROR COM		
A46-17	J2-69	A 357	MG CDU COARSE ERROR (HI)		
A46-19	J7-5	A 371	MG FINE ERROR		
A46-19	J6-5	A 372	MG FINE ERROR		
A46-31	A46-32		CDU TEST POINT + ERROR COM		
A46-31	E24-8	A 391	CDU TEST POINT + ERROR COM		
A46-32	A46-31		CDU TEST POINT + ERROR COM		
A46-32	J2-67	A 356	CDU TEST POINT + ERROR COM		
A46-38	A46-13	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-38	A3-13	A 508	28VDC IMU STANDBY (PSAAM PWR)		
A46-40	J2-68	A 355	MG CDU FINE ERROR (HI)		

A47 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A47-3	E19	A 111	+14VDC CGC T.P.		
A47-4	J1-85	A 143	+14VDC CGC SUPP, NOISE RMS		
A47-4	J1-84	A 144	+14VDC CGC SUPP, NOISE RMS		
A47-17	J2-85	A 148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
A47-21	J2-61	A 149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
A47-23	A2-81	A 542	28VDC IMU STANDBY (PSAAM PWR)		
A47-23	A48-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A47-37	A47-42		IMU OPERATE OVDC		
A47-37	E26-8	A 105	IMU OPERATE OVDC		
A47-42	A47-37		IMU OPERATE OVDC		
A47-42	J1-60	A 147	IMU OPERATE OVDC		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 31 OF 70

A48 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A48-3	E20	A 114	+4VDC CGC T.P.		
A48-4	J1-82	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-4	J1-83	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-17	J2-84	A 151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
A48-21	J2-60	A 152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
A48-23	A47-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A48-23	A49-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A48-37	A48-42		IMU OPERATE OVDC		
A48-37	E26-8	A 106	IMU OPERATE OVDC		
A48-42	A48-37		IMU OPERATE OVDC		
A48-42	J1-58	A 150	IMU OPERATE OVDC		

A49 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A49-3	E21	A 117	+120VDC PIPA (HI)		
A49-4	J1-62	A 153	+120VDC PIPA, NOISE RMS (HI)		
A49-17	J2-83	A 155	+120VDC PIPA NOISE PEAKS (HI)		
A49-21	J2-59	A 156	+120VDC PIPA NOISE PEAKS (LO)		
A49-23	A48-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A49-23	A50-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A49-37	A49-42		+120VDC PIPA RETURN		
A49-37	E22	A 120	+120VDC PIPA RETURN		
A49-42	A49-37		+120VDC PIPA RETURN		
A49-42	J1-63	A 154	+120VDC PIPA RETURN		

A50 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A50-3	E23	A 122	CDU TEST POINT 4V		
A50-4	J1-36	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-4	J1-59	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-17	J2-82	A 160	+4VDC CDU SUPP NOISE PEAKS (HI)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 32 OF 7C

(CONT.) A50 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A50-21	J2-58	A 161	+4VDC CDU SUPP NOISE PEAKS (LO)		
A50-23	A49-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A50-23	A51-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A50-37	A50-42		CDU TEST POINT + ERROR COM		
A50-37	E24-8	A 125	CDU TEST POINT + ERROR COM		
A50-42	A50-37		CDU TEST POINT + ERROR COM		
A50-42	J1-35	A 159	CDU TEST POINT + ERROR COM		

A51 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A51-3	E25	A 128	IMU OPERATE +28VDC T.P.		
A51-4	J1-56	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-4	J1-57	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-17	J2-38	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
A51-21	J2-39	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
A51-23	A50-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A51-23	A52-23	A 547	28VDC IMU STANDBY (PSAAM PWR)		
A51-37	A51-42		IMU OPERATE OVDC		
A51-37	E26-8	A 107	IMU OPERATE OVDC		
A51-42	A51-37		IMU OPERATE OVDC		
A51-42	J1-34	A 164	IMU OPERATE OVDC		

A52 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A52-3	E27	A 131	+28VDC IMU STANDBY T.P.		
A52-4	J1-16	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-4	J1-33	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-17	J2-37	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
A52-21	J2-20	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
A52-23	A51-23	A 547	28VDC IMU STANDBY (PSAAM PWR)		
A52-23	A53-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 33 OF 7C

(CONT.) A52 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A52-37	A52-42		IMU OPERATE OVDC		
A52-37	E26-8	A 108	IMU OPERATE OVDC		
A52-42	A52-37		IMU OPERATE OVDC		
A52-42	J1-17	A 169	IMU OPERATE OVDC		

A53 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A53-3	E28	A 134	+28VDC COMPUTER T.P.		
A53-4	J1-6	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-4	J1-18	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-17	J2-36	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
A53-21	J2-19	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
A53-23	A52-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		
A53-23	A54-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A53-37	A53-42		IMU OPERATE OVDC		
A53-37	E26-8	A 109	IMU OPERATE OVDC		
A53-42	A53-37		IMU OPERATE OVDC		
A53-42	J1-7	A 175	IMU OPERATE OVDC		

A54 GLITCH DETECTOR 2901154-011 FIGURE 3

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A54-3	E29	A 137	OPTICS +28VDC T.P.		
A54-4	J1-19	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-4	J1-20	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-17	J2-35	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
A54-21	J2-18	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
A54-23	A53-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A54-23	A59-19	A 550	28VDC IMU STANDBY (PSAAM PWR)		
A54-37	A54-42		OPTICS OVDC		
A54-37	E30	A 140	OPTICS OVDC		
A54-42	A54-37		OPTICS OVDC		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 34 OF 7C

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FROM          TO          LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  NET. NO.
       E10               SOLDER SLEEVE  1010763-001 FIGURE 16

E10           A2-78          A   55L 3.2 KPPS PH A (LO)
E10           J6-46          A   58  3.2 KPPS PH A (LO)
E10           J7-46          A   59  3.2 KPPS PH A (LO)


       E11               SPLICE REDUCER 1016006-001 FIGURE 14

E11-B         E11-BB                 STRUCTURE AND SHIELD GROUND
E11-B         SHLD  OFA55    A   55A STRUCTURE AND SHIELD GROUND
E11-B         E1             A   62  STRUCTURE AND SHIELD GROUND
E11-B         J5-50          A  553  STRUCTURE AND SHIELD GROUND
E11-BB        E11-B                  STRUCTURE AND SHIELD GROUND
E11-BB        J6-25          A   60  STRUCTURE AND SHIELD GROUND
E11-BB        J7-25          A   61  STRUCTURE AND SHIELD GROUND
E11-BB        J6-50          A  552  STRUCTURE AND SHIELD GROUND


       E12               SOLDER SLEEVE  1010763-001 FIGURE 16

E12           K6-7           A   67  OVDC COMPUTER T.P.
E12           J6-42          A   68  OVDC COMPUTER T.P.
E12           J7-42          A   69  OVDC COMPUTER T.P.


       E13               SOLDER SLEEVE  1010763-001 FIGURE 16

E13           S3-1           A   70  INHIBIT POWER FAIL
E13           J6-39          A   71  INHIBIT POWER FAIL
E13           J7-39          A   72  INHIBIT POWER FAIL
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FROM          TO          LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  NET. NO.
       E14               SPLICE REDUCER 1016006-001 FIGURE 14

E14           J7-16          A  184  -28VDC (T.P. HI)
E14           J6-16          A  185  -28VDC (T.P. HI)
E14           J1-79          A  186  -28VDC (T.P. HI)


       E15               SPLICE REDUCER 1016006-001 FIGURE 14

E15           J6-33          A  187  -28VDC (LO)
E15           J7-33          A  188  -28VDC (LO)
E15           J1-55          A  189  -28VDC (LO)


       E16               SOLDER SLEEVE  1010763-001 FIGURE 16

E16           K3-3           A   91  SERVO AMP TEST INPUT (IG)
E16           J6-18          A   92  SERVO AMP TEST INPUT (IG)
E16           J7-18          A   93  SERVO AMP TEST INPUT (IG)


       E17               SOLDER SLEEVE  1010763-001 FIGURE 16

E17           K2-3           A   96  SERVO AMP TEST INPUT (MG)
E17           J6-6           A   97  SERVO AMP TEST INPUT (MG)
E17           J7-6           A   98  SERVO AMP TEST INPUT (MG)


       E18               SOLDER SLEEVE  1010763-001 FIGURE 16

E18           K1-3           A  101  SERVO AMP TEST INPUT (CG)
E18           J7-7           A  102  SERVO AMP TEST INPUT (CG)
E18           J6-7           A  103  SERVO AMP TEST INPUT (CG)
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FROM          TO          LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  NET. NO.
       E19               SOLDER SLEEVE  1010763-001 FIGURE 16

E19           A47-3          A  111  +14VDC CGC T.P.
E19           J6-22          A  112  +14VDC CGC T.P.
E19           J7-22          A  113  +14VDC CGC T.P.


       E20               SOLDER SLEEVE  1010763-001 FIGURE 16

E20           A48-3          A  114  +4VDC CGC T.P.
E20           J6-9           A  115  +4VDC CGC T.P.
E20           J7-9           A  116  +4VDC CGC T.P.


       E21               SOLDER SLEEVE  1010763-001 FIGURE 16

E21           A49-3          A  117  +120VDC PIPA (HI)
E21           J6-47          A  118  +120VDC PIPA (HI)
E21           J7-47          A  119  +120VDC PIPA (HI)


       E22               SOLDER SLEEVE  1010763-001 FIGURE 16

E22           J7-48          A   78  +120VDC PIPA RETURN
E22           A49-37         A  120  +120VDC PIPA RETURN
E22           J6-48          A  121  +120VDC PIPA RETURN


       E23               SOLDER SLEEVE  1010763-001 FIGURE 16

E23           A50-3          A  122  CDU TEST POINT 4V
E23           J7-26          A  123  CDU TEST POINT 4V
E23           J6-26          A  124  CDU TEST POINT 4V
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FROM          TO          LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  NET. NO.
       E24               SPLICE REDUCER 1016006-002 FIGURE 15

E24-B         E24-BB                 CDU TEST POINT + ERROR COM
E24-B         A50-37         A  125  CDU TEST POINT + ERROR COM
E24-B         A7-24          A  386  CDU TEST POINT + ERROR COM
E24-B         A6-24          A  387  CDU TEST POINT + ERROR COM
E24-B         A5-24          A  388  CDU TEST POINT + ERROR COM
E24-B         A45-31         A  389  CDU TEST POINT + ERROR COM
E24-B         A45-9          A  390  CDU TEST POINT + ERROR COM
E24-B         A46-31         A  391  CDU TEST POINT + ERROR COM
E24-B         A46-9          A  392  CDU TEST POINT + ERROR COM
E24-B         A3-31          A  393  CDU TEST POINT + ERROR COM
E24-B         A3-9           A  394  CDU TEST POINT + ERROR COM
E24-B         A4-31          A  395  CDU TEST POINT + ERROR COM
E24-B         A4-9           A  396  CDU TEST POINT + ERROR COM
E24-BB        E24-B                  CDU TEST POINT + ERROR COM
E24-BB        J6-27          A  126  CDU TEST POINT + ERROR COM
E24-BB        J7-27          A  127  CDU TEST POINT + ERROR COM
E24-BB        T1-4           A  383  CDU TEST POINT + ERROR COM
E24-BB        T2-4           A  384  CDU TEST POINT + ERROR COM
E24-BB        T3-4           A  385  CDU TEST POINT + ERROR COM


       E25               SOLDER SLEEVE  1010763-001 FIGURE 16

E25           A51-3          A  128  IMU OPERATE +28VDC T.P.
E25           J8-15          A  129  IMU OPERATE +28VDC T.P.
E25           J5-15          A  130  IMU OPERATE +28VDC T.P.


       E26               SPLICE REDUCER 1016006-001 FIGURE 14

E26-B         E26-BB                 IMU OPERATE OVDC
E26-B         A59-14         A  104  IMU OPERATE OVDC
E26-B         A47-37         A  105  IMU OPERATE OVDC
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E26			SPLICE REDUCER 1016006-001 FIGURE 14		
E26-B	A48-37	A 106	IMU OPERATE OVDC		
E26-B	A51-37	A 107	IMU OPERATE OVDC		
E26-B	A52-37	A 108	IMU OPERATE OVDC		
E26-B	A53-37	A 109	IMU OPERATE OVDC		
E26-BB	E26-B		IMU OPERATE OVDC		
E26-BB	J5-14	A 79	IMU OPERATE OVDC		
E26-BB	J8-14	A 110	IMU OPERATE OVDC		
E26-BB	J2-29	A 476	IMU OPERATE OVDC		
E27			SOLDER SLEEVE 1010763-001 FIGURE 16		
E27	A52-3	A 131	+28VDC IMU STANDBY T.P.		
E27	J8-5	A 132	+28VDC IMU STANDBY T.P.		
E27	J5-5	A 133	+28VDC IMU STANDBY T.P.		
E28			SOLDER SLEEVE 1010763-001 FIGURE 16		
E28	A53-3	A 134	+28VDC COMPUTER T.P.		
E28	J7-41	A 135	+28VDC COMPUTER T.P.		
E28	J6-41	A 136	+28VDC COMPUTER T.P.		
E29			SOLDER SLEEVE 1010763-001 FIGURE 16		
E29	A54-3	A 137	OPTICS +28VDC T.P.		
E29	J8-6	A 138	OPTICS +28VDC T.P.		
E29	J5-6	A 139	OPTICS +28VDC T.P.		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E30			SOLDER SLEEVE 1010763-001 FIGURE 16		
E30	A54-37	A 140	OPTICS OVDC		
E30	J5-16	A 141	OPTICS OVDC		
E30	J8-16	A 142	OPTICS OVDC		
E31			SPLICE REDUCER 1016006-001 FIGURE 14		
E31-B	E31-BB		+20VDC T.P. HI		
E31-B	J1-38	A 190	+20VDC T.P. HI		
E31-B	J1-61	A 191	+20VDC T.P. HI		
E31-B	J7-31	A 192	+20VDC T.P. HI		
E31-BB	E31-B		+20VDC T.P. HI		
E31-BB	J6-31	A 193	+20VDC T.P. HI		
E32			SPLICE REDUCER 1016006-001 FIGURE 14		
E32-B	E32-BB		+20VDC RETURN		
E32-B	J7-53	A 195	+20VDC RETURN		
E32-B	J1-37	A 196	+20VDC RETURN		
E32-B	J1-39	A 197	+20VDC RETURN		
E32-BB	E32-B		+20VDC RETURN		
E32-BB	J6-53	A 194	+20VDC RETURN		
E33			SOLDER SLEEVE 1010763-001 FIGURE 16		
E33	J7-52	A 198	-20VDC T.P. HI		
E33	J6-52	A 199	-20VDC T.P. HI		
E33	J1-64	A 200	-20VDC T.P. HI		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E34			SPLICE REDUCER 1016006-001 FIGURE 14		
E34-B	E34-BB		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J5-7	A 204	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J8-7	A 205	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J2-50	A 206	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	E34-B		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-8	A 207	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-12	A 208	800 CPS 28V 5 PERCENT (PH A+B COM)		
E35			SPLICE REDUCER 1016006-001 FIGURE 14		
E35-B	E35-BB		800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A59-27	A 219	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A59-25	A 220	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A21-31	A 221	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-B	A20-9	A 222	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	E35-B		800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	J5-34	A 217	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	J8-34	A 218	800V CPS 28V 1 PERCENT-OPT MON (LO)		
E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-B	E36-BB		OVDC IMU		
E36-B	A24-24	A 286	OVDC IMU		
E36-B	A23-9	A 292	OVDC IMU		
E36-B	A23-31	A 293	OVDC IMU		
E36-B	A27-9	A 294	OVDC IMU		
E36-B	A15-24	A 295	OVDC IMU		
E36-B	A16-24	A 296	OVDC IMU		
E36-B	A17-24	A 297	OVDC IMU		
E36-BB	E36-B		OVDC IMU		
E36-BB	J5-55	A 290	OVDC IMU		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-BB	J8-55	A 291	OVDC IMU		
E37			SPLICE REDUCER 1016006-001 FIGURE 14		
E37-B	E37-BB		SERVO AMP TEST POINT LO		
E37-B	J1-42	A 314	SERVO AMP TEST POINT LO		
E37-B	J1-23	A 315	SERVO AMP TEST POINT LO		
E37-B	J1-66	A 316	SERVO AMP TEST POINT LO		
E37-BB	E37-B		SERVO AMP TEST POINT LO		
E37-BB	J7-36	A 312	SERVO AMP TEST POINT LO		
E37-BB	J6-36	A 313	SERVO AMP TEST POINT LO		
E38			SOLDER SLEEVE 1010763-001 FIGURE 16		
E38	J7-17	A 317	SERVO AMP OUTPUT MON (MG LO)		
E38	J6-17	A 318	SERVO AMP OUTPUT MON (MG LO)		
E38	J1-43	A 319	SERVO AMP OUTPUT MON (MG LO)		
E39			SOLDER SLEEVE 1010763-001 FIGURE 16		
E39	J7-34	A 320	SERVO AMP OUTPUT MON (OG LO)		
E39	J6-34	A 321	SERVO AMP OUTPUT MON (OG LO)		
E39	J1-24	A 322	SERVO AMP OUTPUT MON (OG LO)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J2			CONNECTOR 1897247-003 FIGURE 11		
J2-46	A3-15	A 362	CDU TEST POINT + ERROR COM		
J2-47	A4-40	A 363	TRUNNION CDU FINE ERROR (HI)		
J2-50	E34-8	A 206	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-51	E63	A 506	BLOWER SIGNAL (TELE) HI		
J2-52	A20-17	A 249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
J2-53	A21-32	A 246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-55	A21-17	A 235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
J2-58	A50-21	A 161	+4VDC CDU SUPP NOISE PEAKS (LO)		
J2-59	A49-21	A 156	+120VDC PIPA NOISE PEAKS (LO)		
J2-60	A48-21	A 152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
J2-61	A47-21	A 149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
J2-66	A45-40	A 351	IG CDU FINE ERROR (HI)		
J2-67	A46-32	A 356	CDU TEST POINT + ERROR COM		
J2-68	A46-40	A 355	MG CDU FINE ERROR (HI)		
J2-69	A46-17	A 357	MG CDU COARSE ERROR (HI)		
J2-70	A3-17	A 361	OG CDU COARSE ERROR (HI)		
J2-71	A4-17	A 365	SHAFT CDU FINE ERROR (HI)		
J2-72	A4-15	A 366	CDU TEST POINT + ERROR COM		
J2-78	A21-40	A 243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
J2-80	A22-32	A 233	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-81	A22-40	A 231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
J2-82	A50-17	A 160	+4VDC CDU SUPP NOISE PEAKS (HI)		
J2-83	A49-17	A 155	+120VDC PIPA NOISE PEAKS (HI)		
J2-84	A48-17	A 151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
J2-85	A47-17	A 148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
J3			CONNECTOR 1897252-109 FIGURE 10		
J3-5	T81-7	A 40	+28 VDC ACE ENABLE		
J3-6	T81-14	A 44	PIPA REF COMMAND LO		
J3-8	K6-4	A 65	OVDC AGC DAC NO. 2		
J3-14	T81-10	A 42	Y PIPA COMMAND LO		
J3-16	K2-5	A 85	SERVO TEST COMMAND (LO)(MG)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J3			CONNECTOR 1897252-109 FIGURE 10		
J3-18	T81-16	A 80	R START CONTROL ENABLED (LO)		
J3-20	K4-4	A 81	CONTROL 2 (ACE)		
J3-22	K6-8	A 66	OVDC AGC DAC NO.1		
J3-28	T81-12	A 43	X PIPA COMMAND LO		
J3-30	T81-8	A 41	Z PIPA COMMAND LO		
J3-32	K3-5	A 84	SERVO TEST COMMAND (LO)(IG)		
J3-34	K1-5	A 86	SERVO TEST COMMAND (LO)(OG)		
J3-39	K4-8	A 83	CONTROL 1 (ACE)		
J4			CONNECTOR MS3102R14S-7S(C)(1896916-107) FIGURE 9		
J4-A	A60-3	A 51	PIPA HARDLINE A (HI)		
J4-B	A60-1	A 52	PIPA HARDLINE B (LO)		
J4-C	E1	A 53	STRUCTURE AND SHIELD GROUND		
J5			CONNECTOR 1897252-107 FIGURE 12		
J5-5	E27	A 133	+28VDC IMU STANDBY T.P.		
J5-6	E29	A 139	OPTICS +28VDC T.P.		
J5-7	E34-8	A 204	800 CPS 28V 5 PERCENT (PH A+B COM)		
J5-8	E54	A 478	IRIG TEMP (FROM SIG COND) (HI)		
J5-9	E55	A 481	IRIG TEMP (FROM SIG COND) (LO)		
J5-14	E26-88	A 79	IMU OPERATE OVDC		
J5-15	E25	A 130	IMU OPERATE +28VDC T.P.		
J5-16	E30	A 141	OPTICS OVDC		
J5-17	A59-9	A 209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J5-18	A59-5	A 202	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J5-19	E56	A 483	CONTROL HEATER SIGNAL (TELE)		
J5-26	E51-88	A 434	0 VDC OPTICS (SHIELD)		
J5-30	E41	A 400	SXT SHAFT MDA P/A MON (HI)		
J5-31	E52	A 430	SXT SHAFT MDA O/P MON PH 1 (HI)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J5			CONNECTOR 1897252-107 FIGURE 12		
J5-32	A27-1	A 299	OG IRIG ERROR, BUFFERED		
J5-33	A23-1	A 289	IG+Y IRIG ERROR, BUFFERED		
J5-34	E35-88	A 217	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J5-35	A59-26	A 224	800 CPS 28V 5 PERCENT-OPT MON HI		
J5-36	E63	A 504	BLOWER SIGNAL (TELE) HI		
J5-38	E44-88	A 411	SXT TRUNNION TACH (LO)		
J5-39	E45	A 417	SXT SHAFT MDA TACH MON HI		
J5-40	E42-88	A 405	SXT SHAFT TACH (LO)		
J5-44	E47	A 422	SCT SHAFT MDA TACH MON (HI)		
J5-45	E48	A 423	SCT SHAFT MDA TACH FEEDBACK (LO)		
J5-46	E50	A 428	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J5-47	E49	A 426	SCT TRUNNION MDA TACH MON (HI)		
J5-50	E11-8	A 553	STRUCTURE AND SHIELD GROUND		
J5-51	E43	A 403	SXT TRUNNION MDA P/A MON (HI)		
J5-52	E53	A 435	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J5-54	A23-19	A 301	MG IRIG ERROR, BUFFERED		
J5-55	E36-88	A 290	OVDC IMU		
J5-56	E6	A 31	3200 CPS 28V 1 PERCENT MON (HI)		
J5-57	E5-88	A 28	PIPA G/S OUTPUT (LO)		
J5-58	A59-28	A 215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J5-59	A59-24	A 227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J5-60	A11-6	A 229	800 CPS 28V 1 PERCENT IMU MON (LO)		
J5-61	E46	A 419	SXT TRUNNION MDA TACH MON HI		
J6			CONNECTOR 1897252-106 FIGURE 12		
J6-1	A46-1	A 374	MG COURSE ERROR		
J6-2	E58	A 489	CGC TEMPERATURE MON (LO)		
J6-3	A45-1	A 370	IG COURSE ERROR		
J6-4	A3-1	A 378	OG COURSE ERROR		
J6-5	A46-19	A 372	MG FINE ERROR		
J6-6	E17	A 97	SERVO AMP TEST INPUT (MG)		
J6-7	E18	A 103	SERVO AMP TEST INPUT (OG)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6			CONNECTOR 1897252-106 FIGURE 12		
J6-8	T81-1	A 486	CGC TEMPERATURE MON (HI)		
J6-9	E20	A 115	+4VDC CGC T.P.		
J6-10	T2-2	A 333	YAW CDU ATT ERROR (LO)		
J6-11	T2-1	A 331	YAW CDU ATT ERROR (HI)		
J6-12	A4-1	A 382	SHAFT FINE ERROR		
J6-13	A4-19	A 380	TRUNNION FINE ERROR		
J6-14	A45-19	A 368	IG FINE ERROR		
J6-15	A3-19	A 376	OG FINE ERROR		
J6-16	E14	A 185	-28VDC (T.P. HI)		
J6-17	E38	A 318	SERVO AMP OUTPUT MON (MG LO)		
J6-18	E16	A 92	SERVO AMP TEST INPUT (IG)		
J6-19	E2	A 10	Y PIPA G/S OUTPUT (HI)		
J6-20	E5-8	A 23	PIPA G/S OUTPUT (LO)		
J6-21	K4-7	A 75	ACE BIAS 2		
J6-22	E19	A 112	+14VDC CGC T.P.		
J6-23	T3-1	A 335	ROLL CDU ATT ERROR (HI)		
J6-24	T1-2	A 329	PITCH CDU ATT ERROR (LO)		
J6-25	E11-88	A 60	STRUCTURE AND SHIELD GROUND		
J6-26	E23	A 124	CDU TEST POINT 4V		
J6-27	E24-88	A 126	CDU TEST POINT + ERROR COM		
J6-31	E31-88	A 193	+20VDC T.P. HI		
J6-32	E60	A 495	PIPA CAL MOD TEMP (LO)		
J6-33	E15	A 187	-28VDC (LO)		
J6-34	E39	A 321	SERVO AMP OUTPUT MON (OG LO)		
J6-35	E40	A 324	SERVO AMP OUTPUT MON (IG LO)		
J6-36	E37-88	A 313	SERVO AMP TEST POINT LO		
J6-37	E5-8	A 22	PIPA G/S OUTPUT (LO)		
J6-38	E4	A 17	X PIPA G/S OUTPUT (HI)		
J6-39	E13	A 71	INHIBIT POWER FAIL		
J6-40	K4-3	A 77	ACE BIAS 1		
J6-41	E28	A 136	+28VDC COMPUTER T.P.		
J6-42	E12	A 68	OVDC COMPUTER T.P.		
J6-43	T3-2	A 337	ROLL CDU ATT ERROR (LO)		
J6-44	T1-1	A 327	PITCH CDU ATT ERROR (HI)		
J6-45	E9	A 57	3.2 KPPS PH A (HI)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) K2			RELAY 1015832-118 FIGURE 22		
K2-8	K1-8	AA 34	SERVO AMP TEST INPUT		
K2-8	A59-13	A 87	SERVO AMP TEST INPUT		
K3			RELAY 1015832-118 FIGURE 22		
K3-1	TB1-19	AA 20	+28 VDC ACE ENABLE		
K3-1	TB1-21	AA 21	+28 VDC ACE ENABLE		
K3-2	S6-2	A 89	SERVO AMP TEST INPUT (IG)		
K3-3	S6-1	A 90	SERVO AMP TEST INPUT (IG)		
K3-3	E16	A 91	SERVO AMP TEST INPUT (IG)		
K3-5	TB1-22	AA 31	SERVO TEST COMMAND (LO)(IG)		
K3-5	J3-32	A 84	SERVO TEST COMMAND (LO)(IG)		
K3-8	A59-20	A 88	SERVO AMP TEST INPUT (IG)		
K4			RELAY 1015832-118 FIGURE 22		
K4-1	TB1-17	AA 17	+28 VDC ACE ENABLE		
K4-1	TB1-19	AA 19	+28 VDC ACE ENABLE		
K4-3	J7-40	A 76	ACE BIAS 1		
K4-3	J6-40	A 77	ACE BIAS 1		
K4-4	J3-20	A 81	CONTROL 2 (ACE)		
K4-5	TB1-18	AA 29	R START CONTROL ENABLED (LO)		
K4-5	TB1-20	AA 30	R START CONTROL ENABLED (LO)		
K4-7	J7-21	A 74	ACE BIAS 2		
K4-7	J6-21	A 75	ACE BIAS 2		
K4-8	J3-39	A 83	CONTROL 1 (ACE)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K5			RELAY 1015832-118 FIGURE 22		
K5-1	K6-1	AA 15	+28 VDC ACE ENABLE		
K5-1	TB1-17	AA 16	+28 VDC ACE ENABLE		
K5-3	S3-2	A 73	INHIBIT POWER FAIL		
K5-5	K6-5	AA 27	R START CONTROL ENABLED (LO)		
K5-5	TB1-18	AA 28	R START CONTROL ENABLED (LO)		
K5-8	S1-3	A 554	28VDC IMU STANDBY (PSAAM PWR)		
K6			RELAY 1015832-118 FIGURE 22		
K6-1	TB1-15	AA 14	+28 VDC ACE ENABLE		
K6-1	K5-1	AA 15	+28 VDC ACE ENABLE		
K6-3	K6-7	AA 13	0VDC COMPUTER T.P.		
K6-4	J3-8	A 65	0VDC AGC DAC NO. 2		
K6-5	TB1-16	AA 26	R START CONTROL ENABLED (LO)		
K6-5	K5-5	AA 27	R START CONTROL ENABLED (LO)		
K6-7	K6-3	AA 13	0VDC COMPUTER T.P.		
K6-7	E12	A 67	0VDC COMPUTER T.P.		
K6-8	J3-22	A 66	0VDC AGC DAC NO.1		
K7			RELAY 1015832-118 FIGURE 22		
K7-1	TB1-13	AA 7	+28 VDC ACE ENABLE		
K7-1	TB1-15	AA 8	+28 VDC ACE ENABLE		
K7-2	K8-8	A 35	SELECTED PIPA OUTPUT		
K7-3	S2-2	A 37	3200 CPS BUFFERED HI		
K7-3	A59-2	A 38	3200 CPS BUFFERED HI		
K7-5	TB1-14	AA 12	PIPA REF COMMAND LO		
K7-8	S2-6	A 36	SELECTED PIPA OUTPUT		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K8			RELAY 1015832-118 FIGURE 22		
K8-1	TB1-11	AA 5	+28 VDC ACE ENABLE		
K8-1	TB1-13	AA 6	+28 VDC ACE ENABLE		
K8-2	K9-8	A 34	SELECTED PIPA OUTPUT		
K8-3	E4	A 19	X PIPA G/S OUTPUT (HI)		
K8-3	S2-3	A 20	X PIPA G/S OUTPUT (HI)		
K8-5	TB1-12	AA 11	X PIPA COMMAND LO		
K8-8	K7-2	A 35	SELECTED PIPA OUTPUT		
K9			RELAY 1015832-118 FIGURE 22		
K9-1	TB1-9	AA 3	+28 VDC ACE ENABLE		
K9-1	TB1-11	AA 4	+28 VDC ACE ENABLE		
K9-2	K10-8	A 33	Z PIPA COMMAND LO		
K9-3	E2	A 11	Y PIPA G/S OUTPUT (HI)		
K9-3	S2-4	A 12	Y PIPA G/S OUTPUT (HI)		
K9-5	TB1-10	AA 10	Y PIPA COMMAND LO		
K9-8	K8-2	A 34	SELECTED PIPA OUTPUT		
K10			RELAY 1015832-118 FIGURE 22		
K10-1	TB1-7	AA 1	+28 VDC ACE ENABLE		
K10-1	TB1-9	AA 2	+28 VDC ACE ENABLE		
K10-3	S2-5	A 15	Z PIPA G/S OUTPUT (HI)		
K10-3	E3	A 16	Z PIPA G/S OUTPUT (HI)		
K10-5	TB1-8	AA 9	Z PIPA COMMAND LO		
K10-8	K9-2	A 33	Z PIPA COMMAND LO		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S1			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S1-2	E7-BB	A 7	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	E8-BB	A 54	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	K5-8	A 554	28VDC IMU STANDBY (PSAAM PWR)		
S2			SWITCH-ROTARY 1897379-001 FIGURE 19		
S2-2	K7-3	A 37	3200 CPS BUFFERD HI		
S2-3	K8-3	A 20	X PIPA G/S OUTPUT (HI)		
S2-4	K9-3	A 12	Y PIPA G/S OUTPUT (HI)		
S2-5	K10-3	A 15	Z PIPA G/S OUTPUT (HI)		
S2-6	K7-8	A 36	SELECTED PIPA OUTPUT		
S2-C1	A22-1	A 45	3200 CPS BUFFERED HI		
S3			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S3-1	E13	A 70	INHIBIT POWER FAIL		
S3-2	K5-3	A 73	INHIBIT POWER FAIL		
S4			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S4-1	K1-3	A 100	SERVO AMP TEST INPUT (OG)		
S4-2	K1-2	A 99	SERVO AMP TEST INPUT (OG)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE REV LTR D SHEET 66 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S5			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S5-1	K2-3	A 95	SERVO AMP TEST INPUT (MG)		
S5-2	K2-2	A 94	SERVO AMP TEST INPUT (MG)		
S6			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S6-1	K3-3	A 90	SERVO AMP TEST INPUT (IG)		
S6-2	K3-2	A 89	SERVO AMP TEST INPUT (IG)		
SHLD			SHIELD GROUND		
SHLD A55	E11-8	A 55A	STRUCTURE AND SHIELD GROUND		
SHLD A401	E51-8	A 401A	0 VDC OPTICS (SHIELD)		
SHLD A404	E51-8	A 4C4A	0 VDC OPTICS (SHIELD)		
SHLD A410	E51-8	A 410A	0 VDC OPTICS (SHIELD)		
SHLD A415	E51-8	A 415A	0 VDC OPTICS (SHIELD)		
SHLD A420	E51-8	A 420A	0 VDC OPTICS (SHIELD)		
SHLD A425	E51-8	A 425A	0 VDC OPTICS (SHIELD)		
T1			TRANSFORMER 1897413 FIGURE 23		
T1-1	J7-44	A 326	PITCH CDU ATT ERROR (HI)		
T1-1	J6-44	A 327	PITCH CDU ATT ERROR (HI)		
T1-2	J7-24	A 328	PITCH CDU ATT ERROR (LO)		
T1-2	J6-24	A 329	PITCH CDU ATT ERROR (LO)		
T1-3	A7-43	A 338	800 CPS DEMOD INPUT SIG (HI)		
T1-4	E24-88	A 383	CDU TEST POINT + ERROR COM		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 67 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
T2			TRANSFORMER 1897413 FIGURE 23		
T2-1	J7-11	A 330	YAW CDU ATT ERROR (HI)		
T2-1	J6-11	A 331	YAW CDU ATT ERROR (HI)		
T2-2	J7-10	A 332	YAW CDU ATT ERROR (LO)		
T2-2	J6-10	A 333	YAW CDU ATT ERROR (LO)		
T2-3	A6-43	A 339	800 CPS DEMOD INPUT SIG (HI)		
T2-4	E24-88	A 384	CDU TEST POINT + ERROR COM		
T3			TRANSFORMER 1897413 FIGURE 23		
T3-1	J7-23	A 334	ROLL CDU ATT ERROR (HI)		
T3-1	J6-23	A 335	ROLL CDU ATT ERROR (HI)		
T3-2	J7-43	A 336	ROLL CDU ATT ERROR (LO)		
T3-2	J6-43	A 337	ROLL CDU ATT ERROR (LO)		
T3-3	A5-43	A 340	800 CPS DEMOD INPUT SIG (HI)		
T3-4	E24-88	A 385	CDU TEST POINT + ERROR COM		
TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-1	J6-8	A 486	CGC TEMPERATURE MON (HI)		
TB1-1	J7-8	A 487	CGC TEMPERATURE MON (HI)		
TB1-2	J2-17	A 488	CGC TEMPERATURE (HI)		
TB1-3	J6-54	A 492	PIPA CAL MOD TEMP (HI)		
TB1-3	J7-54	A 493	PIPA CAL MOD TEMP (HI)		
TB1-4	J2-16	A 494	PIPA CAL MOD TEMP (HI)		
TB1-5	J6-56	A 498	PSA TEMPERATURE (HI)		
TB1-5	J7-56	A 499	PSA TEMPERATURE (HI)		
TB1-6	J2-15	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
TB1-7	K10-1	AA 1	+28 VDC ACE ENABLE		
TB1-7	J3-5	A 40	+28 VDC ACE ENABLE		
TB1-8	K10-5	AA 9	Z PIPA COMMAND LO		
TB1-8	J3-30	A 41	Z PIPA COMMAND LO		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 68 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-9	K10-1	AA 2	+28 VDC ACE ENABLE		
TB1-9	K9-1	AA 3	+28 VDC ACE ENABLE		
TB1-10	K9-5	AA 10	Y PIPA COMMAND LO		
TB1-10	J3-14	A 42	Y PIPA COMMAND LO		
TB1-11	K9-1	AA 4	+28 VDC ACE ENABLE		
TB1-11	K8-1	AA 5	+28 VDC ACE ENABLE		
TB1-12	K8-5	AA 11	X PIPA COMMAND LO		
TB1-12	J3-28	A 43	X PIPA COMMAND LO		
TB1-13	K8-1	AA 6	+28 VDC ACE ENABLE		
TB1-13	K7-1	AA 7	+28 VDC ACE ENABLE		
TB1-14	K7-5	AA 12	PIPA REF COMMAND LO		
TB1-14	J3-6	A 44	PIPA REF COMMAND LO		
TB1-15	K7-1	AA 8	+28 VDC ACE ENABLE		
TB1-15	K6-1	AA 14	+28 VDC ACE ENABLE		
TB1-16	K6-5	AA 26	R START CONTROL ENABLED (LO)		
TB1-16	J3-18	A 80	R START CONTROL ENABLED (LO)		
TB1-17	K5-1	AA 16	+28 VDC ACE ENABLE		
TB1-17	K4-1	AA 17	+28 VDC ACE ENABLE		
TB1-18	K5-5	AA 28	R START CONTROL ENABLED (LO)		
TB1-18	K4-5	AA 29	R START CONTROL ENABLED (LO)		
TB1-19	K4-1	AA 19	+28 VDC ACE ENABLE		
TB1-19	K3-1	AA 20	+28 VDC ACE ENABLE		
TB1-20	K4-5	AA 30	R START CONTROL ENABLED (LO)		
TB1-21	K3-1	AA 21	+28 VDC ACE ENABLE		
TB1-21	K2-1	AA 22	+28 VDC ACE ENABLE		
TB1-22	K3-5	AA 31	SERVO TEST COMMAND (LO)(IG)		
TB1-23	K2-1	AA 23	+28 VDC ACE ENABLE		
TB1-23	K1-1	AA 24	+28 VDC ACE ENABLE		
TB1-24	K2-5	AA 32	SERVO TEST COMMAND (LO)(MG)		
TB1-25	K1-1	AA 25	+28 VDC ACE ENABLE		
TB1-26	K1-5	AA 33	SERVO TEST COMMAND (LO)(OG)		

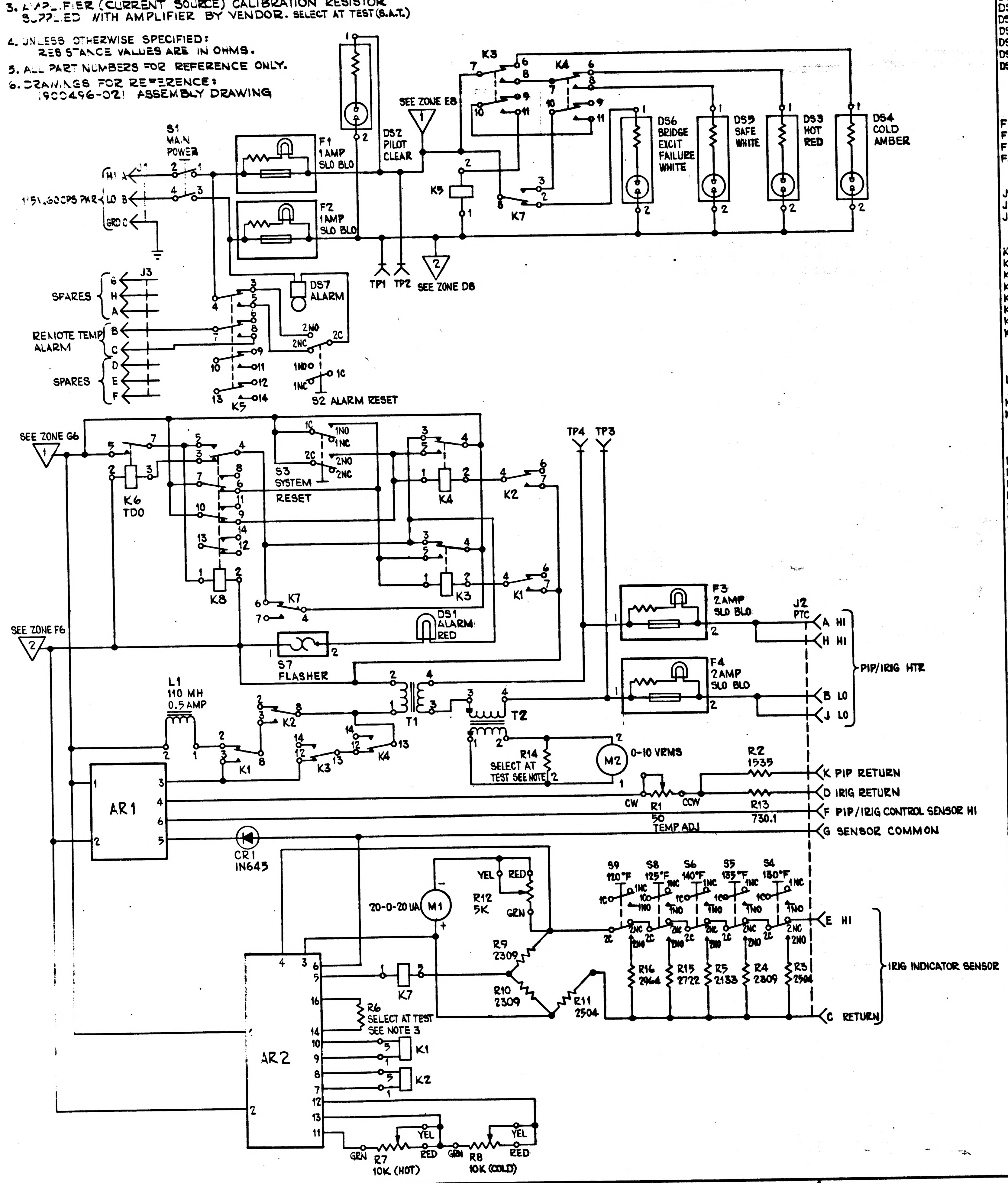
SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 69 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
XF1			FUSE F02B250V1/2A (1897099-025) FIGURE 17	C	
XF1-1	E7-88	A 8	28 VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-57	A 1	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-58	A 2	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-59	A 3	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 70 OF 70

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-130 (ES 267).
2. R14 CURRENT TRANSFORMER CALIBRATION RESISTOR SELECTED AT TEST (S.A.T.).
3. AMPLIFIER (CURRENT SOURCE) CALIBRATION RESISTOR SUPPLIED WITH AMPLIFIER BY VENDOR. SELECT AT TEST (S.A.T.)
4. UNLESS OTHERWISE SPECIFIED:
   RESISTANCE VALUES ARE IN OHMS.
5. ALL PART NUMBERS FOR REFERENCE ONLY.
6. DRAWINGS FOR REFERENCE:
   1900496-021 ASSEMBLY DRAWING


S1 MAIN POWER
115V,60CPS PWR
HI
LO
GRD
F1 1AMP SLO BLO
F2 1AMP SLO BLO
DS2 PILOT CLEAR
SEE ZONE E8
SEE ZONE D8
TP1
TP2
K3
K4
K5
K7
DS6 BRIDGE EXCIT FAILURE WHITE
DS5 SAFE WHITE
DS3 HOT RED
DS4 COLD AMBER
DS7 ALARM
J3
SPARES
REMOTE TEMP ALARM
SPARES
S2 ALARM RESET
SEE ZONE G6
K6 TDO
S3 SYSTEM RESET
K8
K2
K1
TP4
TP3
DS1 ALARM RED
SEE ZONE F6
S7 FLASHER
F3 2AMP SLO BLO
F4 2AMP SLO BLO
J2 PTC
A HI
H HI
B LO
J LO
PIP/IRIG HTR
L1 110 MH 0.5AMP
T1
T2
M2 0-10 VRMS
R14 SELECT AT TEST SEE NOTE 2
R2 1535
K PIP RETURN
D IRIG RETURN
AR1
CW
R1 50 TEMP ADJ
CCW
R13 730.1
F PIP/IRIG CONTROL SENSOR HI
G SENSOR COMMON
CR1 1N645
20-0-20UA M1
YEL
RED
GRN
R12 5K
S9 120°F
S8 125°F
S6 140°F
S5 135°F
S4 130°F
R9 2309
R10 2309
R11 2504
R16 2964
R15 2722
R5 2133
R4 2309
R3 2504
E HI
C RETURN
IRIG INDICATOR SENSOR
AR2
R6 SELECT AT TEST SEE NOTE 3
R7 10K (HOT)
R8 10K (COLD)

REF DES	PART NUMBER	DESCRIPTION	VALUE, TOL, & RATING
AR1	1016377	CONTROL AMPL	
AR2	1016384	ALARM AMPL	
CR1	1010362-001	DIODE	1N645 400MA
DS1	MS15567	LAMP INCAND.	
DS2	1016242-1	LIGHT INDICATOR	
DS3	-2		
DS4	-3		
DS5	-4		
DS6	1016242-2	LIGHT INDICATOR	
DS7	1016243	BELL	115V,60 CPS
F1	MS90078-24	(1897077-024) FUSE	1 AMP SLOW BLOW
F2	MS90078-24	(1897077-024)	1
F3	F02B125V2AS	(1897099-129)	2
F4	F02B125V2AS	(1897099-129) FUSE	2 AMP SLOW BLOW
J1	MS3120E-12-3PY	CONNECTOR, RECEP	
J2	MS3120E-12-10SW	CONNECTOR, RECEP	
J3	1016244-002	CONNECTOR, JACK	
K1	1015832-112	RELAY	200Ω 22.2MA
K2	1015832-112		200Ω 22.2MA
K3	1016246		3000Ω 115V60CPS
K4	1016246		3000Ω
K5	1016246		3000Ω
K6	1015833-10		5SEC 115V60CPS
K7	1015832-120		7800Ω 3.6MA
K8	1016246	RELAY	3000Ω 115V 60CPS
L1	1016063	REACTOR	
M1	1016080-515	METER	20-0-20UA ±2%
M2	1016248	METER	0-10VRMS ±3%
R1	1016251	RESISTOR VAR.	50(10T) ±5% 2.5W
R2	1016252-5		1535 0.1 1/4
R3	1016252-4		2504 0.1 1/4
R4	1016252-3		2309 0.1 1/4
R5	1016252-2		2133 0.1 1/4
R6	1010267-S.A.T.	SEE NOTE 3	1 1/2
R7	1016253-2	VAR.	10K 5 1
R8	1016253-2	VAR.	10K 5 1
R9	1016252-3		2309 0.1 1/4
R10	1016252-3		2309 0.1 1/4
R11	1016252-4		2504 0.1 1/4
R12	1897260-009	VAR.	5K 5 1
R13	1016252-6		730.1 0.1 1/4
R14	1010267-S.A.T.	SEE NOTE 2	1 1/2
R15	1016252-7		2722 1 1/4
R16	1016252-8	RESISTOR	2964 ±1% 1/4 W
S1	MS35059-22	SWITCH	DPST
S2	1016254		DPDT
S3	1021575		
S4			
S5			
S6	1021575	SWITCH	DPDT
S7	1016255	FLASHER	
S8	1021575	SWITCH	DPDT
S9	1021575	SWITCH	DPDT
T1	1015997	TRANSFORMER	115V-30V, 2AMPS
T2	1015436	TRANSFORMER	10V 2AMPS
TP1	MS16108-2A	(1897148-002) JACKS,	TIP, LOW VOLTAGE
TP2	-2A	(-002)	
TP3	-3A	(-003)	
TP4	MS16108-3A	(1897148-003) JACKS,	TIP, LOW VOLTAGE
XDS1	1016241	LIGHT, IND. ASSY	
XF1	1015466-1	FUSE HOLDER	
XF2	-1		
XF3	-2		
XF4	1015466-2	FUSE HOLDER	

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 30013		26 MAY 66	

NEXT ASSY	USED ON
1900496-021	1900496-021

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R. Baker DATE 3 MAY 66
CHECKED [illegible] 10 MAY 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL-
APOLLO IMU PORTABLE
TEMPERATURE CONTROLLER

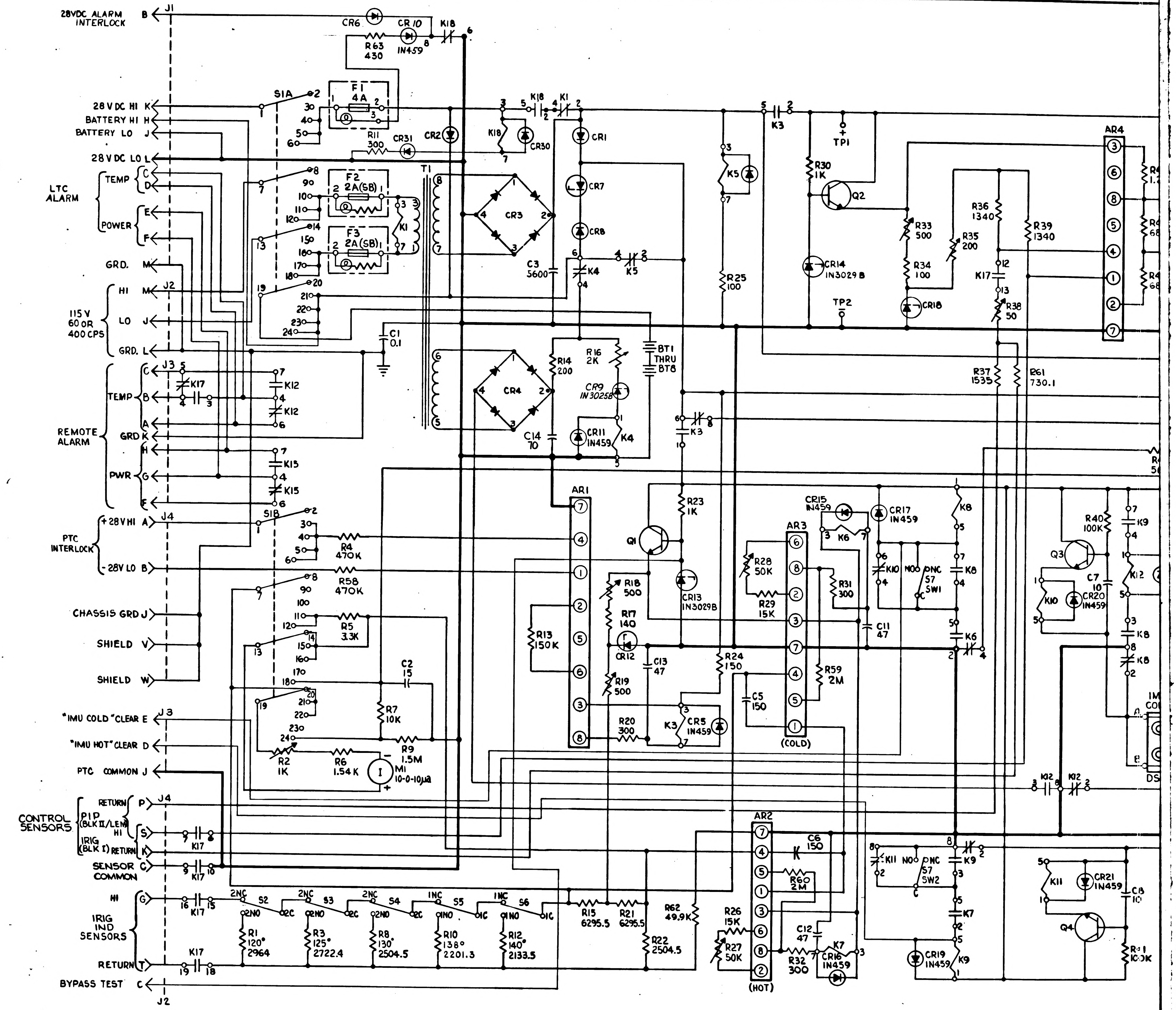
SIZE E
CODE IDENT NO. 99974
2901523
SCALE ~
SHEET 1 OF 1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

   2900060-021 PORTABLE TEMPERATURE CONTROLLER ASSEMBLY

4. UNLESS OTHERWISE SPECIFIED:
   A. RELAYS AND SWITCHES ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   B. VALUES ARE IN OHMS AND MICROFARADS.


28VDC ALARM INTERLOCK
J1
28 V DC HI
BATTERY HI
BATTERY LO
28 V DC LO
LTC ALARM
TEMP
POWER
GRD.
J2
115 V 60 OR 400 CPS
HI
LO
GRD.
J3
REMOTE ALARM
TEMP
GRD
PWR
J4
PTC INTERLOCK
+28V HI
-28V LO
CHASSIS GRD
SHIELD
SHIELD
"IMU COLD" CLEAR
"IMU HOT" CLEAR
PTC COMMON
CONTROL SENSORS
RETURN
PIP (BLK II/LEM)
HI
IRIG (BLK I)
RETURN
SENSOR COMMON
IRIG IND SENSORS
HI
RETURN
BYPASS TEST
S1A
S1B
F1 4A
F2 2A(SB)
F3 2A(SB)
T1
CR6
CR10 IN459
K18
R63 430
R11 300
CR31
CR2
CR30
K1
CR1
CR7
CR8
CR3
CR4
C3 5600
K4
K5
C1 0.1
R14 200
R16 2K
CR9 IN3025B
CR11 IN459
BT1 THRU BT8
C14 10
K3
R25 100
R30 1K
Q2
TP1
TP2
CR14 IN3029B
R33 500
R34 100
CR18
R35 200
R36 1340
R39 1340
K17
R38 50
R37 1535
R61 730.1
AR4
K12
K15
R4 470K
R58 470K
R5 3.3K
C2 15
R7 10K
R9 1.5M
R2 1K
R6 1.54K
M1 10-0-10μa
AR1
Q1
R23 1K
CR13 IN3029B
R18 500
R17 140
CR12
R13 150K
C13 47
R19 500
R20 300
CR5 IN459
R24 150
AR3
R28 50K
R29 15K
R31 300
C5 150
R59 2M
(COLD)
CR15 IN459
CR17 IN459
K6
K10
S7 SW1
C11 47
K8
R40 100K
Q3
K9
C7 10
CR20 IN459
S2
S3
S4
S5
S6
R1 120° 2964
R3 125° 2722.4
R8 130° 2504.5
R10 138° 2201.3
R12 140° 2133.5
R15 6295.5
R21 6295.5
R62 49.9K
R22 2504.5
AR2
C6 150
R60 2M
R26 15K
R27 50K
C12 47
K7
R32 300
CR16 IN459
(HOT)
K11
S7 SW2
CR19 IN459
CR21 IN459
Q4
C8 10
R41 100K
DS

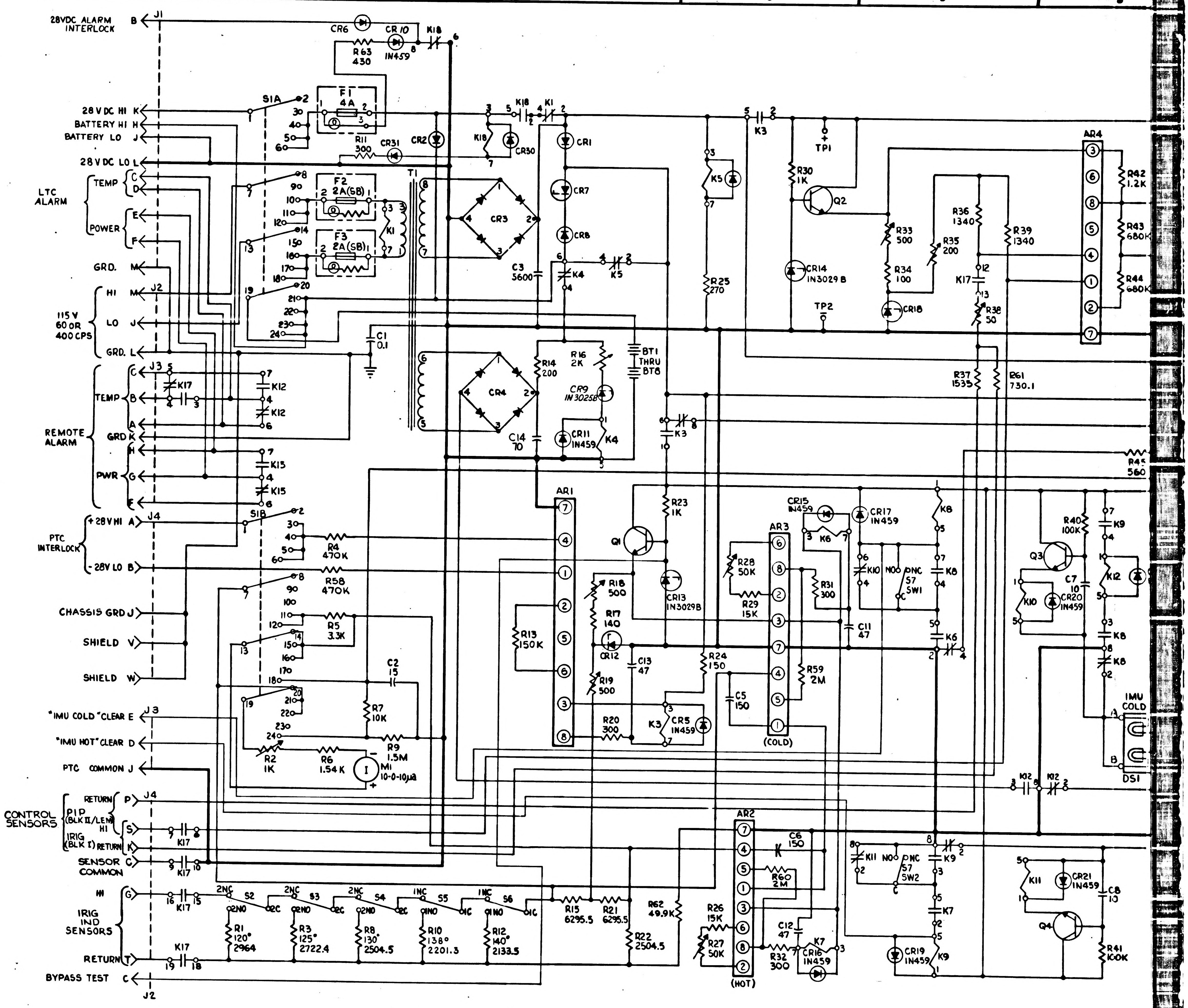
2901543

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

2900060-021	PORTABLE TEMPERATURE CONTROLLER ASSEMBLY

4. UNLESS OTHERWISE SPECIFIED:
   - A. RELAYS AND SWITCHES ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   - B. VALUES ARE IN OHMS AND MICROFARADS.



28VDC ALARM INTERLOCK B
J1
28 V DC HI K
BATTERY HI H
BATTERY LO J
28 V DC LO L
LTC ALARM
TEMP C D
POWER E F
GRD. M
115 V 60 OR 400 CPS
HI M
LO J
GRD. L
J2
REMOTE ALARM
J3
TEMP C B A
GRD K
PWR H G F
PTC INTERLOCK
+28V HI A
-28V LO B
J4
CHASSIS GRD J
SHIELD V
SHIELD W
"IMU COLD" CLEAR E
"IMU HOT" CLEAR D
PTC COMMON J
CONTROL SENSORS
RETURN P
PIP (BLK II/LEM) HI S
IRIG (BLK I) RETURN K
SENSOR COMMON C
IRIG IND SENSORS
HI G
RETURN T
BYPASS TEST C
CR6
CR10 1N459
R63 430
K18
S1A
F1 4A
R11 300
CR31
CR2
F2 2A(SB)
F3 2A(SB)
K1
T1
CR3
CR4
CR30
CR1
CR7
CR8
C3 5600
K4
K5
C1 0.1
R14 200
R16 2K
CR9 IN3025B
CR11 1N459
C14 10
BT1 THRU BT8
K3
R25 270
R30 1K
Q2
TP1
TP2
CR14 1N3029 B
R33 500
R34 100
CR18
R35 200
R36 1340
R39 1340
K17
R38 50
R37 1535
R61 730.1
AR4
R42 1.2K
R43 680K
R44 680K
R45 560
K12
K15
S1B
R4 470K
R58 470K
R5 3.3K
C2 15
R7 10K
R9 1.5M
R2 1K
R6 1.54 K
M1 10-0-10μa
AR1
R13 150K
R18 500
R17 140
CR12
R19 500
C13 47
R20 300
Q1
R23 1K
CR13 IN3029B
CR5 1N459
R24 150
C5 150
AR3 (COLD)
R28 50K
R29 15K
R31 300
R59 2M
CR15 1N459
K6
CR17 1N459
K10
S7 SW1
C11 47
K8
R40 100K
K9
Q3
C7 10
CR20 1N459
IMU COLD
IMU HOT
DS1
S2 S3 S4 S5 S6
R1 120° 2964
R3 125° 2722.4
R8 130° 2504.5
R10 138° 2201.3
R12 140° 2133.5
R15 6295.5
R21 6295.5
R62 49.9K
R22 2504.5
AR2 (HOT)
C6 150
R60 2M
R26 15K
R27 50K
C12 47
R32 300
CR16 1N459
K7
K11
S7 SW2
CR19 1N459
CR21 1N459
C8 10
Q4
R41 100K

AC ELECTRONICS DIVISION 2901543

2901543 C SH 1 OF 1

172901543

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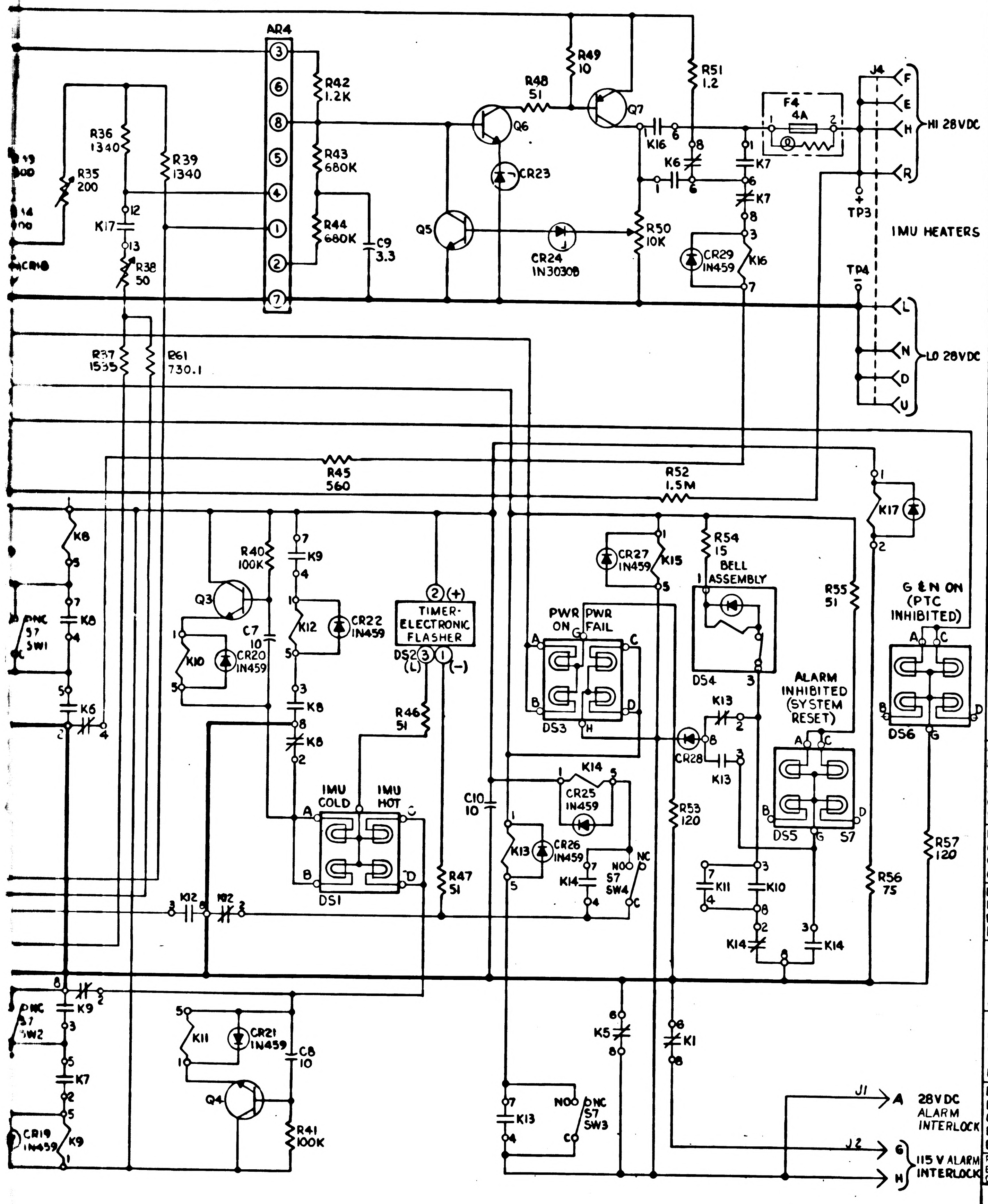

AR4
R42 1.2K
R43 680K
R44 680K
C9 3.3
R36 1340
R35 200
R39 1340
K17
R38 50
R48 51
R49 10
R51 1.2
Q6
Q7
Q5
CR23
CR24 1N3030B
R50 10K
K16
K6
K7
CR29 1N459
F4 4A
J4
HI 28VDC
IMU HEATERS
TP3
TP4
LO 28VDC
R37 1535
R61 730.1
R45 560
R52 1.5M
K8
R40 100K
Q3
C7 10
K10
CR20 1N459
K9
K12
CR22 1N459
TIMER-ELECTRONIC FLASHER
DS2
R46 51
PWR ON
PWR FAIL
DS3
CR27 1N459
K15
R54 15
BELL ASSEMBLY
DS4
ALARM INHIBITED (SYSTEM RESET)
DS5
S7
R55 51
G & N ON (PTC INHIBITED)
DS6
IMU COLD
IMU HOT
DS1
R47 51
C10 10
K14
CR25 1N459
K13
CR26 1N459
S7 SW4
R53 120
CR28
K11
R56 75
R57 120
K12
S7 SW1
S7 SW2
CR19 1N459
CR21 1N459
C8 10
Q4
R41 100K
K5
K1
S7 SW3
J1
28VDC ALARM INTERLOCK
J2
115 V ALARM INTERLOCK

REVISIONS

SYM	ZONE	DESCRIPTION	CHG. NO.	DATE	APPD
A		REVISED PER DQ 62420		14 OCT -66	DG
B		INITIAL RELEASE CLASS A PER TDRR			
C		REVISED PER TDRR 32735		26 JAN 67	LL
D		REVISED PER TDRR 33734		11 JULY	
E		REVISED PER TDRR 35297		4 Jan	

PARTS TABLE

ZONE	REF. DES.	PART NUMBER	DESCRIPTION	SCHEM DIAG OR VALUE, TOL & RATING
E-11	AR1	1897261	COMPARATOR	28 VDC, 50MA
B-10	2	↓	↓	↓
D-10	3			
G-8	4			
F-11	BT1 THRU BT8	1897268-001	BATTERY	4.0 VOLTS
F-12	C 1	CTM104VBK(1896957-046)	CAP MIL-C-27287/1	0.1 UF, ±10% 200VDC
C-12	2	CS13BE156K(1896954-103)	MIL-C-26655/2	15 ±10% 20
F-11	3	CE71C562G(1896872-119)	MIL-C-62/12	5600 ±73% 50
C-10	5	CS13BB157K(-060)		150 6
B-10	6	CS13BB157K(-060)		150 6
D-8	7	CS13BF106K(-144)		10 35
B-8	8	CS13BF106K(-144)		10 35
F-8	9	CS13BD335K(-082)		3.3 15
D-7	10	CS13BG106K(-176)		10 50
D-10	C11	CS13BF476K(-156)		47 35
B-10	C12	↓	↓	↓
C-11	C13			
F-11	C14	CL25BL700UP3 (1897081-324)	CAP MIL-C-3965/2A	70V +75-15%
G-11	CR1	1015967-001	SEMI-CONDUCTOR (DIODE)	
G-12	2	1015937-001		
G-12	3	1897277-001		
F-12	4	1897277-001		
C-12	5	1N459 (1896966-291)	MIL-S-19500/193A	
H-12	6	1015937-001		
G-11	7	1N2976B(1896966-075)		12V, 210MA
G-11	8	1015937-001		
F-11	9	1N3025B(1896966-187)	MIL-S-19500/1150	
H-12	10	1N459(1896966-291)	MIL-S-19500/193A	
E-11	11	1N459 (1896966-291)	MIL-S-19500/193A	
D-11	12	1897251-004		
D-11	13	1N3029B(1896966-069)	MIL-S-19500/1150	
F-10	14	1N3029B(-069)	/1150	
D-10	15	1N459 (-291)	/193A	
A-10	16	↓	↓	
E-9	17			
F-9	18	1897251-004		
A-9	19	1N459 (1896966-291)	MIL-S-19500/193A	
D-8	20			
B-8	21	↓	↓	
D-8	22			
G-7	23	1015939-008		
F-7	24	1N3030B(1896966-070)	MIL-S-19500/1150	
D-7	25	1N459 (-291)	/193A	
C-7	26	↓	↓	
E-7	27			
D-6	28	1015937-001		
F-6	29	1N459 (1896966-291)	MIL-S-19500/193A	
G-11	30	↓	↓	
G-12	31			
C-8	DS1	(4) MS25237-327	LAMP INCANDESCENT	
D-8	2	1015925-002	TIMER-ELEC FLASHER	
D-7	3	(4) MS25237-327	LAMP INCANDESCENT	
D-6	4	2900520	BELL ASSEMBLY	
C-6	5	(4) MS25237-327	LAMP INCANDESCENT	
D-5	6	(4) MS25237-327	LAMP INCANDESCENT	
H-12	F 1	F02A250V4AS(1897099-113)	FUSE-MIL-F-15160/02	4A, 250V
G-12	2	F02B125V2AS(-129)	↓	2A, 125V
G-12	3	(-129)		↓
G-6	4	F02A250V4AS(-113)		4A, 250V
H-13	J 1	MS3127E-14-12P(1897115-120)	CONNECTOR	
F-13	2	-14-12PW(1897115-121)	↓	
F-13	3	-12-10P(1897119-100)		
F-13	4	-18-32S(1897122-320)		
G-12	K 1	1015982-003	RELAY	115V, 2PDT
C-11	3	1015982-004		28V.
E-11	4	1015832-318		5.6MA,
G-10	5	1015802-004		28V,
D-10	6	1015982-007		28V,
B-10	7	1015982-007		28V,
E-9	8	1015832-318		5.6MA,
A-9	9	-		
D-9	10	-		
B-9	11	-		
D-8	12	-		
C-7	13	-		
D-7	14	-		
E-7	15	-		5.6MA,
F-6	16	1015982-007		28V, 2PDT
E-6	17	1015837-001		28V, 6PDT
G-12	18	1015982-007	RELAY	28V, 2PDT
	XDS1	1015869-783	LIGHT INDICATOR	
	XDS3	-785	LIGHT INDICATOR	
	XDS5	-748	IND. LT SW ASSY	
	XDS6	1897337-101	LIGHT INDICATOR	
	XF1	1015873-009	FUSEHOLDER	
	XF2	-001		
	XF3	-001		
	XF4	1015873-008	FUSEHOLDER	

ZONE	REF. DES.	PART NUMBER	DESCRIPTION		SCHEM DIAG OR VALUE, TOL & RATING
C-12	M 1	1016080-514	METER		10-0-10 μa
D-11	Q 1	1015928-001	TRANSISTOR		
G-10	2	↓	↓		
D-8	3				
B-8	4				
F-7	5	1015935-			
G-7	6	1015928-			
G-7	7	1897309-			
B-13	R 1	1016053-023	RESISTOR		2964 ±.01%
C-13	2	1897260-007		-VAR	1K ±5%
B-13	3	1016053-020			2722.4 ±.01%
D-12	4	RC20GF474J(1896952-121)			470K ±5%
D-12	5	RC20GF332J(1896952-061)			3.3K ±5%
C-12	6	RN60C1541F(1896976-307)			1.54K ±1%
C-12	7	RN60C1002F(1896976-385)			10K ±1%
B-12	8	1016053-005			2504.5 ±.01%
C-12	9	RC20GF155J(1896952-125)			1.5M ±5%
B-12	10	1016053-029			2201.3 ±.01%
G-12	11	RC20GF301J(1896952-036)			300 ±5%
B-12	12	1016053-004			2133.5 ±.01%
D-11	13	RN60C1503F(1896976-498)			150K ±1%
F-11	14	RW69V201(1896929-068)			200 ±5%
B-11	15	1016053-021			6295.5 ±.01%
E-11	16	1897260-009		-VAR	5K ±5% SEE NOTE 5
D-11	17	RN60C1400(1896984-250)			140 ±.25%
D-11	18	1897260-006		-VAR	500 ±5%
C-11	19	1897260-006		-VAR	500 ±5%
C-11	20	RC20GF301J(1896952-036)			300 ±5%
B-11	21	1016053-021			6295.5 ±.01%
B-11	22	1016053-005			2504.5 ±.01%
E-11	23	RC20GF102J(1896952-049)			1K ±5%
C-10	24	RC32GF151J(1896953-043)			150 ±5%
E-10	25	RC32GF271J(1896953-049)			270 ±5%
B-10	26	RN60C1502F(1896984-402)			15K ±1%
B-10	27	1897260-013		-VAR	50K ±5%
D-10	28	1897260-013		-VAR	50K ±5%
D-10	29	RN60C1502F(1896984-402)			15K ±1%
C-10	30	RC20GF102J(1896952-049)			1K ±5%
D-10	31	RC20GF301J(1896952-036)			300 ±5%
B-10	32	RC20GF301J(1896952-036)			300 ±5%
G-9	33	1897260-006		-VAR	500 ±5%
F-9	34	RN60C1000(1896984-222)			100 ±.25%
F-9	35	1897260-005		-VAR	200 ±5%
G-9	36	1016053-019			1340 ±.01%
F-9	37	1016053-012			1535 ±.01%
F-9	38	1897260-003		-VAR	50 ±5%
G-9	39	1016053-019			1340 ±.01%
E-8	40	RC20GF104J(1896952-097)			100K ±5%
B-8	41	RC20GF104J(1896952-097)			100K
G-8	42	RC20GF122J(1896952-051)			1.2K
G-8	43	RC20GF684J(1896952-117)			680K
F-8	44	RC20GF684J(1896952-117)			680K
E-8	45	RC32GF561J(1896953-057)			560
D-8	46	RC42GF510J(1896951-018)			51
C-7	47	RC32GF510J(1896953-032)			51
G-7	48	RC42GF510J(1896951-018)			51
G-7	49	RC20GF100J(1896952-001)			10
F-7	50	1897260-010		-VAR	10K ±5%
G-6	51	RE70G1R21 (1897094-105)			1.2 ±1%
E-6	52	RC20GF155J (1896952-125)			1.5M ±5%
D-6	53	RC42GF121J (1896951-027)			120 ±5%
E-6	54	RC42GF150J (1896951-005)			15
E-6	55	RC32GF510J (1896953-032)			51
C-6	56	RC42GF750J (1896951-022)			75 ±5%
C-5	57	RC42GF121J (1896951-027)			120 ±5%
D-12	58	RC20GF474J (1896952-113)			470K
D-10	59	RC20GF205J (1896952-128)			2M
B-10	60	RC20GF205J (1896952-128)			2M ±5%
F-9	61	1016053-024			730.1 ±.01%
B-11	62	RN60C4992F (1896976-452)			49.9K ±1%
G-12	63	RC20GF431J(1896952-040)	RESISTOR		430 ±5%
H-13	S1	1015825-036	SWITCH		
B-13	S2	1021575			
B-13	S3				
B-12	S4				
B-12	S5				
B-11	S6	1021575			
D-9	S7	SEE DS5	SWITCH		
G-12	T1	1897410	TRANSFORMER		
F-10	TP1	1016166-004	TEST JACK		
G-10	TP2	-006			
G-6	TP3	-004			
F-6	TP4	1016166-006	TEST JACK		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Gruenewald DATE 28 JUN 66
CHECKED Fesler 5 JUL 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
NET APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM
BLOCK II PTC
(PORTABLE TEMPERATURE CONTROLLER)
(2900060-021, -031)

CODE IDENT NO. 99974
2901543
NONE
SHEET 1 OF 1

27 2901543

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		E20-8B					.38	NO			
			E3-8B					.38	NO			
A 114	2	6.00	E15-8					.31	NO			
			P4-A9					.18	NO		21, 30	
A 115	2	6.00	E16-8					.31	NO			
			P4-A8					.18	NO		21, 30	
A 116	2	6.00	E15-8					.31	NO			
			P4-D9					.18	NO		21, 30	
A 117	2	6.00	E16-8					.31	NO			
			P4-D8					.18	NO		21, 30	
A 118	2	6.00	E15-8					.31	NO			
			P4-F9					.18	NO		21, 30	
A 119	2	6.00	E16-8					.31	NO			
			P4-F8					.18	NO		21, 30	
A 120	2	4.00	P2-P*					.22	NO		13	
			E23-8B					.31	NO			
A 121	2	4.00	P2-N*					.22	NO		13	
			E22-8B					.31	NO			

SIZE	CODE IDENT NO.	
A	99974	2901597
SCALE-NONE	REV LTR A	SHEET 34 OF 35

FORM 2084 9-65

APPLICATION	
NEXT ASSY	USED ON
1901492-041	1901492-041

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 36741	28 AUG 68	28 JUL 68

REV STATUS OF SHEETS								
REV	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

		DAY MO YR
DRAFTSMAN	PWOVSHEK	16 MAY 68
CHECKER	J. GRISE	23 MAY 68
ENGINEER	J. Williams	3 JUN 68
APPROVAL	M Winston	8-23-68
CONTR NO.	NAS 9-497	
NASA APPROVAL		
APPROVAL		

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED-W185

SIZE	CODE IDENT. NO	
A	99974	2901625

SCALE NONE

SHEET 1 OF 8

MIL 1377A6 12-66

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR WHITE.
6	GROMMET HOLES WITHOUT LEADS SHALL BE SEALED USING (ITEM 12 AND 13)
7	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES USING ITEMS (14, 15 AND 16)
8	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER-.12 INCH HIGH CHARACTERS.
9	ASSEMBLE PER ND1002032.
10	FILL IN SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 20 TO SECURE WIRE BUNDLE IN STRAIN RELIEF CLAMP.
11	FURNISHED WITH ITEM 4.
12	FURNISHED WITH ITEMS 5 AND 6.

NOTE NUMBER GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901625-001	WIRE, ND1002181, TYPE 1, CLASS 1, 16 AWG, WHT, 92 FT, TOTAL LENGTH
	2	1	2901625-002	WIRE, ND1002181, TYPE 1, CLASS 1, 20 AWG, WHT, 19 FT. TOTAL LENGTH
	3	1	2901625-003	WIRE, ND1002181, TYPE 1, CLASS 1, 22 AWG, WHT, 6 IN. TOTAL LENGTH
	4	1	MS3126F18-11P	(1897125-110) CONNECTOR - PLUG, ELECTRICAL, CRIMP TYPE
	5	1	MS3126F14-12S	(1897040-120) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
	6	1	MS3126F14-12SW	(1897040-121) CONNECTOR-PLUG, ELECTRICAL, CRIMP TYPE
3	7	1	1016006-001	SPLICE - REDUCER, PERMANENT, CRIMP STYLE
3	8	3	1016006-002	SPLICE - REDUCER, PERMANENT, CRIMP STYLE
3	9	4	1010490-258	INSULATION - SLEEVING, ELECTRICAL, HEAT SHRINKABLE, WHT
3	10	1	1016282-18	GROMMET - CONNECTOR, STRAIN RELIEF
3	11	2	1016282-14	GROMMET - CONNECTOR, STRAIN RELIEF
3	12	14	1897370-001	PLUG - END SEAL, ELECTRICAL CONNECTOR, BRN
3	13	3	1897370-002	PLUG - END SEAL, ELECTRICAL CONNECTOR, RED
11	14	X	MS3192-16A	(1896855-016) CONTACT - ELECTRICAL, PIN, CRIMP, REMOVABLE

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
12	15	X	MS3193A20A	(1896877-020) CONTACT - ELECTRICAL, SOCKET, CRIMP, REMOVABLE
12	16	X	MS3193-16A	(1896877-016) CONTACT - ELECTRICAL, SOCKET, CRIMP, REMOVABLE
3	17	1	2901625-004	TUBING - MODIFIED PVC, SHRINK FIT, FLEXIBLE, 1016197-006, 13 IN. TOTAL LENGTH
3	18	1	2901625-005	TUBING - MODIFIED PVC, SHRINKFIT, FLEXIBLE, 1016197-007, 19 IN. TOTAL LENGTH
3	19	1	2901625-006	TUBING - MODIFIED PVC, SHRINKFIT, FLEXIBLE, 1016197-008, 15 FT. TOTAL LENGTH
10	20	AR	MIL-I-631 TYPE F, FORMT	FILLER TPAE, .62 IN. WIDE, .02 IN. THICK, GRADE A, CLASS 1, BLACK

GRIEE 06/06/68 CABLE W185 2901625

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F	A1	1		P1-K	1				.25	NO		14	
T				P2-M	7				.25	NO		16	
F	A2	1		P1-J	1				.25	NO		14	
T				P2-J	7				.25	NO		16	
F	A3	2		P1-L	1				.25	NO		14	
T				E1-BB	3				.25	NO			
F	A4	2		E1-B	3				.25	NO			
T				P2-L	7				.25	NO		15	
F	A5	2		E1-B	3				.25	NO			
T				P3-M	6				.25	NO		15	
F	A6	2		P1-F	1				.25	NO		14	
T				P1-C	1				.25	NO		14	
F	A7	3		P2-G	7				.25	NO		15	
T				P2-H	7				.25	NO		15	
F	A8	2		P1-D	1				.25	NO		14	
T				E2-B	2				.25	NO			
F	A9	1		P1-B	1				.25	NO		14	
T				E2-B	2				.25	NO			
F	A10	1		E2-BB	2				.25	NO			
T				E3-B	4				.25	NO			
F	A11	1		P1-G	1				.25	NO		14	
T				E3-B	4				.25	NO			
F	A12	1		E3-BB	4				.25	NO			
T				P2-L	7				.25	NO		16	

SIZE A	CODE IDENT NO. 99974	2901625
SCALE-NONE	REV LTR A	SHEET 6

FORM 2084 REV. 367

GRIEP 06/06/68 CABLE W185 2901625

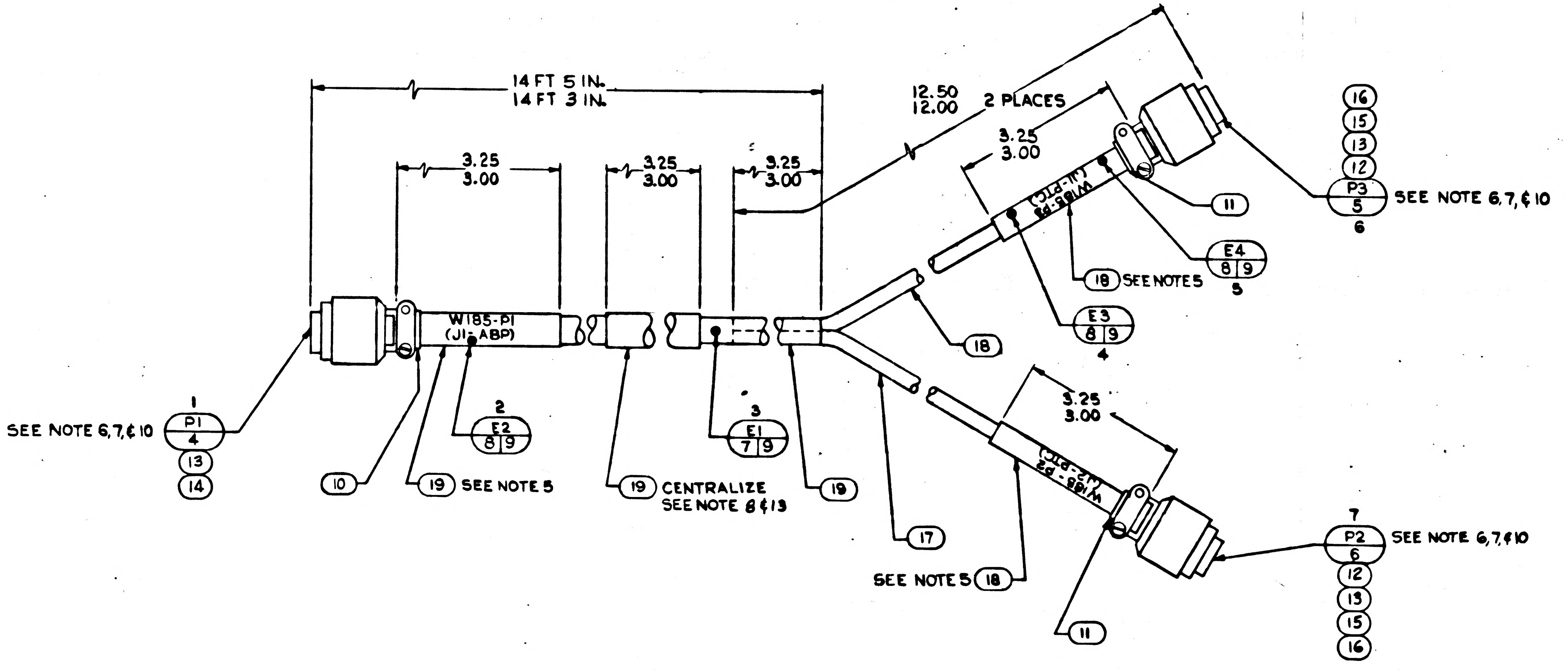
	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F	A13	1		P1-A	1				.25	NO		14	
T				E4-B	5				.25	NO			
F	A14	1		P1-H	1				.25	NO		14	
T				E4-B	5				.25	NO			
F	A15	1		E4-BB	5				.25	NO			
T				P3-K	6				.25	NO		16	

SIZE A	CODE IDENT NO. 99974	2901625
SCALE-NONE	REV LTR A	SHEET 7

FORM 2084 REV. 367

A 2901625

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	A	INITIAL RELEASE CLASS A PER TDRR 36741.		28 Aug 68	Jul 68


14 FT 5 IN.
14 FT 3 IN.
3.25
3.00
12.50
12.00
2 PLACES
W185-P1
(J1-ABP)
W185-P3
(J1-PTC)
W185-P2
(J2-PTC)
SEE NOTE 6,7,& 10
P1
4
1
13
14
10
19 SEE NOTE 5
2
E2
8 9
19 CENTRALIZE SEE NOTE 8 & 13
3
E1
7 9
19
18
17
SEE NOTE 5 18
11
E3
8 9
4
18 SEE NOTE 5
E4
8 9
5
16
15
13
12
P3
5
6
SEE NOTE 6,7,& 10
7
P2
6
12
13
15
16
SEE NOTE 6,7,& 10

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN PNOVSHEK DATE 6 MAY 68
CHECKED J. GRIBB 23 MAY 68
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED - W185

SIZE D
CODE IDENT NO. 99974
2901625
SCALE —
SHEET 8

2901625

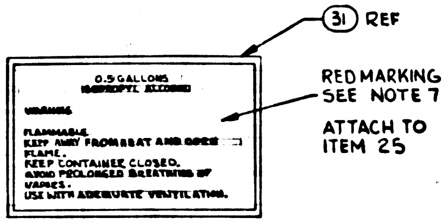
NOTES:

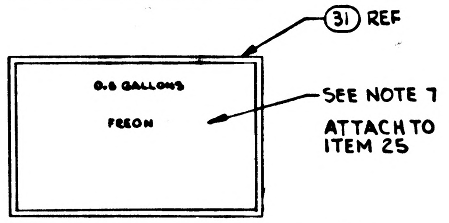
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. COMPLETE ETHYLENE GLYCOL CLEANING KIT INCLUDES ITEMS 1, 2 & 3 FOR ON SITE CLEANING REQUIREMENTS BUT ARE NOT STOWED IN CASE ASSEMBLY (ITEM 23).
3. MADE FROM: PLASTIC FILM (POLYETHYLENE) .004 THK FED SPEC L-P-378, TYPE II, GRADE C, FINISH 1.
4. INDICATED ITEMS, NOT ILLUSTRATED, ARE TO BE PACKED IN APPROPRIATE CONTAINER AS SHOWN IN TABLE I.
5. INDICATED ITEMS, NOT ILLUSTRATED, ARE TO BE PACKED IN THE KIT IN AREAS WHERE SUITABLE SPACE EXISTS. NO SPECIFIC LOCATION IS REQUIRED.
6. ITEMS 25 & 26 TO BE RINSED INSIDE WITH DISTILLED WATER BEFORE FILLING.
7. MARK LABELS (ITEM 31) WITH APPROPRIATE LEGEND AS SHOWN. USE TYPEWRITER.
8. ITEM 24 PACKAGED ON 2 FT LONG ROLL IN CARDBOARD CONTAINER 4½ X 5 X 24.
9. STENCIL "DRY NITROGEN" ON ITEM 28, USING WHITE, .50 HIGH CHARACTERS PER ND 1002219. CENTRALIZE AS SHOWN.
10. THE FOLLOWING ITEMS ARE OBTAINABLE FROM AC ELECTRONICS GENERAL STORES:

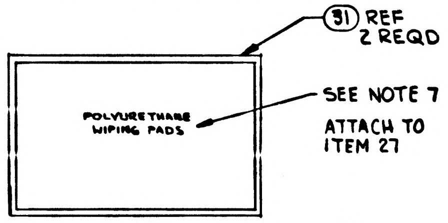
ITEM NO.	STOCK NO.
14	36890
15	40031
16	39033
17	53108
20	11534
27	17330

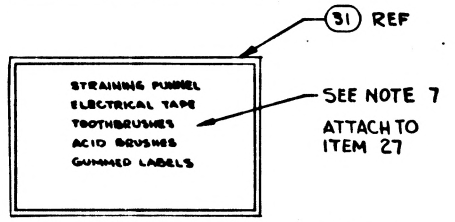
11. ITEM 28, PREPURIFIED NITROGEN CYLINDER IS PURCHASED FROM VENDOR, AND CYLINDER IS NOT RETURNABLE FOR CREDIT.
12. COMMERCIALLY AVAILABLE ITEMS HAVE BEEN PROCURED FROM THE SOURCES INDICATED FOR INITIAL KIT DELIVERY. ALTERNATE EQUIVALENT ITEM MAY BE USED FOR REPLACEMENT PURPOSES.

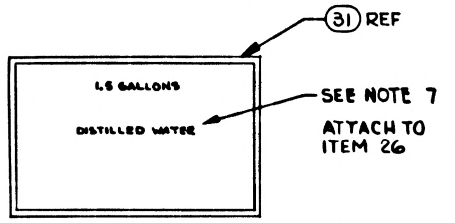
A.		HYGENIC FABRICS P.O. BOX 34 LANARK, ILL.
B.	83217	MILWAUKEE BRUSH CO. 2236 N. 30TH ST. MILWAUKEE, WIS 53208
C.	11273	CENTRAL SCIENTIFIC CO. DIVISION OF CENCO INSTRUMENTS CORP CHICAGO, ILL.
D.	27097	KERN CHEMICAL CORP. 854-56 S. ROBERTSON BLVD. LOS ANGELES, CALIF 90035
E.	30646	BECKMAN INSTRUMENTS INC CEDAR GROVE OPERATION CEDAR GROVE, N.J. 07009
F.	99806	FOAMADE INDUSTRIES 1220 MORSE ST. ROYAL OAK, MICH
G.	59728	ARTHUR H. THOMAS CO. 3RD & VINE ST PHILADELPHIA, PA.
H.	88301	MYSTIC TAPE INC. 1700 WINNETKA, AVE NORTHFIELD, ILL. 60094
J.	94480	FISHER SCIENTIFIC CO. NEW YORK, N.Y.
K.	22353	SCIENTIFIC PRODUCTS DIV AMERICAN HOSPITAL SUPPLY CORP 1210 LEON PLACE EVANSTON, ILL.
L.	96355	THE MATHESON CO. 932 PATTERSON PLANK RD. EAST RUTHERFORD, N.J. 07073
M.		WRIGHT BROTHERS PAPER BOX CO. FOND-DU-LAC, WIS.
N.		TEXTILE PRODUCTS 205 W. VOGEL AVE. MILWAUKEE, WIS.


(31) REF
0.5 GALLONS
ISOPROPYL ALCOHOL
WARNING
FLAMMABLE
KEEP AWAY FROM HEAT AND OPEN FLAME.
KEEP CONTAINER CLOSED.
AVOID PROLONGED BREATHING OF VAPORS.
USE WITH ADEQUATE VENTILATION.
RED MARKING
SEE NOTE 7
ATTACH TO ITEM 25


(31) REF
0.5 GALLONS
FREON
SEE NOTE 7
ATTACH TO ITEM 25


(31) REF
2 REQD
POLYURETHANE WIPING PADS
SEE NOTE 7
ATTACH TO ITEM 27


(31) REF
STRAINING FUNNEL
ELECTRICAL TAPE
TOOTHBRUSHES
ACID BRUSHES
GUMMED LABELS
SEE NOTE 7
ATTACH TO ITEM 27


(31) REF
1.5 GALLONS
DISTILLED WATER
SEE NOTE 7
ATTACH TO ITEM 26

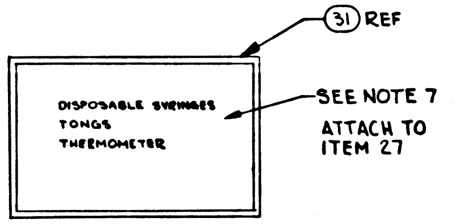

(31) REF
DISPOSABLE SYRINGES
TONGS
THERMOMETER
SEE NOTE 7
ATTACH TO ITEM 27

TABLE I (SEE NOTE 4)

CONTAINER ITEM NO.	CONTENTS ITEM NO.
25	29
25	30
26	32
(2 REQD) 27	15 (16 IN EACH)
27	11, 17, 20, 21 & 31
27	6, 7 & 14

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	C	REVISED -011, REPLACES WORD DRAWING	234430	Jul 68	
	D	INITIAL RELEASE CLASS A PER TDRR			

QUANTITY REQUIRED									
			-011	ITEM NO.	CODE IDENT NO.	PART OR IDENTIFYING NO.	DRAWING OR SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	NOTES OR REMARKS
			1	32			ASTM-P-1193 OR MSC-SPEC-C20	DISTILLED WATER 1½ GAL	4
			1	31				GUMMED LABELS (4 x 2½) 30 PER PKG	4, 7
			1	30			TT-I-735 GRADE B	ISOPROPYL ALCOHOL, ½ GALLON	4
			1	29			BB-F-671 GR TF OR PCA OR MSC-SPEC-237	FREON ½ GALLON	4
			1	28	96355	SIZE 4		CYLINDER, NITROGEN PREPURIFIED GRADE	9, 11
			4	27	NOTE 12 M	WO 9580	9 x 5 x 4 (BLUE)	BOX, CARDBOARD STD STOCKROOM	
			1	26	22353	B7562-1		JERRICAN	6
			2	25	22353	B7555-128		JUG, DISPENSING	6
			1	24	NOTE 12 N			FILM, CLEAR PLASTIC .004 THICK. 4 FT X 100 FT	3, 8
			1	23		2901645-011		CASE ASSY	
			1	22		1022889		FILLING FIXTURE NITROGEN CYLINDER	
			6	21	83217			BRUSH, ACID-FLAT #1 BRISTLES	4
			6	20				TOOTHBRUSH, DR WEST ADULT REGULAR, NYLON	4
			24	19			28 X 32	BAG, PLASTIC	3, 5
			24	18			11 x 14	BAG, PLASTIC	3, 5
			1	17	88301	6407		TAPE, ELECTRICAL	4
			24	16	NOTE 12 A	1819	17 x 18	CLOTH, LINT FREE	5
			32	15	99806	200-564	8½ x 4½ x ¼	PAD, FLEXIBLE-POLYURETHANE FORMULATION YELLOW	4
			1	14	94480	19300		THERMOMETER - 6'	4
			1	13		2901636		HOSE & BLOWGUN ASSY	
			1	12	96355	8-580		REGULATOR, 2 STAGE	
			3	11	27097	F-14790		FUNNEL, STRAINING	4
			6	10	59728	9823-E	16 OZ	BOTTLE, WASH	
			16	9	59728	2128-E15	400 ml	BEAKER, GRADUATED	
			1	8	59728	4408	200 ml	CYLINDER GRADUATED	
			1	7	11273	19590		TONGS, FLASK & TEST TUBE	4
			20	6	94480	14-823-120	10 CC	SYRINGE DISPOSABLE WITH #21 GA NEEDLE	4
			1	5	94480	11-394-110	LARGE	GLOVE PLASTIC DISPOSABLE 100/PKG	
			1	4	94480	1-002-20		PUMP ACID & CHEMICAL	5
			1	3	30646	CEL-501		CELL, DIP-POLYSTYRENE	2
			1	2	30646	RD-B331		CONDUCTIVITY BRIDGE	2
			1	1	30646	RD-200		CASE, CARRYING	2

LIST OF PARTS AND MATERIALS

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	1900030	1000000

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN DATE 23 Jul 68
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

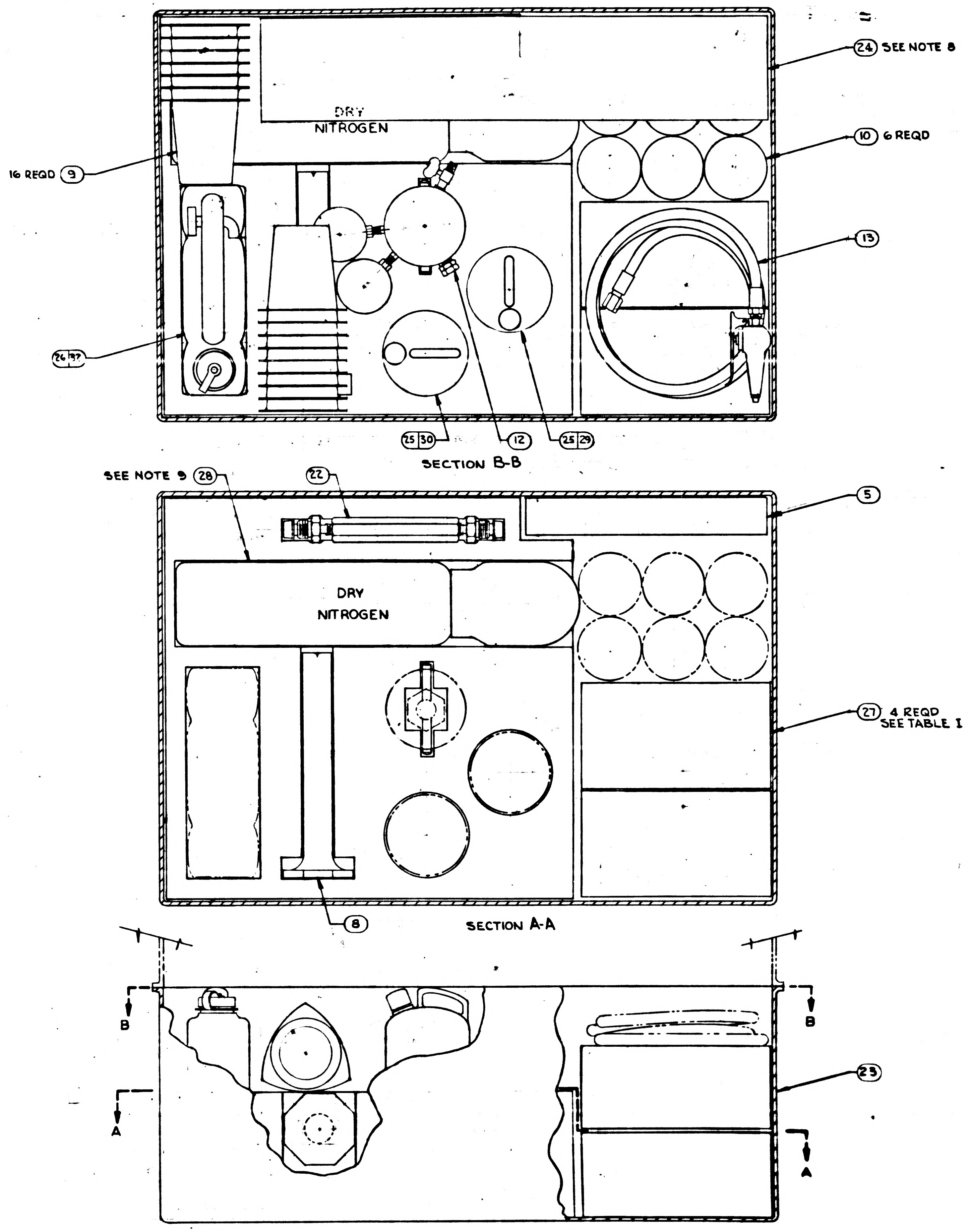
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ETHYLENE GLYCOL CLEANING KIT

SIZE E | CODE IDENT NO. 99974 | 2901630

SCALE NONE | SHEET 1 OF 2

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	C	REVISED-011, REPLACES WORD DRAWING	234430	29 Jun 68	
	D	INITIAL RELEASE CLASS A PER TDRR 36750		26 Aug 67	


24 SEE NOTE 8
DRY NITROGEN
10 6 REQD
16 REQD 9
13
26 27
25 30
12
25 29
SECTION B-B
SEE NOTE 9 28
22
5
DRY NITROGEN
27 4 REQD SEE TABLE I
8
SECTION A-A
B
B
23
A
A

				ITEM NO.	CODE IDENT NO.	PART OR IDENTIFYING NO.	DRAWING OR SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	NOTES OR REMARKS
			011						
QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS					

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	1900030	1000000
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

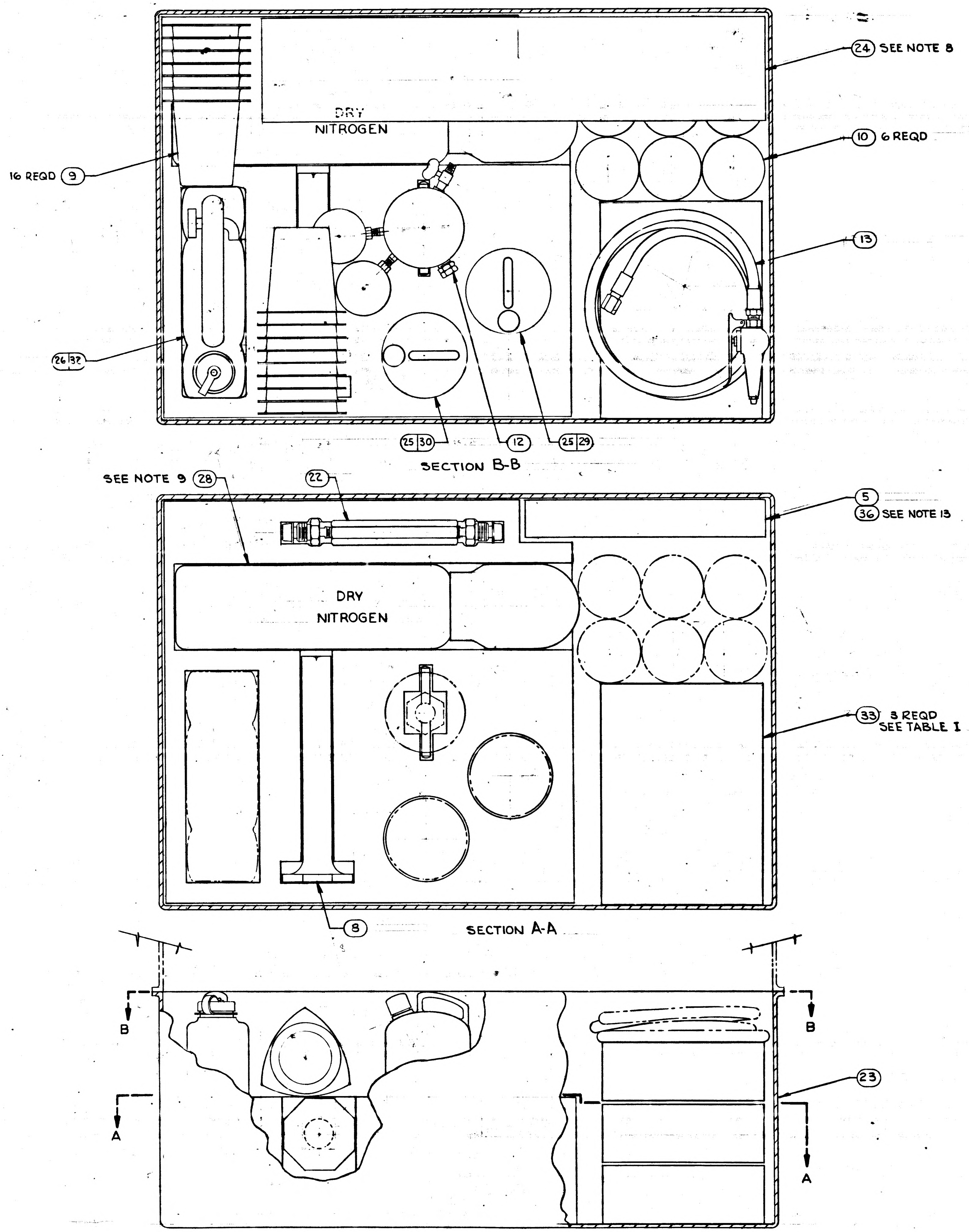
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN 23 Jan 68
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ETHYLENE GLYCOL CLEANING KIT

SIZE E
CODE IDENT NO. 99974
2901630
SCALE NONE
SHEET 2

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	C	REVISED -011 ; REPLACES WORD DRAWING	CM 234430	30 Jul 68	
	D	INITIAL RELEASE CLASS A PER TDRR 26750		28 AUG 67	
	E	REVISED PER TDRR 37C67		3 DEC 68	



DRY NITROGEN
(24) SEE NOTE 8
(10) 6 REQD
16 REQD (9)
(13)
(26|32)
(25|30)
(12)
(25|29)
SECTION B-B
SEE NOTE 9 (28)
(22)
(5)
(36) SEE NOTE 13
DRY NITROGEN
(33) 3 REQD SEE TABLE I
(8)
SECTION A-A
B
B
A
A
(23)

			011	ITEM NO.	CODE IDENT NO.	PART OR IDENTIFYING NO.	DRAWING OR SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	NOTES OR REMARKS
QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS					

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

	1900030	1000000
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. Powe DATE 23 Jul 68
CHECKED
APPROVAL J. Mcwatters 9-2-69
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ETHYLENE GLYCOL CLEANING KIT

SIZE E
CODE IDENT NO. 99974
2901630
SCALE NONE
SHEET 2

E 2901630

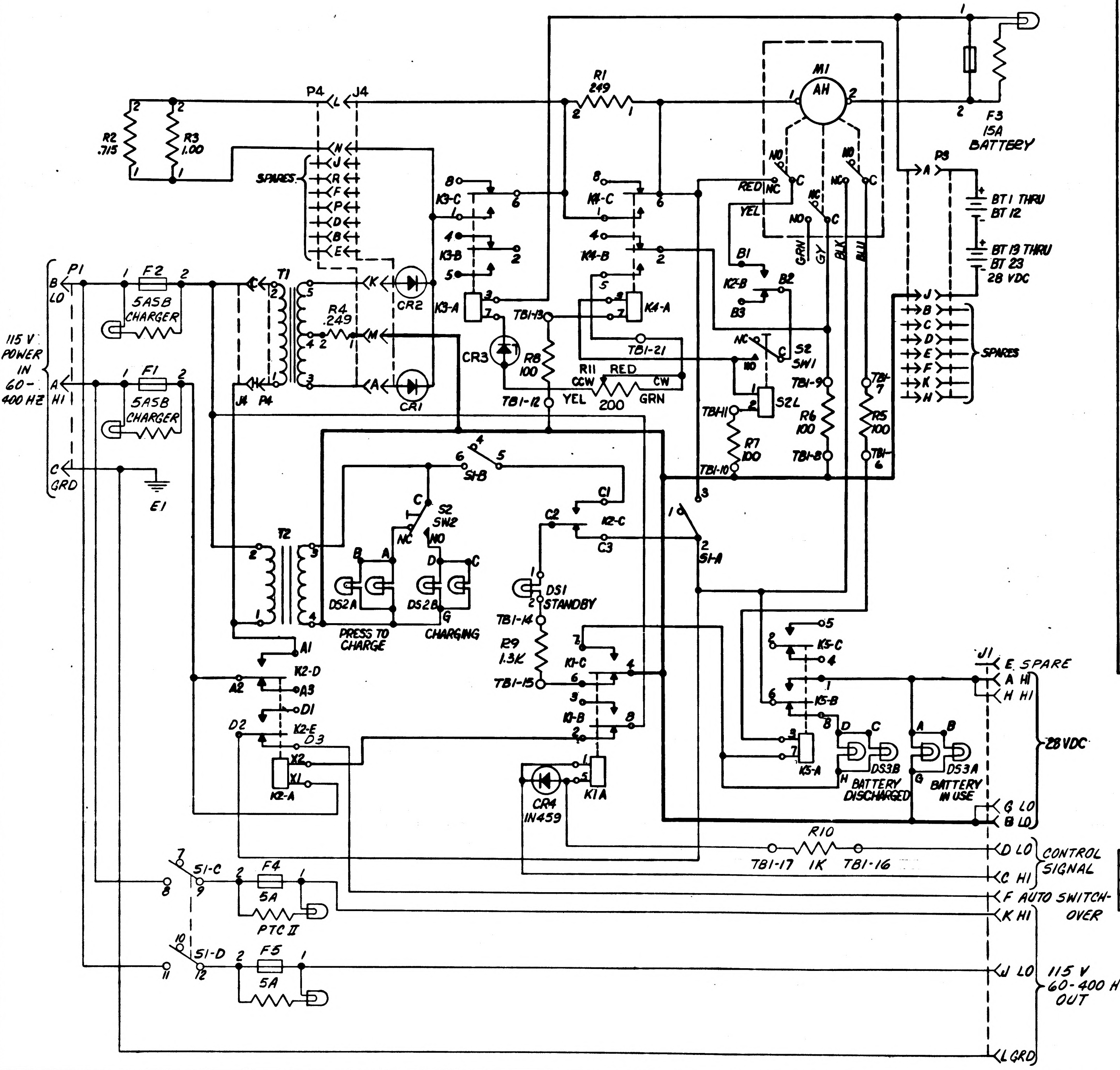
2901630

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		REVISED PER D.C. 66926		68	
B		INITIAL RELEASE CLASS A PER TDRR 33741		28 AUG 68	22 JUL 68
C		REVISED PER TDRR 37302			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   - 1901492-041, -051 AUXILIARY BATTERY PACK ASSY
   - 2901641 WIRING DIAGRAM
4. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. ALL RESISTANCE VALUES ARE IN OHMS.
6. VALUE OF F4 AND F5 FOR 1901492-041 IS 2A, P/N F02A250V2A.

REF. DES.	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM, VALUE, TOL., RATING
BT1 THRU BT12	1015972-001	CELL, NICKEL CADMIUM	
BT13 THRU BT23	1015972-001	CELL, NICKEL CADMIUM	
CR1	1015967-001	SEMICONDUCTOR	
CR2	1015967-001	↓	
CR3	1015939-9	↓ ZENER DIODE	22V ±5%@70MA
CR4	1N459	(1896966-29) MIL-S-19500	
DS1	1016303-001	LIGHT, INDICATING	10V
DS2	SEE XDS2	LIGHT, INDICATING	
DS3	SEE XDS3	LIGHT, INDICATING	
E1			
F1	F02B32V5AS	FUSE MIL-F-15160/02	5A
F2	F02B32V5AS	FUSE MIL-F-15160/02	5A
F3	F02A32V15AS	FUSE MIL-F-15160/02	15A
F4	F02A250V5A	FUSE MIL-F-15160/02	5A SEE NOTE 6
F5	F02A250V5A	FUSE MIL-F-15160/02	5A SEE NOTE 6
J1	MS3127E-18-11S	CONNECTOR, RECEP., ELECT.	
J3	1015817-90	CONNECTOR, RECEP., ELECT.	
J4	1015867-140	CONNECTOR, RECEP., ELECT.	
K1	1015832-218	RELAY, ARMATURE	
K2	1015983-001	↓	
K3	1015982-001	↓	
K4	↓	↓	
K5	↓	↓	
M1	1900314	METER, AMPERE HOUR	
P1	1015971-015	CONNECTOR PLUG, ELECT.	
P3	1015818-90	CONNECTOR PLUG, ELECT.	
P4	1015868-140	CONNECTOR PLUG, ELECT.	
R1	RE75G2490	RESISTOR, FIXED MIL-R-18546	249 OHMS ±1% 20W
R2	RE75GR715	↓	0.715
R3	RE75G1R00	↓	1.00
R4	RE75GR249	MIL-R-18546/1	.249
R5	RC42GF101J	MIL-R-11	100 5% 2W
R6	↓	↓	100
R7	↓	↓	100
R8	↓	↓	100
R9	RC32GF132J	↓	1.3K 1W
R10	RC20GF102J	↓	1K .5W
R11	1015989-002	RESISTOR, VARIABLE	200 5% 1W
S1	MS25308-23	SWITCH, TOGGLE	
S2	SEE XDS2	LIGHT INDICATING SWITCH	
T1	1015953	TRANSFORMER	
T2	1015954	TRANSFORMER	
TB1	1901572-011	ELECT COMPONENT ASSY	
XDS1	LC12GN & LH73	LIGHT INDICATOR ASSY MIL-L-3661	
XDS2	1015869-347	LIGHT INDICATOR & SWITCH ASSY.	
XDS3	1015869-171	LIGHT INDICATOR ASSY.	
XF1	1015873-001	FUSE HOLDER	
XF2	1015873-001	FUSE HOLDER	
XF3	1015873-008	FUSE HOLDER	
XF4	1015873-001	FUSE HOLDER	
XF5	1015873-001	FUSE HOLDER	


P1
B LO
A HI
C GRD
115 V POWER IN 60-400 HZ
F2
F1
5A5B CHARGER
E1
T1
T2
R4 249
CR2
CR1
CR3
R8 100
R11 RED 200
CCW
CW
YEL
GRN
P4
J4
SPARES
R2 .715
R3 1.00
R1 249
M1 AH
F3 15A BATTERY
P3
BT1 THRU BT12
BT13 THRU BT23 28 VDC
K3-C
K3-B
K3-A
K4-C
K4-B
K4-A
K2-B
B1
B2
B3
RED
YEL
GRN
GY
BLK
BLU
S2 SW1
S2L
R6 100
R7 100
R5 100
TB1-13
TB1-12
TB1-21
TB1-9
TB1-7
TB1-6
TB1-8
TB1-10
TB1-11
S1-B
S1-A
S2 SW2
DS2A
DS2B
PRESS TO CHARGE
CHARGING
DS1 STANDBY
K2-C
R9 1.3K
TB1-14
TB1-15
K1-C
K1-B
K1A
CR4 1N459
K2-D
K2-E
K2-A
K5-C
K5-B
K5-A
DS3B BATTERY DISCHARGED
DS3A BATTERY IN USE
J1
E SPARE
A HI
H HI
28VDC
G LO
B LO
R10 1K
TB1-17
TB1-16
D LO
C HI
CONTROL SIGNAL
F AUTO SWITCH-OVER
K HI
S1-C
S1-D
F4 5A
F5 5A
PTC II
J LO
115 V 60-400 HZ OUT
L GRD

SEPARATED SYMBOL LOCATION

REF. DES.	ZONE
K2 A-B-C-D-E	B-7, C-6, D-6
S1 A-B-C-D	D-7, G6, A-8
S2L-SW1-SW2	D-5, C-7

1901492-051	1901492-051
1901492-041	1901492-041
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ – + – + –
– – – – – –
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. REPINSKI DATE 10 JUN 68
CHECKED 17 JUN 68
APPROVAL H. Williams 17 JUN 68
CONTRACT 8-23-68
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY BATTERY PACK
ELECTRICAL SCHEMATIC DIAGRAM

CODE IDENT NO. 99974
SIZE E
2901639
SCALE —
SHEET 1 OF 1

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 36741		[illegible] 25 Jul 68

REV STATUS OF SHEETS																						
REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 66918

AC ELECTRONICS DIV. • GM CORP. MILW. WIS.

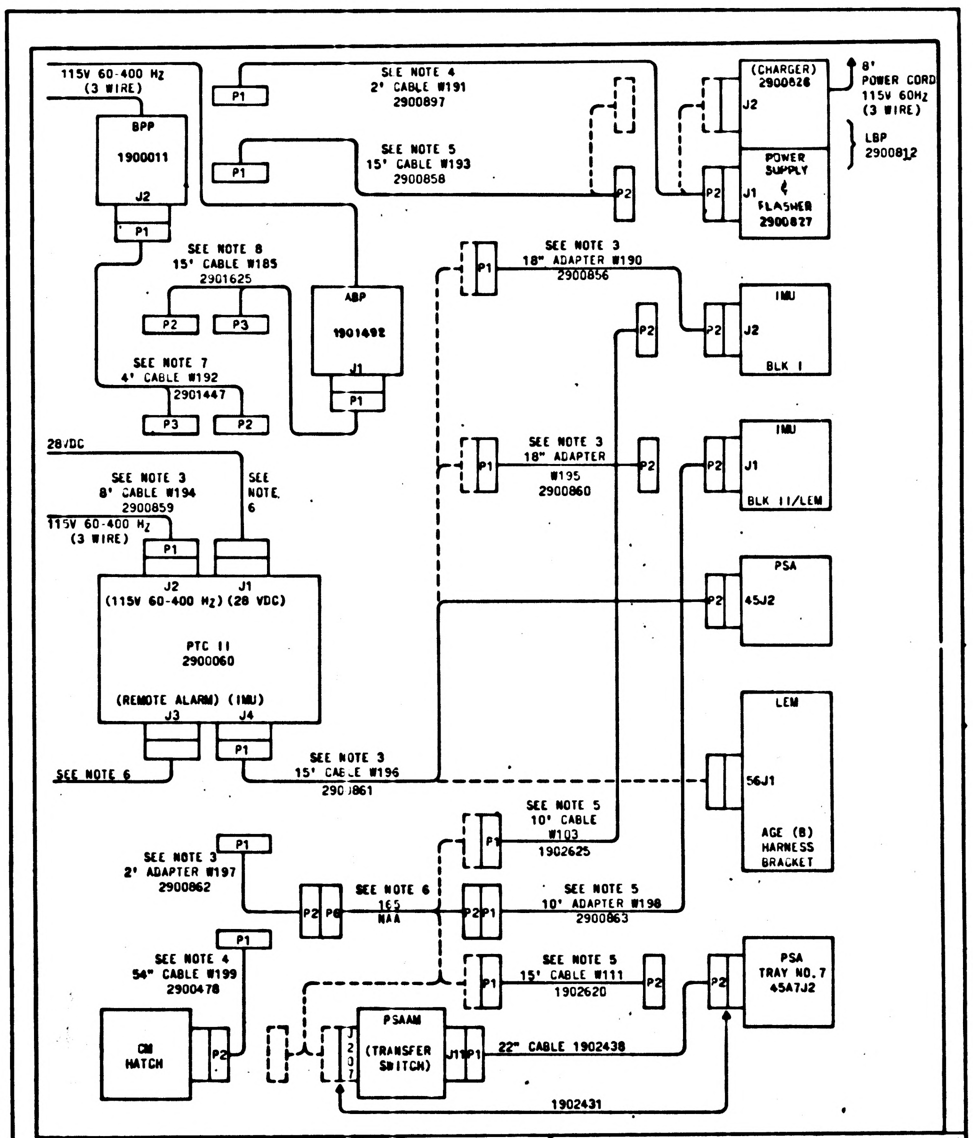
DRAFTSMAN P.S. Romanski 28 June 68
DAY MO YR
CHECKER [illegible] 28 JUN 68
ENGINEER [illegible] 28 June 68
APPROVAL [illegible]
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PTC INTERFACE
BLOCK I / BLOCK II / LEM- (2900060-021 & 2900060-031)

SIZE A | CODE IDENT. NO 99974 | 2901644
SCALE NONE | SHEET 1 OF 22

MIL 1377A6 12-65



115V 60-400 Hz (3 WIRE)
BPP 1900011
J2
P1
SEE NOTE 4 2' CABLE W191 2900897
SEE NOTE 5 15' CABLE W193 2900858
(CHARGER) 2900826
J2
8' POWER CORD 115V 60Hz (3 WIRE)
LBP 2900812
POWER SUPPLY & FLASHER 2900827
J1
P2
SEE NOTE 8 15' CABLE W185 2901625
P2
P3
ABP 1901492
J1
SEE NOTE 7 4' CABLE W192 2901447
SEE NOTE 3 18" ADAPTER W190 2900856
IMU
BLK I
SEE NOTE 3 18" ADAPTER W195 2900860
IMU
BLK II/LEM
28VDC
SEE NOTE 3 8' CABLE W194 2900859
SEE NOTE 6
J2 (115V 60-400 Hz)
J1 (28 VDC)
PTC II 2900060
(REMOTE ALARM) (IMU)
J3
J4
PSA
45J2
LEM
56J1
AGE (8) HARNESS BRACKET
SEE NOTE 6
SEE NOTE 3 15' CABLE W196 2900861
SEE NOTE 5 10' CABLE W103 1902625
SEE NOTE 3 2' ADAPTER W197 2900862
SEE NOTE 6 165 NAA
P6
SEE NOTE 5 10' ADAPTER W198 2900863
SEE NOTE 4 54" CABLE W199 2900478
SEE NOTE 5 15' CABLE W111 1902620
PSA TRAY NO. 7 45A7J2
CM HATCH
PSAAM (TRANSFER SWITCH)
J207
J1
22" CABLE 1902438
1902431

SIZE A | CODE IDENT NO. 99974 | 2901644
SCALE NONE | REV LET A | SHEET 2

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PART NUMBERS ARE FOR REFERENCE ONLY.
3. CABLES STORED IN PTC COVER (5 CABLES).
4. CABLES STORED IN LBP CHARGER (2 CABLES).
5. END ITEM NOT STORED IN PTC OR LBP.
6. CABLE NOT SUPPLIED BY AC ELECTRONICS.
7. CABLE STORED IN BPP COVER.
8. CABLE STORED IN ABP COVER.

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 3

MIL 1377A6 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J1 PTC	MS3127E-14-12P	—
P1 W191	1897340-016	BENDIX PT08SE-14-12S(SR)
P2 W191	1897341-016	BENDIX PT08SE-14-12PX(SR)
J1 LBP	MS3127E-14-12SX	—

SIGNAL	J1 PTC PIN NO.	P1 W191 SOCKET NO.	P2 W191 PIN NO.	J1 LBP SOCKET NO.
ALARM INTERLOCK	A	A *		
ALARM INTERLOCK	B	B *		
TEMP. ALARM LO	C	C	C	C
TEMP. ALARM HI	D	D	D	D
POWER ALARM LO	E	E	E	E
POWER ALARM HI	F	F	F	F
**		G	G	G
BATTERY HI	H	H	H	H
BATTERY LO	J	J	J	
28V HI	K	K	K	K
28V LO	L	L	L	L
GRD	M	M	M	M

* THESE CONTACTS JUMPERED

** NOT USED IN PTC. SEE LBP TO LBP CHARGER INTERCONNECT.

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 4

MIL 1377A6 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE	
J2 PTC	MS3127E-14-12PW	—	
P1-W194	MS3126F-14-12SW	—	
SIGNAL		J2 PTC PIN NO.	P1 W194 SOCKET NO.
115V INTERLOCK		G	G┐*
115V INTERLOCK		H	H┘
115V 60 CPS HI		M	M
115V 60 CPS LO		J	J
GRD		L	L
BYPASS TEST		C	

* THESE CONTACTS JUMPERED

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 5

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE			
J1 LBP	MS3127E-14-12SX	—			
P2 W191	1897341-018	BENDIX PT08SE-14-12PX(SR)			
P1 W191	1897340-016	BENDIX PT08SE-14-12S(SR)			
J2 LBP	MS3127E-14-12P	—			
SIGNAL		J1 LBP SOCKET NO.	P2 W191 PIN NO.	P1 W191 SOCKET NO.	J2 LBP PIN NO.
**			A	A┐*	
**			B	B┘	
** TEMP. ALARM LO		C	C	C	
** TEMP. ALARM HI		D	D	D	
** POWER ALARM LO		E	E	E	
** POWER ALARM HI		F	F	F	
CHARGER INTERLOCK		G	G	G	G
CHARGER INTERLOCK		H	H	H	H
SPARE			J	J	
28V HI		K	K	K	K
28V LO		L	L	L	L
GRD		M	M	M	M

* THESE CONTACTS JUMPERED.

** NOT USED IN LBP CHARGER. SEE PTC TO LBP INTERCONNECT.

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SCALE NONE | REV LTR A | SHEET 6

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J3 PTC	MS3127E-12-10P	—
SIGNAL		J3 PTC PIN NO.
* TEMP NORMALLY CLOSED		A
COMMON		B
NORMALLY OPEN		C
GRD REMOTE ALARM		K
** POWER NORMALLY OPEN		H
COMMON		G
NORMALLY CLOSED		F
PTC COMMON		J
"IMU HOT" CLEAR		D
"IMU COLD" CLEAR		E

* RELAY DEENERGIZED FOR FAILURE

** RELAY ENERGIZED FOR FAILURE

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 7

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE					
J4 PTC	MS3127E-18-32S	—					
P1 W196	MS3126F-18-32P	—					
P2 W196	1897250-014	DEUTSCH STK06-10-19PW					
P1 W195	1897247-014	DEUTSCH STK00-10-19SW					
P2 W195	1897366-001	MICRO DOT MD53-06E15-61S-N					
J1 IMU BLK II	1010763-1	MICRO DOT C43HH-4P(054)					
SIGNAL		J4 PTC SOCKET NO.	P1 W196 PIN NO.	P2 W196 PIN NO.	P1 W195 SOCKET NO.	P2 W195 SOCKET NO.	J1 IMU BLK II PIN NO.
+28 VDC PTC		A	A	11			
-28 VDC INTERLOCK		B	B	12			
CHASSIS GRD		J					
SHIELD		V					
SHIELD		W					
CONTROL PIP RETURN		P	P	15	15	15	15
SENSOR IRIG/PIP HI CONTROL		S	S	5	5	14	14
IRIG RETURN SENSOR		K					
SENSOR COMMON		C	C	14	14	16	16
IRIG HI INDICATING		G	G	13	13	17	17
RETURN SENSOR		T	T	4	4	18	18
+28 VDC		E					
+28 VDC PIP		F					
+28 VDC AND		H	H	2	2	6	6
+28 VDC IRIG		R	R	3	3	7	7
-28 VDC CONTROL		L	L	9	9	8	8
-28 VDC HEATERS		N	N	10	10	9	9
-28 VDC		D					
-28 VDC		U					

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 8

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	—
P1 W196	MS3126F-18-32P	—
P2 W196	1897250-014	DEUTSCH STK06-10-19PW
P1 W190	1897247-014	DEUTSCH STK00-10-19SW
P2 W190	MS3126F-18-32SX	—
J2 IMU BLK I	1001492-2	SIMILAR TO MS3114H-18-32P

SIGNAL	J4 PTC SOCKET NO.	P1 W196 PIN NO.	P2 W196 PIN NO.	P1 W190 SOCKET NO.	P2 W190 SOCKET NO.	J2 IMU BLK I PIN NO.
+28 VDC PTC	A	A	11			
-28 VDC INTERLOCK	B	B	12			
CHASSIS GRD	J					
SHIELD	V					
SHIELD	W					
CONTROL PIP RETURN	P	P	15	15	L	L
SENSOR IRIG/PIP HI CONTROL	S	S	5	5	N	N
IRIG RETURN SENSOR	K					
SENSOR COMMON	C	C	14	14	K	K
IRIG HI INDICATING	G	G	13	13	Z	Z
RETURN SENSOR	T	T	4	4	a	a
+28 VDC	E					
+28 VDC PIP	F					
+28 VDC AND	H	H	2	2	V	V
+28 VDC IRIG	R	R	3	3	X	X
-28 VDC CONTROL	L	L	9	9	W	W
-28 VDC HEATERS	N	N	10	10	R	R
-28 VDC	D					
-28 VDC	U					

SIZE	CODE IDENT. NO.	
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SCALE NONE	REV LTR A	SHEET 9

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	—
P1 W197	MS3126F-18-32P	—
P2 W197	1897344-251	CANNON CA3101E-32-8S
P6 NAA	MS3106R-32-8P	—
P2 NAA	MS3106R-32-8S	—
P1 W198	1897343-251	CANNON CA3101E-32-8P
P2 W198	1897366-001	MICRO DOT MD53-06E15-61S-N
J1 IMU BLK II	1010783-1	MICRO DOT C43HH-4P(054)

SIGNAL	J4 PTC SOC NO.	P1 W197 PIN NO.	P2 W197 SOC NO.	P6 NAA PIN NO.	P2 NAA SOC NO.	P1 W198 PIN NO.	P2 W198 SOC NO.	J1 IMU BLK II PIN NO.
+28 VDC PTC	A	A	G	G	G			
-28 VDC INTERLOCK	B	B	H	H	H			
CHASSIS GRD	J	J	Y	Y	Y			
SHIELD	V	V	T	T	T			
SHIELD	W	W	c	c	c			
CONTROL PIP RETURN	P	P	Z	Z	Z	Z	15	15
SENSOR IRIG/PIP HI CONTROL	S	S	A	A	A	A	14	14
IRIG RETURN SENSOR	K	K	B	B	B			
SENSOR COMMON	C	C	a	a	a	a	16	16
IRIG HI INDICATING	G	G	D	D	D	D	17	17
RETURN SENSOR	T	T	C	C	C	C	18	18
+28 VDC	E	E	J	J	J	J		
+28 VDC PIP	F	F	X	X	X	X *		
+28 VDC AND	H	H	L	L	L	* L	6	6
+28 VDC IRIG	R	R	V	V	V	V	7	7
-28 VDC CONTROL	L	L	K	K	K	K	8	8
-28 VDC HEATERS	N	N	U	U	U	U *	9	9
-28 VDC	D	D	I	I	I	* I		
-28 VDC	U	U	W	W	W	W		

* THESE CONTACTS JUMPERED IN W198

SIZE	CODE IDENT. NO.	
A	99974	2901644
SCALE NONE	REV LTR A	SHEET 10

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	—
P1 W196	MS3126F-18-32P	—
P2 W196	1897250-014	DEUTSCH STK06-10-19PW
45J2 PSA	1010937-014	DEUTSCH STK07-10-19SW

SIGNAL	J4 PTC SOCKET NO.	P1 W196 PIN NO.	P2 W196 PIN NO.	45J2 PSA SOCKET NO.
+28 VDC PTC	A	A	11	11
-28 VDC INTERLOCK	B	B	12	12
CHASSIS GRD	J			
SHIELD	V			
SHIELD	W			
CONTROL PIP RETURN	P	P	15	15
SENSOR IRIG/PIP HI CONTROL	S	S	5	5
IRIG RETURN SENSOR	K			
SENSOR COMMON	C	C	14	14
IRIG HI INDICATING	G	G	13	13
RETURN SENSOR	T	T	4	4
+28 VDC	E			
+28 VDC PIP	F			
+28 VDC AND	H	H	2	2
+28 VDC IRIG	R	R	3	3
-28 VDC CONTROL	L	L	9	9
-28 VDC HEATERS	N	N	10	10
-28 VDC	D			
-28 VDC	U			

SIZE	CODE IDENT. NO.	
A	99974	2901644
SCALE NONE	REV LTR A	SHEET 11

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	—
P1 W196	MS3126F-18-32P	—
P2 W196	1897250-014	DEUTSCH STK06-10-19PW
56J1 LEM	1010930-014	DEUTSCH STK00-10-19SW

SIGNAL	J4 PTC SOCKET NO.	P1 W196 PIN NO.	P2 W196 PIN NO.	56J1 LEM SOCKET NO.
+28 VDC PTC	A	A	11	11
-28 BDC INTERLOCK	B	B	12	12
CHASSIS GRD	J			
SHIELD	V			
SHIELD	W			
CONTROL PIP RETURN	P	P	15	15
SENSOR IRIG/PIP HI CONTROL	S	S	5	5
IRIG RETURN SENSOR	K			
SENSOR COMMON	C	C	14	14
IRIG HI INDICATING	G	G	13	13
RETURN SENSOR	T	T	4	4
+28 VDC	E			
+28 VDC PIP	F			
+28 VDC AND	H	H	2	2
+28 VDC IRIG	R	R	3	3
-28 VDC CONTROL	L	L	9	9
-28 VDC HEATERS	N	N	10	10
-28 VDC	D			
-28 VDC	U			

SIZE	CODE IDENT. NO.	
A	99974	2901644
SCALE NONE	REV LTR A	SHEET 12

MIL 1377A4 8-65

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	—
P1 W199	1897341-011	BENDIX PT08SE-18-32P(SR)
P2 W199	1897374-251	CANNON CA3108R-32-8S-A106
CM HATCH		BENDIX TBF-32-8PS-FTG.

SIGNAL			J4 PTC SOCKET NO.	P1 W199 PIN NO.	P2 W199 SOCKET NO.	CM HATCH PIN NO.
	+28 VDC	PTC	A	A	G	G
	-28 VDC	INTERLOCK	B	B	H	H
	CHASSIS GRD		J	J	Y	Y
	SHIELD		V	V	T	T
	SHIELD		W	W	c	c
CONTROL	PIP RETURN		P	P	Z	Z
SENSOR	IRIG/PIPHI	CONTROL	S	S	A	A
	IRIG RETURN	SENSOR	K	K	B	B
	SENSOR COMMON		C	C	a	a
	IRIG HI	INDICATING	G	G	D	D
	RETURN	SENSOR	T	T	C	C
	+28 VDC		E	E	J	J
	+28 VDC	PIP	F	F	X	X
	+28 VDC	AND	H	H	L	L
	+28 VDC	IRIG	R	R	V	V
	-28 VDC	CONTROL	L	L	K	K
	-28 VDC	HEATERS	N	N	U	U
	-28 VDC		D	D	I	I
	-28 VDC		U	U	W	W

SIZE	CODE IDENT. NO.		
A	99974	2901644	
SCALE NONE		REV LTR A	SHEET 13

CONN.	PART NUMBER	MANUFACTURER AND TYPE
J1 PTC	MS3127E-14-12P	—
P1 W193	1897340-016	BENDIX PT08SE-14-12S(SR)
P2 W193	1897341-018	BENDIX PT08SE-14-12PX(SR)
J1 LBP	MS3127E-14-12SX	—

SIGNAL	J1 PTC PIN NO.	P1 W193 SOCKET NO.	P2 W193 PIN NO.	J1 LBP SOCKET NO.
ALARM INTERLOCK	A	A *		
ALARM INTERLOCK	B	B *		
TEMP. ALARM LO	C	C	C	C
TEMP. ALARM HI	D	D	D	D
POWER ALARM LO	E	E	E	E
POWER ALARM HI	F	F	F	F
**		G	G	G
BATTERY HI	H	H	H	H
BATTERY LO	J	J	J	
28V HI	K	K	K	K
28V LO	L	L	L	L
GRD	M	M	M	M

* THESE CONTACTS JUMPERED

** NOT USED IN PTC. SEE LBP TO LBP CHARGER INTERCONNECT.

SIZE	CODE IDENT. NO.		
A	99974	2901644	
SCALE NONE		REV LTR A	SHEET 14

CONN	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	
P1 W197	MS3126F-18-32P	
P2 W197	1897344-251	CANNON CA 3101E-32-8S
P6 NAA	MS3106R-32-8P	
P2 NAA	MS3106R-32-8S	
J207 PSAAM	MS3102R-32-8P	

SIGNAL			J4 PTC SOCKET NO.	P1 W197 PIN NO.	P2 W197 SOCKET NO.	P6 NAA PIN NO.	P2 NAA SOCKET NO.	J207 PSAAM PIN NO.
+28 VDC	PTC INTERLOCK		A	A	G	G	G	G
-28 VDC			B	B	H	H	H	H
CHASSIS GROUND			J	J	Y	Y	Y	Y
SHIELD			V	V	T	T	T	
SHIELD			W	W	z	z	z	
CONTROL	PIP RETURN		P	P	Z	Z	Z	
SENSOR	IRIG/PIP HI	CONTROL	S	S	A	A	A	A
	IRIG RETURN	SENSOR	K	K	B	B	B	B
SENSOR COMMON			C	C	a	a	a	a
IRIG HI	INDICATING		G	G	D	D	D	D
RETURN	SENSOR		T	T	C	C	C	C
+28 VDC			E	E	J	J	J	J
+28 VDC			F	F	X	X	X	X
+28 VDC			H	H	L	L	L	L
+28 VDC	PIP AND IRIG		R	R	V	V	V	V
-28 VDC	CONTROL HEATERS		L	L	K	K	K	K
-28 VDC			N	N	U	U	U	U
-28 VDC			D	D	I	I	I	I
-28 VDC			U	U	W	W	W	W

SIZE	CODE IDENT. NO.		
A	99974	2901644	
SCALE NONE		REV LTR A	SHEET 15

CONN	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	
P1 W197	MS3126F-18-32P	
P2 W197	1897344-251	CANNON CA 3101E-32-8S
P6 NAA	MS3106R-32-8P	
P2 NAA	MS3106R-32-8S	
P1 W103	1897343-251	CANNON CA 3101E-32-8P
P2 W103	MS3126F-18-32SX	
J2 IMU BLK I	1001492-2	SIMILAR TO MS3114H-18-32P

SIGNAL			J4 PTC SOC. NO.	P1 W197 PIN NO.	P2 W197 SOC. NO.	P6 NAA PIN NO.	P2 NAA SOC. NO.	P1 W103 PIN NO.	P2 W103 SOC. NO.	J2 IMU PIN NO.
+28 VDC	PTC INTERLOCK		A	A	G	G	G			
-28 VDC			B	B	H	H	H			
CHASIS GROUND			J	J	Y	Y	Y			
SHIELD			V	V	T	T	T			
SHIELD			W	W	z	z	z			
CONTROL	PIP RETURN		P	P	Z	Z	Z			
SENSOR	IRIG/PIP HI	CONTROL	S	S	A	A	A	A	M	M
	IRIG RETURN	SENSOR	K	K	B	B	B	B	L	L
SENSOR COMMON			C	C	a	a	a	a	K	K
IRIG HI	INDICATING SENSOR		G	G	D	D	D	D	Z	Z
RETURN			T	T	C	C	C	C	a	a
+28 VDC			E	E	J	J	J	J *	V	V
+28 VDC			F	F	X	X	X	X *	X	X
+28 VDC			H	H	L	L	L	L *		
+28 VDC	PIP AND IRIG		R	R	V	V	V	V *		
-28 VDC	CONTROL HEATERS		L	L	K	K	K	K *		
-28 VDC			N	N	U	U	U	U *		
-28 VDC			D	D	I	I	I	I *	W	W
-28 VDC			U	U	W	W	W	W *	R	R

* THESE CONTACTS JUMPERED

SIZE	CODE IDENT. NO.		
A	99974	2901644	
SCALE NONE		REV LTR A	SHEET 16

CONN	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	
P1 W197	MS3126F-18-32P	
P2 W197	1897344-251	CANNON CA 3101E-32-8S
P6 NAA	MS3106R-32-8P	
P2 NAA	MS3106R-32-8S	
P1 W111	1897343-251	CANNON CA 3101E-32-8P
P2 W111	1902030-002	SIMILAR TO HUGHES WSSD038D08 BV 001
45A7J2 PSA	1010622-2 OR 1010821-2	HUGHES WSSD038S008V000

SIGNAL	J4 PTC. SOC NO.	P1 W197 PIN NO.	P2 W197 SOC. NO.	P6 NAA PIN NO.	P2 NAA SOC NO.	P1 W111 PIN NO.	P2 W111 PIN NO.	45A7J2 PSA SOC. NO.
+28 VDC } PTC INTERLOCK	A	A	G	G	G			
-28 VDC }	B	B	H	H	H			
CHASSIS GROUND	J	J	Y	Y	Y			
SHIELD	V	V	T	T	T			
SHIELD	W	W	c̄	c̄	c̄			
CONTROL { PIP RETURN	P	P	Z	Z	Z			
SENSOR { IRIG/PIP HI } CONTROL	S	S	A	A	A	A	5	5
IRIG RETURN } SENSOR	K	K	B	B	B	B	6	6
SENSOR COMMON	C	C	a	a	a	a	17	17
IRIG HI } INDICATING SENSOR	G	G	D	D	D	D	21	21
RETURN }	T	T	C	C	C	C	15	15
+28 VDC }	E	E	J	J	J	J┐		
+28 VDC	F	F	X	X	X	┌X *		
+28 VDC	H	H	L	L	L	* L┘	28	28
+28 VDC PIP AND IRIG	R	R	V	V	V	└V	24	24
-28 VDC { CONTROL HEATERS	L	L	K	K	K	K┐		
-28 VDC	N	N	U	U	U	┌U *		
-28 VDC	D	D	I	I	I	* I┘	36	36
-28 VDC }	U	U	W	W	W	└W	32	32

* THESE CONTACTS JUMPERED

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SCALE NONE REV LTR A SHEET 17

FORM 1377A4 8-65

CONN	PART NUMBER	MANUFACTURER AND TYPE
J1 PTC	MS3127E-14-12P	
P2 W192	MS3126F-14-12S	
J2 PTC	MS3127E-14-12PW	
P3 W192	MS3126F-14-12SW	
P1 W192	MS3126F-14-19P	
J2 BPP	MS3127E-14-19S	

SIGNAL	J1 PTC PIN NO.	P2 W192 SOC. NO.	J2 PTC PIN NO.	P3 W192 SOC. NO.	P1 W192 PIN NO.	J2 BPP SOC. NO.
28 VDC LO	L	L			┌N	N
BPP INTERLOCK					* └K	K
28 VDC HI	K	K			P	P
CHASSIS GRD.	M	M	L	L	V	V
115V 60 Hz HI			M	M	T	T
115V 60 Hz LO			J	J	┌M	M
BPP TEMP ALARM INHIBIT					* └L	L
115V ALARM INTERLOCK			G	┌G		
115V ALARM INTERLOCK			H	* └H		

* THESE CONTACTS JUMPERED.

SIZE A CODE IDENT. NO. 99974 2901644
SCALE NONE REV LTR A SHEET 18

FORM 1377A4 8-65

CONN	PART NUMBER	MANUFACTURER AND TYPE
J1 LBP	MS3127E-14-12SX	
P2 W193	1897341-018	BENDIX PT08SE-14-12PX (SR)
P1 W193	1897340-016	BENDIX PT08SE-14-12S (SR)
J2 LBP	MS3127E-14-12P	

SIGNAL	J1 LBP SOC. NO.	P2 W193 PIN. NO.	P1 W193 SOC NO.	J2 LBP PIN NO.
**		A	A┐ *	
**		B	B┘	
** TEMP. ALARM LO	C	C	C	
** TEMP. ALARM HI	D	D	D	
** POWER ALARM LO	E	E	E	
** POWER ALARM HI	F	F	F	
CHARGER INTERLOCK	G	G	G	G
CHARGER INTERLOCK	H	H	H	H
SPARE		J	J	
28V HI	K	K	K	K
28V LO	L	L	L	L
GRD	M	M	M	M

* THESE CONTACT JUMPERED.

** NOT USED IN LBP CHARGER. SEE PTC TO LBP INTERCONNECT.

SIZE A CODE IDENT. NO. 99974 2901644
SCALE NONE REV LTR A SHEET 19

FORM 1377A4 8-65

CONN	PART NUMBER	MANUFACTURER AND TYPE
J4 PTC	MS3127E-18-32S	
P1 W197	MS3126F-18-32P	
P2 W197	1897344-251	CANNON CA 3101E-32-8S
P6 NAA	MS3106R-32-8P	
P2 NAA	MS3106R-32-8S	
CM HATCH		BENDIX TBF-32-8PS-FTG

SIGNAL	J4 PTC SOCKET NO.	P1 W197 PIN NO.	P2 W197 SOCKET NO.	P6 NAA PIN NO.	P2 NAA SOCKET NO.	CM HATCH PIN NO.
28 VDC } PTC INTERLOCK	A	A	G	G	G	G
-28 VDC }	B	B	H	H	H	H
CHASSIS GRD	J	J	Y	Y	Y	Y
SHIELD	V	V	T	T	T	T
SHIELD	W	W	c̄	c̄	c̄	c̄
CONTROL { PIP RETURN	P	P	Z	Z	Z	Z
SENSOR { IRIG/PIP HI } CONTROL	S	S	A	A	A	A
IRIG RETURN } SENSOR	K	K	B	B	B	B
SENSOR COMMON	C	C	a	a	a	a
IRIG HI } INDICATING SENSOR	G	G	D	D	D	D
RETURN }	T	T	C	C	C	C
+28 VDC	E	E	J	J	J	J
+28 VDC	F	F	X	X	X	X
+28 VDC	H	H	L	L	L	L
+28 VDC	R	R	V	V	V	V
-28 VDC	L	L	K	K	K	K
-28 VDC	N	N	U	U	U	U
-28 VDC	D	D	I	I	I	I
-28 VDC	U	U	W	W	W	W

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SCALE NONE REV LTR A SHEET 20

FORM 1377A4 8-65

CONN	PART NUMBER	MANUFACTURER AND TYPE
J11 PSAAM	MS3127E-20-41S	
P1 PSAAM CA	MS3126F-20-41P	
P2 PSAAM CA	1902030-002	SIMILAR TO HUGHES WSSD038P08BV001
45A7J2 PSA	1010622-2 OR 1010821-2	HUGHES WSSD038S00BV000

SIGNAL	J11 PSAAM SOCKET NO.	P1 PSAAM CABLE PIN NO.	P2 PSAAM CABLE PIN NO.	45A7J2 PSA SOCKET NO.
AGE LO	A	A	19	19
AGE LO	B	B	18	18
AGE HI	C	C	34	34
AGE HI	D	D	27	27
POWER HI	E	E	33	33
POWER LO	b	b	26	26
POWER LO	F	F	25	25
IMU TEMP. CONT. SIGNAL GRD.	a	a	10	10
SIGNAL LO	G	G	9	9
IMU TEMP. SENSOR COM	H	H	17	17
CONTROL HEATER HI	X	X	28	28
EMER HEATER HI	U	U	24	24
EMER HEATER HI	T	T	23	23
IRIG TEMP IND. SENSOR LO	K	K	15	15
IRIG TEMP IND. SENSOR LO	J	J	14	14
IRIG TEMP CONT. SENSOR LO	M	M	6	6
IRIG TEMP CONT SENSOR LO	L	L	7	7
IRIG TEMP CONT. SENSOR HI	P	P	5	5
IRIG TEMP CONT. SENSOR HI	N	N	13	13
IRIG TEMP IND. SENSOR HI	S	S	21	21
IRIG TEMP IND. SENSOR HI	R	R	20	20
EMER HEATER LO	W	W	32	32
EMER HEATER LO	V	V	31	31
CONTROL HEATER LO	Z	Z	36	36
CONTROL HEATER LO	Y	Y	35	35

SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 21

FORM 1377A4 9-65

CONN	PART NUMBER	MANUFACTURER AND TYPE
J1 PTC	MS3127E-14-12P	
P3 W185	MS3126F-14-12S	
J2 PTC	MS3127E-14-12PW	
P2 W185	MS3126F-14-12SW	
P1 W185	MS3126F-18-11P	
J1 ABP	MS3127E-18-11S	

SIGNAL	P3 W185 SOC NO.	P1 PTC PIN NO.	P2 W185 SOC NO.	J2 PTC PIN NO.	J1 ABP SOC NO.	P1 W185 PIN NO.
115V 60 HZ HI			M	M	K	K
115V 60 HZ LO			J	J	J	J
AUTO SWITCHOVER					F	*F
AUTO SWITCHOVER					C	*C
28V DC LO					D	*D
28V DC LO					B	*B
28V DC LO	L	L			G	*G
28V DC HI					A	*A
28V DC HI			K	K	H	*H
CHASSIS GRD	M	M	L	L	L	L
115V ALARM INTERLOCK			*G	G		
115V ALARM INTERLOCK			*H	H		

* THESE CONTACTS JUMPERED.

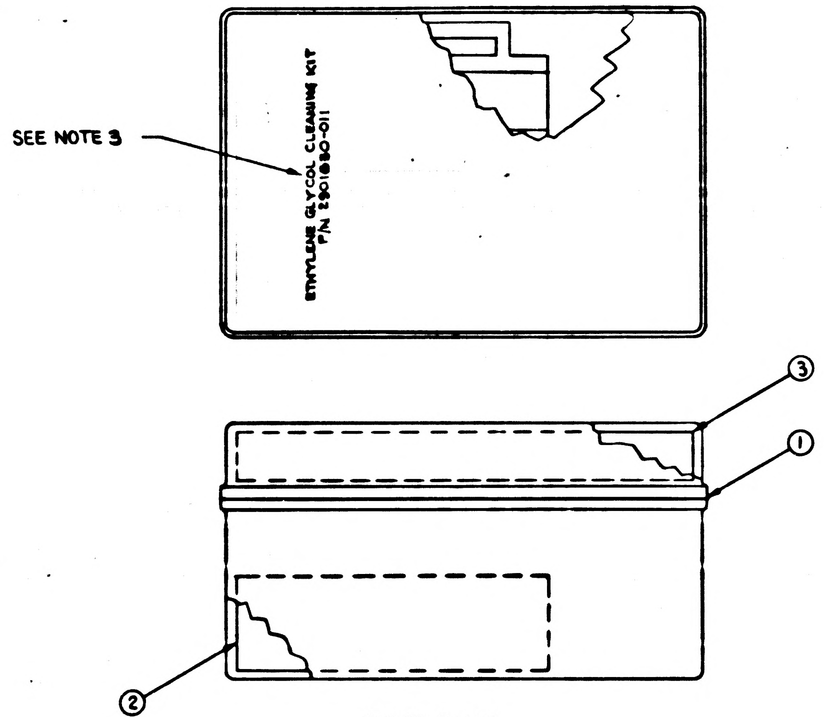
SIZE A | CODE IDENT. NO. 99974 | 2901644
SCALE NONE | REV LTR A | SHEET 22

FORM 1377A4 9-65

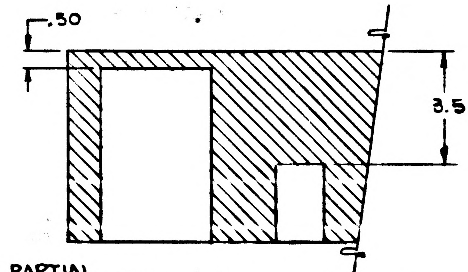
NOTES:
1. MATERIAL: POLYURETHANE FOAM 2.0# DENSITY, COLOR GRAY.
2. ITEM 1 SHALL MEET THE REQUIREMENTS OF ATA SPEC 300, CATEGORY I.
3. MARK WITH .38 MAX LETTERS, COLOR BLACK, LOCATE APPROXIMATELY AS SHOWN.

REVISIONS

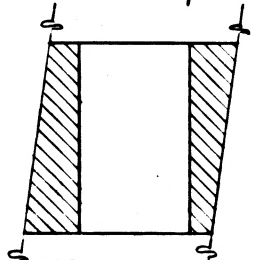
ZONE	LTR	DESCRIPTION		DATE	APP'D
	A	INITIAL RELEASE CLASS A PER TDRR 3-50	CHG. NO.	8 Aug 68	


SEE NOTE 3
ETHYLENE GLYCOL CLEANING KIT
P/N 2901650-011
③
①
②

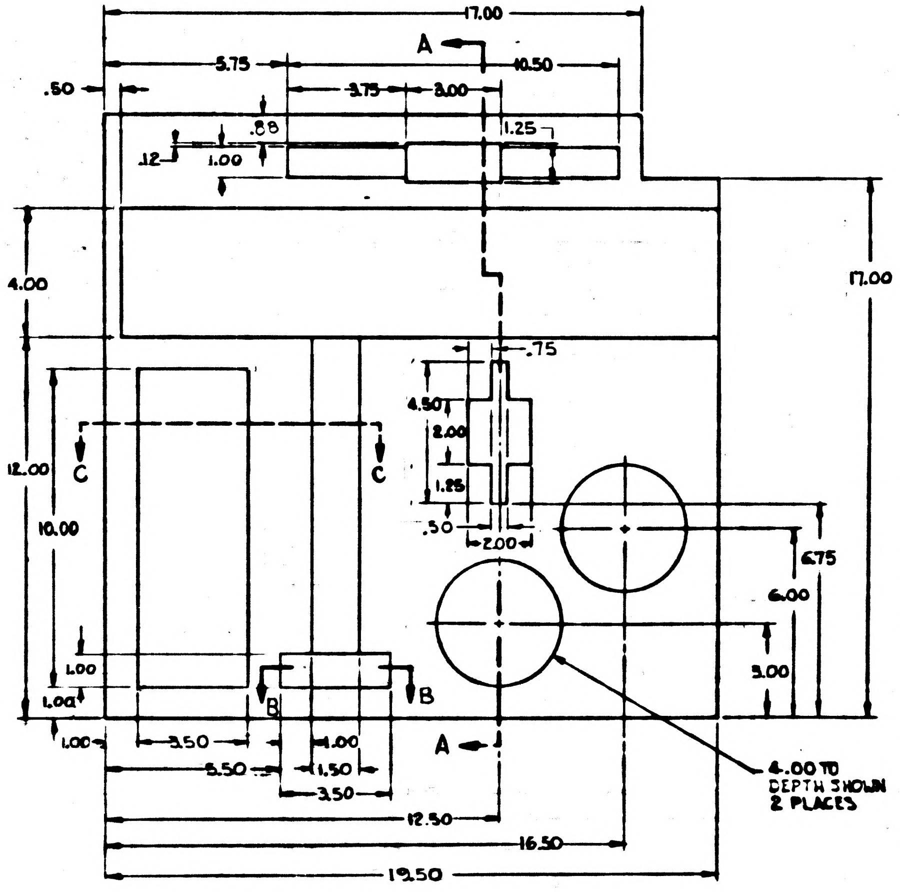
NOT TO SCALE



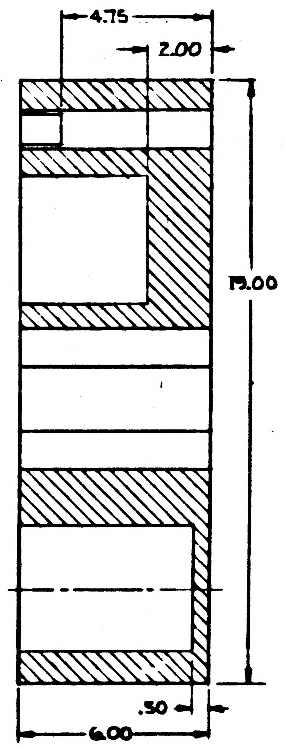
PARTIAL SECTION C-C



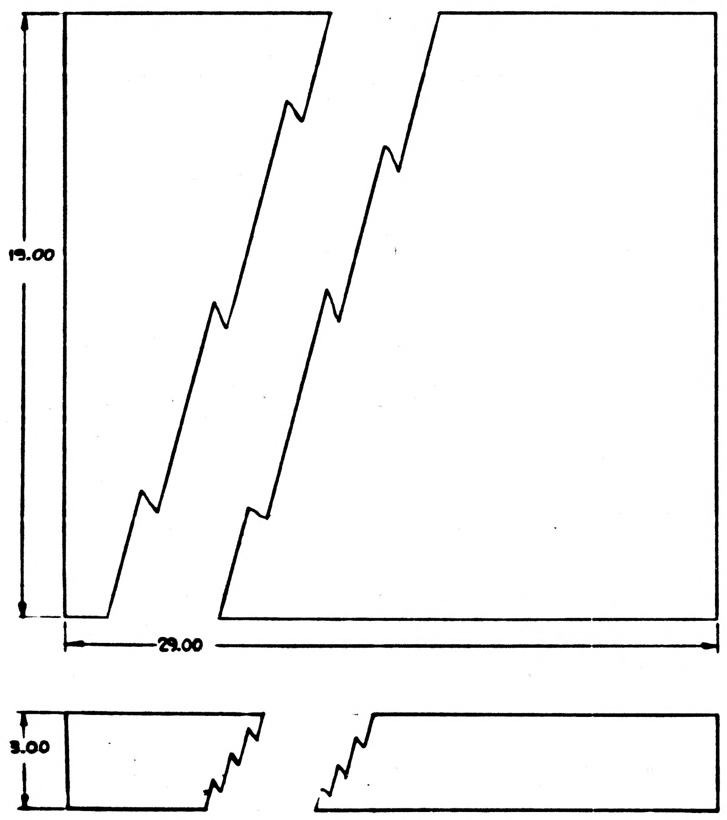
PARTIAL SECTION B-B


17.00
A
.50
5.75
10.50
3.75
3.00
.88
1.25
.12
1.00
4.00
17.00
.75
12.00
C
C
4.50
2.00
1.25
10.00
.50
2.00
6.75
6.00
1.00
3.00
1.00
B
B
1.00
3.50
4.00
5.50
1.50
3.50
A
12.50
16.50
19.50
4.00 TO DEPTH SHOWN 2 PLACES

DETAIL-ITEM 2


4.75
2.00
19.00
.50
6.00

SECTION A-A


15.00
29.00
3.00

DETAIL-ITEM 3

				ITEM NO.	CODE IDENT NO.	PART OR IDENTIFYING NO.	DRAWING OR SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	NOTES OR REMARKS
			1	3		2901645-003		CUSHION, TOP	1
			1	2		2901645-002		CUSHION, BOTTOM	1
			1	1	08520	2901645-001	TBP NO. 50065	CASE (THERMOPLASTIC CO)	2
			-011						

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .12
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

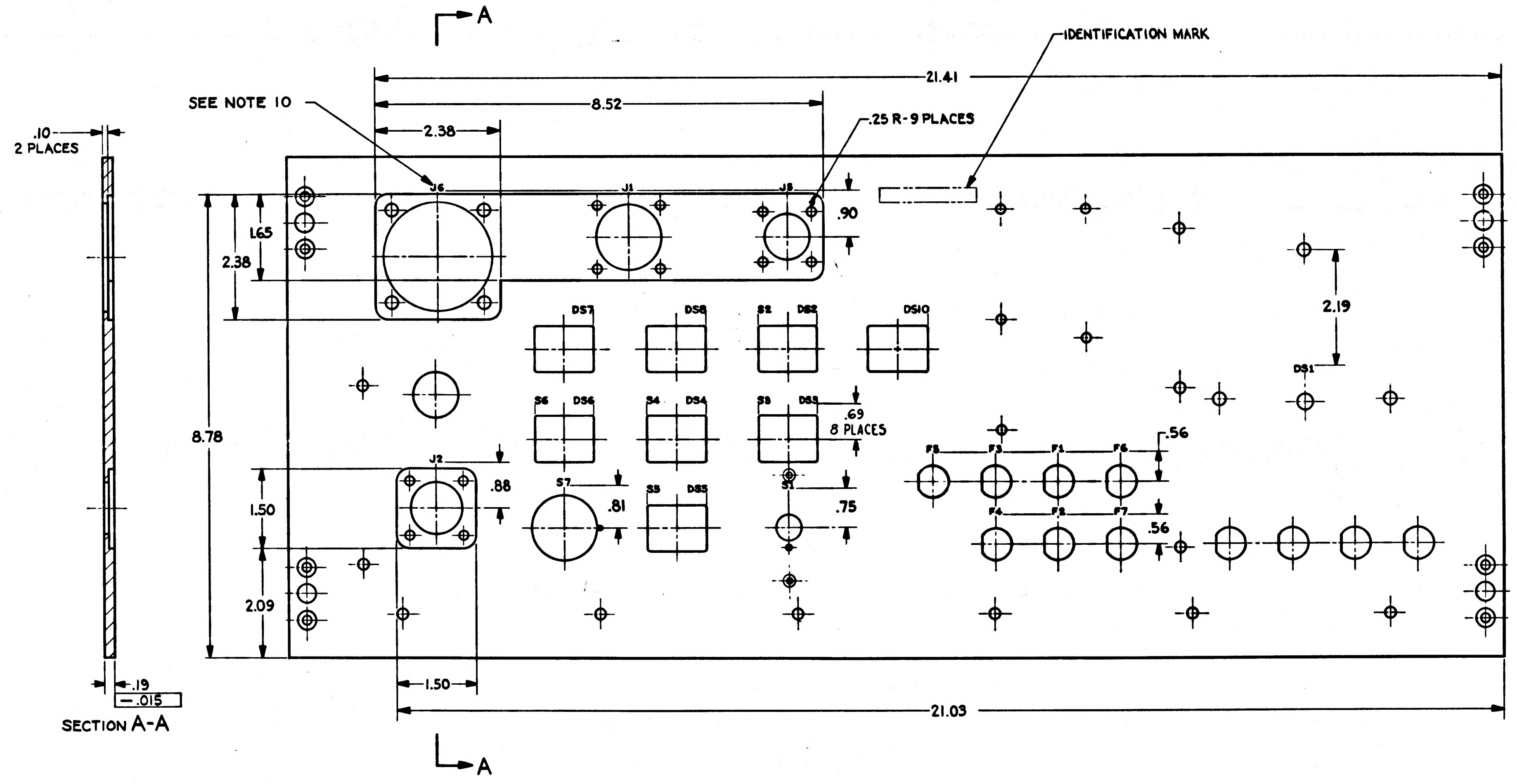
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN R. Tanko 8 Jun 68
CHECKED
CONTRACT NAS 9-497
NASA APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CASE ASSEMBLY

SIZE E
CODE IDENT NO. 99974
2901645
SCALE 1/2
SHEET 1 OF

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 57294		5 Feb	


A
SEE NOTE 10
IDENTIFICATION MARK
21.41
8.52
2.38
.25 R-9 PLACES
.10
2 PLACES
J6
J1
J3
.90
1.65
2.38
8.78
DS7
DS8
S2
DS2
DS10
2.19
DS1
S6
DS6
S4
DS4
S3
DS3
.69
8 PLACES
F5
F3
F1
F6
.56
J2
.88
S7
.81
S5
DS5
S1
.75
F4
F2
F7
.56
1.50
2.09
1.50
21.03
.19
—.015
SECTION A-A
A

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN 13-DEC-68 DATE
CHECKED 13 DEC 68
APPROVAL 13 DEC 68
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, FRONT —
BATTERY POWER PACK

CODE IDENT NO. 99974
SIZE E
2901662
SCALE FULL
SHEET 2 OF 2

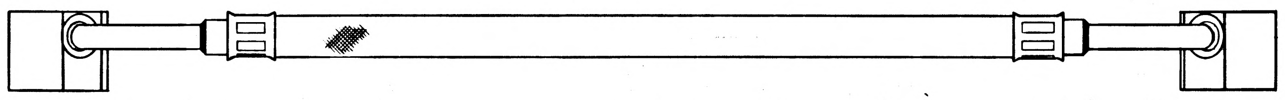
NEXT ASSY	USED ON
1902630-021	

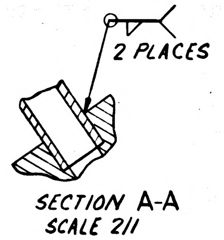
APPLICATION

ZONE	LTR	DESCRIPTION	DATE	APPD
	A	INITIAL RELEASE CLASS A PER TDRR 38159	15 JUN 70	

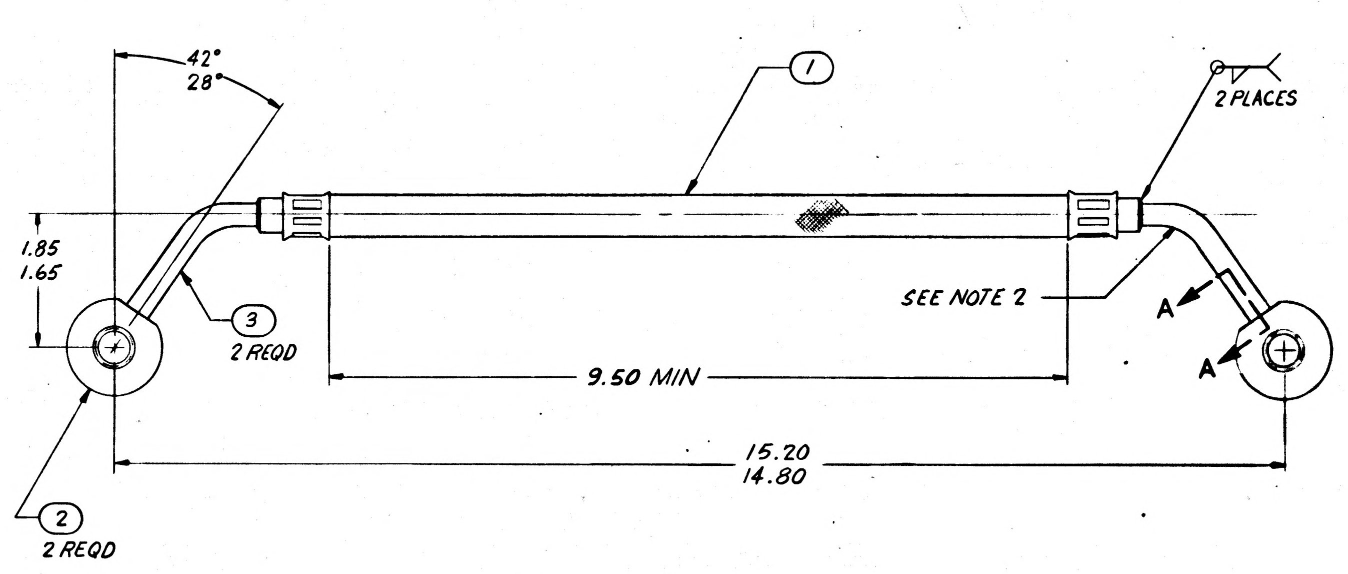
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. INSIDE BEND RADII 1.00 MIN FOR ITEM 3; 2.00 MIN FOR ITEM 1.
3. ENTIRE I.D. OF ASSEMBLY SHALL PERMIT PASSAGE OF A .187 DIA SST BALL.
4. WELD PER MIL-W-8611. POLISH ITEM 3 TO FIT IF REQUIRED.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130.
6. ITEMS 2 AND 3 MAY BE MADE FROM 1021616-000.
7. ONLY THE ITEM DESCRIBED ON THIS DRAWING, WHEN PROCURED FROM THE VENDOR LISTED HEREON, IS APPROVED BY AC ELECTRONICS FOR USE IN THE APPLICATION SPECIFIED HEREON. A SUBSTITUTE ITEM SHALL NOT BE USED WITHOUT PRIOR TESTING AND APPROVAL BY AC ELECTRONICS.
8. PRESSURE REQUIREMENT: ASSY SHALL BE CAPABLE OF WITHSTANDING 1500 PSIG
9. CLEANLINESS REQUIREMENT: MAXIMUM PERMISSIBLE PARTICLE SIZE SHALL BE 75 MICRONS.
10. MATERIAL: A. FITTINGS AND BRAID TO BE STAINLESS STEEL (304) B. HOSE TO BE TEFLON





SECTION A-A
SCALE 2/1



PROCURE FROM: RESISTOFLEX CORP.(50599)
WOODLAND ROAD
ROSELAND, N.J. 07068
VENDOR P/N R12402

	ITEM NO	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 6	3	2	2901684-002	SST TUBING 5/16 O.D.(18 GA) PER MIL-T-8506 TYPE I
SEE NOTE 6	2	2	1021617	BLOCK, JUMPER BY-PASS
SEE NOTE 10	1	1	2901684-001	FLEXIBLE HOSE, TEFLON, BRAIDED

LIST OF PARTS AND MATERIALS

SOURCE CONTROL DRAWING

APPLICABLE DASH NO.	NEXT ASSY	USED ON
000	1021616	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − 3 PLACE DECIMALS + — − ANGLES + — −

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

DRAWN 25FEB70 DATE
CHECKED C. Piojda 6MAR70
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BY-PASS ASSEMBLY (INSEPARABLE ASSEMBLY)

SIZE D
CODE IDENT NO. 99974
2901684
SCALE 1/1
SHEET 1 OF 1

APOLLO G&N Specification
PS2901143 REV 0 D
Original Issue Date:
Release Authority: TDRR 29186
Class Release

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

PSA ADAPTER MODULE (BLOCK II)

DRAWING NO. 2901143

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
4-28-66	A	MXC 211814	31		
5/5/66	B	MXC 212199	3, 12		
5/20/66	C	MXC 212606	7, 8		
5/27/66	D	29186	ALL SHEETS		

This specification consists of page 1 to 32 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	5/5/66 MIT/IL	ACSP

TABLE II

800 CPS PHASE SENSITIVE DEMODULATORS

Card Number	Gain $\frac{V_{dc\ out}}{V_{ac\ in}}$	Input		Output		R_S (Ohms ±2%)	Input Phase* ±1/2°	Reference	
		Hi	Lo	Hi	Lo			Hi	Lo
A7	2/5	J6-44	J6-24	J1-77	J1-76	3.5K	0°	J5-59	J5-60
A6	2/5	J6-11	J6-10	J1-52	J1-51	3.5K	0°	J5-59	J5-60
A5	2/5	J6-23	J6-43	J1-30	J1-29	3.5K	0°	J5-59	J5-60
A39	1/1	J5-30	J5-40	J1-2	J1-10	51K	0°	J5-58	J5-34
A40	1/1	J5-51	J5-38	J1-1	J1-4	51K	0°	J5-58	J5-34
A31	2/5	J5-39	J5-40	J1-5	J1-14	30K	0°	J5-58	J5-34
A30	2/5	J5-61	J5-38	J1-12	J1-13	30K	0°	J5-58	J5-34
A29	2/5	J5-44	J5-45	J1-75	J1-50	30K	0°	J5-58	J5-34
A38	1/1	J5-47	J5-46	J1-74	J1-49	30K	0°	J5-58	J5-34
A41	2/5	J5-31	J5-40	J1-3	J1-11	4.7K	0°	J5-58	J5-34
A42	2/5	J5-52	J5-38	J1-28	J1-27	4.7K	0°	J5-58	J5-34

* With respect to reference.

3.1.10 3200 CPS Phase Sensitive Demodulator.

3.1.10.1 Gain. The demodulator gain shall be adjustable to provide the gain specified in Table III.

3.1.10.2. Linearity. The gain linearity shall be within ±2 percent form 0.5 to 2 vdc out and within ±5 percent from 0.15 to 0.5 vdc out.

3.1.10.3 Quadrature Rejection. The quadrature rejection shall be greater than 30 to 1 at 2 vdc out.

3.1.10.4 Offset Voltage. The offset voltage shall be less than 5 mvdc when the input is shorted.

3.1.10.5 Operating Frequency. The operating frequency shall be 3200 cps.

3.1.10.6 Output Ripple. The output ripple shall be less than 20 mv pp at 2 vdc out.

3.1.11 Current Drain. The total current drain at J6-57, J6-58 and J6-59 shall be less than 0.4 amperes.

3.1.12 Input Impedance. The input impedance shall be greater than 4 megohms between J5-39 and J5-40, J5-61 and J5-38, J5-44 and J5-45, and J5-47 and J5-46.

TABLE IV

CONTINUITY AND DC RESISTANCE

FROM	TO	RESISTANCE (ohms)	FROM	TO	RESISTANCE (ohms)
J6-57	J6-58	<2	J6-47	J7-47	<2
J6-57	J6-59	↑	J6-47	J1-62	10K ±2%
J6-57	J7-57		J6-48	J7-48	<2
J6-57	J7-58		J6-48	J1-63	<2
J6-57	J7-59		J6-26	J7-26	<2
J6-60	J7-60		J6-26	J1-59	10K ±2%
J6-19	J7-19		J1-36	J1-59	<2
J6-37	J6-61		J6-27	J7-27	<2
J6-37	J6-20		J6-27	J1-35	<2
J6-37	J7-61		J5-15	J8-15	<2
J6-37	J7-37		J5-15	J1-57	10K ±2%
J6-37	J7-20		J1-56	J1-57	<2
J6-37	J8-57		J5-14	J8-14	<2
J6-37	J5-57		J5-14	J1-34	<2
J6-38	J7-38		J5-5	J8-5	<2
J5-56	J8-56		J5-5	J1-33	10K ±2%
J6-45	J7-45	↓	J1-16	J1-33	<2
J6-46	J7-46	<2	J6-41	J7-41	<2
J6-45	J6-46	<100	J6-41	J1-18	10K ±2%
J6-25	J7-25	<2	J1-6	J1-18	<2
J6-25	Chassis	<2	J5-6	J8-6	<2
J6-46	J1-15	>1 Meg	J5-6	J1-20	10K ±2%
J6-42	J7-42	<2	J1-19	J1-20	<2
J6-42	J3-8	>1 Meg	J5-16	J8-16	<2
J6-42	J3-22	>1 Meg	J5-16	J1-19	<2
J6-39	J7-39	<2	J5-14	J6-22	>1 Meg
J6-21	J7-21	<2	J5-14	J2-61	>1 Meg
J6-40	J7-40	<2	J5-14	J1-60	<2
J6-21	J3-20	>1 Meg	J5-14	J6-9	>1 Meg
J6-40	J3-39	>1 Meg	J5-14	J2-60	>1 Meg
J6-18	J7-18	<2	J5-14	J1-58	<2
J6-6	J7-6	<2	J5-14	J5-15	>1 Meg
J6-7	J7-7	<2	J5-14	J2-39	>1 Meg
J6-22	J7-22	<2	J5-14	J5-5	>1 Meg
J6-22	J1-85	10K ±2%	J5-14	J2-20	>1 Meg
J1-84	J2-84	<2	J5-14	J1-17	<2
J4-C	Chassis	<2	J5-26	J6-25	>10 Meg
J5-57	J4-B	>1 Meg	J5-14	J6-41	>1 Meg
J6-9	J7-9	<2	J5-14	J2-19	>1 Meg
J6-9	J1-83	10K ±2%	J5-14	J1-7	<2
J1-82	J1-83	<2	J6-48	J6-47	>1 Meg

TABLE IV (Continued)

FROM	TO	RESISTANCE (ohms)	FROM	TO	RESISTANCE (ohms)
J6-48	J2-59	>1 Meg	J5-34	J1-31	>1 Meg
J6-27	J6-26	>1 Meg	J5-55	J1-45	>1 Meg
J6-27	J2-58	>1 Meg	J5-55	J1-40	>1 Meg
J5-16	J5-6	>1 Meg	J5-55	J1-22	>1 Meg
J5-16	J2-18	>1 Meg	J5-55	J1-9	>1 Meg
J6-31	J7-31	<2	J5-32	J8-32	<2
J6-31	J1-61	<2	J5-55	J1-71	>1 Meg
J6-31	J1-38	<2	J6-36	J7-36	<2
J6-53	J7-53	<2	J6-36	J1-42	<2
J6-53	J1-37	<2	J1-23	J1-42	<2
J6-53	J1-39	<2	J1-23	J1-66	<2
J6-52	J7-52	<2	J6-17	J7-17	<2
J6-52	J1-64	<2	J6-17	J1-43	<2
J6-16	J7-16	<2	J6-34	J7-34	<2
J6-16	J1-79	<2	J6-34	J1-24	<2
J6-33	J7-33	<2	J6-35	J7-35	<2
J6-33	J1-55	<2	J6-35	J1-67	<2
J5-18	J8-18	<2	J6-44	J7-44	<2
J5-7	J8-7	<2	J6-24	J7-24	<2
J5-7	J2-80	<2	J6-24	J6-27	>1 Meg
J5-7	J2-32	<2	J6-11	J7-11	<2
J5-17	J8-17	<2	J6-10	J7-10	<2
J5-58	J8-58	<2	J6-10	J6-27	>1 Meg
J5-34	J8-34	<2	J6-23	J7-23	<2
J5-34	J2-53	<2	J6-43	J7-43	<2
J5-34	J1-31	>1 Meg	J6-43	J6-27	>1 Meg
J5-7	J1-54	>1 Meg	J6-27	J1-76	>1 Meg
J5-34	J2-31	<2	J6-27	J1-51	>1 Meg
J5-35	J8-35	<2	J6-27	J1-29	>1 Meg
J5-59	J8-59	<2	J5-54	J8-54	<2
J5-59	J5-60	>90K	J5-60	J5-54	>1 Meg
J5-60	J8-60	<2	J5-60	J6-27	>1 Meg
J5-60	J1-31	>1 Meg	J5-57	J5-55	>1 Meg
J5-60	J1-76	>1 Meg	J6-14	J7-14	<2
J5-60	J1-51	>1 Meg	J6-3	J7-3	<2
J5-60	J1-29	>1 Meg	J6-5	J7-5	<2
J5-57	J1-46	>1 Meg	J6-1	J7-1	<2
J5-57	J1-45	>1 Meg	J6-15	J7-15	<2
J5-57	J1-71	>1 Meg	J6-4	J7-4	<2
J5-57	J1-40	>1 Meg	J6-13	J7-13	<2
J5-57	J1-22	>1 Meg	J6-12	J7-12	<2
J5-57	J1-9	>1 Meg	J6-27	J2-42	<2
J5-33	J8-33	<2	J6-27	J2-23	<2
J5-55	J8-55	<2	J6-27	J2-67	<2
J5-55	J1-46	>1 Meg	J6-27	J2-45	<2

TABLE IV (Continued)

FROM	TO	RESISTANCE (ohms)
J6-27	J2-11	<2
J6-27	J2-46	<2
J6-27	J2-27	<2
J6-27	J2-72	<2
J5-30	J8-30	<2
J5-40	J8-40	<2
J5-40	J1-10	>1 Meg
J5-40	J1-14	>1 Meg
J5-40	J1-11	>1 Meg
J5-51	J8-51	<2
J5-38	J8-38	<2
J5-38	J1-4	>1 Meg
J5-38	J1-13	>1 Meg
J5-38	J1-27	>1 Meg
J5-39	J8-39	<2
J5-61	J8-61	<2
J5-44	J8-44	<2
J5-45	J8-45	<2
J5-45	J1-50	>1 Meg
J5-47	J8-47	<2
J5-46	J8-46	<2
J5-46	J1-49	>1 Meg
J5-31	J8-31	<2
J5-26	J8-26	<2
J6-57	J5-14	>1 Meg
J5-26	J5-39	>10 Meg
J5-26	J5-40	>10 Meg
J5-26	J5-61	>10 Meg
J5-26	J5-38	>10 Meg
J5-26	J5-44	>10 Meg
J5-26	J5-45	>10 Meg
J5-26	J5-47	>10 Meg
J5-26	J5-46	>10 Meg
J6-25	J6-45	>10 Meg
J6-25	J6-46	>10 Meg
J5-52	J8-52	<2
J5-8	J8-8	<2
J5-8	J1-68	<2
J5-9	J8-9	<2
J5-9	J1-44	<2
J5-19	J8-19	<2
J5-19	J2-30	<2
J5-14	J2-29	<2
J6-8	J7-8	<2
J6-8	J2-17	4.53K ±2%
J6-2	J7-2	<2
J6-2	J2-6	<2
J6-54	J7-54	<2
J6-54	J2-16	4.53K ±2%
J6-32	J7-32	<2
J6-32	J2-5	<2
J6-56	J7-56	<2
J6-56	J2-15	4.53K ±2%
J6-55	J7-55	<2
J6-55	J2-14	<2
J5-36	J8-36	<2
J5-36	J2-51	<2
J5-7	J2-50	<2
J5-34	J1-10	>1 Meg
J5-34	J1-4	>1 Meg
J5-34	J1-14	>1 Meg
J5-34	J1-13	>1 Meg
J5-34	J1-50	>1 Meg
J5-34	J1-49	>1 Meg
J5-34	J1-11	>1 Meg
J5-34	J1-27	>1 Meg
J6-50	J7-50	<2
J6-50	J5-50	<2
J8-50	J5-50	<2
J6-50	Chassis	<2
J6-25	J5-26	>1 Meg
J5-26	J5-30	>10 Meg
J5-26	J5-51	>10 Meg

3.2.2.3 3200 CPS Phase Difference Circuit Calibration. The Power Switch shall be in the "ON" position during calibration.

a. Connect the detector as recommended in Figure 1. The detector, A2, is located in the assembly as shown in Figure 2.

b. Adjust R1 fully cw.

c. Apply a 6±1 volt positive going pulse 4±1 μsec wide with a rise time <100 nsec, 3200±3 pps through a 2K ohm ±2 percent source resistor, between J6-45 (hi) and J6-46 (lo). The lead length between J6-45 and the 2K ohm resistor shall be less than 1 ft.

d. Apply a 28V ±1/2 [illegible] t, 3200 cps sine wave signal, which is synchronized with the 3200 pps [illegible] phase shift is -20° ±1° from the leading edge of the pulse, through 1[illegible] ohm [illegible]1 percent source resistor, between J5-56 (hi) and J5-57 (lo). The le[illegible] between J5-56 and the 10K ohm resistor shall be less than 1 ft.

e. Adjust potentiometer [illegible] til the output voltage between J1-32 (hi) and J1-15 (lo) is [illegible] 0 ±25 mvdc. T[illegible] input impedance to the measuring instrument shall be greater than 7.5 megohms.

f. Apply an input voltage of 28V rms ±1/2 percent, 3200 cps at an angle of 0° ±1/2° with respect to the leading edge of the pulse. Adjust potentiometer R1 for an output voltage of 1.040±0.02 vdc.

3.2.2.4 800 CPS Phase Difference Circuit Calibration. The Power Switch shall be in the "ON" position during calibration.

a. Connect the circuit as recommended in Figure 3 and as specified in Table V. The lead length between Resistor R_S and the circuit shall be less than 1 ft. The circuits are located as shown in Figure 2.

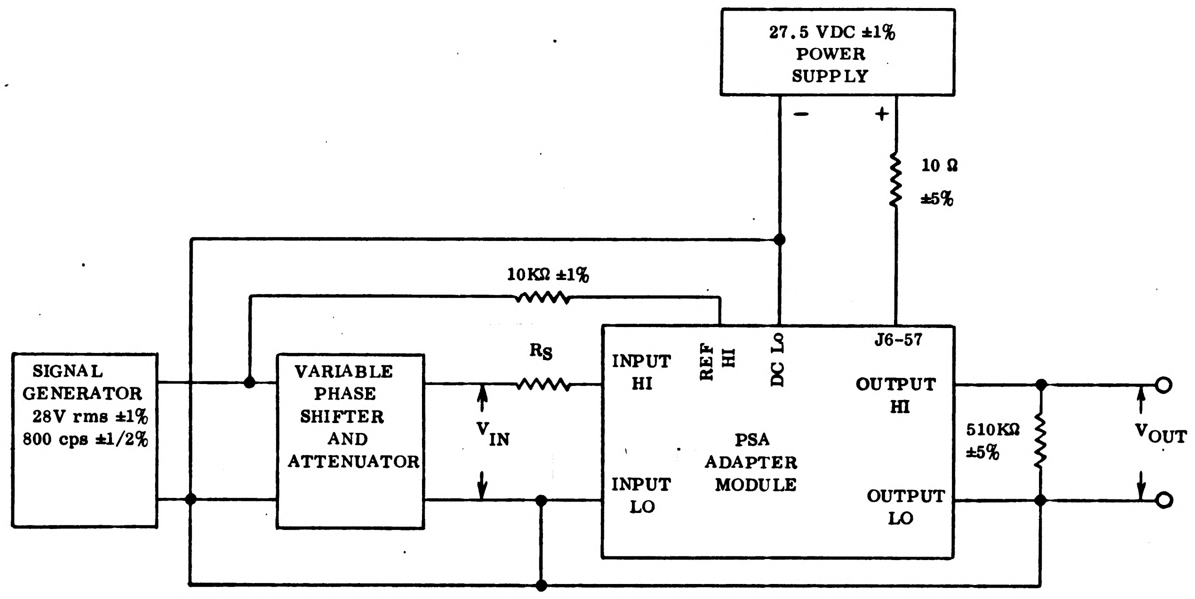
b. Adjust the oscillator to 800 cps ±1/2 percent, 28V rms ±1/2 percent, +90 degrees ±1/2 degree from the angle specified in Table V. Adjust potentiometer R2 12±3 turns from the cw end and adjust Potentiometer R3 for a 2 vdc output.

c. Adjust the phase of the input signal to the angle specified in Table V within 1/2 degree while maintaining the same magnitude and frequency specified in 3.2.2.4.b. Adjust R2 to obtain an output of 0±5 mvdc.

d. Adjust the phase of the input signal -20 degrees ±1/2 degree from the value specified in Table V and adjust R_3 for an output of -700 mvdc ±1/2 percent.

e. Adjust the phase of the input signal +20 degrees ±1/2 degree from the value specified in Table V and measure the output voltage.

f. Readjust R_3 if necessary to provide a gain equal to 35 mvdc/degree ±3 percent for conditions of 3.2.2.4.d and 3.2.2.4.e.


27.5 VDC ±1%
POWER
SUPPLY
−
+
10 Ω
±5%
10KΩ ±1%
SIGNAL
GENERATOR
28V rms ±1%
800 cps ±1/2%
VARIABLE
PHASE
SHIFTER
AND
ATTENUATOR
R_S
V_{IN}
INPUT
HI
REF
HI
DC Lo
J6-57
OUTPUT
HI
PSA
ADAPTER
MODULE
INPUT
LO
OUTPUT
LO
510KΩ
±5%
V_{OUT}

800 CPS PHASE SENSITIVE DEMODULATOR AND 800 CPS
PHASE DIFFERENCE CIRUCIT TEST SETUP
FIGURE 3

3.2.2.6 800 CPS Phase Sensitive Demodulator Calibration. The Power Switch shall be in the "ON" position during calibration.

a. Connect the demodulator as recommended in Figure 3 and as specified in Table II. The lead length between Resistor R_S and the demodulator shall be less than 1 ft. The demodulator locations are shown in Figure 2.

b. Adjust the oscillator to 800 cps ±1/2 percent. Adjust Potentiometer R_2 12±3 turns from the cw end and adjust Potentiometer R_3 for a gain within ±2 percent of the gain specified in Table II at a 1 vdc ±1 percent output.

c. Adjust the phase of the input signal 90° from the value specified in Table II while maintaining the same input level used in 3.2.2.6.b. Adjust R_2 to obtain an output of 0±25 mvdc.

d. Adjust the input signal phase to 270° from the value specified in Table II and measure the output voltage.

e. Readjust R_2 so that the outputs obtained in 3.2.2.6.c and 3.2.2.6.d are 0±25 mvdc.

f. Adjust the phase of the input signal to that specified in Table II and readjust R_3 so that the gain is within ±0.5 percent of that specified in Table II at a +1 vdc output.

3.2.2.7 3200 CPS Phase Sensitive Demodulator Calibration. The Power Switch shall be in the "ON" position during calibration.

a. Connect the demodulator as recommended in Figure 5 and as specified in Table III. The lead length between Resistor R_S and the demodulator shall be less than 1 ft. The demodulator locations are shown in Figure 2.

b. Adjust the oscillator to 3200 cps ±1/2 percent. Adjust Potentiometer R_2 12±3 turns from the cw end and adjust Potentiometer R_3 for a gain within ± 2 percent of the gain specified in Table III at a 1 vdc ±1 percent output.

c. Adjust the phase of the input signal 90° from the value specified in Table III while maintaining the same input level used in 3.2.2.7.b. Adjust R_2 to obtain an output of 0±25 mvdc.

d. Adjust the input signal phase to 270° from the value specified in Table III and measure the output voltage.

e. Readjust R_2 so that the outputs obtained in 3.2.2.7.c and 3.2.2.7.d are 0±25 mvdc.

f. Adjust the phase of the input signal to that specified in Table III and readjust R_3 so that the gain is within ±0.5 percent of that specified in Table III at a +1 vdc output.

4.2.1.3 Pulses. The assembly shall be tested with pulses as follows:

a. Positive and negative pulses having the following characteristics:

(1) Width: 1 μsec ±5 percent
(2) Rise Time: <100 nsec
(3) Repetition Rate: 2000 pps ±10 percent
(4) Magnitude: Variable from 1 volt to 6 volts

b. Positive and negative pulses having the following characteristics:

(1) Fall Time: >50 μsec
(2) Rise Time: 24 μsec ±5 percent
(3) Magnitude: 1.30, ±5 percent, times the magnitude of pulses specified in 4.2.1.3.a(4)

c. Positive and negative pulses having the following characterisics:

(1) Fall Time: >100 μsec
(2) Rise Time: 60 μsec ±5 percent
(3) Magnitude: 1.30, ±5 percent, times the magnitude of pulses specified in 4.2.1.3.a(4)

d. **Positive** and negative pulses having the following characteristics:

(1) Width: 1 μsec ±5 percent
(2) Rise Time: <100 nsec
(3) Magnitude: 1.1 times the magnitude of the pulses specified in 4.2.1.3.a(4).

e. Positive and negative pulses having the following characteristics:

(1) Width: 2 μsec ±5 percent
(2) Rise Time: <100 nsec
(3) Repetition Rate: 2000 pps ±10 percent
(4) Magnitude: Variable from 1 volt to 6 volts

4.2.1.4 DC power Connections. Whenever power is applied to the assembly, the power supply DC Lo shall be connected to the interconnection of J5-7, J5-14, J5-16, J5-34, J5-38, J5-40, J5-45, J5-46, J5-55, J5-57, J5-60, J6-25, J6-27 and J6-48. DC Hi shall be connected through a 10 ohm ±5 percent resistor to J6-57.

4.2.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3.6 AC Amplifiers, Connections to the AC Amplifiers shall be in accordance with Tables IX and X and Figure 6. The Power Switch shall be in the "ON" position.,

4.3.6.1 Clipping. With the AC amplifiers connected as recommended in Figure 6, and for amplifiers whose connections are specified in Table IX and the oscillator frequency at 800 cps ±1 percent, the oscillator output amplitude shall be increased until clipping occurs and then decreased until clipping is no longer visible, the voltage at this point shall be greater than 5.5V rms. For the amplifiers whose connection are shown in Table X, the testing shall be the same except the input level at which clipping is no longer visible shall be greater than 31V rms. With the supply voltage decreased to 24.5 vdc, the input levels that produce clipping shall be greater than 5V rms and greater than 28V rms respectively.

4.3.6.2 Gain. For amplifiers whose connections are shown in Table IX and as recommended in Figure 6, the oscillator output at 0.15, 0.35, 0.55, 0.75, 1.5, 2.5 and 5.0V rms ±1 percent 800 cps ±1 percent, the gain (E_{out}/E_{in}) shall be 0.99±0.01 volts/volt for each magnitude of oscillator output voltage. For the amplifiers whose connections are shown in Table X, the testing shall be the same except the test shall be at 800 cps ±1 percent, the gain shall be 0.18 volt/volts ±1 percent with an input of 28V rms ±1 percent. Read and record all gain values to a minimum of 3 significant places to the right of the decimal point.

TABLE IX

LOW LEVEL AC AMPLIFIERS

	INPUT		OUTPUT		R_S
Frequency cps ±1%	Hi	Lo	Hi	Lo	(ohms ±1%)
800	J6-14	J6-27	J2-66	J2-42	20K
800	J6-3	J6-27	J2-43	J2-23	20K
800	J6-5	J6-27	J2-68	J2-67	20K
800	J6-1	J6-27	J2-69	J2-45	20K
800	J6-15	J6-27	J2-25	J2-11	20K
800	J6-4	J6-27	J2-70	J2-46	20K
800	J6-13	J6-27	J2-47	J2-27	20K
800	J6-12	J6-27	J2-71	J2-72	20K

TABLE X

HIGH LEVEL AC AMPLIFIERS

	INPUT		OUTPUT		R_S
Frequency cps ±1%	Hi	Lo	Hi	Lo	(ohms ±1%)
800	J5-18	J5-7	J2-81	J2-80	10K
800	J5-17	J5-7	J2-55	J2-32	10K
800	J5-58	J5-34	J2-78	J2-53	10K
800	J5-35	J5-34	J2-52	J2-31	10K

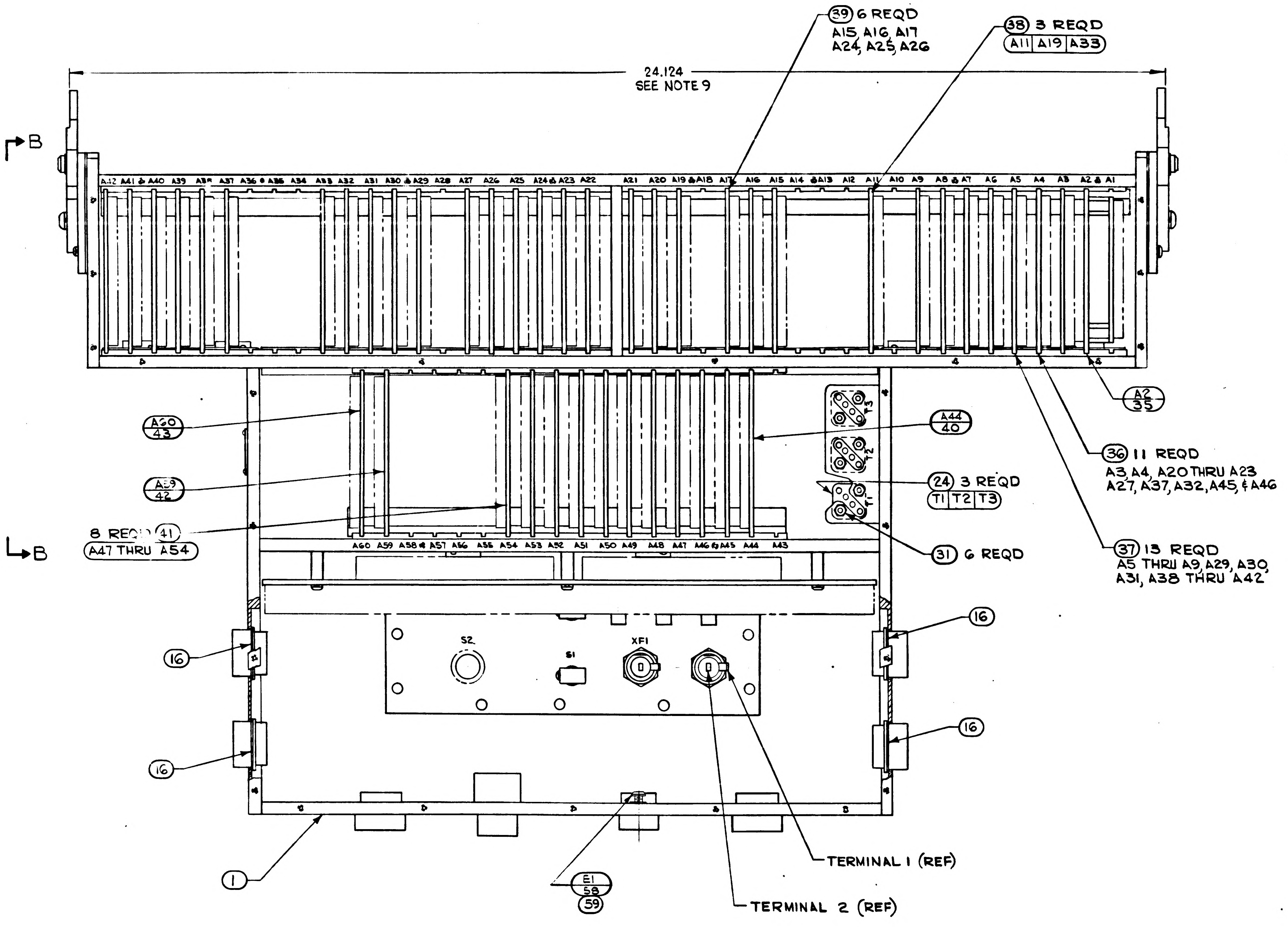
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM ㊹ IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS ㉕, ㉖ & ㊺ USING ITEM ㊻.
7. ITEM ③ TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM	(51)
WIRING HARNESS A	ITEM	㊽
CABLE, INTERCONNECT	ITEM	㊾
CABLE, INTERCONNECT	ITEM	㊿

9. REMOVE SHIMS FROM ⑩ & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		8 APR 66	RU
	G	REVISED PER MXC 211385		20 APR 66	M.G.
	H	REVISED PER MXC 211680		22 APR 66	
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	
	L	INITIAL RELEASE CLASS A PER TDRR 29146		20 MAY 66	JKD



39 6 REQD
A15, A16, A17
A24, A25, A26
38 3 REQD
A11 A19 A33
24.124
SEE NOTE 9
B
B
A42 A41 & A40 A39 A38 A37 A36 & A35 A34 A33 A32 A31 A30 & A29 A28 A27 A26 A25 A24 & A23 A22 A21 A20 A19 & A18 A17 A16 A15 A14 & A13 A12 A11 A10 A9 A8 & A7 A6 A5 A4 A3 A2 & A1
A2
35
A20
43
A19
42
8 REQD 41
A47 THRU A54
A44
40
36 11 REQD
A3, A4, A20 THRU A23
A27, A37, A32, A45, & A46
24 3 REQD
T1 T2 T3
T3
T2
T1
31 6 REQD
37 13 REQD
A5 THRU A9, A29, A30,
A31, A38 THRU A42
A60 A59 A58 & A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 & A45 A44 A43
S2
S1
XF1
16
16
16
16
1
E1
58
59
TERMINAL 1 (REF)
TERMINAL 2 (REF)

VIEW A-A WITH COVER REMOVED

							ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				1			60	2901539	HOOK MOUNTING RIGHT HAND
				1			59	MS35333-72	WASHER, LOCK
SEE NOTE 3				1			58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3				2			57	1006783-44	SCREW-BUTTON HD
				2			56	2901474	SHIM, SPRING
				AR			55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR			54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
				AR			53	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3
				X			52	PS 2901143	PROCUREMENT SPEC
				1			51	2901458	LEAD SET AA
				1			50	2901146	CABLE ASSY, INTERCONNECT
				1			49	2901145	CABLE ASSY, INTERCONNECT
				1			48	2901144	WIRING HARNESS A
				X			47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
				AR			46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
				4			45	AN515C2R2	(1896876-252) SCREW
				1			44	1004260-188	NAMEPLATE
				1			43	1902434-011	LINE DRIVE AMPL ASSY
				1			42	2901168-011	ATTENUATOR ASSY
				8			41	2901154-011	GLITCH DETECTOR ASSY
				1			40	2901147-011	PHASE SHIFTER, 90°
				6			39	2901176-021	DEMODULATOR, PHASE SENSITIVE
				3			38	2901203-011	CONVERTER, WAVE FORM
				13			37	2901176-011	DEMODULATOR, PHASE SENSITIVE
				11			36	1902433-011	AC AMPLIFIER ASSY
				1			35	2901063-011	PHASE DIFFERENCE ASSY
				4			34	MS171498	PIN-SPRING
				4			33	MS35338-81	WASHER-LOCK
				81			32	MS35338-78	WASHER-LOCK
SEE NOTE 3				38			31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3				2			30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3				113			29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3				10			28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3				6			27	1897408-001	RETAINER-CABLE STRAP
				6			26	MS51959-42	SCREW-FL. HD 82°
SEE NOTE 3				7			25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3				3			24	1897413	TRANSFORMER
				2			23	M26572-1	FUSEHOLDER
				2			22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3				3			21	1016265-006	SWITCH
SEE NOTE 3				2			20	1016265-004	SWITCH
SEE NOTE 3				1			19	1897379-001	SWITCH
				2			18	1900368-006	GASKET, CONNECTOR
				2			17	2901222-001	GASKET, CONNECTOR
				4			16	2901222-002	GASKET, CONNECTOR
				1			15	MS91528-0P1B	(1897080-001) KNOB
				2			14	MS16628-4037	(1896926-007) RING, RETAINING
				1			13	2901437	SPRING, RETAINING L.H.
				1			12	2901348	SPRING, RETAINING R.H.
				2			11	2901347	SUPPORT (INSEP ASSY)
				2			10	2901346	SHIM, SUPPORT
				1			9	2901249	HOOK, MOUNTING LEFT HAND
				1			8	2901247-011	ELECTRONIC COMPONENTS ASSY
				1			7	2901246-002	STOP, BLOCK
				1			6	2901246-001	STOP, BLOCK
				1			5	2901245	STOP, BLOCK
				1			4	2901244	PANEL (INSEP ASSY)
				1			3	2901243	COVER, BOTTOM (INSEP ASSY)
				1			2	2901242	COVER, TOP (INSEP ASSY)
				1			1	2901241	CASE (INSEP ASSY)
	QUANTITY REQUIRED			011	EFFECTIVITY			LIST OF PARTS AND MATERIALS	

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	
011	1900030	1900030

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN M. Erickson DATE 17 JAN 66
CHECKED Ed Foster 12 JAN 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZGER 5/27/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET OF 3

5APR66

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
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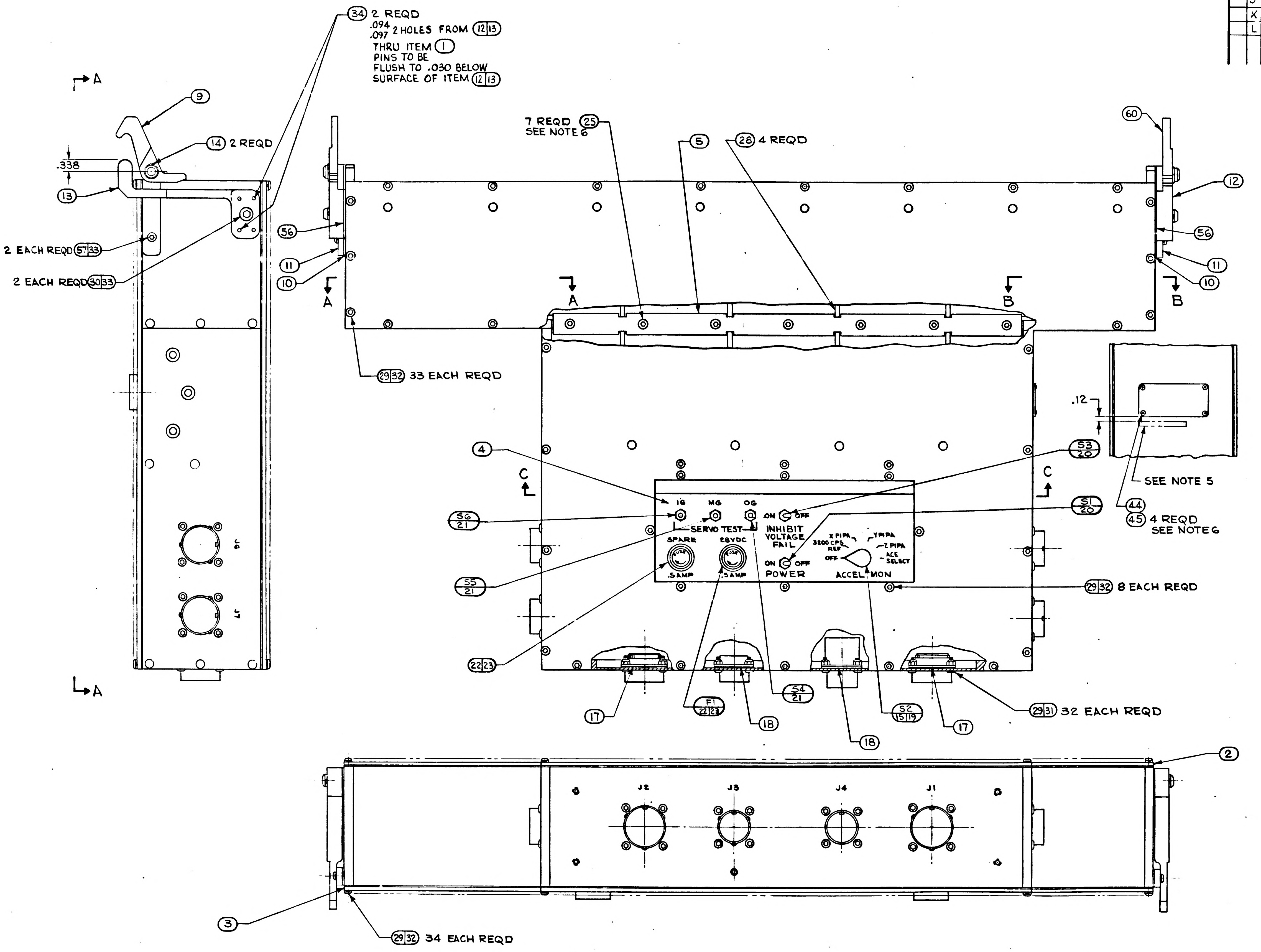
	G	REVISION STATUS CHANGED		20-APR 66	
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	
	L	INITIAL RELEASE CLASS A PER TDRR		20 MAY 66	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.097 2 HOLES FROM 12 13
THRU ITEM 1
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FLUSH TO .030 BELOW
SURFACE OF ITEM 12 13
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9
14 2 REQD
.338
13
2 EACH REQD 57 33
2 EACH REQD 30 33
J6
J7
A
7 REQD 25
SEE NOTE 6
5
28 4 REQD
60
12
56
11
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B
B
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45 4 REQD
SEE NOTE 6
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C
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S6
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MG
OG
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INHIBIT
VOLTAGE
FAIL
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SPARE
28VDC
.SAMP
.SAMP
ON OFF
POWER
X PIPA
Y PIPA
3200 CPS
REF
Z PIPA
OFF
ACE
SELECT
ACCEL MON
S5
21
29 32 8 EACH REQD
22 23
17
F1
22 23
18
S4
21
18
S2
15 19
17
29 31 32 EACH REQD
2
J2
J3
J4
J1
3
29 32 34 EACH REQD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + − 3 PLACE DECIMALS + − ANGLES + −	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN M Gardner DATE 1-APR 66 CHECKED Ed Foster 4APR66 APPROVAL CONTRACT NAS 9-497	PSA ADAPTER MODULE (BLK II)
MATERIAL —	NASA APPROVAL 5/27/66	SIZE E CODE IDENT NO. 99974 2901143
APPROVAL	MIT APPROVAL	SCALE FULL SHEET 2 OF 3

REVISIONS					
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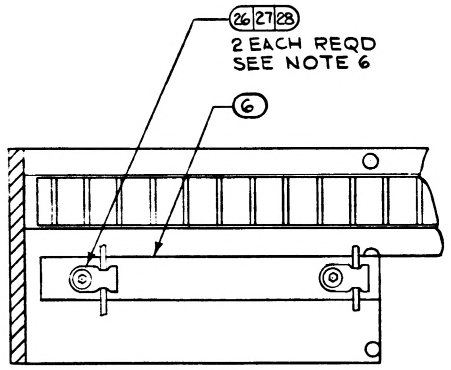
	H	REVISION STATUS CHANGED		22 APR 66	RLP / JH
	J	REVISION STATUS CHANGED		3 MAY 66	EJ
	K	REVISED PER MXC 212385		20 MAY 66	CEF
	L	INITIAL RELEASE CLASS A PER TDRR 29186		20 MAY 66	OKD



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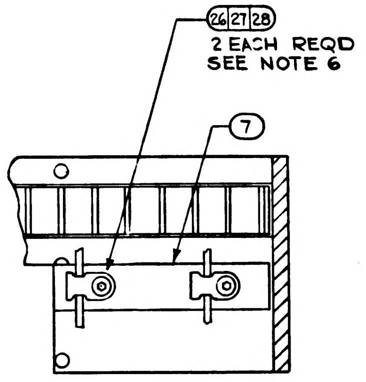
SEE NOTE 6
6

SECTION A-A



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SEE NOTE 6
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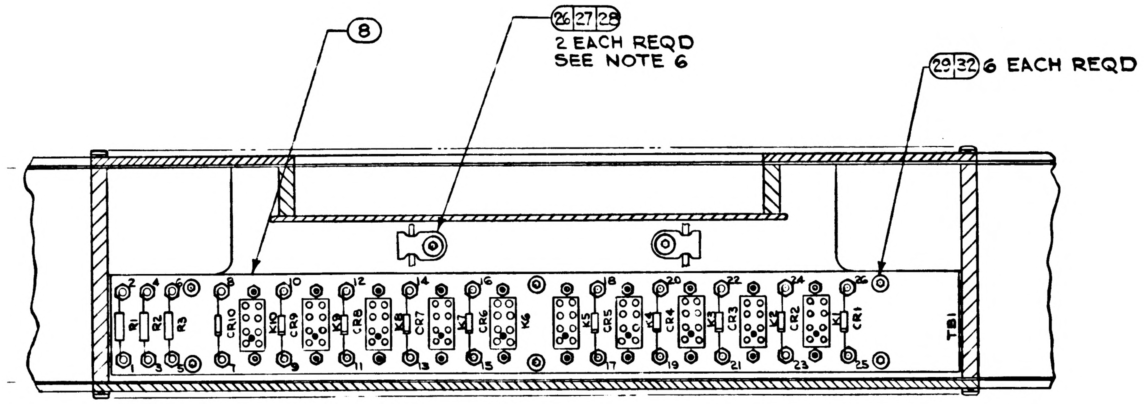
SECTION B-B



8
26 27 28
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SEE NOTE 6
29 32 6 EACH REQD
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R3
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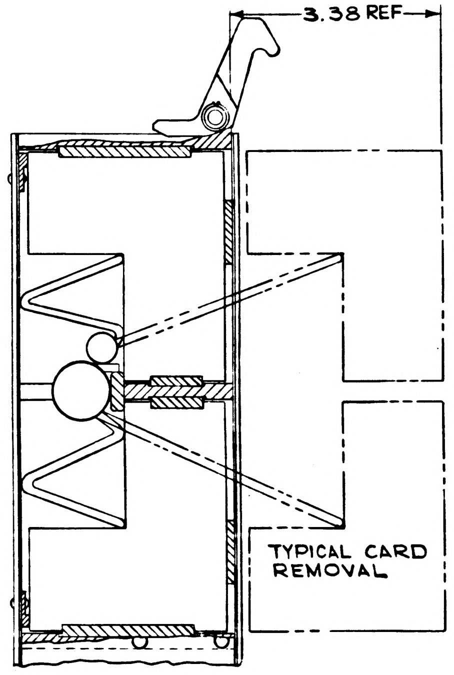
K10
CR9
K9
CR8
K8
CR7
K7
CR6
K6
K5
CR5
K4
CR4
K3
CR3
K2
CR2
K1
CR1
TB1

SECTION C-C



3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

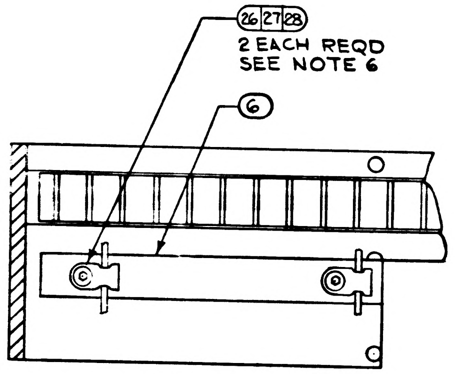
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN M. Grabner DATE FEB 66
CHECKED Ed Foster 4 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL 5/27/66
MIT APPROVAL

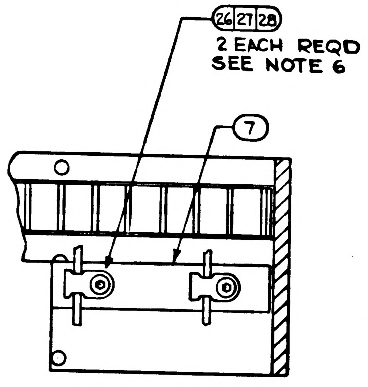
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE(BLK II)

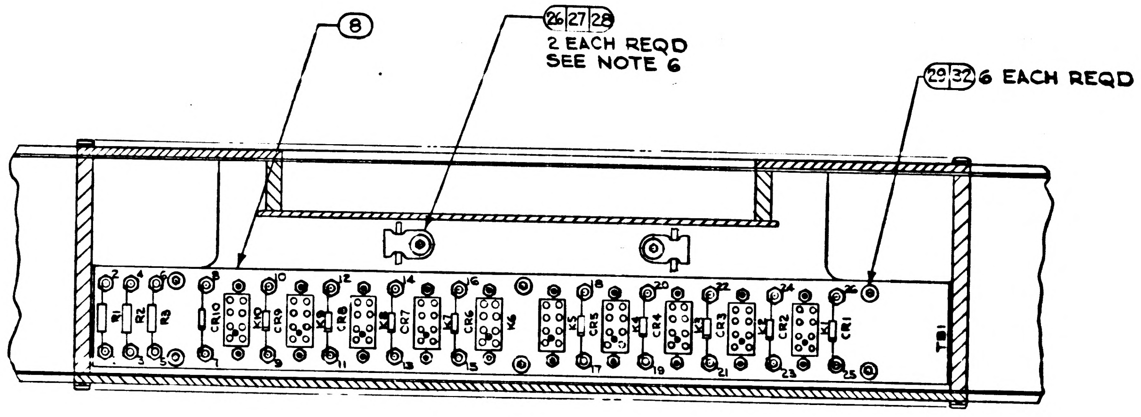
SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 3 OF 3


26 27 28
2 EACH REQD
SEE NOTE 6
6

SECTION A-A


26 27 28
2 EACH REQD
SEE NOTE 6
7

SECTION B-B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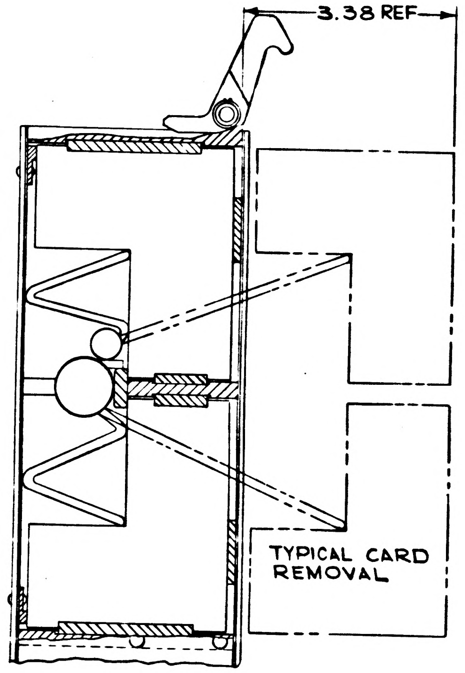
26 27 28
2 EACH REQD
SEE NOTE 6
29 32 6 EACH REQD
R1
R2
R3
CR10
K10
CR9
K9
CR8
K8
CR7
K7
CR6
K6
K5
CR5
K4
CR4
K3
CR3
K2
CR2
K1
CR1
TB1

SECTION C-C


3.38 REF
TYPICAL CARD
REMOVAL

VIEW B-B

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	RP JL
	G	REVISION STATUS CHANGED		20 APR 66	NG EF
	H	REVISION STATUS CHANGED		22 APR 66	RP
	J	REVISION STATUS CHANGED		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	JW CFP
	L	INITIAL RELEASE CLASS A PER TDRR 24186		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		18 JULY 66	J.E.G.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN M. Grabow DATE FEB 66
CHECKED Ed Foster 4 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. MERTZ
NIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 3 OF 3

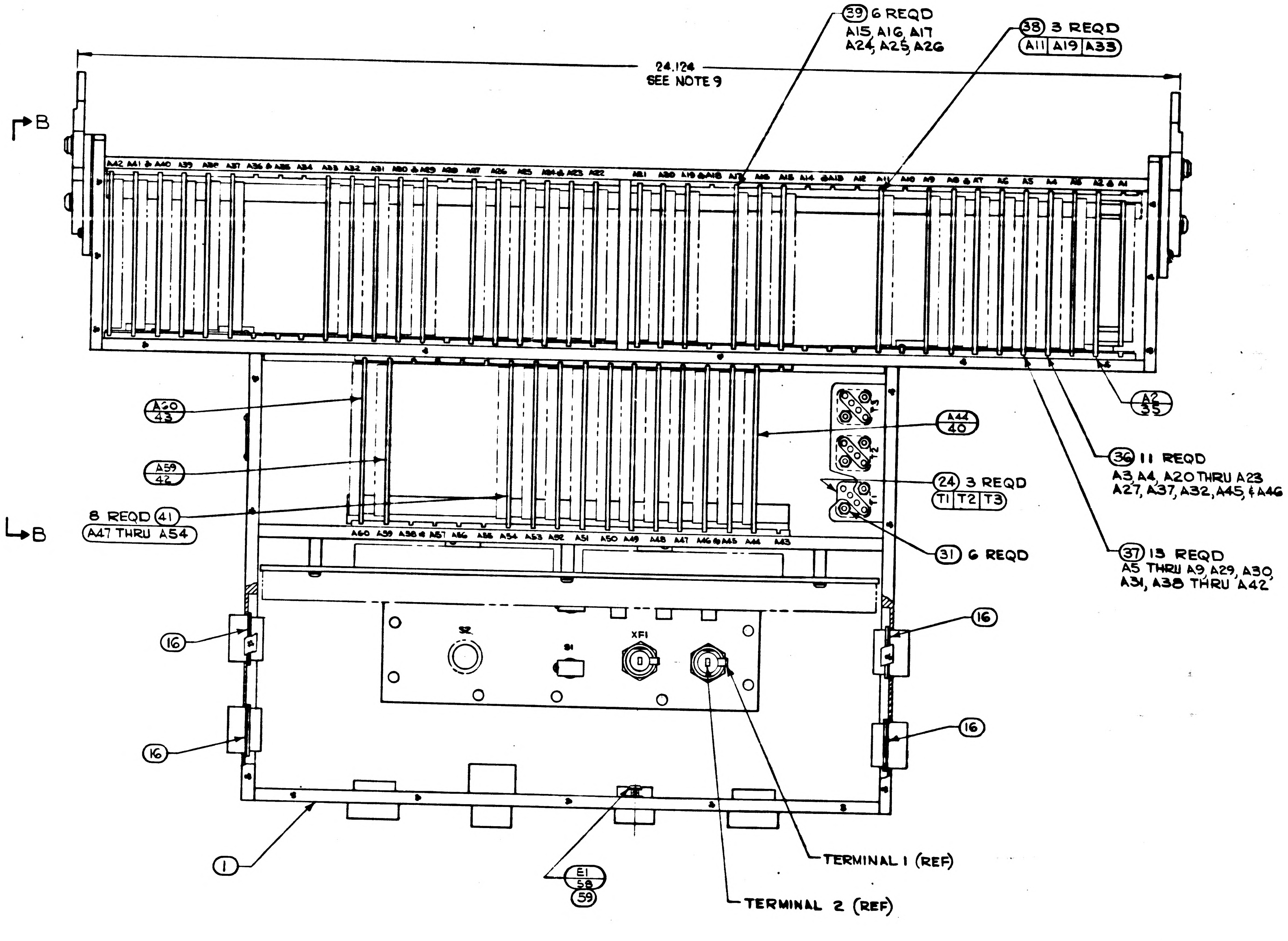
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (44) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM ③ TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM (51)
WIRING HARNESS A	ITEM (48)
CABLE, INTERCONNECT	ITEM (49)
CABLE, INTERCONNECT	ITEM (50)

9. REMOVE SHIMS FROM ⑩ & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	RUP
	G	REVISED PER MXC 211385		20-APR 66	M.G.
	H	REVISED PER MXC 211680		22 APR 66	RUP
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	CP
	L	INITIAL RELEASE CLASS A PER IDRR 29184		20 MAY 66	DKD
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.



VIEW A-A WITH COVER REMOVED

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	X		61	2901518	RUNNING LIST
	1		60	2901539	HOOK MOUNTING RIGHT HAND
	1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3	1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3	2		57	1006783-44	SCREW-BUTTON HD
	2		56	2901474	SHIM, SPRING
	AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
	AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
	AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES 2175-3
	X		52	PS 2901143	PROCUREMENT SPEC
	1		51	2901458	LEAD SET AA
	1		50	2901146	CABLE ASSY, INTERCONNECT
	1		49	2901145	CABLE ASSY, INTERCONNECT
	1		48	2901144	WIRING HARNESS A
	X		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
	AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
	4		45	AN515C2R2	(1896876-252) SCREW
	1		44	1004260-188	NAMEPLATE
	1		43	1902434-011	LINE DRIVE AMPL ASSY
	1		42	2901168-011	ATTENUATOR ASSY
	8		41	2901154-011	GLITCH DETECTOR ASSY
	1		40	2901147-011	PHASE SHIFTER, 90°
	6		39	2901176-021	DEMODULATOR, PHASE SENSITIVE
	3		38	2901203-011	CONVERTER, WAVE FORM
	13		37	2901176-011	DEMODULATOR PHASE SENSITIVE
	11		36	1902433-011	AC AMPLIFIER ASSY
	1		35	2901063-011	PHASE DIFFERENCE ASSY
	4		34	MS171498	PIN-SPRING
	4		33	MS35338-81	WASHER-LOCK
	81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3	38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3	2		30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3	113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3	10		28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3	6		27	1897408-001	RETAINER-CABLE STRAP
	6		26	MS51959-42	SCREW-FL. HD 82°
SEE NOTE 3	7		25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3	3		24	1897413	TRANSFORMER
	2		23	M26572-1	FUSEHOLDER
	2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3	3		21	1016265-006	SWITCH
SEE NOTE 3	2		20	1016265-004	SWITCH
SEE NOTE 3	1		19	1897379-001	SWITCH
	2		18	1900368-006	GASKET, CONNECTOR
	2		17	2901222-001	GASKET, CONNECTOR
	4		16	2901222-002	GASKET, CONNECTOR
	1		15	MS91528-0P1B	(1897080-001) KNOB
	2		14	MS16628-4037	(1896926-007) RING, RETAINING
	1		13	2901437	SPRING, RETAINING L.H.
	1		12	2901348	SPRING, RETAINING R.H.
	2		11	2901347	SUPPORT (INSEP ASSY)
	2		10	2901346	SHIM, SUPPORT
	1		9	2901249	HOOK, MOUNTING LEFT HAND
	1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
	1		7	2901246-002	STOP, BLOCK
	1		6	2901246-001	STOP, BLOCK
	1		5	2901245	STOP, BLOCK
	1		4	2901244	PANEL (INSEP ASSY)
	1		3	2901243	COVER, BOTTOM (INSEP ASSY)
	1		2	2901242	COVER, TOP (INSEP ASSY)
	1		1	2901241	CASE (INSEP ASSY)

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011	1900030	1900070

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN M. Krahmer DATE 17 JAN 66
CHECKED Ed Foster 12 JAN 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZGER 5/27/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E | CODE IDENT NO. 99974 | 2901143

SCALE FULL | SHEET 1 OF 5

NOTES:

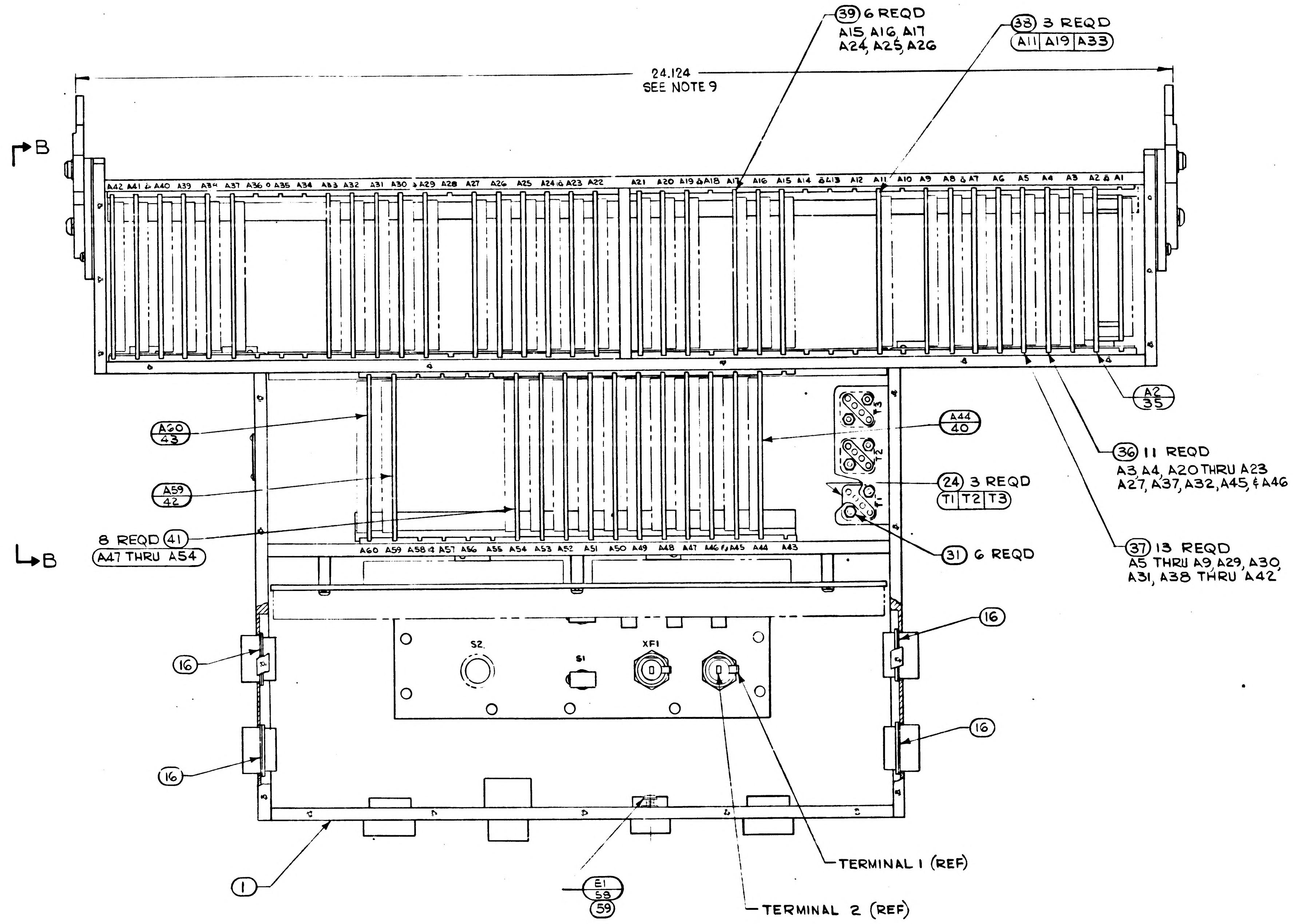
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (44) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM (3) TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM	(51)
WIRING HARNESS A	ITEM	(48)
CABLE, INTERCONNECT	ITEM	(49)
CABLE, INTERCONNECT	ITEM	(50)

9. REMOVE SHIMS FROM (10) & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	
	G	REVISED PER MXC 211385		20 APR 66	MG
	H	REVISED PER MXC 211680		22 APR 66	
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		24 MAY 66	JW CP
	L	INITIAL RELEASE CLASS A PER TDRR 29186		20 MAY 66	DKD
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.
	N	REVISED PER TDRR 30499		66	


24.124
SEE NOTE 9
B
B
39 6 REQD
A15, A16, A17
A24, A25, A26
38 3 REQD
A11 A19 A33
A42 A41 A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
A2
35
A60
43
A59
42
8 REQD 41
A47 THRU A54
A44
40
36 11 REQD
A3, A4, A20 THRU A23
A27, A37, A32, A45, & A46
24 3 REQD
T1 T2 T3
31 6 REQD
37 13 REQD
A5 THRU A9, A29, A30,
A31, A38 THRU A42
A60 A59 A58 A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A45 A44 A43
S2
S1
XF1
16
16
16
16
1
E1
58
59
TERMINAL 1 (REF)
TERMINAL 2 (REF)

VIEW A-A WITH COVER REMOVED

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
				X		61	2901518	RUNNING LIST
				1		60	2901539	HOOK MOUNTING RIGHT HAND
				1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3				1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3				2		57	1006783-44	SCREW-BUTTON HD
				2		56	2901474	SHIM, SPRING
				AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
				AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
				X		52	PS 2901143	PROCUREMENT SPEC
				1		51	2901458	LEAD SET AA
				1		50	2901146	CABLE ASSY, INTERCONNECT
				1		49	2901145	CABLE ASSY, INTERCONNECT
				1		48	2901144	WIRING HARNESS A
				X		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
				AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
				4		45	AN515C2R2	(1896876-252) SCREW
				1		44	1004260-188	NAMEPLATE
				1		43	1902434-011	LINE DRIVE AMPL ASSY
				1		42	2901168-011	ATTENUATOR ASSY
				8		41	2901154-011	GLITCH DETECTOR ASSY
				1		40	2901147-011	PHASE SHIFTER, 90°
				6		39	2901176-021	DEMODULATOR PHASE SENSITIVE
				3		38	2901203-011	CONVERTER WAVE FORM
				13		37	2901176-011	DEMODULATOR PHASE SENSITIVE
				11		36	1902433-011	AC AMPLIFIER ASSY
				1		35	2901063-011	PHASE DIFFERENCE ASSY
				4		34	MS171498	PIN-SPRING
				4		33	MS35338-81	WASHER-LOCK
				81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3				38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3				2		30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3				113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3				10		28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3				6		27	1897408-001	RETAINER-CABLE STRAP
				6		26	MS35200-42	SCREW-FL. HD 82°
SEE NOTE 3				7		25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3				3		24	1897413	TRANSFORMER
				2		23	M26572-1	FUSEHOLDER
				2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3				3		21	1016265-006	SWITCH
SEE NOTE 3				2		20	1016265-004	SWITCH
SEE NOTE 3				1		19	1897379-001	SWITCH
				2		18	1900368-006	GASKET, CONNECTOR
				2		17	2901222-001	GASKET, CONNECTOR
				4		16	2901222-002	GASKET, CONNECTOR
				1		15	MS91528-0P1B	(1897080-001) KNOB
				2		14	MS16628-4037	(1896926-007) RING, RETAINING
				1		13	2901437	SPRING, RETAINING L.H.
				1		12	2901348	SPRING, RETAINING R.H.
				2		11	2901347	SUPPORT (INSEP ASSY)
				2		10	2901346	SHIM, SUPPORT
				1		9	2901249	HOOK, MOUNTING LEFT HAND
				1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
				1		7	2901246-002	STOP, BLOCK
				1		6	2901246-001	STOP, BLOCK
				1		5	2901245	STOP, BLOCK
				1		4	2901244	PANEL (INSEP ASSY)
				1		3	2901243	COVER, BOTTOM (INSEP ASSY)
				1		2	2901242	COVER, TOP (INSEP ASSY)
				1		1	2901241	CASE (INSEP ASSY)

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

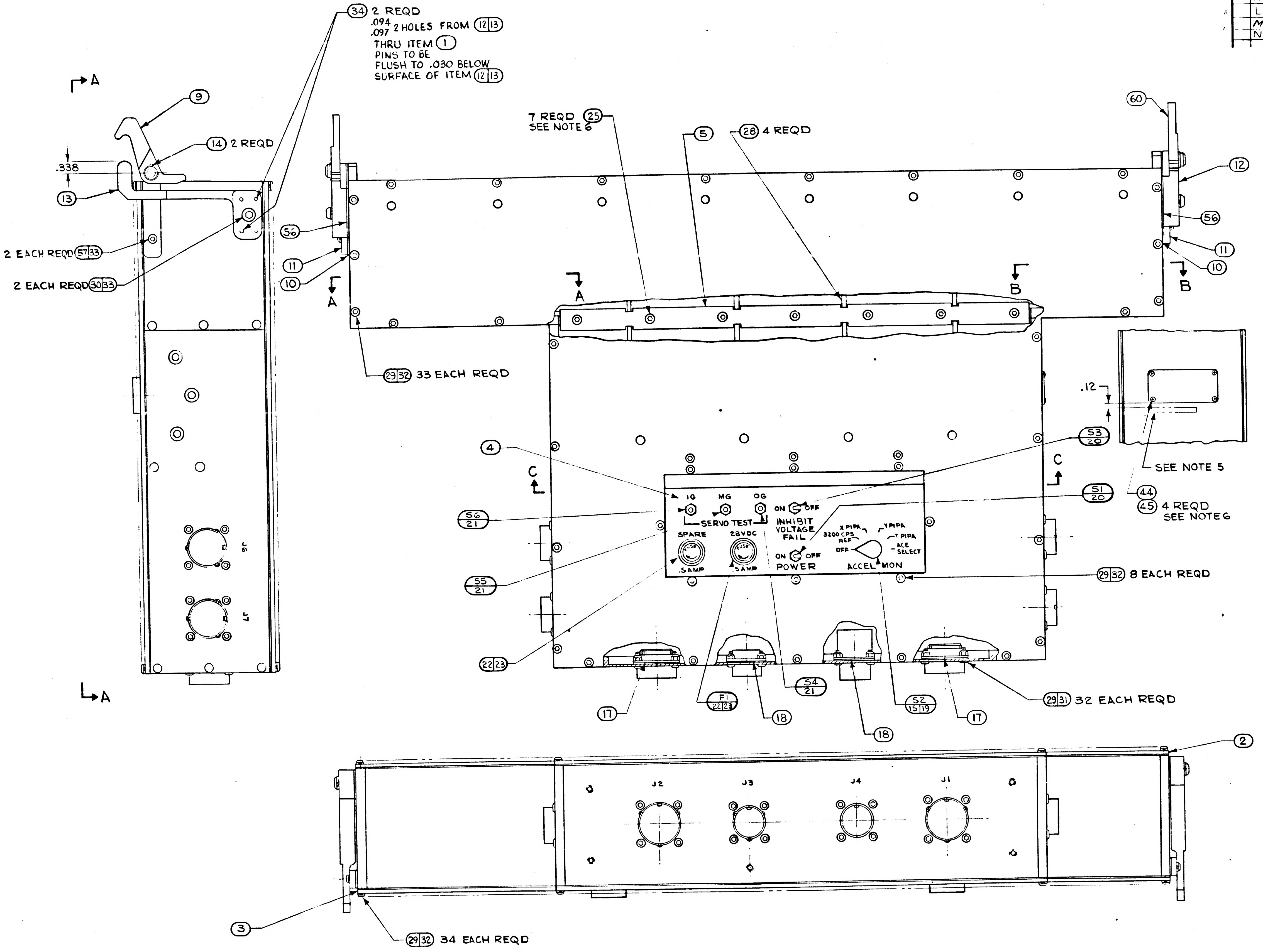
DRAWN DATE
CHECKED Ed Foster
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER MODULE (BLK II)

SIZE E
CODE IDENT NO 99974
2901143
SCALE FULL
SHEET 1 OF 3

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	
	G	REVISION STATUS CHANGED		20 APR 66	M G
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	CP
	L	INITIAL RELEASE CLASS A PER TDRR		20 MAY 66	JKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		10 AUG 66	JB



(34) 2 REQD
.094 .097 2 HOLES FROM (12)(13)
THRU ITEM (1)
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM (12)(13)
A
(9)
(14) 2 REQD
.338
(13)
2 EACH REQD (57)(33)
2 EACH REQD (30)(33)
A
J6
J7
7 REQD (25)
SEE NOTE 6
(5)
(28) 4 REQD
(60)
(12)
(56)
(11)
(10)
(56)
(11)
(10)
A
A
B
B
(29)(32) 33 EACH REQD
.12
SEE NOTE 5
(53)(20)
(51)(20)
(44)
(45) 4 REQD
SEE NOTE 6
(4)
C
C
IG
MG
OG
SERVO TEST
ON OFF
INHIBIT VOLTAGE FAIL
SPARE
28VDC
FUSE
.5AMP
.5AMP
ON OFF
POWER
X PIPA
Y PIPA
3200 CPS REF
Z PIPA
OFF
ACE SELECT
ACCEL MON
(56)(21)
(55)(21)
(22)(23)
(29)(32) 8 EACH REQD
(F1)(22)(23)
(54)(21)
(52)(15)(19)
(17)
(18)
(18)
(17)
(29)(31) 32 EACH REQD
(2)
J2
J3
J4
J1
(3)
(29)(32) 34 EACH REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

DRAWN M Gardner DATE 1-APR 66
CHECKED Ed Foster 4APR66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

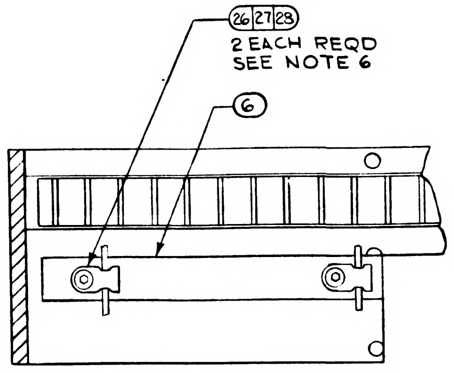
PSA ADAPTER MODULE

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 2 OF 3

SHEET 2 OF 3 E2901143

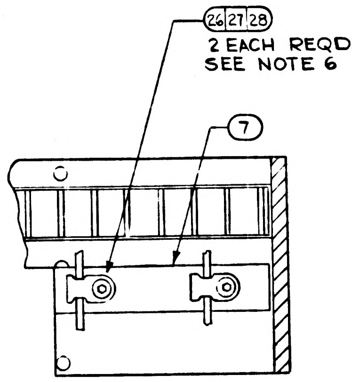
SHEET 3 OF 3
2901143

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	RLP
	G	REVISION STATUS CHANGED		22	M.G.
	H	REVISION STATUS CHANGED		22 APR 66	RLP
	J	REVISION STATUS CHANGED		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	C7P
	L	INITIAL RELEASE CLASS A PER TDRR 25146		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		AUG 66	JB JI



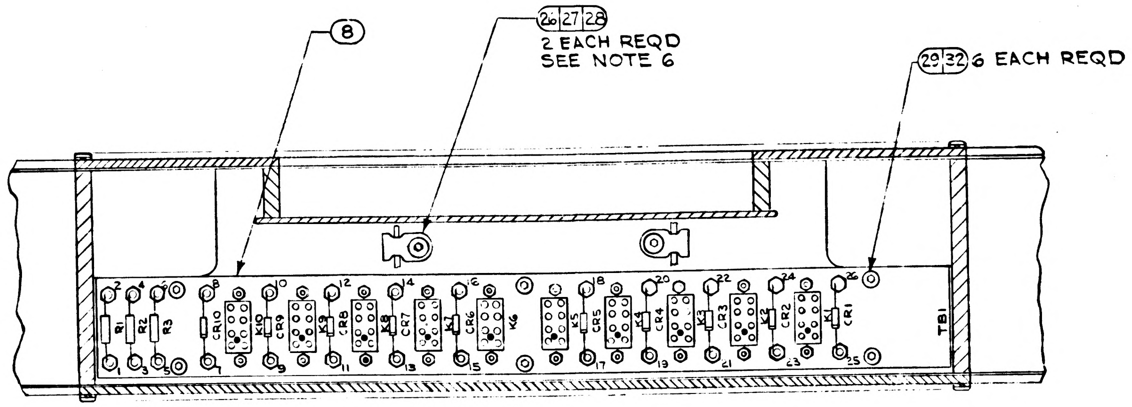
26 27 28
2 EACH REQD
SEE NOTE 6
6

SECTION A-A



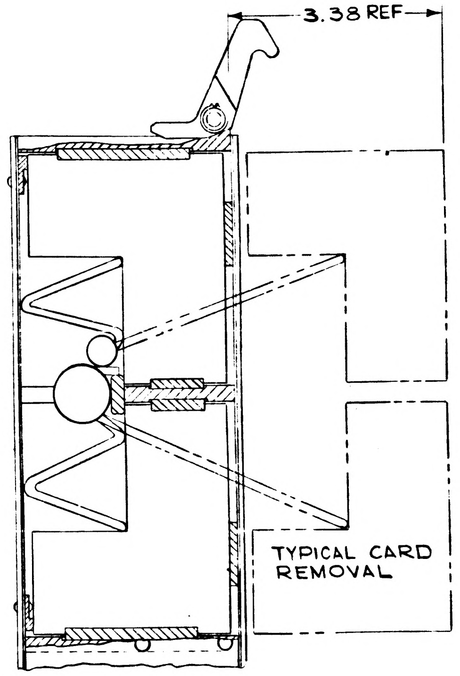
26 27 28
2 EACH REQD
SEE NOTE 6
7

SECTION B-B



8
26 27 28
2 EACH REQD
SEE NOTE 6
29 32 6 EACH REQD
R1
R2
R3
CR10
K10
CR9
K9
CR8
K8
CR7
K7
CR6
K6
K5
CR5
K4
CR4
K3
CR3
K2
CR2
K1
CR1
TB1

SECTION C-C



3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN M Trainer DATE 1 APR 66
CHECKED Ed Foster 1 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE

SIZE E
CODE IDENT NO 99974
2901143
SCALE FULL
SHEET 3 OF 3

2901143
SHEET 3 of 3

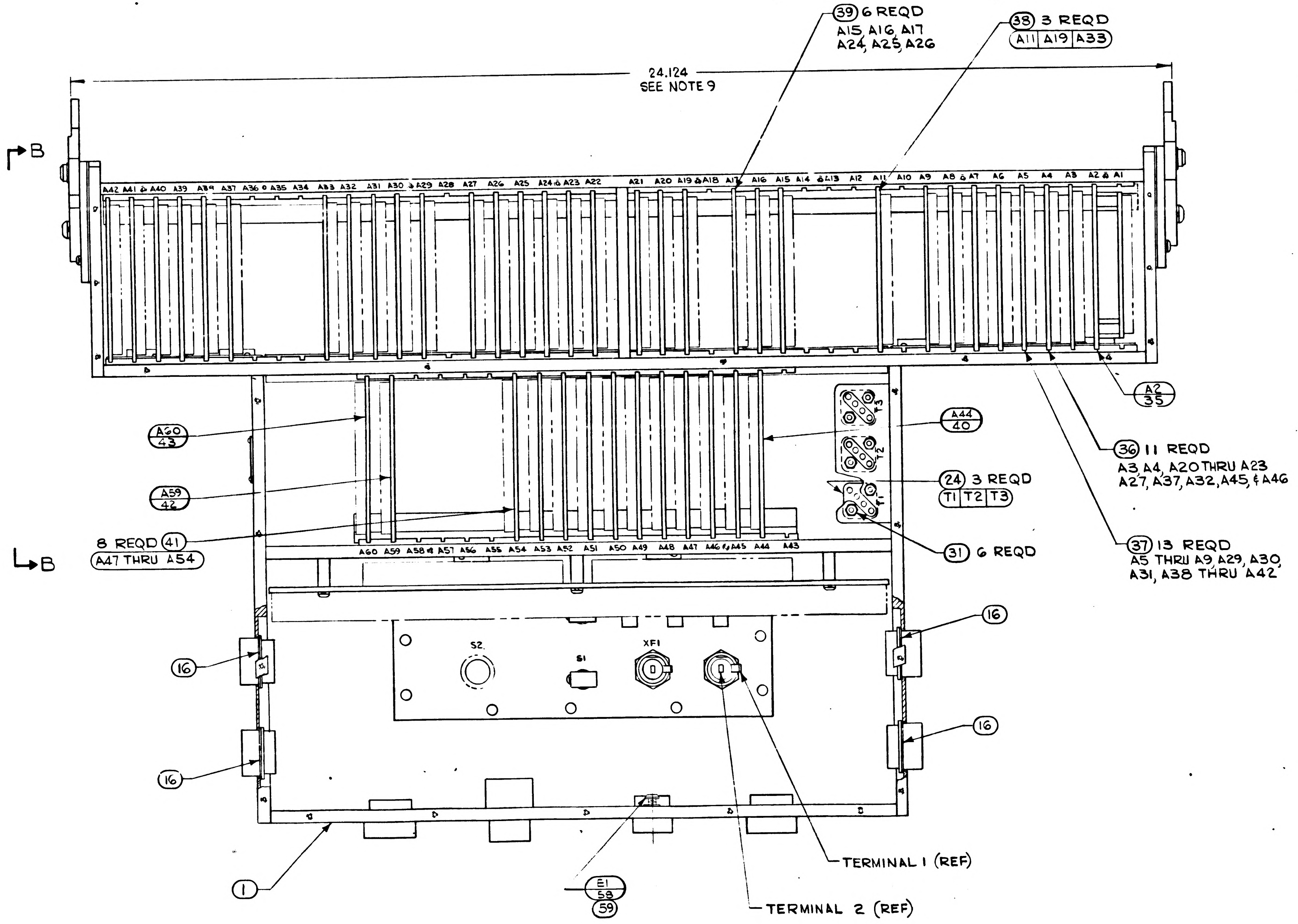
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (44) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM (3) TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM (51)
WIRING HARNESS A	ITEM (48)
CABLE, INTERCONNECT	ITEM (49)
CABLE, INTERCONNECT	ITEM (50)

9. REMOVE SHIMS FROM (10) & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	RP
	G	REVISED PER MXC 211385		20 APR 66	MG
	H	REVISED PER MXC 211680		22 APR 66	RP
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	JW CP
	L	INITIAL RELEASE CLASS A PER TDRR 29186		20 MAY 66	DKD
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.G.
	N	REVISED PER TDRR 30499		10 AUG 66	
	P	REVISED PER TDRR 30623		22 AUG 66	GW



(39) 6 REQD
A15, A16, A17
A24, A25, A26
(38) 3 REQD
A11 A19 A33
24.124
SEE NOTE 9
B
B
A42 A41 A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
A2/35
(36) 11 REQD
A3, A4, A20 THRU A23
A27, A37, A32, A45, & A46
A44/40
A60/43
A59/42
(24) 3 REQD
T1 T2 T3
T3
T2
T1
8 REQD (41)
A47 THRU A54
(31) 6 REQD
(37) 13 REQD
A5 THRU A9, A29, A30,
A31, A38 THRU A42
A60 A59 A58 A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A45 A44 A43
(16)
(16)
(16)
(16)
S2
S1
XF1
TERMINAL 1 (REF)
TERMINAL 2 (REF)
(1)
E1
(58)
(59)

VIEW A-A WITH COVER REMOVED

				1		62	1015831-241	SCREW FL. HD. 100°
				X		61	2901518	RUNNING LIST
				1		60	2901539	HOOK MOUNTING RIGHT HAND
				1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3				1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3				2		57	1006783-44	SCREW-BUTTON HD
				2		56	2901474	SHIM, SPRING
				AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
				AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES 2175-3)
				☒		52	PS 2901143	PROCUREMENT SPEC
				1		51	2901458	LEAD SET AA
				1		50	2901146	CABLE ASSY INTERCONNECT
				1		49	2901145	CABLE ASSY INTERCONNECT
				1		48	2901144	WIRING HARNESS A
				☒		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
				AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
				4		45	AN515C2R2	(1896876-252) SCREW
				1		44	1004260-188	NAMEPLATE
				1		43	1902434-011	LINE DRIVE AMPL ASSY
				1		42	2901168-011	ATTENUATOR ASSY
				8		41	2901154-011	GLITCH DETECTOR ASSY
				1		40	2901147-011	PHASE SHIFTER, 90°
				6		39	2901176-021	DEMODULATOR PHASE SENSITIVE
				3		38	2901203-011	CONVERTER WAVE FORM
				13		37	2901176-011	DEMODULATOR PHASE SENSITIVE
				11		36	1902433-011	AC AMPLIFIER ASSY
				1		35	2901063-011	PHASE DIFFERENCE ASSY
				4		34	MS171498	PIN-SPRING
				4		33	MS35338-81	WASHER-LOCK
				81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3				38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3				2		30	1006733-46	SCREW-BUTTON HD
SEE NOTE 3				113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3				9		28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3				5		27	1897408-001	RETAINER-CABLE STRAP
				5		26	MS35200-42	SCREW-FL. HD 82°
SEE NOTE 3				7		25	1015831-193	SCREW FL HD 100°
SEE NOTE 3				3		24	1897413	TRANSFORMER
				2		23	M26572-1	FUSEHOLDER
				2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3				3		21	1016265-006	SWITCH
SEE NOTE 3				2		20	1016265-004	SWITCH
SEE NOTE 3				1		19	1897379-001	SWITCH
				2		18	1900368-006	GASKET, CONNECTOR
				2		17	2901222-001	GASKET, CONNECTOR
				4		16	2901222-002	GASKET, CONNECTOR
				1		15	MS91528-0P1B	(1897080-001) KNOB
				2		14	MS16628-4037	(1896926-007) RING, RETAINING
				1		13	2901437	SPRING, RETAINING L.H.
				1		12	2901348	SPRING, RETAINING R.H.
				2		11	2901347	SUPPORT (INSEP ASSY)
				2		10	2901346	SHIM, SUPPORT
				1		9	2901249	HOOK, MOUNTING LEFT HAND
				1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
				1		7	2901246-002	STOP, BLOCK
				1		6	2901246-001	STOP, BLOCK
				1		5	2901245	STOP, BLOCK
				1		4	2901244	PANEL (INSEP ASSY)
				1		3	2901243	COVER, BOTTOM (INSEP ASSY)
				1		2	2901242	COVER, TOP (INSEP ASSY)
				1		1	2901241	CASE (INSEP ASSY)
				011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

011	1900...	190...
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

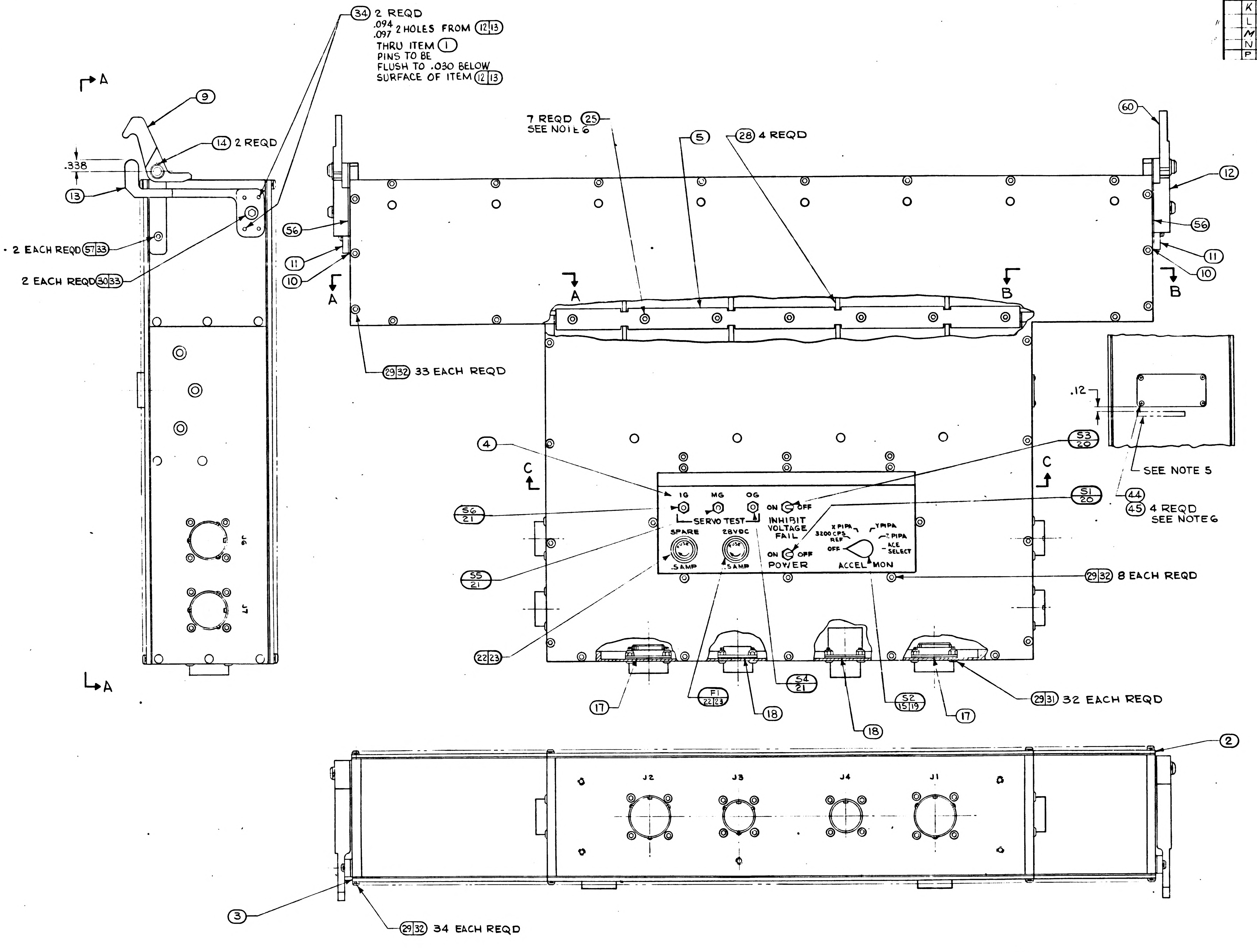
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE
CHECKED Ed Foster
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO 99974
2901143
SCALE FULL
SHEET 1 OF 3

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	
	G	REVISION STATUS CHANGED		APR 66	
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	CP
	L	INITIAL RELEASE CLASS A PER TDRR		20 MAY 66	
	M	REVISION STATUS CHANGED		JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		10 AUG 66	
	P	REVISION STATUS CHANGED		22 AUG 66	GW



34 2 REQD
.094
.097 2 HOLES FROM 12|13
THRU ITEM 1
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM 12|13
A
9
14 2 REQD
.338
13
2 EACH REQD 57|33
2 EACH REQD 30|33
J6
J7
A
7 REQD 25
SEE NOTE 6
5
28 4 REQD
60
12
56
11
10
A
B
B
29|32 33 EACH REQD
.12
SEE NOTE 5
44
45 4 REQD
SEE NOTE 6
4
S3/20
S1/20
S6/21
S5/21
C
C
IG
MG
OG
SERVO TEST
ON OFF
INHIBIT
VOLTAGE
FAIL
SPARE
28VDC
FUSE
.5 AMP
ON OFF
POWER
X PIPA
Y PIPA
Z PIPA
3200 CPS
REF
OFF
ACE
SELECT
ACCEL MON
29|32 8 EACH REQD
22|23
17
F1 22|23
18
S4/21
18
S2 15|19
17
29|31 32 EACH REQD
2
J2
J3
J4
J1
3
29|32 34 EACH REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

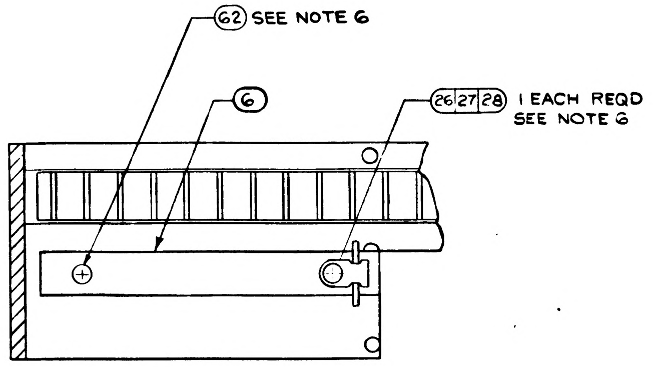
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN M Gardner DATE 1-APR-66
CHECKED Ed Foster 4APR66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE

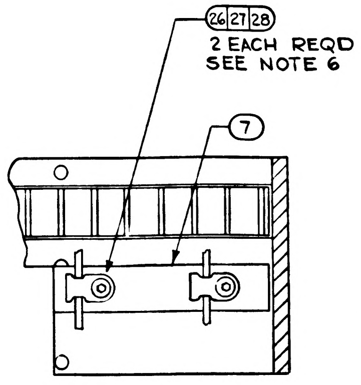
SIZE E
CODE IDENT NO 99974
2901143
SCALE FULL
SHEET 2 OF 3

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	RLP
	G	REVISION STATUS CHANGED		20 APR 66	NG
	H	REVISION STATUS CHANGED		22 APR 66	RLP
	J	REVISION STATUS CHANGED		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	JW C7P
	L	INITIAL RELEASE CLASS A PER TDRR 23186		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		10 AUG 66	JB JI
	P	REVISED PER TDRR 30623		22 AUG 66	GW JI



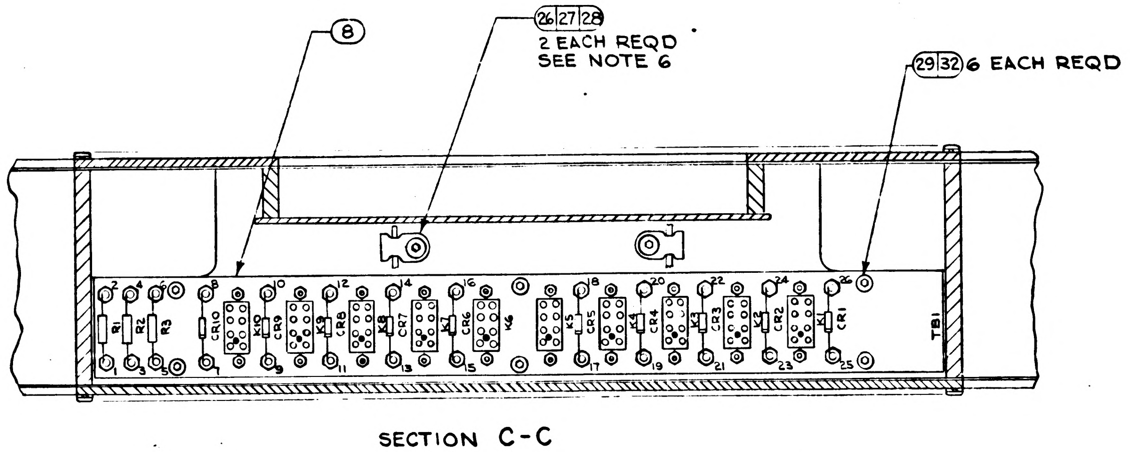
62 SEE NOTE 6
6
26 27 28 1 EACH REQD SEE NOTE 6

SECTION A-A



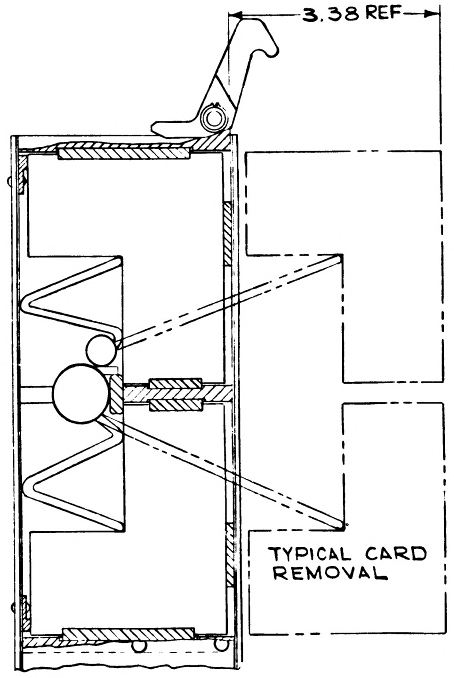
26 27 28 2 EACH REQD SEE NOTE 6
7

SECTION B-B



8
26 27 28 2 EACH REQD SEE NOTE 6
29 32 6 EACH REQD
R1
R2
R3
TB1
CR1

SECTION C-C



3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN M Grabner DATE 1 APR 66
CHECKED Ed Foster 4 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER MODULE

SIZE E
CODE IDENT NO 99974
2901143
SCALE FULL
SHEET 3 OF 3

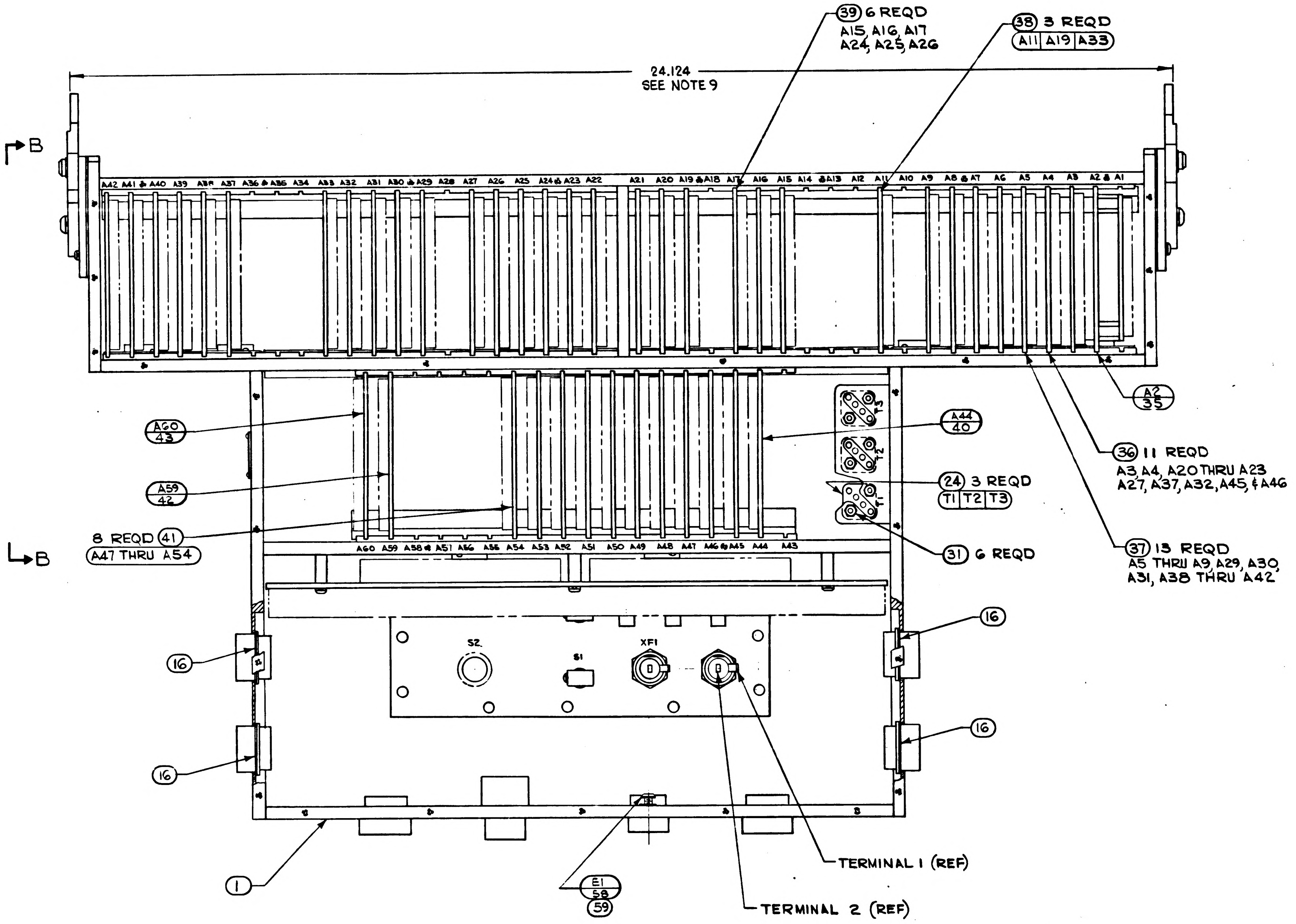
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (42) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM (3) TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM	(51)
WIRING HARNESS A	ITEM	(48)
CABLE, INTERCONNECT	ITEM	(49)
CABLE, INTERCONNECT	ITEM	(50)

9. REMOVE SHIMS FROM (10) & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	
	G	REVISED PER MXC 211385		20-APR 66	MG
	H	REVISED PER MXC 211680		22 APR 66	
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		26 MAY 66	CP
	L	INITIAL RELEASE CLASS A PER TDRR 29476		20 MAY 66	
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.
	N	REVISED PER TDRR 30499		66	
	P	REVISED PER TDRR 30623		22 AUG 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW


(39) 6 REQD
A15, A16, A17
A24, A25, A26
(38) 3 REQD
A11 A19 A33
24.124
SEE NOTE 9
B
B
A42 A41 A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
A2
35
A60
43
A44
40
A59
42
(36) 11 REQD
A3, A4, A20 THRU A23
A27, A37, A32, A45, & A46
(24) 3 REQD
T1 T2 T3
8 REQD (41)
A47 THRU A54
(31) 6 REQD
(37) 13 REQD
A5 THRU A9, A29, A30,
A31, A38 THRU A42
A60 A59 A58 A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A45 A44 A43
(16)
(16)
(16)
(16)
S2
S1
XF1
(1)
E1
58
(59)
TERMINAL 1 (REF)
TERMINAL 2 (REF)

VIEW A-A WITH COVER REMOVED

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
				1		62	1015831-241	SCREW FL. HD. 100°
				X		61	2901518	RUNNING LIST
				1		60	2901539	HOOK MOUNTING RIGHT HAND
				1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3				1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3				2		57	1006783-44	SCREW-BUTTON HD
				2		56	2901474	SHIM, SPRING
				AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
				AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
				☒		52	PS 2901143	PROCUREMENT SPEC
				1		51	2901458	LEAD SET AA
				1		50	2901146	CABLE ASSY, INTERCONNECT
				1		49	2901145	CABLE ASSY, INTERCONNECT
				1		48	2901144	WIRING HARNESS A
				☒		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
				AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
				4		45	AN515C2R2	(1896876-252) SCREW
				1		44	1004260-188	NAMEPLATE
				1		43	1902434-011	LINE DRIVE AMPL ASSY
				1		42	2901168-011	ATTENUATOR ASSY
				8		41	2901154-011	GLITCH DETECTOR ASSY
				1		40	2901147-011	PHASE SHIFTER, 90°
				6		39	2901176-021	DEMODULATOR, PHASE SENSITIVE
				3		38	2901203-011	CONVERTER, WAVE FORM
				13		37	2901176-011	DEMODULATOR, PHASE SENSITIVE
				11		36	1902433-011	AC AMPLIFIER ASSY
				1		35	2901063-011	PHASE DIFFERENCE ASSY
				4		34	MS171498	PIN- SPRING
				4		33	MS35338-81	WASHER-LOCK
				81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3				38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3				2		30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3				113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3				9		28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3				5		27	1897408-001	RETAINER-CABLE STRAP
				5		26	MS35200-42	SCREW-FL. HD 82°
SEE NOTE 3				7		25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3				3		24	1897413	TRANSFORMER
				2		23	M26572-1	FUSEHOLDER
				2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3				3		21	1016265-006	SWITCH
SEE NOTE 3				2		20	1016265-004	SWITCH
SEE NOTE 3				1		19	1897379-001	SWITCH
				2		18	1900368-006	GASKET, CONNECTOR
				2		17	2901222-001	GASKET, CONNECTOR
				4		16	2901222-002	GASKET, CONNECTOR
				1		15	MS91528-0P1B	(1897080-001) KNOB
				2		14	MS16628-4037	(1896926-007) RING, RETAINING
				1		13	2901437	SPRING, RETAINING L.H.
				1		12	2901348	SPRING, RETAINING R.H.
				2		11	2901347	SUPPORT (INSEP ASSY)
				2		10	2901346	SHIM, SUPPORT
				1		9	2901249	HOOK, MOUNTING LEFT HAND
				1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
				1		7	2901246-002	STOP, BLOCK
				1		6	2901246-001	STOP, BLOCK
				1		5	2901245	STOP, BLOCK
				1		4	2901244	PANEL (INSEP ASSY)
				1		3	2901243	COVER, BOTTOM (INSEP ASSY)
				1		2	2901242	COVER, TOP (INSEP ASSY)
				1		1	2901241	CASE (INSEP ASSY)

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011	1900030	1900030

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 17 JAN 66
CHECKED Ed Foster 12 JAN 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZGER 5/27/66
MIT APPROVAL

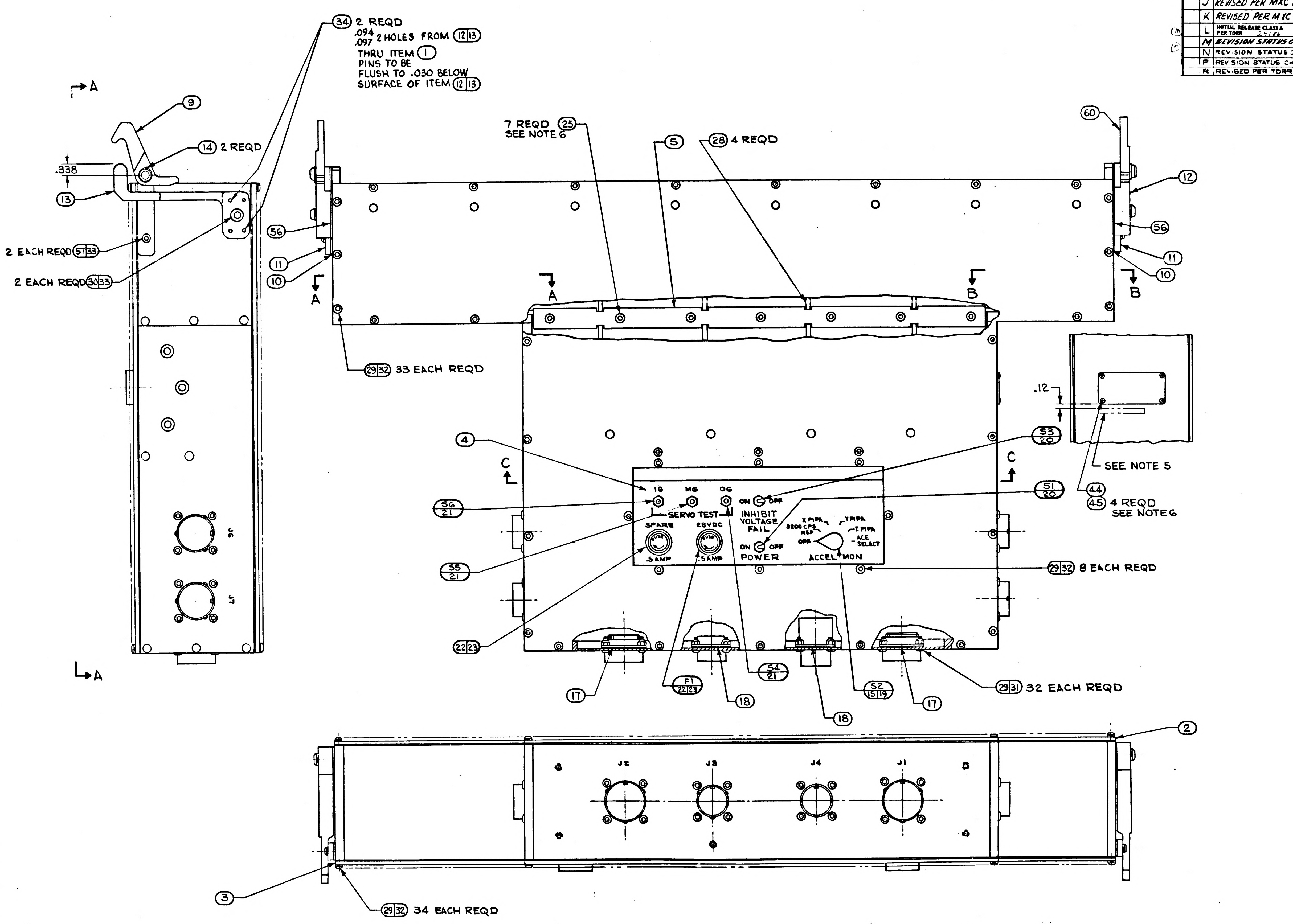
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 1 OF 3

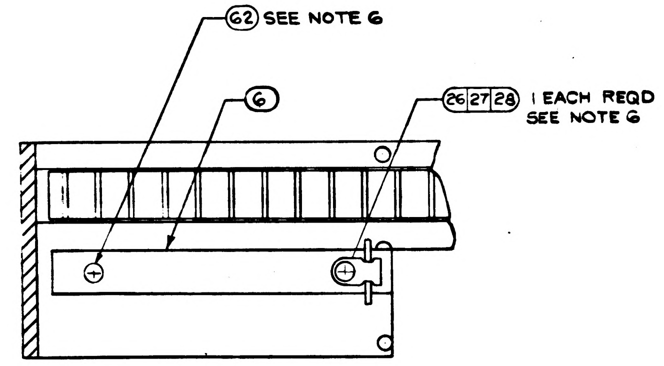
5APE66

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	KL
	G.	REVISION STATUS CHANGED		20-APR 66	H G. E F
	H	REVISION STATUS CHANGED		22 APR 66	R P
	J	REVISED PER MXC 212045		3 MAY 66	AU
	K	REVISED PER MXC 212385		20 MAY 66	C.O
	L	INITIAL RELEASE CLASS A PER TDRR 24186		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		10 AUG 66	JE
	P	REVISION STATUS CHANGED		22 AUG 66	GW
	R	REVISED PER TDRR 30780		25 AUG 66	GW



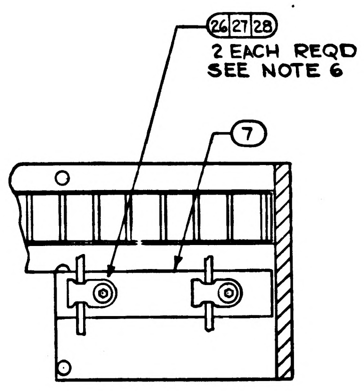
8
7
6
5
4
3
2
1
(34) 2 REQD
.094 .097 2 HOLES FROM (12)(13)
THRU ITEM (1)
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM (12)(13)
A
(9)
(14) 2 REQD
.338
(13)
2 EACH REQD (57)(33)
2 EACH REQD (30)(33)
J6
J7
A
7 REQD (25)
SEE NOTE 6
(5)
(28) 4 REQD
(60)
(12)
(56)
(11)
(10)
A
A
B
B
(29)(32) 33 EACH REQD
.12
SEE NOTE 5
(44)
(45) 4 REQD
SEE NOTE 6
(4)
(S3/20)
(S1/20)
C
C
IG
MG
OG
ON
OFF
INHIBIT
VOLTAGE
FAIL
SERVO TEST
SPARE
28VDC
FUSE
.5AMP
POWER
X PIPA
Y PIPA
Z PIPA
3200 CPS REF
OFF
ACE SELECT
ACCEL MON
(S6/21)
(S5/21)
(29)(32) 8 EACH REQD
(22)(23)
(17)
(F1/22 23)
(18)
(S4/21)
(18)
(S2/15 19)
(17)
(29)(31) 32 EACH REQD
(2)
J2
J3
J4
J1
(3)
(29)(32) 34 EACH REQD

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN M Gardner DATE 1-APR 66 CHECKED Ed Foster 4APR66 APPROVAL CONTRACT NAS 9-497	PSA ADAPTER MODULE (BLK II)
MATERIAL —	NASA APPROVAL	SIZE E · CODE IDENT NO. 99974 · 2901143
APPROVAL	MIT APPROVAL	SCALE FULL · SHEET 2 OF 3



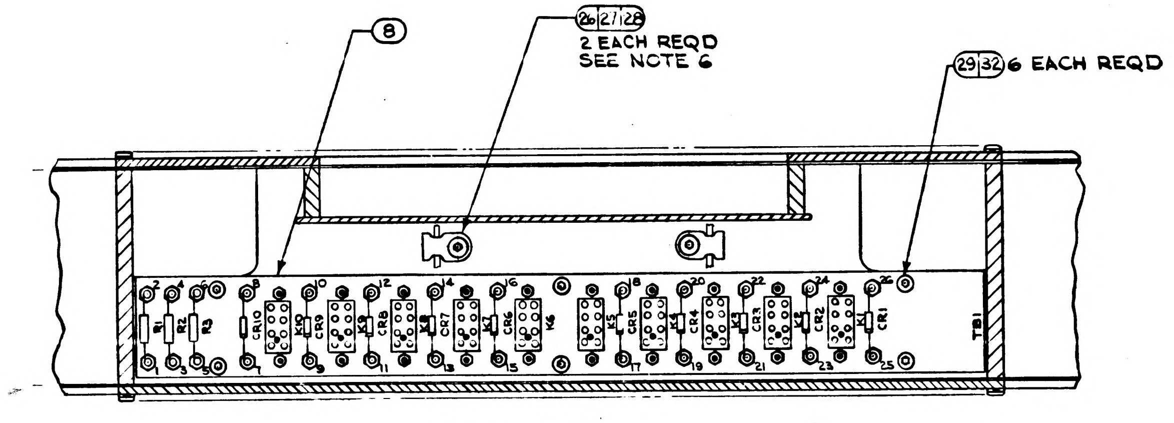
62 SEE NOTE 6
6
26 27 28 1 EACH REQD SEE NOTE 6

SECTION A-A



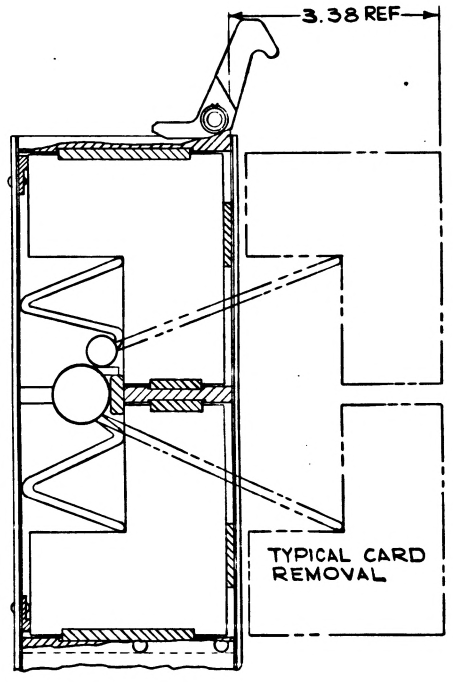
26 27 28 2 EACH REQD SEE NOTE 6
7

SECTION B-B



8
26 27 28 2 EACH REQD SEE NOTE 6
29 32 6 EACH REQD
TB1

SECTION C-C



3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	RP
	G	REVISION STATUS CHANGED		20 APR 66	M.G. EF
	H	REVISION STATUS CHANGED		22 APR 66	[illegible]
	J	REVISION STATUS CHANGED		3 MAY 66	[illegible]
	K	REVISED PER MXC 212385		[illegible] MAY 66	[illegible]
	L	INITIAL RELEASE CLASS A PER TDRR 29186		[illegible] MAY	DKD
	M	REVISION STATUS CHANGED		[illegible] JULY 66	J.E. [illegible]
	N	REVISION STATUS CHANGED		[illegible]	[illegible]
	P	REVISED PER TDRR 30623		22 [illegible] 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN M. Ezalbugu DATE 5 APR 66
CHECKED Ed Foster 4 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 3 OF 3

NOTES:

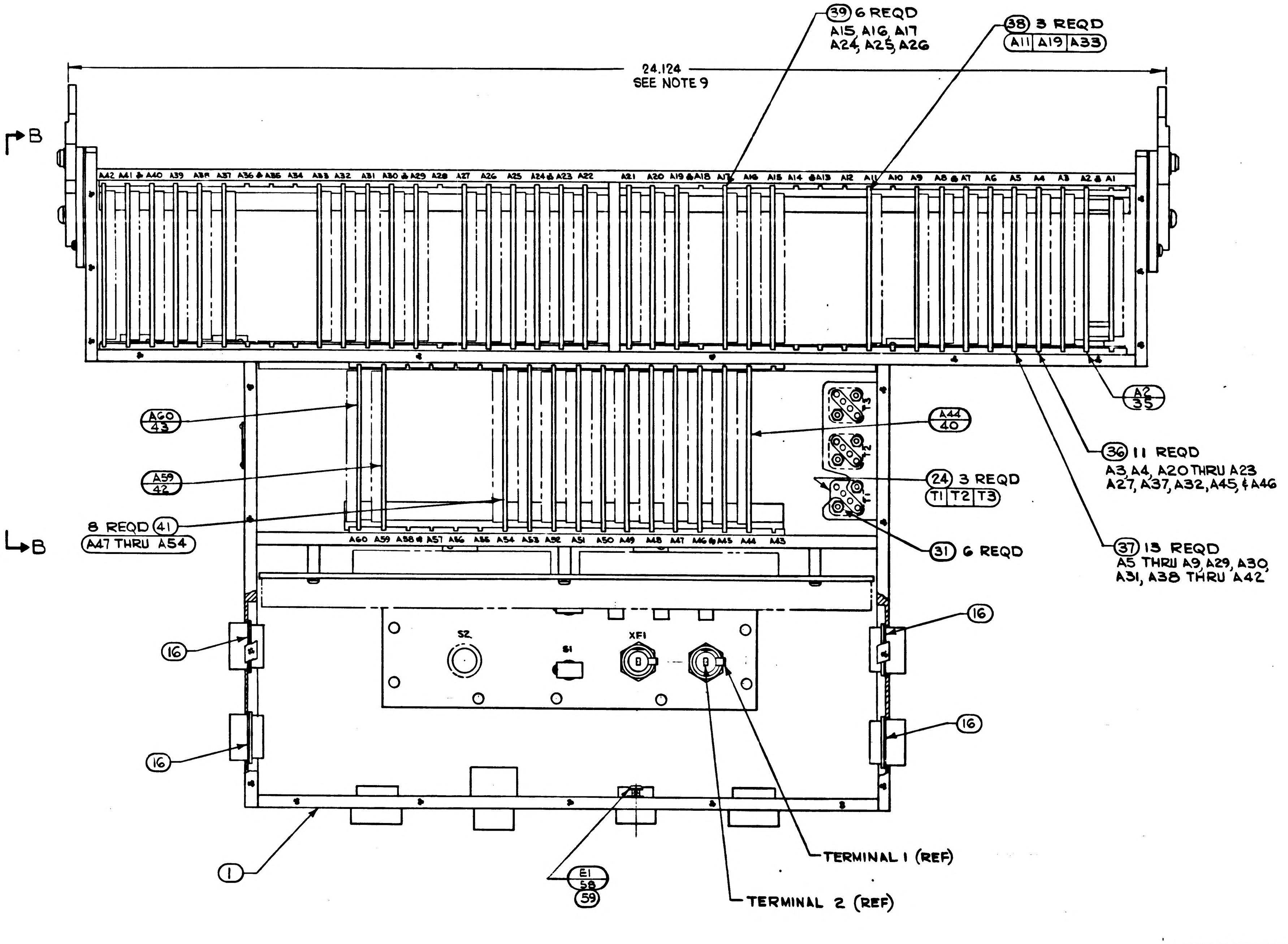
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (44) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM (3) TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM	(51)
WIRING HARNESS A	ITEM	(48)
CABLE, INTERCONNECT	ITEM	(49)
CABLE, INTERCONNECT	ITEM	(50)

9. REMOVE SHIMS FROM (10) & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	RU D
	G	REVISED PER MXC 211385		20-APR 66	M.G.
	H	REVISED PER MXC 211680		22 APR 66	
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		26 MAY 66	CF
	L	INITIAL RELEASE CLASS A PER TDRR [illegible]		20 MAY 66	DKD
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.
	N	REVISED PER TDRR 30499		66	
	P	REVISED PER TDRR 30623		22 AUG 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW
	S	REVISED PER TDRR 34014		67	ES


24.124
SEE NOTE 9
B
B
(39) 6 REQD
A15, A16, A17
A24, A25, A26
(38) 3 REQD
A11 A19 A33
A42 A41 A40 A39 A38 A37 A36 A35 A34 A33 A32 A31 A30 A29 A28 A27 A26 A25 A24 A23 A22 A21 A20 A19 A18 A17 A16 A15 A14 A13 A12 A11 A10 A9 A8 A7 A6 A5 A4 A3 A2 A1
A2
35
A60
43
A59
42
8 REQD (41)
A47 THRU A54
A44
40
(24) 3 REQD
T1 T2 T3
(31) 6 REQD
(36) 11 REQD
A3, A4, A20 THRU A23
A27, A37, A32, A45, & A46
(37) 13 REQD
A5 THRU A9, A29, A30,
A31, A38 THRU A42
A60 A59 A58 A57 A56 A55 A54 A53 A52 A51 A50 A49 A48 A47 A46 A45 A44 A43
(16)
(16)
(16)
(16)
S2
S1
XF1
(1)
E1
58
(59)
TERMINAL 1 (REF)
TERMINAL 2 (REF)

VIEW A-A WITH COVER REMOVED

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			021	011				
			☒	-		67	2901610	RUNNING LIST
			☒	-		66	PS 2016130	PROCUREMENT SPECIFICATION
			1	-		65	2901609	WIRING HARNESS A
			☒	-		64	2901608	SCHEMATIC DIAGRAM, ELECTRICAL
			1	-		63	1004260-560	NAMEPLATE
			☒	1		62	1015831-241	SCREW FL. HD. 100°
			-	X		61	2901518	RUNNING LIST
			1	1		60	2901539	HOOK MOUNTING RIGHT HAND
			1	1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3			1	1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3			2	2		57	1006783-44	SCREW-BUTTON HD
			2	2		56	2901474	SHIM, SPRING
			AR	AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
			AR	AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
			AR	AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3
			-	☒		52	PS 2901143	PROCUREMENT SPEC
			1	1		51	2901458	LEAD SET AA
			1	1		50	2901146	CABLE ASSY, INTERCONNECT
			1	1		49	2901145	CABLE ASSY, INTERCONNECT
			-	1		48	2901144	WIRING HARNESS A
			-	☒		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
			AR	AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
			4	4		45	AN515C2R2	(1896876-252) SCREW
			-	1		44	1004260-188	NAMEPLATE
			1	1		43	1902434-011	LINE DRIVE AMPL ASSY
			1	1		42	2901168-011	ATTENUATOR ASSY
			8	8		41	2901154-011	GLITCH DETECTOR ASSY
			1	1		40	2901147-011	PHASE SHIFTER, 90°
			6	6		39	2901176-021	DEMODULATOR, PHASE SENSITIVE
			3	3		38	2901203-011	CONVERTER, WAVE FORM
			13	13		37	2901176-011	DEMODULATOR, PHASE SENSITIVE
			11	11		36	1902433-011	AC AMPLIFIER ASSY
			1	1		35	2901063-011	PHASE DIFFERENCE ASSY
			4	4		34	MS171498	PIN- SPRING
			4	4		33	MS35338-81	WASHER-LOCK
			81	81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3			38	38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3			2	2		30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3			113	113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3			9	9		28	1897406-005	STRAP - CABLE ADJUSTABLE
SEE NOTE 3			5	5		27	1897408-001	RETAINER-CABLE STRAP
			5	5		26	MS35200-42	SCREW-FL. HD 82°
SEE NOTE 3			7	7		25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3			3	3		24	1897413	TRANSFORMER
			2	2		23	M26572-1	FUSEHOLDER
			2	2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3			3	3		21	1016265-006	SWITCH
SEE NOTE 3			2	2		20	1016265-004	SWITCH
SEE NOTE 3			1	1		19	1897379-001	SWITCH
			2	2		18	1900368-006	GASKET, CONNECTOR
			2	2		17	2901222-001	GASKET, CONNECTOR
			4	4		16	2901222-002	GASKET, CONNECTOR
			1	1		15	MS91528-0P1B	(1897080-001) KNOB
			2	2		14	MS16628-4037	(1896926-007) RING, RETAINING
			1	1		13	2901437	SPRING, RETAINING L.H.
			1	1		12	2901348	SPRING, RETAINING R.H.
			2	2		11	2901347	SUPPORT (INSEP ASSY)
			2	2		10	2901346	SHIM, SUPPORT
			1	1		9	2901249	HOOK, MOUNTING LEFT HAND
			1	1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
			1	1		7	2901246-002	STOP, BLOCK
			1	1		6	2901246-001	STOP, BLOCK
			1	1		5	2901245	STOP, BLOCK
			1	1		4	2901244	PANEL (INSEP ASSY)
			1	1		3	2901243	COVER, BOTTOM (INSEP ASSY)
			1	1		2	2901242	COVER, TOP (INSEP ASSY)
			1	1		1	2901241	CASE (INSEP ASSY)

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011	1900030	1900030

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN M. Krebmer DATE 17 JAN 66
CHECKED Ed Foster 17 JAN 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. Metzger 5/27/66
MIT APPROVAL

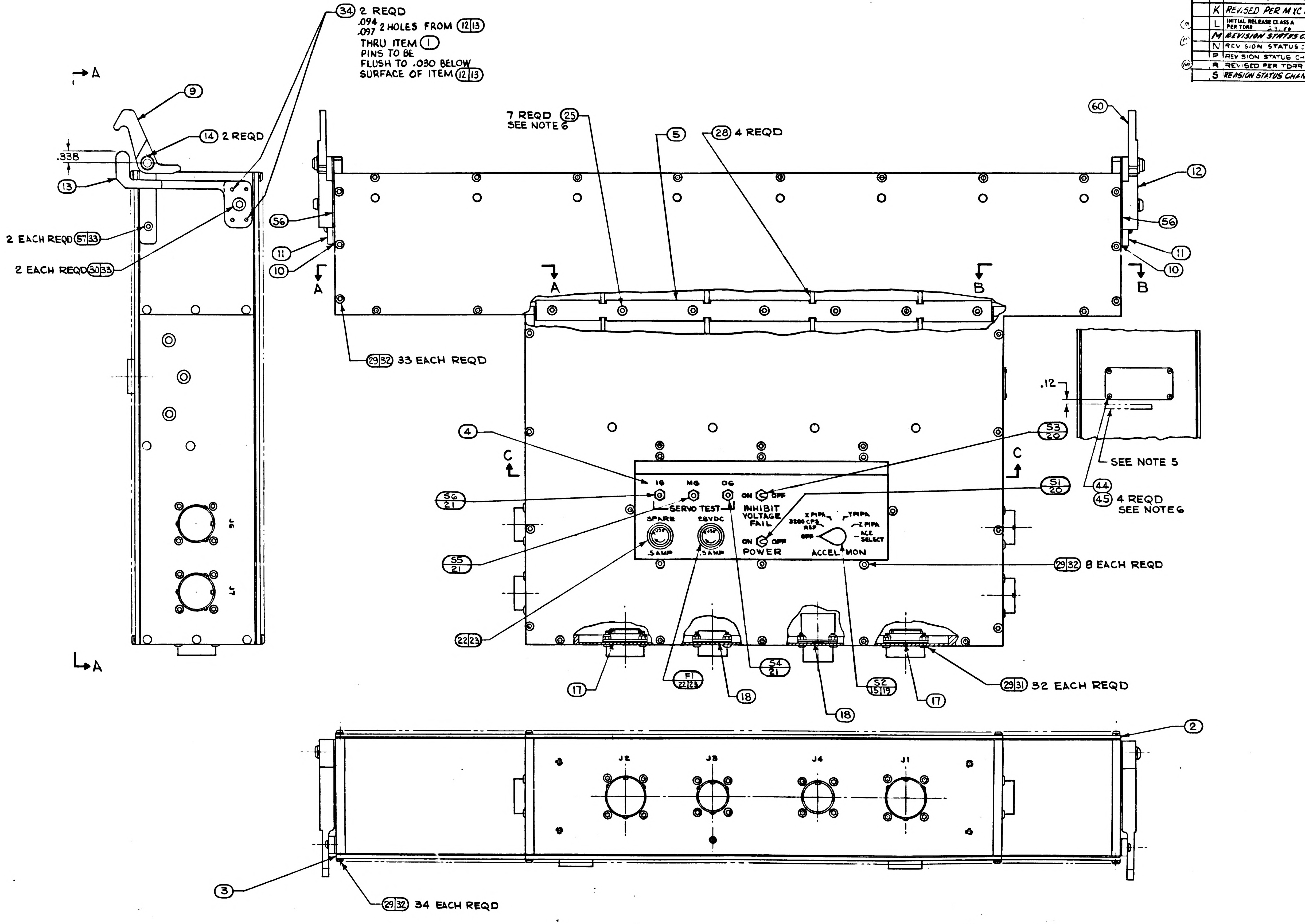
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET OF 3

5APR66

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	
	G	REVISION STATUS CHANGED		20 APR 66	H.G. EF
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	
	L	INITIAL RELEASE CLASS A PER TDRR [illegible]		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		[illegible] AUG 66	
	P	REVISION STATUS CHANGED		22 AUG 66	GW
	R	REVISED PER TDRR 30730		23 AUG 66	GW
	S	REVISION STATUS CHANGED		22 JAN 67	ES



34 2 REQD
.094 / .097 2 HOLES FROM 12 13
THRU ITEM 1
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM 12 13
A
9
14 2 REQD
.338
13
2 EACH REQD 57 33
2 EACH REQD 30 33
J6
J7
A
7 REQD 25
SEE NOTE 6
5
28 4 REQD
60
12
56
11
10
A
A
B
B
29 32 33 EACH REQD
.12
SEE NOTE 5
44
45 4 REQD
SEE NOTE 6
4
S3 / 20
S1 / 20
S6 / 21
S5 / 21
C
C
IG
MG
OG
SERVO TEST
ON OFF
INHIBIT VOLTAGE FAIL
SPARE
28VDC
FUSE
.5AMP
.5AMP
ON OFF
POWER
X PIPA
Y PIPA
3200 CPS REF
Z PIPA
OFF
ACE SELECT
ACCEL MON
29 32 8 EACH REQD
22 23
17
F1 / 22 23
18
S4 / 21
18
S2 / 15 19
17
29 31 32 EACH REQD
2
J2
J3
J4
J1
3
29 32 34 EACH REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

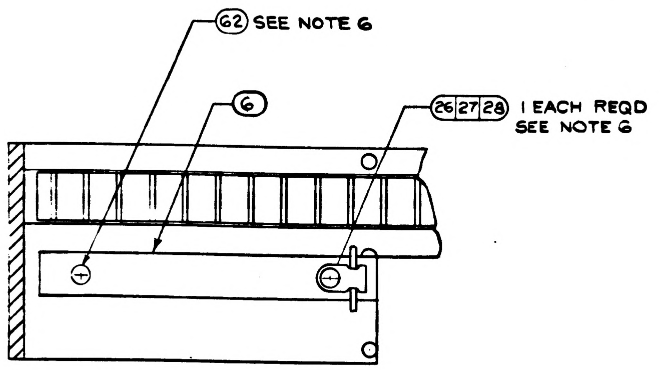
DRAWN Em Gardner DATE 1-APR-66
CHECKED Ed Foster 4APR66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL [illegible] 5/27/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

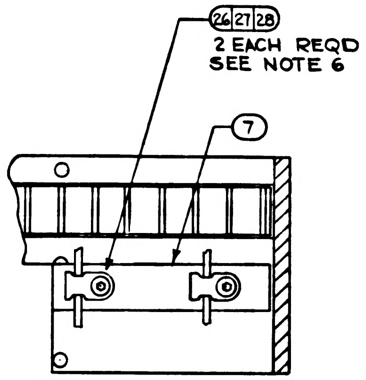
PSA ADAPTER MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 2 OF 3

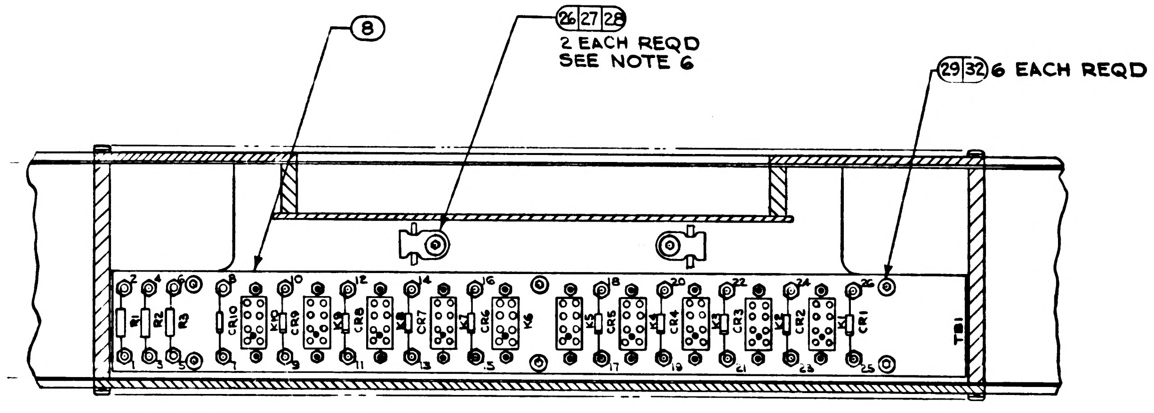
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	RP JH
	G	REVISION STATUS CHANGED		20 APR 66	NG EF
	H	REVISION STATUS CHANGED		22 APR 66	RP JH
	J	REVISION STATUS CHANGED		3 MAY 66	[illegible]
	K	REVISED PER MXC 212385		20 MAY 66	[illegible]
	L	INITIAL RELEASE CLASS A PER TDRR 29186		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.G.
	N	REVISION STATUS CHANGED		[illegible]	[illegible]
	P	REVISED PER TDRR 30623		22 [illegible] 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW
	S	REVISION STATUS CHANGED		2 [illegible] 67	[illegible]


62 SEE NOTE 6
6
26 27 28 1 EACH REQD SEE NOTE 6

SECTION A-A


26 27 28 2 EACH REQD SEE NOTE 6
7

SECTION B-B


8
26 27 28 2 EACH REQD SEE NOTE 6
29 32 6 EACH REQD
R1
R2
R3
CR10
K10
CR9
K9
CR8
K8
CR7
K7
CR6
K6
K5
CR5
K4
CR4
K3
CR3
K2
CR2
K1
CR1
TB1
1
2
3
4
5
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7
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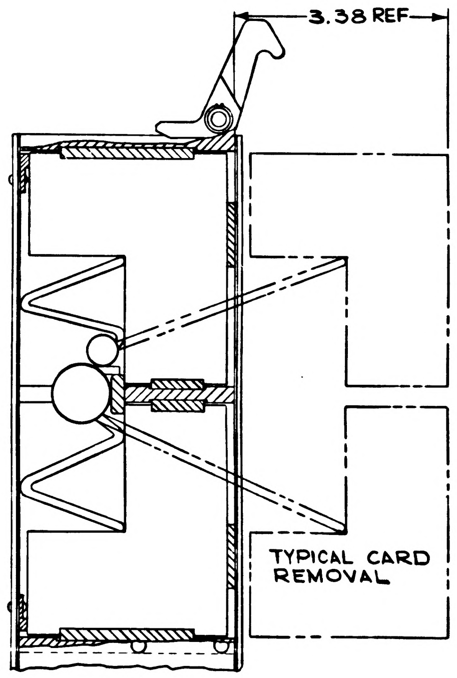
SECTION C-C


3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN M Grabner DATE [illegible]
CHECKED Ed Foster 4 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 3 OF 3

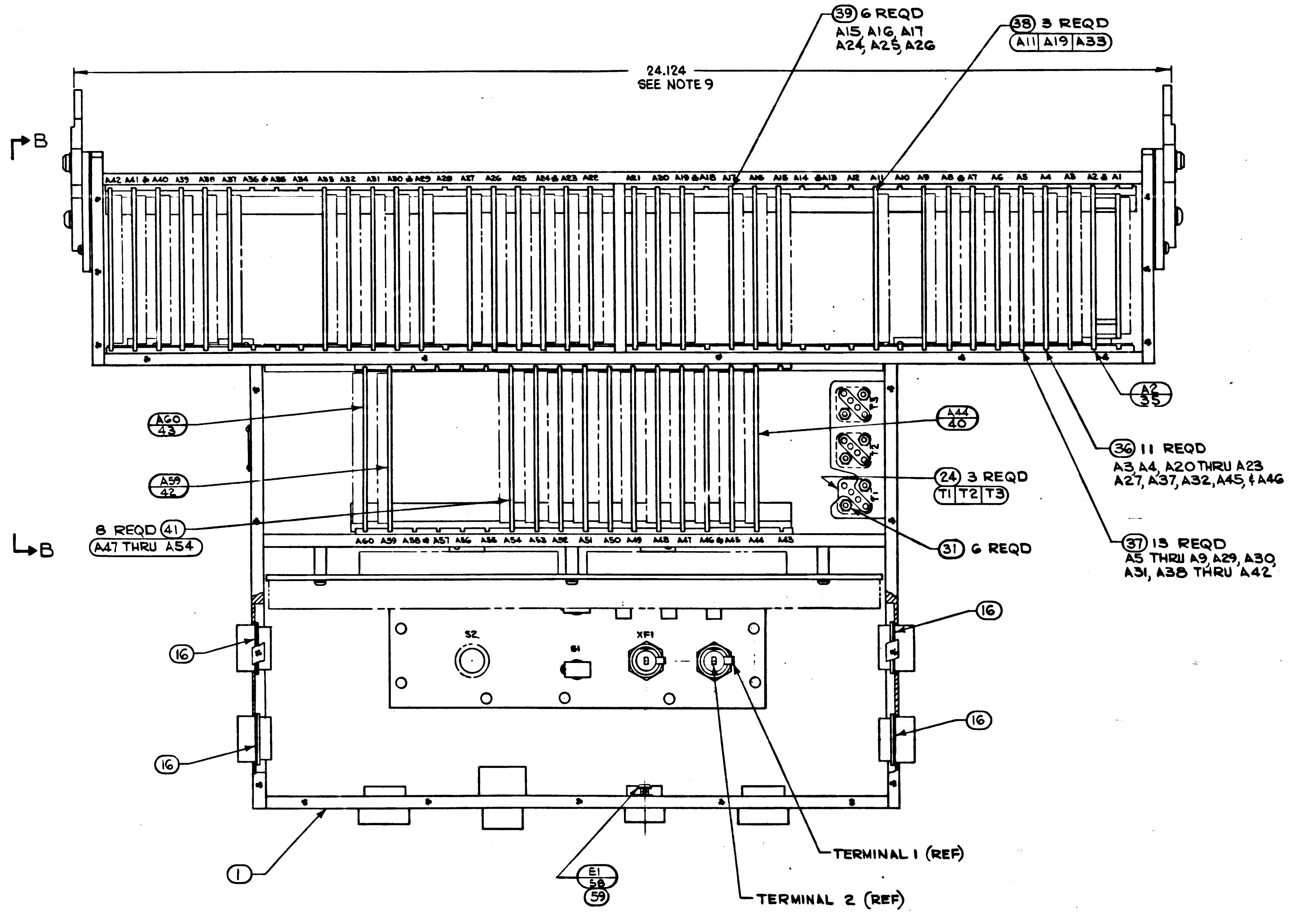
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM (53), OR ITEMS (54) AND (55).
3. VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4. MARK APPLICABLE CONTRACT NUMBER AND SERIAL NUMBER ON ITEM (44) OR (63) IN ACCORDANCE WITH ND1002023. LETTERS AND NUMERALS TO BE .06 HIGH.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .12 HIGH, COLOR BLACK.
6. SECURE ITEMS (25), (26) & (45) USING ITEM (46).
7. ITEM (3) TO BE REMOVED FOR CALIBRATION.
8. THE FOLLOWING ARE PART OF THIS ASSEMBLY:

LEAD SET A-A	ITEM	(51)
WIRING HARNESS A	ITEM	(48) OR ITEM (65)
CABLE, INTERCONNECT	ITEM	(49)
CABLE, INTERCONNECT	ITEM	(50)

9. REMOVE SHIMS FROM (10) & (56) AS REQUIRED TO OBTAIN DIMENSION SHOWN.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	REPLACES REV (E) WITH CHANGE PER MXC 211139 WAS "C" SIZE		18 APR 66	RCD
	G	REVISED PER MXC 211385		20-APR 66	MG
	H	REVISED PER MXC 211680		22 APR 66	RCD
	J	REVISION STATUS CHANGED		3 MAY 66	[illegible]
	K	REVISED PER MXC 212385		[illegible] 66	C.P.
	L	INITIAL RELEASE CLASS A PER TDRR 24576		20 MAY 66	DKD
	M	REVISED PER TDRR 30102		14 JULY 66	J.E.
	N	REVISED PER TDRR 30499		[illegible] AUG 66	MB
	P	REVISED PER TDRR 30623		22 AUG 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW
	S	REVISED PER TDRR 34014		[illegible] 67	ES
	T	REVISED PER TDRR 34667		[illegible] 67	[illegible]



VIEW A-A WITH COVER REMOVED

			021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			☒	-		67	2901610	RUNNING LIST
			☒	-		66	PS 2016130	PROCUREMENT SPECIFICATION
			1	-		65	2901609	WIRING HARNESS A
			☒	-		64	2901608	SCHEMATIC DIAGRAM, ELECTRICAL
			1	-		63	1004260-560	NAMEPLATE
			1	1		62	1015831-241	SCREW FL. HD. 100°
			-	X		61	2901518	RUNNING LIST
			1	1		60	2901539	HOOK MOUNTING RIGHT HAND
			1	1		59	MS35333-72	WASHER, LOCK
SEE NOTE 3			1	1		58	1006783-26	SCREW-BUTTON HD
SEE NOTE 3			2	2		57	1006783-44	SCREW-BUTTON HD
			2	2		56	2901474	SHIM, SPRING
			AR	AR		55	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
			AR	AR		54	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
			AR	AR		53	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3
			-	☒		52	PS 2901143	PROCUREMENT SPEC
			1	1		51	2901458	LEAD SET AA
			1	1		50	2901146	CABLE ASSY, INTERCONNECT
			1	1		49	2901145	CABLE ASSY, INTERCONNECT
			-	1		48	2901144	WIRING HARNESS A
			-	☒		47	2901419	SCHEMATIC DIAGRAM, ELECTRICAL
			AR	AR		46	MIL-S-22473 GRADE H	SEALING & RETAINING COMPOUND (ES2544-5
			4	4		45	AN515C2R2	(1896876-252) SCREW
			-	1		44	1004260-188	NAMEPLATE
			1	1		43	1902434-011	LINE DRIVE AMPL ASSY
			1	1		42	2901168-011	ATTENUATOR ASSY
			8	8		41	2901154-011	GLITCH DETECTOR ASSY
			1	1		40	2901147-011	PHASE SHIFTER, 90°
			6	6		39	2901176-021	DEMODULATOR, PHASE SENSITIVE
			3	3		38	2901203-011	CONVERTER WAVE FORM
			13	13		37	2901176-011	DEMODULATOR, PHASE SENSITIVE
			11	11		36	1902433-011	AC AMPLIFIER ASSY
			1	1		35	2901063-011	PHASE DIFFERENCE ASSY
			4	4		34	MS171498	PIN-SPRING
			4	4		33	MS35338-81	WASHER-LOCK
			81	81		32	MS35338-78	WASHER-LOCK
SEE NOTE 3			38	38		31	1016151-004	NUT, SELF LOCKING
SEE NOTE 3			2	2		30	1006783-46	SCREW-BUTTON HD
SEE NOTE 3			113	113		29	1006783-19	SCREW-BUTTON HD
SEE NOTE 3			9	9		28	1897406-005	STRAP-CABLE ADJUSTABLE
SEE NOTE 3			5	5		27	1897408-001	RETAINER-CABLE STRAP
			5	5		26	MS35200-42	SCREW-FL. HD 82°
SEE NOTE 3			7	7		25	1015831-193	SCREW FL. HD 100°
SEE NOTE 3			3	3		24	1897413	TRANSFORMER
			2	2		23	M26572-1	FUSEHOLDER
			2	2		22	F02B250V1/2A	(1897099-025) FUSE MIL-F-15160/02
SEE NOTE 3			3	3		21	1016265-006	SWITCH
SEE NOTE 3			2	2		20	1016265-004	SWITCH
SEE NOTE 3			1	1		19	1897379-001	SWITCH
			2	2		18	1900363-006	GASKET, CONNECTOR
			2	2		17	2901222-001	GASKET, CONNECTOR
			4	4		16	2901222-002	GASKET, CONNECTOR
			1	1		15	MS91528-0P1B	(1897080-001) KNOB
			2	2		14	MS16628-4037	(1896926-007) RING, RETAINING
			1	1		13	2901437	SPRING, RETAINING L.H.
			1	1		12	2901348	SPRING, RETAINING R.H.
			2	2		11	2901347	SUPPORT (INSEP ASSY)
			2	2		10	2901346	SHIM, SUPPORT
			1	1		9	2901249	HOOK, MOUNTING LEFT HAND
			1	1		8	2901247-011	ELECTRONIC COMPONENTS ASSY
			1	1		7	2901246-002	STOP, BLOCK
			1	1		6	2901246-001	STOP, BLOCK
			1	1		5	2901245	STOP, BLOCK
			1	1		4	2901244	PANEL (INSEP ASSY)
			1	1		3	2901243	COVER, BOTTOM (INSEP ASSY)
			1	1		2	2901242	COVER, TOP (INSEP ASSY)
			1	1		1	2901241	CASE (INSEP ASSY)
	QUANTITY REQUIRED						LIST OF PARTS AND MATERIALS	

APPLICABLE DASH NO.	NEXT ASSY	USED ON
021	1900030	1900030
011	1900030	1900030
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

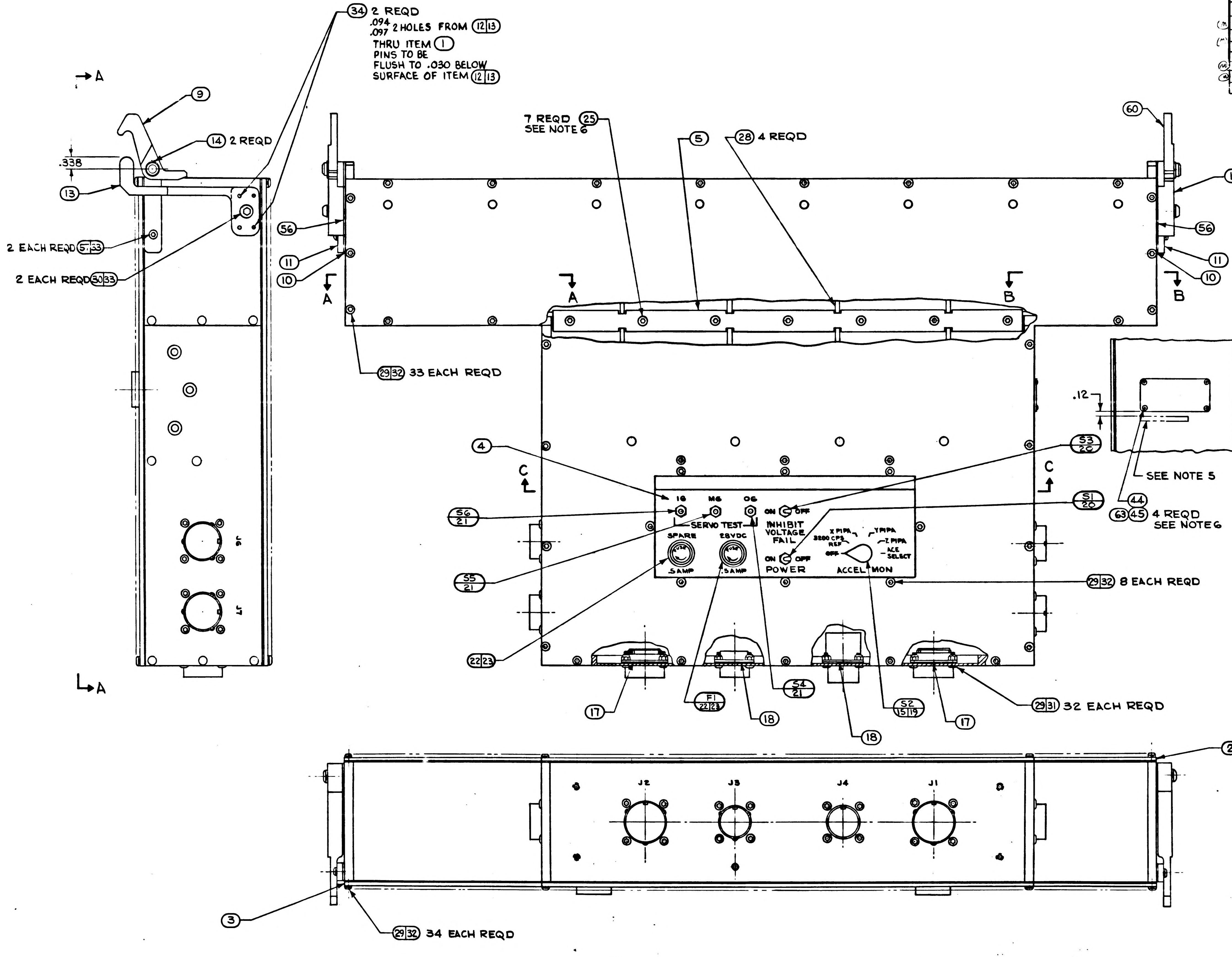
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN M. Kramer DATE 17 JAN 66
CHECKED Ed Foster 19 JAN 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZGER
Jan 31, '66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

SIZE E
CODE IDENT NO. 99974
2901143
SCALE FULL
SHEET 1 OF 3

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	
	G	REVISION STATUS CHANGED		20-APR 66	W.B.
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISED PER MXC 212045		3 MAY 66	
	K	REVISED PER MXC 212385		20 MAY 66	
	L	INITIAL RELEASE CLASS A PER TDRR 25176		20 MAY 66	DKD
	M	REVISION STATUS CHANGED		14 JULY 66	J.E.
	N	REVISION STATUS CHANGED		[illegible] 66	
	P	REVISION STATUS CHANGED		22 AUG 66	
	R	REVISED PER TDRR 30780		25 AUG 66	
	S	REVISION STATUS CHANGED		22 JUN 67	ES
	T	REVISED PER TDRR 34667		28 SEP	



34 2 REQD
.094/.097 2 HOLES FROM 12 13
THRU ITEM 1
PINS TO BE
FLUSH TO .030 BELOW
SURFACE OF ITEM 12 13
A
9
14 2 REQD
.338
13
2 EACH REQD 5 33
2 EACH REQD 30 33
A
7 REQD 25
SEE NOTE 6
5
28 4 REQD
60
12
56
11
10
A
A
B
B
29 32 33 EACH REQD
.12
SEE NOTE 5
44
63 45 4 REQD
SEE NOTE 6
4
53/20
51/20
C
C
56/21
55/21
IG
MG
OG
SERVO TEST
ON OFF
INHIBIT
VOLTAGE
FAIL
SPARE
28VDC
FUSE
.5AMP
.5AMP
X PIPA
Y PIPA
Z PIPA
3200 CPS REF
OFF
ACE SELECT
ON OFF
POWER
ACCEL MON
29 32 8 EACH REQD
J6
J7
22 23
F1 22 23
54/21
52 15 19
17
18
18
17
29 31 32 EACH REQD
2
J2
J3
J4
J1
3
29 32 34 EACH REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL ——

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN M Gardner DATE 1-APR 66
CHECKED Ed Foster 4APR66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER 5/27/66
MIT APPROVAL

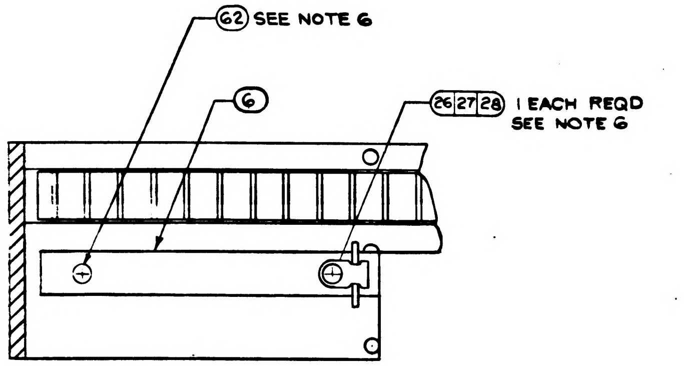
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PSA ADAPTER
MODULE (BLK II)

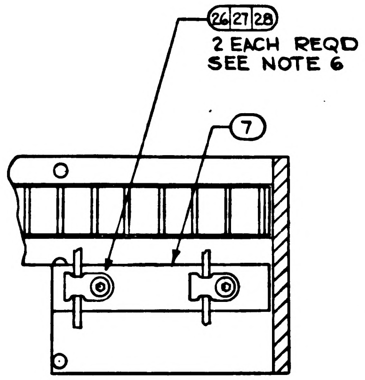
SIZE	CODE IDENT NO.	
E	99974	2901143

SCALE FULL SHEET 2 OF 3

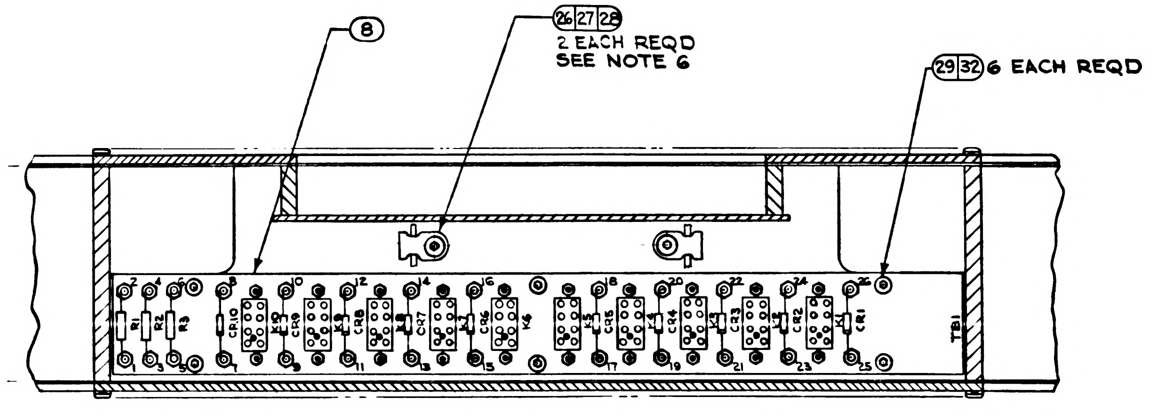
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	F	THIS SHEET ADDED PER MXC 211139		18 APR 66	
	G	REVISION STATUS CHANGED		20 APR 66	
	H	REVISION STATUS CHANGED		22 APR 66	
	J	REVISION STATUS CHANGED		3 MAY 66	
	K	REVISED PER MXC 212385		MAY 66	
	L	INITIAL RELEASE CLASS A PER TDRR 29186		MAY 66	DRC
	M	REVISION STATUS CHANGED		14 JULY 66	
	N	REVISION STATUS CHANGED		66	
	P	REVISED PER TDRR 30623		22 66	GW
	R	REVISION STATUS CHANGED		25 AUG 66	GW
	S	REVISION STATUS CHANGED		67	
	T	REVISION STATUS CHANGED		SEP 67	


62 SEE NOTE 6
6
26 27 28 1 EACH REQD SEE NOTE 6

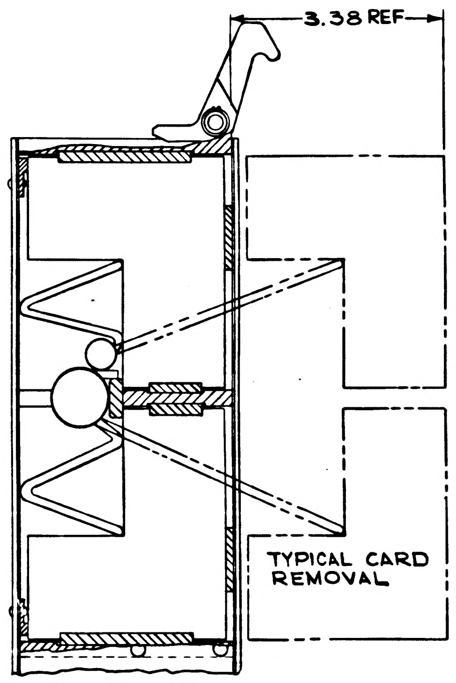
SECTION A-A


26 27 28 2 EACH REQD SEE NOTE 6
7

SECTION B-B


8
26 27 28 2 EACH REQD SEE NOTE 6
29 32 6 EACH REQD
R1
R2
R3
CR10
CR19
CR18
CR17
CR16
CR15
CR14
CR13
CR12
CR11
TB1

SECTION C-C


3.38 REF
TYPICAL CARD REMOVAL

VIEW B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	DRAWN M. Grabner DATE CHECKED Ed Foster 4 APR 66 APPROVAL CONTRACT NAS9-497	PS. ADAPTER MODULE(BLK II)	
MATERIAL —	NASA APPROVAL MIT APPROVAL	SIZE E	CODE IDENT NO. 99974 — 2901143
APPROVAL		SCALE FULL	SHEET 3 OF 3

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20-APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR-66	B.
D	REVISED PER MXC 211815	28-APR 66	QM RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. EF

REV		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
REV STATUS OF SHEETS	REV						E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

J. Stolski 17 JAN 66
DRAFTSMAN DAY MO YR
CHECKER W. Diehl 14 APR '66
ENGINEER J. Milton 14 Apr 66
APPROVAL J. Jedimon 5/5/66
CONTR NO. NAS 9-497

NASA APPROVAL
MIT APPROVAL 5/13/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A

SIZE	CODE IDENT. NO	
A	99974	2901144
SCALE NONE		SHEET 1 OF 55

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	E																
49	E																
50	E																
51	E																
52	E																
53	E																
54	E																
55	E																

SIZE	CODE IDENT. NO.	
A	99974	2901144
SCALE NONE	REV LTR E	SHEET 2 OF 55

MIL 1377A3 8-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 ASSEMBLE PER ND1002032.

4 SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.

5 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

6 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.

7 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.

9 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

10 COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.

11 SPOT TIE AS REQUIRED USING ITEM 17.

12 ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.

13 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 3 OF 55

NOTE GENERAL NOTES

NUMBER DESCRIPTION

14 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.

15 E POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.

16 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

17 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - SHIELD LEAD ON FRONT END
L - WHITE WITH BLUE TRACER.
R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 4 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	16	1016006-001	SPLICE REDUCER
9	5	44	1010763-001	SOLDER SLEEVE
9	6	48	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	~~52~~ 53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	16	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-105	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	200	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E D		SHEET 5 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102R14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 6 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J6-57	102				.15	NO			
			E7-B	109				.27	NO			
A 2	1		J6-58	102				.15	NO			
			E7-B	109				.27	NO			
A 3	1		J6-59	102				.15	NO			
			E7-B	109				.27	NO			
A 4	1		J7-57	101				.15	NO			
			E7-BB	109				.27	NO			
A 5	1		J7-58	101				.15	NO			
			E7-BB	109				.27	NO			
A 6	1		J7-59	101				.15	NO			
			E7-BB	109				.27	NO			
A 7	1		XF1-2	57				.25	YES		13	
			E7-B	109				.27	NO			
A 8	1		XF1-1	57				.25	YES		13	
			S1-2	58				.25	YES		7	
A 9	1		J7-19	101				.15	NO			
			E2	105				.25	NO			
A 10	1		J6-19	102				.15	NO			
			E2	105				.25	NO			
A 11	1		K9-3	54				.25	YES		7	
			E2	105				.25	NO			
A 12	1		K9-3	54				.25	YES			
			S2-3	60				.25	YES		8	

SIZE	CODE IDENT NO.	
A	~~89230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 7 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J7-60	101				.15	NO			
			E3	106				.25	NO			
A 14	1		J6-60	102				.15	NO			
			E3	106				.25	NO			
A 15	1		K10-3	54				.25	YES		7	
			S2-4	60				.25	YES		8	
A 16	1		E3	106				.25	NO			
			K10-3	54				.25	YES			
A 17	1		J6-38	102				.15	NO			
			E4	107				.25	NO			
A 18	1		J7-38	101				.15	NO			
			E4	107				.25	NO			
A 19	1		E4	107				.25	NO			
			K8-3	56				.25	YES		7	
A 20	1		K8-3	56				.25	YES			
			S2-2	60				.25	YES		8	
A 21	1		J6-61	102				.15	NO			
			E5-B	108				.27	NO			
A 22	1		J6-37	102				.15	NO			
			E5-B	108				.27	NO			
A 23	1		J6-20	102				.15	NO			
			E5-B	108				.27	NO			
A 24	1		J7-61	101				.15	NO			
			E5-B	108				.27	NO			

SIZE	CODE IDENT NO.	
A	~~89230~~ 99974	2901144.
SCALE-NONE	REV LTR E	SHEET 8 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J7-37	101				.15	NO			
			E5-B	108				.27	NO			
A 26	1		J7-20	101				.15	NO			
			E5-B	108				.27	NO			
A 27	1		E5-BB	108				.27	NO			
			J8-57	86				.15	NO			
A 28	1		E5-BB	108				.27	NO			
			J5-57	85				.15	NO			
A 29	1		E5-BB	108				.27	NO			
			A59-4	49				.25	YES			
A 30	1		J8-56	86				.15	NO			
			E6	63				.25	NO			
A 31	1		J5-56	85				.15	NO			
			E6	63				.25	NO			
A 32	1		E6	63				.25	NO			
			A59-1	49				.25	YES			
A 33	1		K10-8	54				.25	YES		7	
			K9-2	54				.25	YES		7	
A 34	1		K9-8	54				.25	YES		7	
			K8-2	56				.25	YES		7	
A 35	1		K8-8	56				.25	YES		7	
			K7-2	56				.25	YES		7	
A 36	1		K7-8	56				.25	YES		7	
			S2-5	60				.25	YES		8	

SIZE	CODE IDENT NO.	
A	~~89230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 9 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S2-1	60				.25	YES		8	
			K7-3	56				.25	YES		7	
A 38	1		K7-3	56				.25	YES			
			A59-2	49				.25	YES			
A 39	1		A59-2	49				.25	YES			
			A2-22	1				.25	YES			
A 40	1		J3-5	95				.15	NO			
			TB1-7	54				.25	YES			
A 41	1		J3-30	95				.15	NO			
			TB1-8	54				.25	YES			
A 42	1		J3-14	95				.15	NO			
			TB1-10	54				.25	YES			
A 43	1		J3-28	95				.15	NO			
			TB1-12	56				.25	YES			
A 44	1		J3-6	95				.15	NO			
			TB1-14	56				.25	YES			
A 45	1		S2-C1	60				.25	YES		8	
			A22-1	16				.25	YES			
A 46	1		A20-31	14				.25	YES			
			A22-9	16				.25	YES			
A 47	1		A2-17	1				.25	YES			
			E5-B	108				.27	NO			
A 48	1		A60-21	50				.25	YES			
			A22-15	16				.25	YES			

SIZE	CODE IDENT NO.	
A	~~89230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 10 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9	16				.25	YES			
			A59-4	49				.25	YES			
A 50	1		A60-7	50				.25	YES			
			A22-17	16				.25	YES			
A 51	1		J4-A	90				.15	NO			
			A60-3	50				.25	YES			
A 52	1		J4-B	90				.15	NO			
			A60-1	50				.25	YES			
A 53	1		J4-C	90				.15	NO			
			E1	93				.15	NO			
A 54	1		S1-3	58				.25	YES		7	
			E8-BB	35				.27	NO			
A 55	2				2.30	2.00				B,68	10, 11	
					4.00	4.00				A,7	10	
A 55A	1		SHLD OFA55					.15	NO			
			E11-B	112				.27	NO			
A 55L			A2-78	1				.25	YES			
			E10	111				.25	NO			
A 55R			A2-75	1				.25	YES			
			E9	110				.25	NO			
A 56	1		E9	110				.25	NO			
			J7-45	101				.15	NO			
A 57	1		E9	110				.25	NO			
			J6-45	102				.15	NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 11 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10	111				.25	NO			
			J6-46	102				.15	NO			
A 59	1		E10	111				.25	NO			
			J7-46	101				.15	NO			
A 60	1		E11-BB	112				.27	NO			
			J6-25	102				.15	NO			
A 61	1		E11-BB	112				.27	NO			
			J7-25	101				.15	NO			
A 62	1		E11-B	112				.27	NO			
			E1	93				.15	NO			
A 63	1		J1-32	87				.15	NO			CHANNEL B
			A2-3	1				.25	YES			
A 64	1		J1-15	87				.15	NO			CHANNEL B
			A2-14	1				.25	YES			
A 65	1		J3-8	95				.15	NO			
			K6-4	59				.25	YES		7	
A 66	1		J3-22	95				.15	NO			
			K6-8	59				.25	YES		7	
A 67	1		K6-7	59				.25	YES		7	
			E12	113				.25	NO			
A 68	1		J6-42	102				.15	NO			
			E12	113				.25	NO			
A 69	1		J7-42	101				.15	NO			
			E12	113				.25	NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 12 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-1	58				.25	YES		7	
			E13	114				.25	NO			
A 71	1		J6-39	102				.15	NO			
			E13	114				.25	NO			
A 72	1		J7-39	101				.15	NO			
			E13	114				.25	NO			
A 73	1		S3-2	58				.25	YES		7	
			K5-3	59				.25	YES		7	
A 74	1		K4-7	61				.25	YES		7	
			J7-21	101				.15	NO			
A 75	1		K4-7	61				.25	YES			
			J6-21	102				.15	NO			
A 76	1		K4-3	61				.25	YES		7	
			J7-40	101				.15	NO			
A 77	1		K4-3	61				.25	YES			
			J6-40	102				.15	NO			
A 78	1		E22	121				.25	NO			
			J7-48	101				.15	NO			
A 79	1		E26-BB	37				.27	NO			
			J5-14	85				.15	NO			
A 80	1		J3-18	95				.15	NO			
			TB1-16	59				.25	YES			
A 81	1		J3-20	95				.15	NO			
			K4-4	61				.25	YES		7	

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 13 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39	95				.15	NO			
			K4-8	61				.25	YES		7	
A 84	1		J3-32	95				.15	NO			
			K3-5	61				.25	YES		7	
A 85	1		J3-16	95				.15	NO			
			K2-5	62				.25	YES		7	
A 86	1		J3-34	95				.15	NO			
			K1-5	62				.25	YES		7	
A 87	1		A59-~~20~~ 13	49				.25	YES			
			K2-8	62				.25	YES		7	
A 88	1		A59-~~[illegible]~~ 20	49				.25	YES			
			K3-8	61				.25	YES		7	
A 89	1		S6-2	55				.25	YES		7	
			K3-2	61				.25	YES		7	
A 90	1		S6-1	55				.25	YES		7	
			K3-3	61				.25	YES		7	
A 91	1		K3-3	61				.25	YES			
			E16	115				.25	NO			
A 92	1		E16	115				.25	NO			
			J6-18	102				.15	NO			
A 93	1		E16	115				.25	NO			
			J7-18	101				.15	NO			
A 94	1		S5-2	57				.25	YES		7	
			K2-2	62				.25	YES		7	

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 14 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1 K2-3	57 62				.25 .25	YES YES		7 7	
A 96	1		K2-3 E17	62 116				.25 .25	YES NO			
A 97	1		E17 J6-6	116 102				.25 .15	NO NO			
A 98	1		E17 J7-6	116 101				.25 .15	NO NO			
A 99	1		S4-2 K1-2	57 62				.25 .25	YES YES		7 7	
A 100	1		S4-1 K1-3	57 62				.25 .25	YES YES		7 7	
A 101	1		K1-3 E18	62 117				.25 .25	YES NO			
A 102	1		J7-7 E18	101 117				.15 .25	NO NO			
A 103	1		J6-7 E18	102 117				.15 .25	NO NO			
A 104	1		A59-14 E26-B	49 37				.25 .27	YES NO			
A 105	1		A47-37 E26-B	41 37				.25 .27	YES NO			
A 106	1		A48-37 E26-B	42 37				.25 .27	YES NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 15 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37 E26-B	45 37				.25 .27	YES NO			
A 108	1		A52-37 E26-B	46 37				.25 .27	YES NO			
A 109	1		A53-37 E26-B	47 37				.25 .27	YES NO			
A 110	1		E26-BB J8-14	37 86				.27 .15	NO NO			
A 111	1		A47-2 E19	41 118				.25 .25	YES NO			SEE NOTE 10.
A 112	1		E19 J6-22	118 102				.25 .15	NO NO			
A 113	1		E19 J7-72	118 101				.25 .15	NO NO			
A 114	1		A48-2 E20	42 119				.25 .25	YES NO			SEE NOTE 10
A 115	1		E20 J5-9	119 102				.25 .15	NO NO			
A 116	1		E20 J7-9	119 101				.25 .15	NO NO			
A 117	1		A49-2 E21	43 120				.25 .25	YES NO			SEE NOTE 10
A 118	1		E21 J6-47	120 102				.25 .15	NO NO			

SIZE	CODE IDENT NO.	
A	80230 99974	2901144
SCALE-NONE	REV LTR E	SHEET 16 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21 J7-47	120 101				.25 .15	NO NO			
A 120	1		A49-37 E22	43 121				.25 .25	YES NO			
A 121	1		E22 J6-48	121 102				.25 .15	NO NO			
A 122	1		A50-2 E23	44 122				.25 .25	YES NO			SEE NOTE 10
A 123	1		E23 J7-26	122 101				.25 .15	NO NO			
A 124	1		E23 J6-26	122 102				.25 .15	NO NO			
A 125	1		A50-37 E24-B	44				.25 .27	YES NO			
A 126	1		E24-BB J6-27	123 102				.27 .15	NO NO			
A 127	1		E24-BB J7-27	123 101				.27 .15	NO NO			
A 128	1		A51-2 E25	45 64				.25 .25	YES NO			SEE NOTE 10
A 129	1		E25 J8-15	64 86				.25 .15	NO NO			
A 130	1		E25 J5-15	64 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 17 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-2 E27	46 65				.25 .25	YES NO			SEE NOTE 10
A 132	1		J8-5 E27	86 65				.15 .25	NO NO			
A 133	1		J5-5 E27	85 65				.15 .25	NO NO			
A 134	1		E28 A53-2	124 47				.25 .25	NO YES			SEE NOTE 10
A 135	1		E28 J7-41	124 101				.25 .15	NO NO			
A 136	1		E28 J6-41	124 102				.25 .15	NO NO			
A 137	1		A54-2 E29	48 66				.25 .25	YES NO			SEE NOTE 10
A 138	1		J8-6 E29	86 66				.15 .25	NO NO			
A 139	1		J5-6 E29	85 66				.15 .25	NO NO			
A 140	1		E30 A54-37	67 48				.25 .25	NO YES			
A 141	1		E30 J5-16	67 85				.25 .15	NO NO			
A 142	1		E30 J8-16	67 86				.25 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 18 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-58	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 19 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 87				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 20 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 21 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 E14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 E14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-8	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 22 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31 E31-88	102 98				.15 .27	NO NO			
A 194	1		J6-53 E32-88	102 100				.15 .27	NO NO			
A 195	1		J7-53 E32-8	101 100				.15 .27	NO NO			
A 196	1		J1-37 E32-8	87 100				.15 .27	NO NO			
A 197	1		J1-39 E32-8	87 100				.15 .27	NO NO			
A 198	1		J7-52 E33	101 94				.15 .25	NO NO			
A 199	1		J6-52 E33	102 94				.15 .25	NO NO			
A 200	1		J1-64 E33	87 94				.15 .25	NO NO			
A 201	1		J8-18 A59-5	86 49				.15 .25	NO YES			
A 202	1		J5-18 A59-5	85 49				.15 .25	NO YES			
A 203	1		A59-6 A22-19	49 16				.25 .25	YES YES			
A 204	1		J5-7 E34-8	85 34				.15 .27	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 23 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7 E34-8	86 34				.15 .27	NO NO			
A 206	1		J2-50 E34-8	99 34				.15 .27	NO NO			
A 207	1		A59-8 E34-88	49 34				.25 .27	YES NO			
A 208	1		A59-12 E34-88	49 34				.25 .27	YES NO			
A 209	1		J5-17 A59-9	85 49				.15 .25	NO YES			
A 210	1		J8-17 A59-9	86 49				.15 .25	NO YES			
A 211	1		A59-8 A22-31	49 16				.25 .25	YES YES			
A 212	1		A59-10 A21-1	49 15				.25 .25	YES YES			
A 213	1		A59-12 A21-9	49 15				.25 .25	YES YES			
A 214	1		J8-58 A59-28	86 49				.15 .25	NO YES			
A 215	1		J5-58 A59-28	85 49				.15 .25	NO YES			
A 216	1		A59-18 A21-19	49 15				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 24 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34 E35-88	85 33				.15 .27	NO NO			
A 218	1		J8-34 E35-88	86 33				.15 .27	NO NO			
A 219	1		A59-27 E35-8	49 33				.25 .27	YES NO			
A 220	1		A59-25 E35-8	49 33				.25 .27	YES NO			
A 221	1		A21-31 E35-8	15 33				.25 .27	YES NO			
A 222	1		A20-9 E35-8	14 33				.25 .27	YES NO			
A 223	1		J8-35 A59-26	86 49				.15 .25	NO YES			
A 224	1		J5-35 A59-26	85 49				.15 .25	NO YES			
A 225	1		A59-17 A20-1	49 14				.25 .25	YES YES			
A 226	1		J8-59 A59-24	86 49				.15 .25	NO YES			
A 227	1		J5-59 A59-24	85 49				.15 .25	NO YES			
A 228	1		A59-16 A11-1	49 9				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 25 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60 A11-6	85 9				.15 .25	NO YES			
A 230	1		J8-60 A11-6	86 9				.15 .25	NO YES			
A 231	1		J2-81 A22-40	99 16				.15 .25	NO YES			CHANNEL B
A 232	1		A22-40 A8-43	16 7				.25 .25	YES YES			
A 233	1		A22-32 J2-80	16 99				.25 .15	YES NO			CHANNEL B
A 234	1		A22-31 A8-24	16 7				.25 .25	YES YES			
A 235	1		A21-17 J2-55	15 99				.25 .15	YES NO			CHANNEL B
A 236	1		A21-17 A11-33	15 9				.25 .25	YES YES			
A 237	1		J2-32 A21-15	99 15				.15 .25	NO YES			CHANNEL B
A 238	1		A21-15 A11-22	15 9				.25 .25	YES YES			
A 239	1		A11-31 A8-4	9 7				.25 .25	YES YES			
A 240	1		A11-28 A8-1	9 7				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 26 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		J5-33 A23-1	85 17				.15 .25	NO YES			
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-BB	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298	1		J8-32 A27-1	86 21				.15 .25	NO YES			
A 299	1		J5-32 A27-1	85 21				.15 .25	NO YES			
A 300	1		J8-54 A23-19	86 17				.15 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E*	SHEET 31 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		J5-54 A23-19	85 17				.15 .25	NO YES			
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-36 E37-BB	101 92				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E*	SHEET 32 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-BB	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 89				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 88				.15 .25	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E*	SHEET 33 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		7	

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E*	SHEET 34 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J6-43 T3-2	102 51				.15 .25	NO YES			
A 338	1		T1-3 A7-43	53 6				.25 .25	YES YES		7	
A 339	1		T2-3 A6-43	52 5				.25 .25	YES YES		7	
A 340	1		T3-3 A5-43	51 4				.25 .25	YES YES		7	
A 341	1		A7-4 A6-4	6 5				.25 .25	YES YES			
A 342	1		A6-4 A5-4	5 4				.25 .25	YES YES			
A 343	1		A7-1 A6-1	6 5				.25 .25	YES YES			
A 344	1		A6-1 A5-1	5 4				.25 .25	YES YES			
A 345	1		A7-21 J1-77	6 87				.25 .15	YES NO			CHANNEL B
A 346	1		A7-13 J1-76	6 87				.25 .15	YES NO			CHANNEL B
A 347	1		A6-21 J1-52	5 87				.25 .15	YES NO			CHANNEL B
A 348	1		A6-13 J1-51	5 87				.25 .15	YES NO			CHANNEL B

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 35 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21 J1-30	4 87				.25 .15	YES NO			CHANNEL B
A 350	1		A5-13 J1-29	4 87				.25 .15	YES NO			CHANNEL B
A 351	1		A45-40 J2-66	39 99				.25 .15	YES NO			CHANNEL B
A 352	1		A45-32 J2-42	39 99				.25 .15	YES NO			CHANNEL B
A 353	1		A45-17 J2-43	39 99				.25 .15	YES NO			CHANNEL B
A 354	1		A45-15 J2-23	39 99				.25 .15	YES NO			CHANNEL B
A 355	1		A46-40 J2-68	40 99				.25 .15	YES NO			CHANNEL B
A 356	1		A46-32 J2-67	40 99				.25 .15	YES NO			CHANNEL B
A 357	1		A46-17 J2-69	40 99				.25 .15	YES NO			CHANNEL B
A 358	1		A46-15 J2-45	40 99				.25 .15	YES NO			CHANNEL B
A 359	1		A3-40 J2-25	2 99				.25 .15	YES NO			CHANNEL B
A 360	1		A3-32 J2-11	2 99				.25 .15	YES NO			CHANNEL B

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 36 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17 J2-70	2 99				.25 .15	YES NO			CHANNEL B
A 362	1		A3-15 J2-46	2 99				.25 .15	YES NO			CHANNEL B
A 363	1		A4-40 J2-47	3 99				.25 .15	YES NO			CHANNEL B
A 364	1		A4-32 J2-27	3 99				.25 .15	YES NO			CHANNEL B
A 365	1		A4-17 J2-71	3 99				.25 .15	YES NO			CHANNEL B
A 366	1		A4-15 J2-72	3 99				.25 .15	YES NO			CHANNEL B
A 367	1		J7-14 A45-19	101 39				.15 .25	NO YES			
A 368	1		J6-14 A45-19	102 39				.15 .25	NO YES			
A 369	1		J7-3 A45-1	101 39				.15 .25	NO YES			
A 370	1		J6-3 A45-1	102 39				.15 .25	NO YES			
A 371	1		J7-5 A46-19	101 40				.15 .25	NO YES			
A 372	1		J6-5 A46-19	102 40				.15 .25	NO YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 37 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1 A46-1	101 40				.15 .25	NO YES			
A 374	1		J6-1 A46-1	102 40				.15 .25	NO YES			
A 375	1		J7-15 A3-19	101 2				.15 .25	NO YES			
A 376	1		J6-15 A3-19	102 2				.15 .25	NO YES			
A 377	1		J7-4 A3-1	101 2				.15 .25	NO YES			
A 378	1		J6-4 A3-1	102 2				.15 .25	NO YES			
A 379	1		J7-13 A4-19	101 3				.15 .25	NO YES			
A 380	1		J6-13 A4-19	102 3				.15 .25	NO YES			
A 381	1		J7-12 A4-1	101 3				.15 .25	NO YES			
A 382	1		J6-12 A4-1	102 3				.15 .25	NO YES			
A 383	1		T1-4 E24-BB	53 123				.25 .26	YES NO		7	
A 384	1		T2-4 E24-BB	52 123				.25 .26	YES NO		7	

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 38 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	1		T3-4 E24-BB	51 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 F24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 F24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 F24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 F24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 F24-B	3 123				.25 .29	YES NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 F41	86 68				.15 .25	NO YES			
A 400	1		J5-30 F41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401R			F41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 F43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404R			E43 A40-43	70 30				.25 .25	NO YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 F42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		F42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 410A	1		SHLD OFA410 F51-B	 78				.25 .27	NO NO			
A 410L			F45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			F44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		F46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			F48 A32-31	75 25				.25 .25	NO YES			

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			E47 A32-19	74 25				.25 .25	NO YES			
A 421	1		E47 J8-44	74 86				.25 .15	NO NO			
A 422	1		E47 J5-44	74 85				.25 .15	NO NO			
A 423	1		E48 J5-45	75 85				.25 .15	NO NO			
A 424	1		E48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 10	
A 425A	1		SHLD A425 E51-B	 78				.25 .27	NO NO			
A 425L			E50 A37-9	77 27				.25 .25	NO YES			
A 425R			E49 A37-1	76 27				.25 .25	NO YES			
A 426	1		E49 J5-47	76 85				.25 .15	NO NO			
A 427	1		E49 J8-47	76 86				.25 .15	NO NO			
A 428	1		E50 J5-46	77 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 43 OF 55

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		E50 J8-46	77 86				.25 .15	NO NO			
A 430	1		E52 J5-31	79 85				.25 .15	NO NO			
A 431	1		E52 J8-31	79 86				.25 .15	NO NO			
A 432	1		E52 A41-43	79 31				.25 .25	NO YES			
A 433	1		E51-88 J8-26	78 86				.27 .15	NO NO			
A 434	1		E51-88 J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 E53	85 80				.15 .25	NO NO			
A 436	1		J8-52 E53	86 80				.15 .25	NO NO			
A 437	1		A42-43 E53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 44 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 45 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 46 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13	31				.25	YES			CHANNEL A
			J1-11	87				.15	NO			
A 466	1		A42-21	32				.25	YES			CHANNEL A
			J1-28	87				.15	NO			
A 467	1		A42-13	32				.25	YES			CHANNEL A
			J1-27	87				.15	NO			
A 468	1		A27-40	21				.25	YES			
			A31-43	24				.25	YES			
A 469	1		A27-32	21				.25	YES			
			A31-24	24				.25	YES			
A 470	1		A32-17	25				.25	YES			
			A30-43	23				.25	YES			
A 471	1		A32-15	25				.25	YES			
			A30-24	23				.25	YES			
A 472	1		A32-40	25				.25	YES			
			A29-43	22				.25	YES			
A 473	1		A32-32	25				.25	YES			
			A29-24	22				.25	YES			
A 474	1		A37-17	27				.25	YES			
			A38-43	28				.25	YES			
A 475	1		A37-15	27				.25	YES			
			A38-24	28				.25	YES			
A 476	1		E26-BB	37				.27	NO			
			J2-29	99				.15	NO			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 47 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8	86				.15	NO			
			E54	81				.25	NO			
A 478	1		J5-8	85				.15	NO			
			E54	81				.25	NO			
A 479	1		J1-68	87				.15	NO			
			E54	81				.25	NO			
A 480	1		J8-9	86				.15	NO			
			E55	82				.25	NO			
A 481	1		J5-9	85				.15	NO			
			E55	82				.25	NO			
A 482	1		J1-44	87				.15	NO			
			E55	82				.25	NO			
A 483	1		J5-19	85				.15	NO			
			E56	83				.25	NO			
A 484	1		J8-19	86				.15	NO			
			E56	83				.25	NO			
A 485	1		J2-30	99				.15	NO			
			E56	83				.25	NO			
A 486	1		J6-8	102				.15	NO			
			TB1-1	104				.25	YES			
A 487	1		J7-8	101				.15	NO			
			TB1-1	104				.25	YES			
A 488	1		J2-17	99				.15	NO			
			TB1-2	103				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 48 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2	102				.15	NO			
			E58	125				.25	NO			
A 490	1		J7-2	101				.15	NO			
			E58	125				.25	NO			
A 491	1		J2-6	99				.15	NO			
			E58	125				.25	NO			
A 492	1		J6-54	102				.15	NO			
			TB1-3	104				.25	YES			
A 493	1		J7-54	101				.15	NO			
			TB1-3	104				.25	YES			
A 494	1		J2-16	99				.15	NO			
			TB1-4	103				.25	YES			
A 495	1		J6-32	102				.15	NO			
			E60	126				.25	NO			
A 496	1		J7-32	101				.15	NO			
			E60	126				.25	NO			
A 497	1		J2-5	99				.15	NO			
			E60	126				.25	NO			
A 498	1		J6-56	102				.15	NO			
			TB1-5	104				.25	YES			
A 499	1		J7-56	101				.15	NO			
			TB1-5	104				.25	YES			
A 500	1		J2-15	99				.15	NO			
			TB1-6	103				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 49 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55	102				.15	NO			
			E62	127				.25	NO			
A 502	1		J7-55	101				.15	NO			
			E62	127				.25	NO			
A 503	1		J2-14	99				.15	NO			
			E62	127				.25	NO			
A 504	1		J5-36	85				.15	NO			
			E63	84				.25	NO			
A 505	1		J8-36	86				.15	NO			
			E63	84				.25	NO			
A 506	1		J2-51	99				.15	NO			
			E63	84				.25	NO			
A 507	1		E8-B	35				.27	NO			
			A45-13	39				.25	YES			
A 508	1		A46-38	40				.25	YES			
			A3-13	2				.25	YES			
A 509	1		A3-38	2				.25	YES			
			A4-13	3				.25	YES			
A 510	1		A4-38	3				.25	YES			
			A5-23	4				.25	YES			
A 511	1		A5-23	4				.25	YES			
			A6-23	5				.25	YES			
A 512	1		A6-23	5				.25	YES			
			A7-23	6				.25	YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 50 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23	6				.25	YES			
			A8-23	7				.25	YES			
A 514	1		A8-23	7				.25	YES			
			A9-23	8				.25	YES			
A 515	1		A9-23	8				.25	YES			
			A11-25	9				.25	YES			
A 516	1		E8-8	35				.27	NO			
			A15-23	10				.25	YES			
A 517	1		A15-23	10				.25	YES			
			A16-23	11				.25	YES			
A 518	1		A16-23	11				.25	YES			
			A17-23	12				.25	YES			
A 519	1		A17-23	12				.25	YES			
			A19-25	13				.25	YES			
A 520	1		A19-10	13				.25	YES			
			A20-38	14				.25	YES			
A 521	1		A20-13	14				.25	YES			
			A21-38	15				.25	YES			
A 522	1		A21-13	15				.25	YES			
			A22-38	16				.25	YES			
A 523	1		A22-13	16				.25	YES			
			A23-38	17				.25	YES			
A 524	1		A23-13	17				.25	YES			
			A24-23	18				.25	YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 51 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23	18				.25	YES			
			A25-23	19				.25	YES			
A 526	1		A25-23	19				.25	YES			
			A26-23	20				.25	YES			
A 527	1		A26-23	20				.25	YES			
			A27-13	21				.25	YES			
A 528	1		E8-8	35				.27	NO			
			A29-23	22				.25	YES			
A 529	1		A29-23	22				.25	YES			
			A30-23	23				.25	YES			
A 530	1		A30-23	23				.25	YES			
			A31-23	24				.25	YES			
A 531	1		A31-23	24				.25	YES			
			A32-38	25				.25	YES			
A 532	1		A32-13	25				.25	YES			
			A33-10	26				.25	YES			
A 533	1		A33-10	26				.25	YES			
			A37-13	27				.25	YES			
A 534	1		A37-13	27				.25	YES			
			A38-23	28				.25	YES			
A 535	1		A38-23	28				.25	YES			
			A39-23	29				.25	YES			
A 536	1		A39-23	29				.25	YES			
			A40-23	30				.25	YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 52 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23	30				.25	YES			
			A41-23	31				.25	YES			
A 538	1		A41-23	31				.25	YES			
			A42-23	32				.25	YES			
A 540	1		E8-8	35				.27	NO			
			A44-13	38				.25	YES			
A 541	1		E8-8	35				.27	NO			
			A2-81	1				.25	YES			
A 542	1		A2-81	1				.25	YES			
			A47-23	41				.25	YES			
A 543	1		A47-23	41				.25	YES			
			A48-23	42				.25	YES			
A 544	1		A48-23	42				.25	YES			
			A49-23	43				.25	YES			
A 545	1		A49-23	43				.25	YES			
			A50-23	44				.25	YES			
A 546	1		A50-23	44				.25	YES			
			A51-23	45				.25	YES			
A 547	1		A51-23	45				.25	YES			
			A52-23	46				.25	YES			
A 548	1		A52-23	46				.25	YES			
			A53-23	47				.25	YES			
A 549	1		A53-23	47				.25	YES			
			A54-23	48				.25	YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 53 OF 55

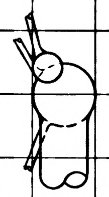
MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23	48				.25	YES			
			A59-19	49				.25	YES			
A 551	1		A59-19	49				.25	YES			
			A60-19	50				.25	YES			
A 552	1		J6-50	102				.15	NO			
			E11-88	112				.27	NO			
A 553	1		J5-50	85				.15	NO			
			E11-8	112				.27	NO			
A 554	1		S1-3	58				.25	YES			
			K5-8	59				.25	YES		7	

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 54 OF 55

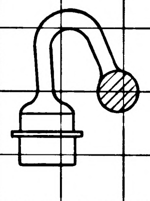
MIL 2084 9-65



PARTIAL VIEW D-D

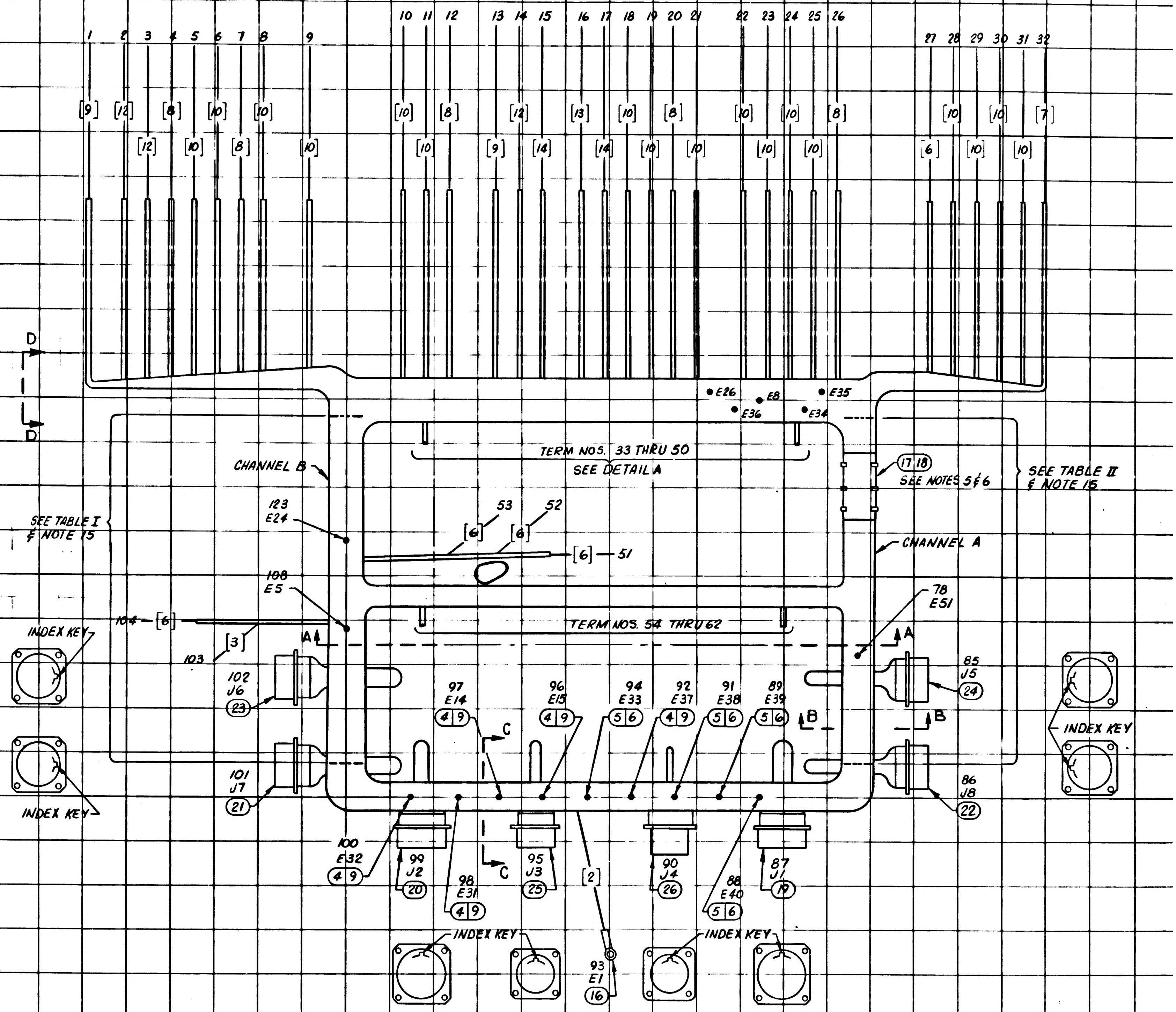
TABLE I

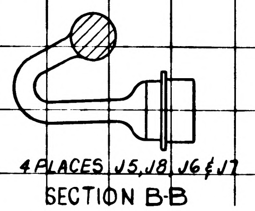
TERM NO	REF DES	ITEM NO.
105	E2	5, 6
106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5, 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
122	E23	5, 6
123	E24	12, 14
124	E28	5, 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6



4 PLACES J2, J3, J4 & J1

SECTION C-C


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
[9] [12] [12] [8] [10] [10] [8] [10] [10] [10] [10] [8] [9] [12] [14] [13] [14] [10] [10] [8] [10] [10] [10] [10] [10] [8] [6] [10] [10] [10] [10] [7]
D
D
E26
E8
E35
E36
E34
TERM NOS. 33 THRU 50
SEE DETAIL A
CHANNEL B
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
SEE TABLE I & NOTE 15
123
E24
53
52
[6]
[6]
[6] — 51
CHANNEL A
108
E5
78
E51
104 — [6]
[3]
103
TERM NOS. 54 THRU 62
A
A
INDEX KEY
102
J6
23
85
J5
24
97
E14
4 9
96
E15
4 9
94
E33
5 6
92
E37
4 9
91
E38
5 6
89
E39
5 6
C
B
B
INDEX KEY
101
J7
21
86
J8
22
INDEX KEY
100
E32
4 9
99
J2
20
98
E31
4 9
C
95
J3
25
[2]
90
J4
26
88
E40
5 6
87
J1
19
INDEX KEY
INDEX KEY
93
E1
16



4 PLACES J5, J8, J6 & J7

SECTION B-B

2901144 E

1/-2901144

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002032 B - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE PER ND1002032.
4	SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.
5	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
6	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
9	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
10	COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.
11	SPOT TIE AS REQUIRED USING ITEM 17.
12	ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.
13	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 3 OF 55

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
14	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
15	E POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.
16	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
17	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 4 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	16	1016006-001	SPLICE REDUCER
9	5	44	1010763-001	SOLDER SLEEVE
9	6	48	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	~~[illegible]~~ 53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	16	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-105	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	200	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR	E D	SHEET 5 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102R14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 6 OF 55

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		J6-57	102				.15	NO			
				XF1-2	57				.25	YES		13	
A	2	1		J6-58	102				.15	NO			
				XF1-2	57				.25	YES			
A	3	1		J6-59	102				.15	NO			
				XF1-2	57				.25	YES			
A	4	1		J7-57	101				.15	NO			
				E7-B	109				.27	NO			
A	5	1		J7-58	101				.15	NO			
				E7-B	109				.27	NO			
A	6	1		J7-59	101				.15	NO			
				E7-B	109				.27	NO			
A	7	1		S1-2	58				.25	YES		7	
				E7-BB	109				.27	NO			
A	8	1		XF1-1	57				.25	YES		13	
				E7-BB	109				.27	NO			
A	9	1		J7-19	101				.15	NO			
				E2	105				.25	NO			
A	10	1		J6-19	102				.15	NO			
				E2	105				.25	NO			
A	11	1		K9-3	54				.25	YES		7	
				E2	105				.25	NO			
A	12	1		K9-3	54				.25	YES			
				S2-3	60				.25	YES		8	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	F	SHEET 7 OF 55

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		J7-60	101				.15	NO			
				E3	106				.25	NO			
A	14	1		J6-60	102				.15	NO			
				E3	106				.25	NO			
A	15	1		K10-3	54				.25	YES		7	
				S2-4	60				.25	YES		8	
A	16	1		E3	106				.25	NO			
				K10-3	54				.25	YES			
A	17	1		J6-38	102				.15	NO			
				E4	107				.25	NO			
A	18	1		J7-38	101				.15	NO			
				E4	107				.25	NO			
A	19	1		E4	107				.25	NO			
				K8-3	56				.25	YES		7	
A	20	1		K8-3	56				.25	YES			
				S2-2	60				.25	YES		8	
A	21	1		J6-61	102				.15	NO			
				E5-B	108				.27	NO			
A	22	1		J6-37	102				.15	NO			
				E5-B	108				.27	NO			
A	23	1		J6-20	102				.15	NO			
				E5-B	108				.27	NO			
A	24	1		J7-61	101				.15	NO			
				E5-B	108				.27	NO			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 8 OF 55

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		J7-37	101				.15	NO			
				E5-B	108				.27	NO			
A	26	1		J7-20	101				.15	NO			
				E5-B	108				.27	NO			
A	27	1		E5-BB	108				.27	NO			
				J8-57	86				.15	NO			
A	28	1		E5-BB	108				.27	NO			
				J5-57	85				.15	NO			
A	29	1		E5-BB	108				.27	NO			
				A59-4	49				.25	YES			
A	30	1		J8-56	86				.15	NO			
				E6	63				.25	NO			
A	31	1		J5-56	85				.15	NO			
				E6	63				.25	NO			
A	32	1		E6	63				.25	NO			
				A59-1	49				.25	YES			
A	33	1		K10-8	54				.25	YES		7	
				K9-2	54				.25	YES		7	
A	34	1		K9-8	54				.25	YES		7	
				K8-2	56				.25	YES		7	
A	35	1		K8-8	56				.25	YES		7	
				K7-2	56				.25	YES		7	
A	36	1		K7-8	56				.25	YES		7	
				S2-5	60				.25	YES		8	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 9 OF 55

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1		S2-1	60				.25	YES		8	
				K7-3	56				.25	YES		7	
A	38	1		K7-3	56				.25	YES			
				A59-2	49				.25	YES			
A	39	1		A59-2	49				.25	YES			
				A2-22	1				.25	YES			
A	40	1		J3-5	95				.15	NO			
				TB1-7	54				.25	YES			
A	41	1		J3-30	95				.15	NO			
				TB1-8	54				.25	YES			
A	42	1		J3-14	95				.15	NO			
				TB1-10	54				.25	YES			
A	43	1		J3-28	95				.15	NO			
				TB1-12	56				.25	YES			
A	44	1		J3-6	95				.15	NO			
				TB1-14	56				.25	YES			
A	45	1		S2-C1	60				.25	YES		8	
				A22-1	16				.25	YES			
A	46	1		A20-31	14				.25	YES			
				A22-9	16				.25	YES			
A	47	1		A2-17	1				.25	YES			
				E5-B	108				.27	NO			
A	48	1		A60-21	50				.25	YES			
				A22-15	16				.25	YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 10 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31 E31-BB	102 98				.15 .27	NO NO			
A 194	1		J6-53 E32-BB	102 100				.15 .27	NO NO			
A 195	1		J7-53 E32-B	101 100				.15 .27	NO NO			
A 196	1		J1-37 E32-B	87 100				.15 .27	NO NO			
A 197	1		J1-39 E32-B	87 100				.15 .27	NO NO			
A 198	1		J7-52 E33	101 94				.15 .25	NO NO			
A 199	1		J6-52 E33	102 94				.15 .25	NO NO			
A 200	1		J1-64 E33	87 94				.15 .25	NO NO			
A 201	1		J8-18 A59-5	86 49				.15 .25	NO YES			
A 202	1		J5-18 A59-5	85 49				.15 .25	NO YES			
A 203	1		A59-6 A22-19	49 16				.25 .25	YES YES			
A 204	1		J5-7 E34-B	85 34				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 23 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7 E34-B	86 34				.15 .27	NO NO			
A 206	1		J2-50 E34-B	99 34				.15 .27	NO NO			
A 207	1		A59-8 E34-BB	49 34				.25 .27	YES NO			
A 208	1		A59-12 E34-BB	49 34				.25 .27	YES NO			
A 209	1		J5-17 A59-9	85 49				.15 .25	NO YES			
A 210	1		J8-17 A59-9	86 49				.15 .25	NO YES			
A 211	1		A59-8 A22-31	49 16				.25 .25	YES YES			
A 212	1		A59-10 A21-1	49 15				.25 .25	YES YES			
A 213	1		A59-12 A21-9	49 15				.25 .25	YES YES			
A 214	1		J8-58 A59-28	86 49				.15 .25	NO YES			
A 215	1		J5-58 A59-28	85 49				.15 .25	NO YES			
A 216	1		A59-18 A21-19	49 15				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 24 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34 E35-BB	85 33				.15 .27	NO NO			
A 218	1		J8-34 E35-BB	86 33				.15 .27	NO NO			
A 219	1		A59-27 E35-B	49 33				.25 .27	YES NO			
A 220	1		A59-25 E35-B	49 33				.25 .27	YES NO			
A 221	1		A21-31 E35-B	15 33				.25 .27	YES NO			
A 222	1		A20-9 E35-B	14 33				.25 .27	YES NO			
A 223	1		J8-35 A59-26	86 49				.15 .25	NO YES			
A 224	1		J5-35 A59-26	85 49				.15 .25	NO YES			
A 225	1		A59-17 A20-1	49 14				.25 .25	YES YES			
A 226	1		J8-59 A59-24	86 49				.15 .25	NO YES			
A 227	1		J5-59 A59-24	85 49				.15 .25	NO YES			
A 228	1		A59-16 A11-1	49 9				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 25 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60 A11-6	85 9				.15 .25	NO YES			
A 230	1		J8-60 A11-6	86 9				.15 .25	NO YES			
A 231	1		J2-81 A22-40	99 16				.15 .25	NO YES			CHANNEL B
A 232	1		A22-40 A8-43	16 7				.25 .25	YES YES			
A 233	1		A22-32 J2-80	16 99				.25 .15	YES NO			CHANNEL B
A 234	1		A22-31 A8-24	16 7				.25 .25	YES YES			
A 235	1		A21-17 J2-55	15 99				.25 .15	YES NO			CHANNEL B
A 236	1		A21-17 A11-33	15 9				.25 .25	YES YES			
A 237	1		J2-32 A21-15	99 15				.15 .25	NO YES			CHANNEL B
A 238	1		A21-15 A11-22	15 9				.25 .25	YES YES			
A 239	1		A11-31 A8-4	9 7				.25 .25	YES YES			
A 240	1		A11-28 A8-1	9 7				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 26 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		A44-14 A9-43	38 8				.25 .25	YES YES			
A 242	1		A44-16 A9-24	38 8				.25 .25	YES YES			
A 243	1		J2-78 A21-40	99 15				.15 .25	NO YES			CHANNEL B
A 244	1		A21-40 A33-1	15 26				.25 .25	YES YES			
A 245	1		A33-1 A44-17	26 38				.25 .25	YES YES			
A 246	1		J2-53 A21-32	99 15				.15 .25	NO YES			CHANNEL B
A 247	1		A33-6 A21-31	26 15				.25 .25	YES YES			
A 248	1		A33-6 A44-16	26 38				.25 .25	YES YES			
A 249	1		J2-52 A20-17	99 14				.15 .25	NO YES			CHANNEL B
A 250	1		J2-31 A20-15	99 14				.15 .25	NO YES			CHANNEL B
A 251	1		J1-31 A9-21	87 8				.15 .25	NO YES			CHANNEL B
A 252	1		J1-53 A9-13	87 8				.15 .25	NO YES			CHANNEL B

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		A8-21 J1-78	7 87				.25 .15	YES NO			CHANNEL B
A 254	1		A8-13 J1-54	7 87				.25 .15	YES NO			CHANNEL B
A 255	1		A11-18 A9-4	9 8				.25 .25	YES YES			
A 256	1		A11-15 A9-1	9 8				.25 .25	YES YES			
A 257	1		A9-4 A7-4	8 6				.25 .25	YES YES			
A 258	1		A9-1 A7-1	8 6				.25 .25	YES YES			
A 259	1		A19-18 A24-4	13 18				.25 .25	YES YES			
A 260	1		A19-15 A24-1	13 18				.25 .25	YES YES			
A 261	1		A24-4 A25-4	18 19				.25 .25	YES YES			
A 262	1		A25-4 A26-4	19 20				.25 .25	YES YES			
A 263	1		A24-1 A25-1	18 19				.25 .25	YES YES			
A 264	1		A25-1 A26-1	19 20				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 28 OF 55

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		A19-31 A15-4	13 10				.25 .25	YES YES			
[illegible]	1		A19-28 A15-1	13 10				.25 .25	YES YES			
A 267	1		J1-26 A26-21	87 20				.15 .25	NO YES			CHANNEL A
A 268	1		J1-46 A26-13	87 20				.15 .25	NO YES			CHANNEL A
A 269	1		J1-25 A25-21	87 19				.15 .25	NO YES			CHANNEL A
A 270	1		J1-45 A25-13	87 19				.15 .25	NO YES			CHANNEL A
A 271	1		J1-70 A24-21	87 18				.15 .25	NO YES			CHANNEL A
A 272	1		J1-71 A24-13	87 18				.15 .25	NO YES			CHANNEL A
A 273	1		J1-65 A15-21	87 10				.15 .25	NO YES			CHANNEL A
A 274	1		J1-40 A15-13	87 10				.15 .25	NO YES			CHANNEL A
A 275	1		A23-17 A26-43	17 20				.25 .25	YES YES			
A 276	1		A23-15 A26-24	17 20				.25 .25	YES YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 29 OF 55

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		A23-17 A15-43	17 10				.25 .25	YES YES			
A 278	1		A23-32 A25-24	17 19				.25 .25	YES YES			
A 279	1		A23-40 A25-43	17 19				.25 .25	YES YES			
A 280	1		A23-40 A16-43	17 11				.25 .25	YES YES			
A 281	1		A20-40 A19-1	14 13				.25 .25	YES YES			
A 282	1		A20-40 A44-2	14 38				.25 .25	YES YES			
A 283	1		A20-32 A19-6	14 13				.25 .25	YES YES			
A 284	1		A20-31 A44-20	14 38				.25 .25	YES YES			
A 285	1		A44-4 A19-33	38 13				.25 .25	YES YES			
A 286	1		E36-8 A24-24	36 18				.27 .25	NO YES			
A 287	1		A27-17 A24-43	21 18				.25 .25	YES YES			
A 288	1		J8-33 A23-1	86 17				.15 .25	NO YES			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 30 OF 55

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	1		T3-4 E24-BB	51 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 E24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 E24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 E24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 E24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 E24-B	3 123				.25 .29	YES NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 E41	86 68				.15 .25	NO YES			
A 400	1		J5-30 E41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401R			E41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 E43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404R			E43 A40-43	70 30				.25 .25	NO YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 E42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		E42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 410A	1		SHLD OFA410 E51-B	 78				.25 .27	NO NO			
A 410L			E45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			E44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		E46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			E48 A32-31	75 25				.25 .25	NO YES			

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23	6				.25	YES			
			A8-23	7				.25	YES			
A 514	1		A8-23	7				.25	YES			
			A9-23	8				.25	YES			
A 515	1		A9-23	8				.25	YES			
			A11-25	9				.25	YES			
A 516	1		E8-8	35				.27	NO			
			A15-23	10				.25	YES			
A 517	1		A15-23	10				.25	YES			
			A16-23	11				.25	YES			
A 518	1		A16-23	11				.25	YES			
			A17-23	12				.25	YES			
A 519	1		A17-23	12				.25	YES			
			A19-25	13				.25	YES			
A 520	1		A19-10	13				.25	YES			
			A20-38	14				.25	YES			
A 521	1		A20-13	14				.25	YES			
			A21-38	15				.25	YES			
A 522	1		A21-13	15				.25	YES			
			A22-38	16				.25	YES			
A 523	1		A22-13	16				.25	YES			
			A23-38	17				.25	YES			
A 524	1		A23-13	17				.25	YES			
			A24-23	18				.25	YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23	18				.25	YES			
			A25-23	19				.25	YES			
A 526	1		A25-23	19				.25	YES			
			A26-23	20				.25	YES			
A 527	1		A26-23	20				.25	YES			
			A27-13	21				.25	YES			
A 528	1		E8-8	35				.27	NO			
			A29-23	22				.25	YES			
A 529	1		A29-23	22				.25	YES			
			A30-23	23				.25	YES			
A 530	1		A30-23	23				.25	YES			
			A31-23	24				.25	YES			
A 531	1		A31-23	24				.25	YES			
			A32-38	25				.25	YES			
A 532	1		A32-13	25				.25	YES			
			A33-10	26				.25	YES			
A 533	1		A33-10	26				.25	YES			
			A37-13	27				.25	YES			
A 534	1		A37-13	27				.25	YES			
			A38-23	28				.25	YES			
A 535	1		A38-23	28				.25	YES			
			A39-23	29				.25	YES			
A 536	1		A39-23	29				.25	YES			
			A40-23	30				.25	YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 52 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23	30				.25	YES			
			A41-23	31				.25	YES			
A 538	1		A41-23	31				.25	YES			
			A42-23	32				.25	YES			
A 540	1		E8-8	35				.27	NO			
			A44-13	38				.25	YES			
A 541	1		E8-8	35				.27	NO			
			A2-81	1				.25	YES			
A 542	1		A2-81	1				.25	YES			
			A47-23	41				.25	YES			
A 543	1		A47-23	41				.25	YES			
			A48-23	42				.25	YES			
A 544	1		A48-23	42				.25	YES			
			A49-23	43				.25	YES			
A 545	1		A49-23	43				.25	YES			
			A50-23	44				.25	YES			
A 546	1		A50-23	44				.25	YES			
			A51-23	45				.25	YES			
A 547	1		A51-23	45				.25	YES			
			A52-23	46				.25	YES			
A 548	1		A52-23	46				.25	YES			
			A53-23	47				.25	YES			
A 549	1		A53-23	47				.25	YES			
			A54-23	48				.25	YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 53 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23	48				.25	YES			
			A59-19	49				.25	YES			
A 551	1		A59-19	49				.25	YES			
			A60-19	50				.25	YES			
A 552	1		J6-50	102				.15	NO			
			F11-88	112				.27	NO			
A 553	1		J5-50	85				.15	NO			
			F11-8	112				.27	NO			
A 554	1		S1-3	58				.25	YES			
			K5-8	59				.25	YES		7	

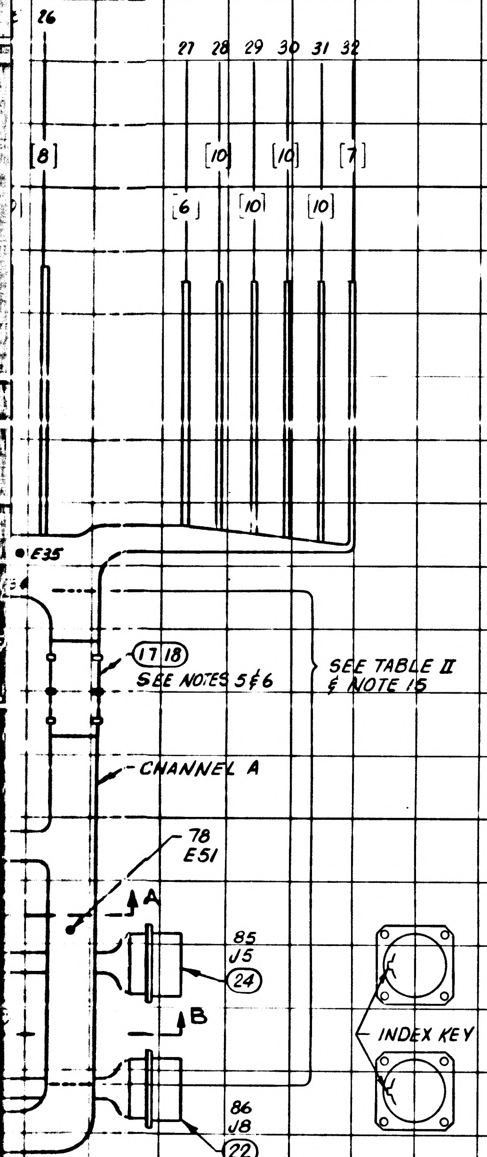
SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 54 OF 55

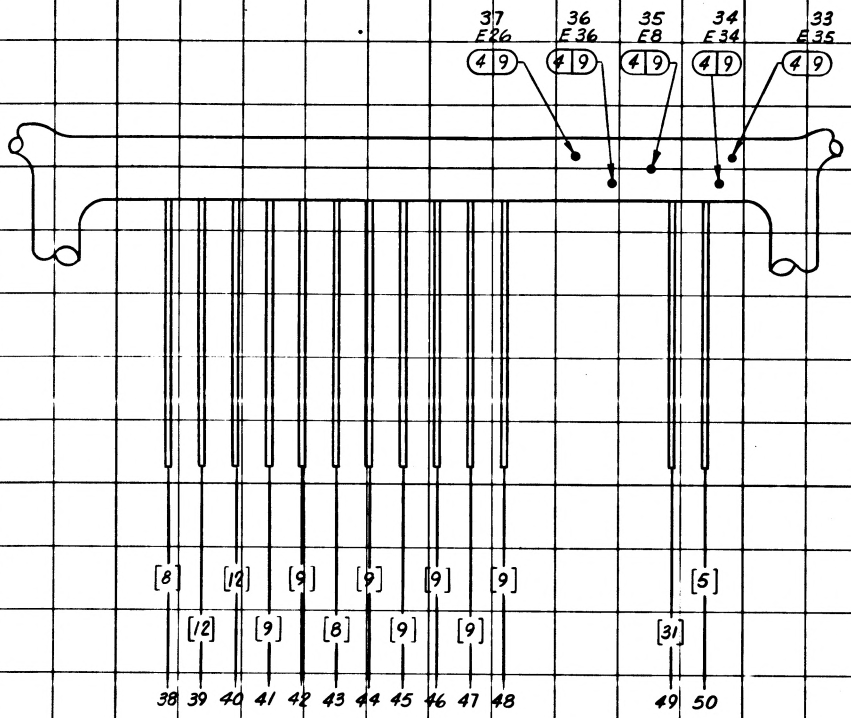
MIL 2084 9-65

REVISIONS

SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET I FOR REVISION RECORD

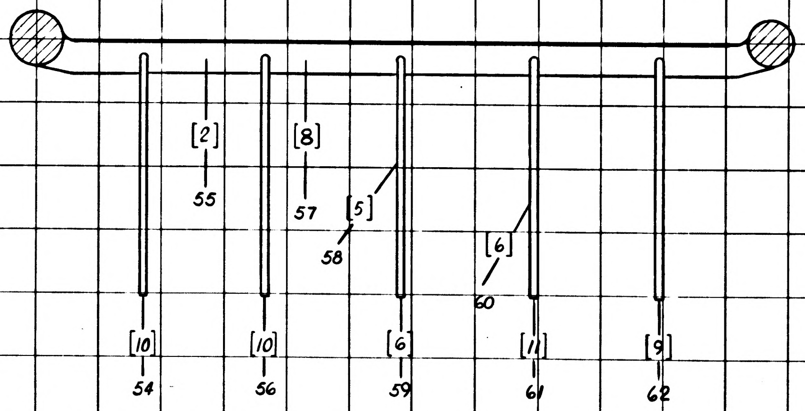

26
27 28 29 30 31 32
[8]
[10] [10] [7]
[6] [10] [10]
E35
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL A
78
E51
A
85
J5
24
B
86
J8
22
INDEX KEY


37 E26
36 E36
35 E8
34 E34
33 E35
4 9
[8] [12] [9] [9] [9] [9]
[12] [9] [8] [9] [9]
38 39 40 41 42 43 44 45 46 47 48
[31] [5]
49 50

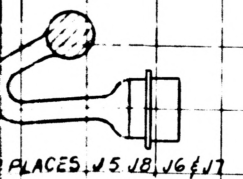
DETAIL A

TABLE II

TERM NO	REF DES	ITEM NO
63	E6	5, 6
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
80	E53	5, 6
81	E54	5, 6
82	E55	5, 6
83	E56	5, 6
84	E63	5, 6


[2]
55
[8]
57
[5]
58
[6]
60
[10]
54
[10]
56
[6]
59
[1]
61
[9]
62

SECTION A-A



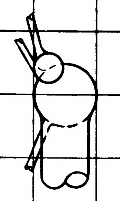
PLACES, J5 J8, J6 & J7
SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN J. Koloski DATE 5 APR 66 CHECKED [illegible] 12 APR 66 APPROVAL J. L. Miller 13 Apr 66 APPROVAL Goldman 5/4/66	WIRING HARNESS "A"
MATERIAL —	NASA APPROVAL [illegible]	CODE IDENT NO 99974 · SIZE J2 · 2901144
CONTRACT NAS 9-497	MIT APPROVAL [illegible]	SCALE FULL · SHEET 55 OF 55

F 2901144 J2

2901144 F

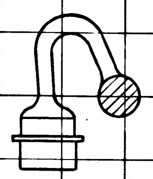
27 2901144



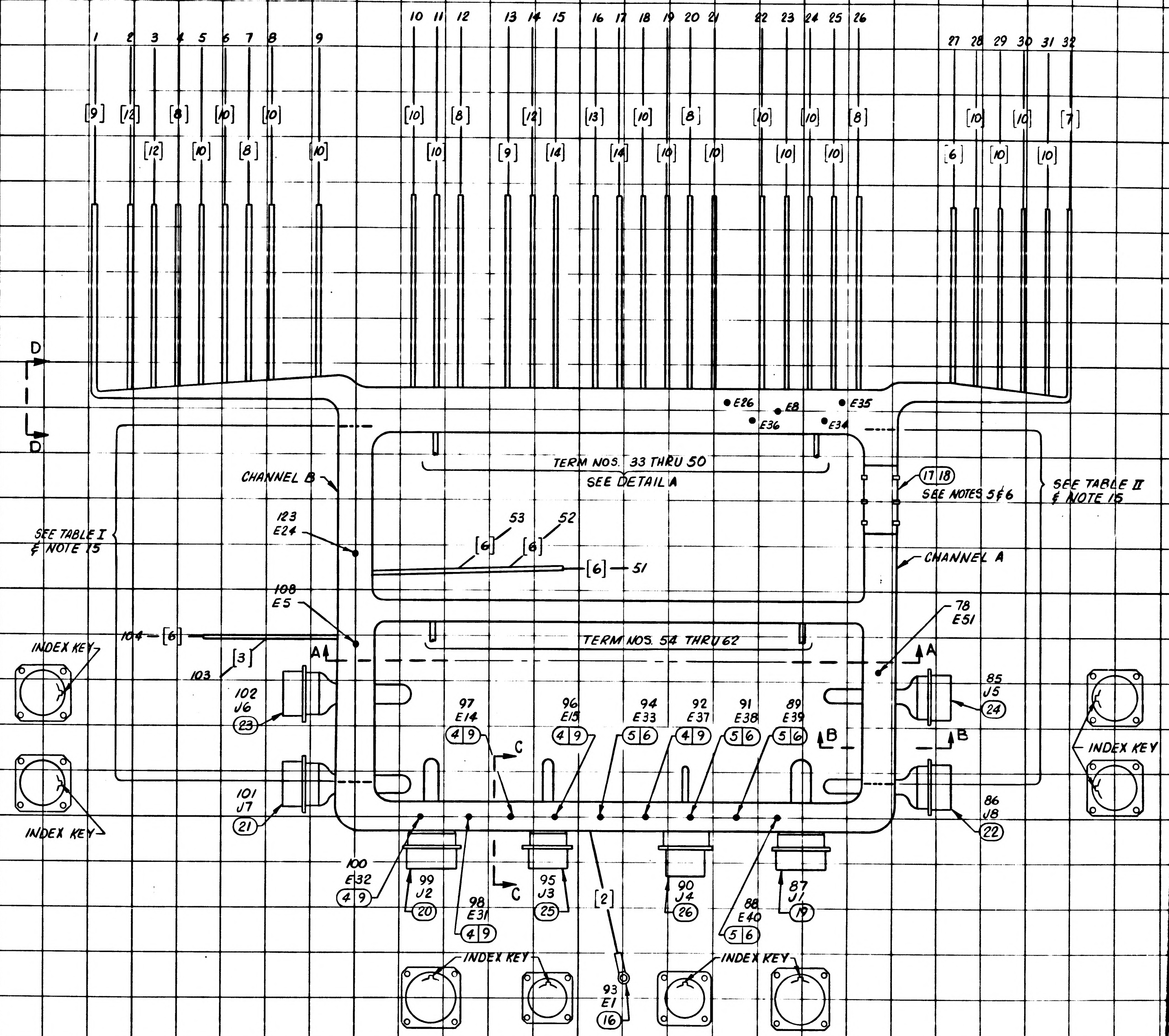
PARTIAL VIEW D-D

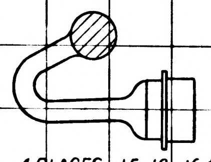
TABLE I

TERM NO	REF DES	ITEM NO.
105	E2	5, 6
106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5, 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
122	E23	5, 6
123	E24	12, 14
124	E28	5, 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6



4 PLACES J2, J3, J4 & J1
SECTION C-C


1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32
[9] [12] [12] [8] [10] [10] [8] [10] [10]
[10] [10] [8] [9] [12] [14] [13] [14] [10] [10] [8] [10]
[10] [10] [10] [10] [8]
[6] [10] [10] [10] [10] [7]
D
D
E26
E36
E8
E35
E34
TERM NOS. 33 THRU 50
SEE DETAIL A
CHANNEL B
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
SEE TABLE I & NOTE 15
123
E24
53
52
[6]
[6]
[6] — 51
CHANNEL A
108
E5
104 — [6]
[3]
103
TERM NOS. 54 THRU 62
78
E51
A
A
INDEX KEY
102
J6
23
85
J5
24
97
E14
4 9
96
E15
4 9
94
E33
5 6
92
E37
4 9
91
E38
5 6
89
E39
5 6
C
B
B
INDEX KEY
101
J7
21
86
J8
22
INDEX KEY
100
E32
4 9
99
J2
20
98
E31
4 9
C
95
J3
25
[2]
90
J4
26
88
E40
5 6
87
J1
19
INDEX KEY
INDEX KEY
93
E1
16



4 PLACES J5, J8, J6 & J7
SECTION B-B

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20 APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR 66	B.
D	REVISED PER MXC 211815	28 APR 66	RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. EF
F	REVISED PER TDRR 29637.	8 JULY 66	JAC
G	REVISED PER TDRR 30350	17AUG 66	JJB JI

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47

REV STATUS OF SHEETS																								
REV			G	G	E	G	E	G	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 17 JAN 66
DAY MO YR
CHECKER 14 APR 66
ENGINEER
APPROVAL 5/5/66
CONTR NO. NAS 9-497

NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A

SIZE A CODE IDENT. NO 99974 **2901144**

SCALE NONE SHEET 1 OF 55

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	E																
49	E																
50	E																
51	E																
52	E																
53	E																
54	E																
55	G																

SIZE A CODE IDENT. NO. 99974 **2901144**

SCALE NONE REV LTR G SHEET 2 OF 55

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002032 B - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE PER ND1002032.
4	SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.
5	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
6	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND R.
9	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
10	COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.
11	SPOT TIE AS REQUIRED USING ITEM 17.
12	ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.
13	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 3 OF 55

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
15	E POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.
16	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
17	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
18	SPOT TIE AREA SHOWN OF BREAKOUTS 1 THRU 32 AND 38 THRU 50 USING ITEM 32.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	G	SHEET 4 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	16	1016006-001	SPLICE REDUCER
9	5	44	1010763-001	SOLDER SLEEVE
9	6	48	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	16	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-105	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	230	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	E D	SHEET 5 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102R14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS
	32	AR	MIL-T-713	LACING TAPE, CLASS II TYPE P, WAXED, BLACK.

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	G	SHEET 6 OF 55

WIRING HARNESS A 2901144 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J6-57	102				.15	NO			
			XF1-2	57				.25	YES		13	
A 2	1		J6-58	102				.15	NO			
			XF1-2	57				.25	YES			
A 3	1		J6-59	102				.15	NO			
			XF1-2	57				.25	YES			
A 4	1		J7-57	101				.15	NO			
			E7-B	109				.27	NO			
A 5	1		J7-58	101				.15	NO			
			E7-B	109				.27	NO			
A 6	1		J7-59	101				.15	NO			
			E7-B	109				.27	NO			
A 7	1		S1-2	58				.25	YES		7	
			E7-BB	109				.27	NO			
A 8	1		XF1-1	57				.25	YES		13	
			E7-BB	109				.27	NO			
A 9	1		J7-19	101				.15	NO			
			E2	105				.25	NO			
A 10	1		J6-19	102				.15	NO			
			E2	105				.25	NO			
A 11	1		K9-3	54				.25	YES		7	
			E2	105				.25	NO			
A 12	1		K9-3	54				.25	YES			
			S2-3	60				.25	YES		8	

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR F
SHEET 7 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J7-60	101				.15	NO			
			E3	106				.25	NO			
A 14	1		J6-60	102				.15	NO			
			E3	106				.25	NO			
A 15	1		K10-3	54				.25	YES		7	
			S2-4	60				.25	YES		8	
A 16	1		E3	106				.25	NO			
			K10-3	54				.25	YES			
A 17	1		J6-38	102				.15	NO			
			E4	107				.25	NO			
A 18	1		J7-38	101				.15	NO			
			E4	107				.25	NO			
A 19	1		E4	107				.25	NO			
			K8-3	56				.25	YES		7	
A 20	1		K8-3	56				.25	YES			
			S2-2	60				.25	YES		8	
A 21	1		J6-61	102				.15	NO			
			E5-B	108				.27	NO			
A 22	1		J6-37	102				.15	NO			
			E5-B	108				.27	NO			
A 23	1		J6-20	102				.15	NO			
			E5-B	108				.27	NO			
A 24	1		J7-61	101				.15	NO			
			E5-B	108				.27	NO			

SIZE A
CODE IDENT NO. ~~89230~~ 99974
2901144
SCALE-NONE
REV LTR E*
SHEET 8 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J7-37	101				.15	NO			
			E5-B	108				.27	NO			
A 26	1		J7-20	101				.15	NO			
			E5-B	108				.27	NO			
A 27	1		E5-BB	108				.27	NO			
			J8-57	86				.15	NO			
A 28	1		E5-BB	108				.27	NO			
			J5-57	85				.15	NO			
A 29	1		E5-BB	108				.27	NO			
			A59-4	49				.25	YES			
A 30	1		J8-56	86				.15	NO			
			E6	63				.25	NO			
A 31	1		J5-56	85				.15	NO			
			E6	63				.25	NO			
A 32	1		E6	63				.25	NO			
			A59-1	49				.25	YES			
A 33	1		K10-8	54				.25	YES		7	
			K9-2	54				.25	YES		7	
A 34	1		K9-8	54				.25	YES		7	
			K8-2	56				.25	YES		7	
A 35	1		K8-8	56				.25	YES		7	
			K7-2	56				.25	YES		7	
A 36	1		K7-8	56				.25	YES		7	
			S2-5	60				.25	YES		8	

SIZE A
CODE IDENT NO. ~~[illegible]~~ 99974
2901144
SCALE-NONE
REV LTR E*
SHEET 9 OF 55

WIRING HARNESS A 2901144 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S2-1	60				.25	YES		8	
			K7-3	56				.25	YES		7	
A 38	1		K7-3	56				.25	YES			
			A59-2	49				.25	YES			
A 39	1		A59-2	49				.25	YES			
			A2-22	1				.25	YES			
A 40	1		J3-5	95				.15	NO			
			TB1-7	54				.25	YES			
A 41	1		J3-30	95				.15	NO			
			TB1-8	54				.25	YES			
A 42	1		J3-14	95				.15	NO			
			TB1-10	54				.25	YES			
A 43	1		J3-28	95				.15	NO			
			TB1-12	56				.25	YES			
A 44	1		J3-6	95				.15	NO			
			TB1-14	56				.25	YES			
A 45	1		S2-C1	60				.25	YES		8	
			A22-1	16				.25	YES			
A 46	1		A20-31	14				.25	YES			
			A22-9	16				.25	YES			
A 47	1		A2-17	1				.25	YES			
			E5-B	108				.27	NO			
A 48	1		A60-21	50				.25	YES			
			A22-15	16				.25	YES			

SIZE A
CODE IDENT NO. ~~89230~~ 99974
2901144
SCALE-NONE
REV LTR E*
SHEET 10 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9 A59-4	16 49				.25 .25	YES YES			
A 50	1		A60-7 A22-17	50 16				.25 .25	YES YES			
A 51	1		J4-A A60-3	90 50				.15 .25	NO YES			
A 52	1		J4-B A60-1	90 50				.15 .25	NO YES			
A 53	1		J4-C E1	90 93				.15 .15	NO NO			
A 54	1		S1-3 E8-BB	58 35				.25 .27	YES NO		7	
A 55	2				2.30 4.00	2.00 4.00				6,6B A,7	10, 11 10	
A 55A	1		SHLD OFA55 E11-B	 112				.15 .27	NO NO			
A 55L			A2-78 E10	1 111				.25 .25	YES NO			
A 55R			A2-75 E9	1 110				.25 .25	YES NO			
A 56	1		E9 J7-45	110 101				.25 .15	NO NO			
A 57	1		E9 J6-45	110 102				.25 .15	NO NO			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 11 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10 J6-46	111 102				.25 .15	NO NO			
A 59	1		E10 J7-46	111 101				.25 .15	NO NO			
A 60	1		E11-BB J6-25	112 102				.27 .15	NO NO			
A 61	1		E11-BB J7-25	112 101				.27 .15	NO NO			
A 62	1		E11-B E1	112 93				.27 .15	NO NO			
A 63	1		J1-32 A2-3	87 1				.15 .25	NO YES			CHANNEL B
A 64	1		J1-15 A2-14	87 1				.15 .25	NO YES			CHANNEL B
A 65	1		J3-8 K6-4	95 59				.15 .25	NO YES		 7	
A 66	1		J3-22 K6-8	95 59				.15 .25	NO YES		 7	
A 67	1		K6-7 E12	59 113				.25 .25	YES NO		7	
A 68	1		J6-42 E12	102 113				.15 .25	NO NO			
A 69	1		J7-42 E12	101 113				.15 .25	NO NO			

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 12 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-1 E13	58 114				.25 .25	YES NO		7	
A 71	1		J6-39 E13	102 114				.15 .25	NO NO			
A 72	1		J7-39 E13	101 114				.15 .25	NO NO			
A 73	1		S3-2 K5-3	58 59				.25 .25	YES YES		7 7	
A 74	1		K4-7 J7-21	61 101				.25 .15	YES NO		7	
A 75	1		K4-7 J6-21	61 102				.25 .15	YES NO			
A 76	1		K4-3 J7-40	61 101				.25 .15	YES NO		7	
A 77	1		K4-3 J6-40	61 102				.25 .15	YES NO			
A 78	1		E22 J7-48	121 101				.25 .15	NO NO			
A 79	1		E26-BB J5-14	37 85				.27 .15	NO NO			
A 80	1		J3-18 TB1-16	95 59				.15 .25	NO YES			
A 81	1		J3-20 K4-4	95 61				.15 .25	NO YES		 7	

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 13 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39 K4-8	95 61				.15 .25	NO YES		 7	
A 84	1		J3-32 K3-5	95 61				.15 .25	NO YES		 7	
A 85	1		J3-16 K2-5	95 62				.15 .25	NO YES		 7	
A 86	1		J3-34 K1-5	95 62				.15 .25	NO YES		 7	
A 87	1		A59-13 K2-8	49 62				.25 .25	YES YES		 7	
A 88	1		A59-20 K3-8	49 61				.25 .25	YES YES		 7	
A 89	1		S6-2 K3-2	55 61				.25 .25	YES YES		7 7	
A 90	1		S6-1 K3-3	55 61				.25 .25	YES YES		7 7	
A 91	1		K3-3 E16	61 115				.25 .25	YES NO			
A 92	1		E16 J6-18	115 102				.25 .15	NO NO			
A 93	1		E16 J7-18	115 101				.25 .15	NO NO			
A 94	1		S5-2 K2-2	57 62				.25 .25	YES YES		7 7	

SIZE A | CODE IDENT NO. ~~89230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 14 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1 K2-3	57 62				.25 .25	YES YES		7 7	
A 96	1		K2-3 E17	62 116				.25 .25	YES NO			
A 97	1		E17 J6-6	116 102				.25 .15	NO NO			
A 98	1		E17 J7-6	115 101				.25 .15	NO NO			
A 99	1		S4-2 K1-2	57 62				.25 .25	YES YES		7 7	
A 100	1		S4-1 K1-3	57 62				.25 .25	YES YES		7 7	
A 101	1		K1-3 E18	62 117				.25 .25	YES NO			
A 102	1		J7-7 E18	101 117				.15 .25	NO NO			
A 103	1		J6-7 E18	102 117				.15 .25	NO NO			
A 104	1		A59-14 E26-B	49 37				.25 .27	YES NO			
A 105	1		A47-37 E26-B	41 37				.25 .27	YES NO			
A 106	1		A48-37 E26-B	42 37				.25 .27	YES NO			

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 15 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37 E26-B	45 37				.25 .27	YES NO			
A 108	1		A52-37 E26-B	46 37				.25 .27	YES NO			
A 109	1		A53-37 E26-B	47 37				.25 .27	YES NO			
A 110	1		E26-BB J8-14	37 86				.27 .15	NO NO			
A 111	1		A47-2 E19	41 118				.25 .25	YES NO			SEE NOTE 10.
A 112	1		E19 J6-22	118 102				.25 .15	NO NO			
A 113	1		E19 J7-22	118 101				.25 .15	NO NO			
A 114	1		A48-2 E20	42 119				.25 .25	YES NO			SEE NOTE 10
A 115	1		E20 J6-9	119 102				.25 .15	NO NO			
A 116	1		E20 J7-9	119 101				.25 .15	NO NO			
A 117	1		A49-2 E21	43 120				.25 .25	YES NO			SEE NOTE 10
A 118	1		E21 J6-47	120 102				.25 .15	NO NO			

SIZE A	CODE IDENT NO. 80230 99974	2901144
SCALE-NONE	REV LTR E	SHEET 16 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21 J7-47	120 101				.25 .15	NO NO			
A 120	1		A49-37 E22	43 121				.25 .25	YES NO			
A 121	1		E22 J6-48	121 102				.25 .15	NO NO			
A 122	1		A50-2 E23	44 122				.25 .25	YES NO			SEE NOTE 10
A 123	1		E23 J7-26	122 101				.25 .15	NO NO			
A 124	1		E23 J6-26	122 102				.25 .15	NO NO			
A 125	1		A50-37 E24-B	44				.25 .27	YES NO			
A 126	1		E24-B3 J6-27	123 102				.27 .15	NO NO			
A 127	1		E24-BB J7-27	123 101				.27 .15	NO NO			
A 128	1		A51-2 E25	45 64				.25 .25	YES NO			SEE NOTE 10
A 129	1		E25 J8-15	64 86				.25 .15	NO NO			
A 130	1		E25 J5-15	64 85				.25 .15	NO NO			

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 17 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-2 E27	46 65				.25 .25	YES NO			SEE NOTE 10
A 132	1		J8-5 E27	86 65				.15 .25	NO NO			
A 133	1		J5-5 E27	85 65				.15 .25	NO NO			
A 134	1		E28 A53-2	124 47				.25 .25	NO YES			SEE NOTE 10
A 135	1		E28 J7-41	124 101				.25 .15	NO NO			
A 136	1		E28 J6-41	124 102				.25 .15	NO NO			
A 137	1		A54-2 E29	48 66				.25 .25	YES NO			SEE NOTE 10
A 138	1		J8-6 E29	86 66				.15 .25	NO NO			
A 139	1		J5-6 E29	85 66				.15 .25	NO NO			
A 140	1		E30 A54-37	67 48				.25 .25	NO YES			
A 141	1		E30 J5-16	67 85				.25 .15	NO NO			
A 142	1		E30 J8-16	67 86				.25 .15	NO NO			

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 18 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-58	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 87				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 E14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 E14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-8	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31	102				.15	NO			
			E31-83	98				.27	NO			
A 194	1		J6-53	102				.15	NO			
			E32-88	100				.27	NO			
A 195	1		J7-53	101				.15	NO			
			E32-8	100				.27	NO			
A 196	1		J1-37	87				.15	NO			
			E32-8	100				.27	NO			
A 197	1		J1-39	87				.15	NO			
			E32-8	100				.27	NO			
A 198	1		J7-52	101				.15	NO			
			E33	94				.25	NO			
A 199	1		J6-52	102				.15	NO			
			E33	94				.25	NO			
A 200	1		J1-64	87				.15	NO			
			E33	94				.25	NO			
A 201	1		J8-18	86				.15	NO			
			A59-5	49				.25	YES			
A 202	1		J5-16	85				.15	NO			
			A59-5	49				.25	YES			
A 203	1		A59-6	49				.25	YES			
			A22-19	16				.25	YES			
A 204	1		J5-7	85				.15	NO			
			E34-8	34				.27	NO			

SIZE A
CODE IDENT NO. ~~60230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 23 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7	86				.15	NO			
			E34-8	34				.27	NO			
A 206	1		J2-50	99				.15	NO			
			E34-8	34				.27	NO			
A 207	1		A59-8	49				.25	YES			
			E34-88	34				.27	NO			
A 208	1		A59-12	49				.25	YES			
			E34-88	34				.27	NO			
A 209	1		J5-17	85				.15	NO			
			A59-9	49				.25	YES			
A 210	1		J8-17	86				.15	NO			
			A59-9	49				.25	YES			
A 211	1		A59-8	49				.25	YES			
			A22-31	16				.25	YES			
A 212	1		A59-10	49				.25	YES			
			A21-1	15				.25	YES			
A 213	1		A59-12	49				.25	YES			
			A21-9	15				.25	YES			
A 214	1		J8-58	86				.15	NO			
			A59-28	49				.25	YES			
A 215	1		J5-58	85				.15	NO			
			A59-28	49				.25	YES			
A 216	1		A59-18	49				.25	YES			
			A21-19	15				.25	YES			

SIZE A
CODE IDENT NO. ~~60230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 24 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34	85				.15	NO			
			E35-88	33				.27	NO			
A 218	1		J8-34	86				.15	NO			
			E35-88	33				.27	NO			
A 219	1		A59-27	49				.25	YES			
			E35-8	33				.27	NO			
A 220	1		A59-25	49				.25	YES			
			E35-8	33				.27	NO			
A 221	1		A21-31	15				.25	YES			
			E35-8	33				.27	NO			
A 222	1		A20-9	14				.25	YES			
			E35-8	33				.27	NO			
A 223	1		J8-35	86				.15	NO			
			A59-26	49				.25	YES			
A 224	1		J5-35	85				.15	NO			
			A59-26	49				.25	YES			
A 225	1		A59-17	49				.25	YES			
			A20-1	14				.25	YES			
A 226	1		J8-59	86				.15	NO			
			A59-24	49				.25	YES			
A 227	1		J5-59	85				.15	NO			
			A59-24	49				.25	YES			
A 228	1		A59-16	49				.25	YES			
			A11-1	9				.25	YES			

SIZE A
CODE IDENT NO. ~~60230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 25 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60	85				.15	NO			
			A11-6	9				.25	YES			
A 230	1		J8-60	86				.15	NO			
			A11-6	9				.25	YES			
A 231	1		J2-81	99				.15	NO			CHANNEL B
			A22-40	16				.25	YES			
A 232	1		A22-40	16				.25	YES			
			A8-42	7				.25	YES			
A 233	1		A22-32	16				.25	YES			CHANNEL B
			J2-80	99				.15	NO			
A 234	1		A22-31	16				.25	YES			
			A8-24	7				.25	YES			
A 235	1		A21-17	15				.25	YES			CHANNEL B
			J2-55	99				.15	NO			
A 236	1		A21-17	15				.25	YES			
			A11-33	9				.25	YES			
A 237	1		J2-32	99				.15	NO			CHANNEL B
			A21-15	15				.25	YES			
A 238	1		A21-15	15				.25	YES			
			A11-22	9				.25	YES			
A 239	1		A11-31	9				.25	YES			
			A8-4	7				.25	YES			
A 240	1		A11-28	9				.25	YES			
			A8-1	7				.25	YES			

SIZE A
CODE IDENT NO. ~~60230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 26 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		A44-14 A9-43	38 8				.25 .25	YES YES			
A 242	1		A44-16 A9-24	38 8				.25 .25	YES YES			
A 243	1		J2-78 A21-40	99 15				.15 .25	NO YES			CHANNEL B
A 244	1		A21-40 A33-1	15 26				.25 .25	YES YES			
A 245	1		A33-1 A44-17	26 38				.25 .25	YES YES			
A 246	1		J2-53 A21-32	99 15				.15 .25	NO YES			CHANNEL B
A 247	1		A33-6 A21-31	26 15				.25 .25	YES YES			
A 248	1		A33-6 A44-16	26 38				.25 .25	YES YES			
A 249	1		J2-52 A20-17	99 14				.15 .25	NO YES			CHANNEL B
A 250	1		J2-31 A20-15	99 14				.15 .25	NO YES			CHANNEL B
A 251	1		J1-31 A9-21	87 8				.15 .25	NO YES			CHANNEL B
A 252	1		J1-53 A9-13	87 8				.15 .25	NO YES			CHANNEL B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		A8-21 J1-78	7 87				.25 .15	YES NO			CHANNEL B
A 254	1		A8-13 J1-54	7 87				.25 .15	YES NO			CHANNEL B
A 255	1		A11-18 A9-4	9 8				.25 .25	YES YES			
A 256	1		A11-15 A9-1	9 6				.25 .25	YES YES			
A 257	1		A9-4 A7-4	8 6				.25 .25	YES YES			
A 258	1		A9-1 A7-1	8 6				.25 .25	YES YES			
A 259	1		A19-18 A24-4	13 18				.25 .25	YES YES			
A 260	1		A19-15 A24-1	13 18				.25 .25	YES YES			
A 261	1		A24-4 A25-4	18 19				.25 .25	YES YES			
A 262	1		A25-4 A26-4	19 20				.25 .25	YES YES			
A 263	1		A24-1 A25-1	18 19				.25 .25	YES YES			
A 264	1		A25-1 A26-1	19 20				.25 .25	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		A19-31 A15-4	13 10				.25 .25	YES YES			
A 266	1		A19-28 A15-1	13 10				.25 .25	YES YES			
A 267	1		J1-26 A26-21	87 20				.15 .25	NO YES			CHANNEL A
A 268	1		J1-46 A26-13	87 20				.15 .25	NO YES			CHANNEL A
A 269	1		J1-25 A25-21	87 19				.15 .25	NO YES			CHANNEL A
A 270	1		J1-45 A25-13	87 19				.15 .25	NO YES			CHANNEL A
A 271	1		J1-70 A24-21	87 18				.15 .25	NO YES			CHANNEL A
A 272	1		J1-71 A24-13	87 18				.15 .25	NO YES			CHANNEL A
A 273	1		J1-65 A15-21	87 10				.15 .25	NO YES			CHANNEL A
A 274	1		J1-40 A15-13	87 10				.15 .25	NO YES			CHANNEL A
A 275	1		A23-17 A26-43	17 20				.25 .25	YES YES			
A 276	1		A23-15 A26-24	17 20				.25 .25	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		A23-17 A15-43	17 10				.25 .25	YES YES			
A 278	1		A23-32 A25-24	17 19				.25 .25	YES YES			
A 279	1		A23-40 A25-43	17 19				.25 .25	YES YES			
A 280	1		A23-40 A16-43	17 11				.25 .25	YES YES			
A 281	1		A20-40 A19-1	14 13				.25 .25	YES YES			
A 282	1		A20-40 A44-2	14 38				.25 .25	YES YES			
A 283	1		A20-32 A19-6	14 13				.25 .25	YES YES			
A 284	1		A20-31 A44-20	14 38				.25 .25	YES YES			
A 285	1		A44-4 A19-33	38 13				.25 .25	YES YES			
A 286	1		E36-8 A24-24	36 18				.27 .25	NO YES			
A 287	1		A27-17 A24-43	21 18				.25 .25	YES YES			
A 288	1		J8-33 A23-1	86 17				.15 .25	NO YES			

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J6-43	102				.15	NO			
			T3-2	51				.25	YES			
A 338	1		T1-3	53				.25	YES		7	
			A7-43	6				.25	YES			
A 339	1		T2-3	52				.25	YES		7	
			A6-43	5				.25	YES			
A 340	1		T3-3	51				.25	YES		7	
			A5-43	4				.25	YES			
A 341	1		A7-4	6				.25	YES			
			A6-4	5				.25	YES			
A 342	1		A6-4	5				.25	YES			
			A5-4	4				.25	YES			
A 343	1		A7-1	6				.25	YES			
			A6-1	5				.25	YES			
A 344	1		A6-1	5				.25	YES			
			A5-1	4				.25	YES			
A 345	1		A7-21	6				.25	YES			CHANNEL B
			J1-77	87				.15	NO			
A 346	1		A7-13	6				.25	YES			CHANNEL B
			J1-76	87				.15	NO			
A 347	1		A6-21	5				.25	YES			CHANNEL B
			J1-52	87				.15	NO			
A 348	1		A6-13	5				.25	YES			CHANNEL B
			J1-51	87				.15	NO			

SIZE A
CODE IDENT NO. ~~86230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 35 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21	4				.25	YES			CHANNEL B
			J1-30	87				.15	NO			
A 350	1		A5-13	4				.25	YES			CHANNEL B
			J1-29	87				.15	NO			
A 351	1		A45-40	39				.25	YES			CHANNEL B
			J2-66	99				.15	NO			
A 352	1		A45-32	39				.25	YES			CHANNEL B
			J2-42	99				.15	NO			
A 353	1		A45-17	39				.25	YES			CHANNEL B
			J2-43	99				.15	NO			
A 354	1		A45-15	39				.25	YES			CHANNEL B
			J2-23	99				.15	NO			
A 355	1		A46-40	40				.25	YES			CHANNEL B
			J2-68	99				.15	NO			
A 356	1		A46-32	40				.25	YES			CHANNEL B
			J2-67	99				.15	NO			
A 357	1		A46-17	40				.25	YES			CHANNEL B
			J2-69	99				.15	NO			
A 358	1		A46-15	40				.25	YES			CHANNEL B
			J2-45	99				.15	NO			
A 359	1		A3-40	2				.25	YES			CHANNEL B
			J2-25	99				.15	NO			
A 360	1		A3-32	2				.25	YES			CHANNEL B
			J2-11	99				.15	NO			

SIZE A
CODE IDENT NO. ~~86230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 36 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17	2				.25	YES			CHANNEL B
			J2-70	99				.15	NO			
A 362	1		A3-15	2				.25	YES			CHANNEL B
			J2-46	99				.15	NO			
A 363	1		A4-40	3				.25	YES			CHANNEL B
			J2-47	99				.15	NO			
A 364	1		A4-32	3				.25	YES			CHANNEL B
			J2-27	99				.15	NO			
A 365	1		A4-17	3				.25	YES			CHANNEL B
			J2-71	99				.15	NO			
A 366	1		A4-15	3				.25	YES			CHANNEL B
			J2-72	99				.15	NO			
A 367	1		J7-14	101				.15	NO			
			A45-19	39				.25	YES			
A 368	1		J6-14	102				.15	NO			
			A45-19	39				.25	YES			
A 369	1		J7-3	101				.15	NO			
			A45-1	39				.25	YES			
A 370	1		J6-3	102				.15	NO			
			A45-1	39				.25	YES			
A 371	1		J7-5	101				.15	NO			
			A46-19	40				.25	YES			
A 372	1		J6-5	102				.15	NO			
			A46-19	40				.25	YES			

SIZE A
CODE IDENT NO. ~~86230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 37 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1	101				.15	NO			
			A46-1	40				.25	YES			
A 374	1		J6-1	102				.15	NO			
			A46-1	40				.25	YES			
A 375	1		J7-15	101				.15	NO			
			A3-19	2				.25	YES			
A 376	1		J6-15	102				.15	NO			
			A3-19	2				.25	YES			
A 377	1		J7-4	101				.15	NO			
			A3-1	2				.25	YES			
A 378	1		J6-4	102				.15	NO			
			A3-1	2				.25	YES			
A 379	1		J7-13	101				.15	NO			
			A4-19	3				.25	YES			
A 380	1		J6-13	102				.15	NO			
			A4-19	3				.25	YES			
A 381	1		J7-12	101				.15	NO			
			A4-1	3				.25	YES			
A 382	1		J6-12	102				.15	NO			
			A4-1	3				.25	YES			
A 383	1		T1-4	53				.25	YES		7	
			E24-BB	123				.26	NO			
A 384	1		T2-4	52				.25	YES		7	
			E24-BB	123				.26	NO			

SIZE A
CODE IDENT NO. ~~86230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 38 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 385	1		E3-4 E24-BB	51 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 E24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 E24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 E24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 E24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 E24-B	3 123				.25 .29	YES NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 39 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 E41	86 68				.15 .25	NO YES			
A 400	1		J5-30 E41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				8,68 A,7	5, 6 6	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401B			E41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 E43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				8,68 A,7	5, 6 6	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404B			E43 A40-43	70 30				.25 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99774	2901144	
SCALE-NONE	REV LTR	E	SHEET 40 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 E42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		E42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 410A	1		SHLD OFA410 E51-B	 78				.25 .27	NO NO			
A 410L			E45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 41 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			E44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		E46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			E48 A32-31	75 25				.25 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 42 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			F47 A32-19	74 25				.25 .25	NO YES			
A 421	1		F47 J8-44	74 86				.25 .15	NO NO			
A 422	1		F47 J5-44	74 85				.25 .15	NO NO			
A 423	1		F48 J5-45	75 85				.25 .15	NO NO			
A 424	1		F48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				8,6B A,7	10, 11, 12	
A 425A	1		SHLD A425 F51-8	 78				.25 .27	NO NO			
A 425L			F50 A37-9	77 27				.25 .25	NO YES			
A 425R			F49 A37-1	76 27				.25 .25	NO YES			
A 426	1		F49 J5-47	76 85				.25 .15	NO NO			
A 427	1		F49 J8-47	76 86				.25 .15	NO NO			
A 428	1		F50 J5-46	77 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 43 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		F50 J8-46	77 86				.25 .15	NO NO			
A 430	1		F52 J5-31	79 85				.25 .15	NO NO			
A 431	1		F52 J8-31	79 86				.25 .15	NO NO			
A 432	1		F52 A41-43	79 31				.25 .25	NO YES			
A 433	1		F51-88 J8-26	78 86				.27 .15	NO NO			
A 434	1		F51-88 J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 F53	85 80				.15 .25	NO NO			
A 436	1		J8-52 F53	86 80				.15 .25	NO NO			
A 437	1		A42-43 F53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 44 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 45 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 46 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13 J1-11	31 87				.25 .15	YES NO			CHANNEL A
A 466	1		A42-21 J1-28	32 87				.25 .15	YES NO			CHANNEL A
A 467	1		A42-13 J1-27	32 87				.25 .15	YES NO			CHANNEL A
A 468	1		A27-40 A31-43	21 24				.25 .25	YES YES			
A 469	1		A27-32 A31-24	21 24				.25 .25	YES YES			
A 470	1		A32-17 A30-43	25 23				.25 .25	YES YES			
A 471	1		A32-15 A30-24	25 23				.25 .25	YES YES			
A 472	1		A32-40 A29-43	25 22				.25 .25	YES YES			
A 473	1		A32-32 A29-24	25 22				.25 .25	YES YES			
A 474	1		A37-17 A38-43	27 28				.25 .25	YES YES			
A 475	1		A37-15 A38-24	27 28				.25 .25	YES YES			
A 476	1		E26-88 J2-29	37 99				.27 .15	NO NO			

SIZE A
CODE IDENT NO. ~~82230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 47 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8 E54	86 81				.15 .25	NO NO			
A 478	1		J5-8 E54	85 81				.15 .25	NO NO			
A 479	1		J1-68 E54	87 81				.15 .25	NO NO			
A 480	1		J8-9 E55	86 82				.15 .25	NO NO			
A 481	1		J5-9 E55	85 82				.15 .25	NO NO			
A 482	1		J1-44 E55	87 82				.15 .25	NO NO			
A 483	1		J5-19 E56	85 83				.15 .25	NO NO			
A 484	1		J8-19 E56	86 83				.15 .25	NO NO			
A 485	1		J2-30 E56	99 83				.15 .25	NO NO			
A 486	1		J6-8 TB1-1	102 104				.15 .25	NO YES			
A 487	1		J7-8 TB1-1	101 104				.15 .25	NO YES			
A 488	1		J2-17 TB1-2	99 103				.15 .25	NO YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 48 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2 E58	102 125				.15 .25	NO NO			
A 490	1		J7-2 E58	101 125				.15 .25	NO NO			
A 491	1		J2-6 E58	99 125				.15 .25	NO NO			
A 492	1		J6-54 TB1-3	102 104				.15 .25	NO YES			
A 493	1		J7-54 TB1-3	101 104				.15 .25	NO YES			
A 494	1		J2-16 TB1-4	99 103				.15 .25	NO YES			
A 495	1		J6-32 E60	102 126				.15 .25	NO NO			
A 496	1		J7-32 E60	101 126				.15 .25	NO NO			
A 497	1		J2-5 E60	99 126				.15 .25	NO NO			
A 498	1		J6-56 TB1-5	102 104				.15 .25	NO YES			
A 499	1		J7-56 TB1-5	101 104				.15 .25	NO YES			
A 500	1		J2-15 TB1-6	99 103				.15 .25	NO YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 49 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNF. FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55 E62	102 127				.15 .25	NO NO			
A 502	1		J7-55 E62	101 127				.15 .25	NO NO			
A 503	1		J2-14 E62	99 127				.15 .25	NO NO			
A 504	1		J5-36 E63	85 84				.15 .25	NO NO			
A 505	1		J8-36 E63	86 84				.15 .25	NO NO			
A 506	1		J2-51 E63	99 84				.15 .25	NO NO			
A 507	1		E9-8 A45-13	35 39				.27 .25	NO YES			
A 508	1		A46-38 A3-13	40 2				.25 .25	YES YES			
A 509	1		A3-38 A4-13	2 3				.25 .25	YES YES			
A 510	1		A4-38 A5-23	3 4				.25 .25	YES YES			
A 511	1		A5-23 A6-23	4 5				.25 .25	YES YES			
A 512	1		A6-23 A7-23	5 6				.25 .25	YES YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 50 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23 A8-23	6 7				.25 .25	YES YES			
A 514	1		A8-23 A9-23	7 8				.25 .25	YES YES			
A 515	1		A9-23 A11-25	8 9				.25 .25	YES YES			
A 516	1		E8-8 A15-23	35 10				.27 .25	NO YES			
A 517	1		A15-23 A16-23	10 11				.25 .25	YES YES			
A 518	1		A16-23 A17-23	11 12				.25 .25	YES YES			
A 519	1		A17-23 A19-25	12 13				.25 .25	YES YES			
A 520	1		A19-13 A20-38	13 14				.25 .25	YES YES			
A 521	1		A20-13 A21-38	14 15				.25 .25	YES YES			
A 522	1		A21-13 A22-38	15 16				.25 .25	YES YES			
A 523	1		A22-13 A23-38	16 17				.25 .25	YES YES			
A 524	1		A23-13 A24-23	17 18				.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901144
SCALE-NONE	REV LTR E	SHEET 51 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23 A25-23	18 19				.25 .25	YES YES			
A 526	1		A25-23 A26-23	19 20				.25 .25	YES YES			
A 527	1		A26-23 A27-13	20 21				.25 .25	YES YES			
A 528	1		E8-8 A29-23	35 22				.27 .25	NO YES			
A 529	1		A29-23 A30-23	22 23				.25 .25	YES YES			
A 530	1		A30-23 A31-23	23 24				.25 .25	YES YES			
A 531	1		A31-23 A32-38	24 25				.25 .25	YES YES			
A 532	1		A32-13 A33-13	25 26				.25 .25	YES YES			
A 533	1		A33-13 A37-13	26 27				.25 .25	YES YES			
A 534	1		A37-13 A38-23	27 28				.25 .25	YES YES			
A 535	1		A38-23 A39-23	28 29				.25 .25	YES YES			
A 536	1		A39-23 A40-23	29 30				.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901144
SCALE-NONE	REV LTR E	SHEET 52 OF 55

WIRING HARNESS A 2901144 E

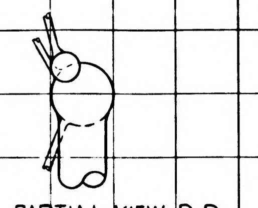
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23 A41-23	30 31				.25 .25	YES YES			
A 538	1		A41-23 A42-23	31 32				.25 .25	YES YES			
A 540	1		E8-8 A44-13	35 38				.27 .25	NO YES			
A 541	1		E8-8 A2-81	35 1				.27 .25	NO YES			
A 542	1		A2-81 A47-23	1 41				.25 .25	YES YES			
A 543	1		A47-23 A48-23	41 42				.25 .25	YES YES			
A 544	1		A48-23 A49-23	42 43				.25 .25	YES YES			
A 545	1		A49-23 A50-23	43 44				.25 .25	YES YES			
A 546	1		A50-23 A51-23	44 45				.25 .25	YES YES			
A 547	1		A51-23 A52-23	45 46				.25 .25	YES YES			
A 548	1		A52-23 A53-23	46 47				.25 .25	YES YES			
A 549	1		A53-23 A54-23	47 48				.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901144
SCALE-NONE	REV LTR E	SHEET 53 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23 A59-19	48 49				.25 .25	YES YES			
A 551	1		A59-19 A60-19	49 50				.25 .25	YES YES			
A 552	1		J6-50 E11-88	102 112				.15 .27	NO NO			
A 553	1		J5-50 E11-8	85 112				.15 .27	NO NO			
A 554	1		S1-3 K5-5	58 59				.25 .25	YES YES		 7	

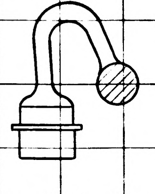
SIZE A	CODE IDENT NO. 99974	2901144
SCALE-NONE	REV LTR E	SHEET 54 OF 55



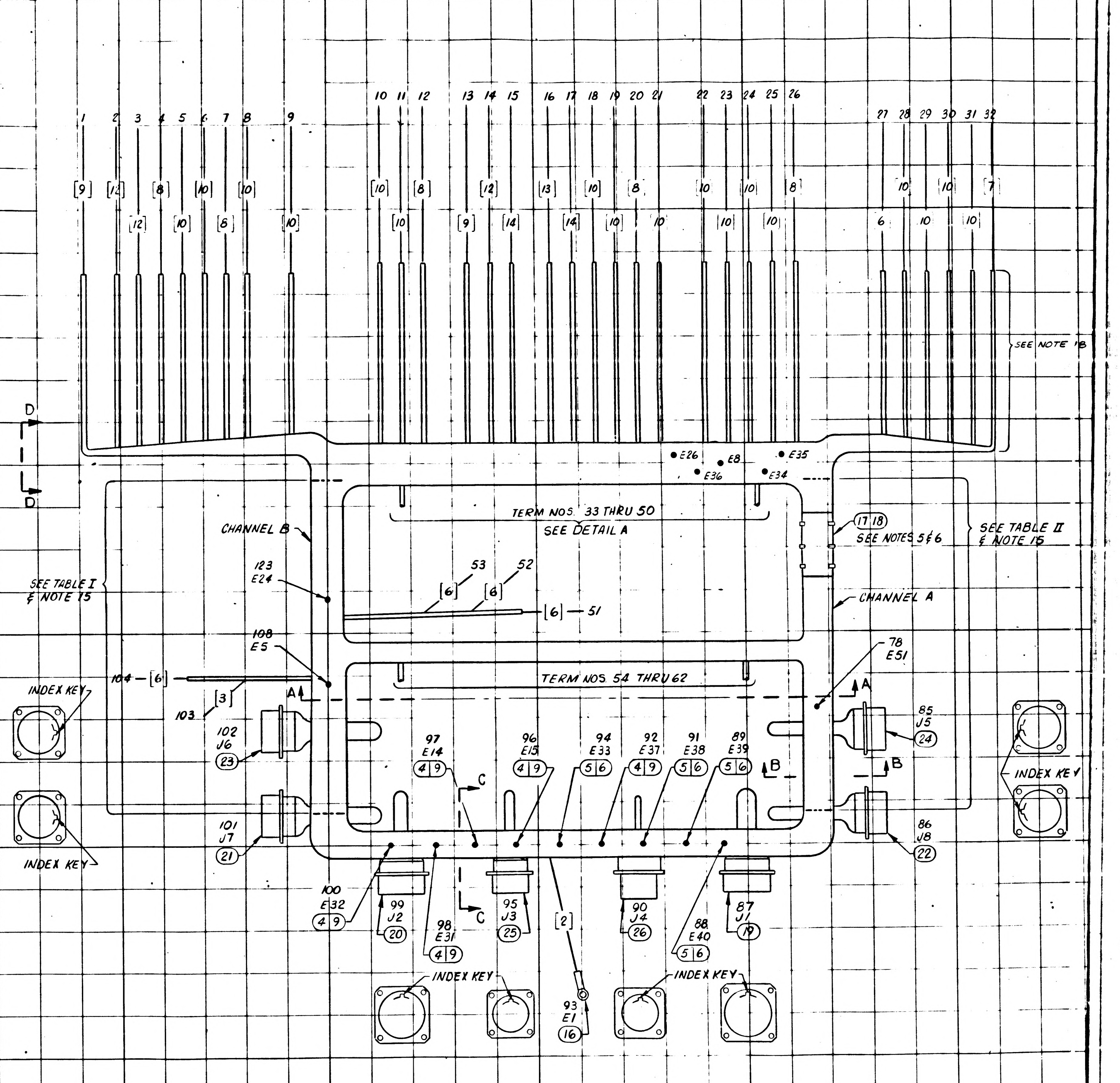
PARTIAL VIEW D-D

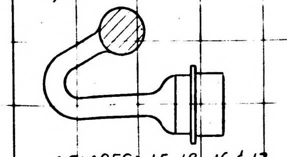
TABLE I

TERM NO	REF DES	ITEM NO.
105	E2	5, 6
106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5, 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
122	E23	5, 6
123	E24	12, 14
124	E28	5, 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6



4 PLACES J2, J3, J4 & J1
SECTION C-C


1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32
SEE NOTE 18
D
D
E26
E8
E35
E36
E34
TERM NOS 33 THRU 50
SEE DETAIL A
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL B
CHANNEL A
123 E24
53
52
51
SEE TABLE I & NOTE 15
108 E5
104
103
78 E51
TERM NOS 54 THRU 62
A
A
B
B
C
C
INDEX KEY
102 J6 23
101 J7 21
85 J5 24
86 J8 22
97 E14 4 9
96 E15 4 9
94 E33 5 6
92 E37 4 9
91 E38 5 6
89 E39 5 6
100 E32 4 9
99 J2 20
98 E31 4 9
95 J3 25
2
93 E1 16
90 J4 26
88 E40 5 6
87 J1 19



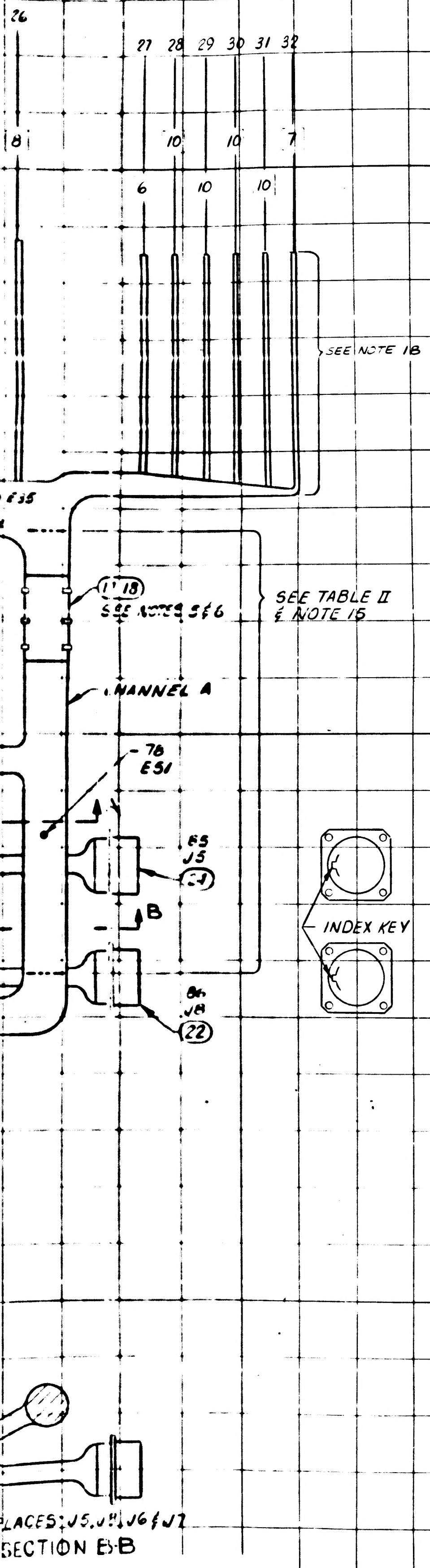
4 PLACES J5, J8, J6 & J7
SECTION B-B

2901144

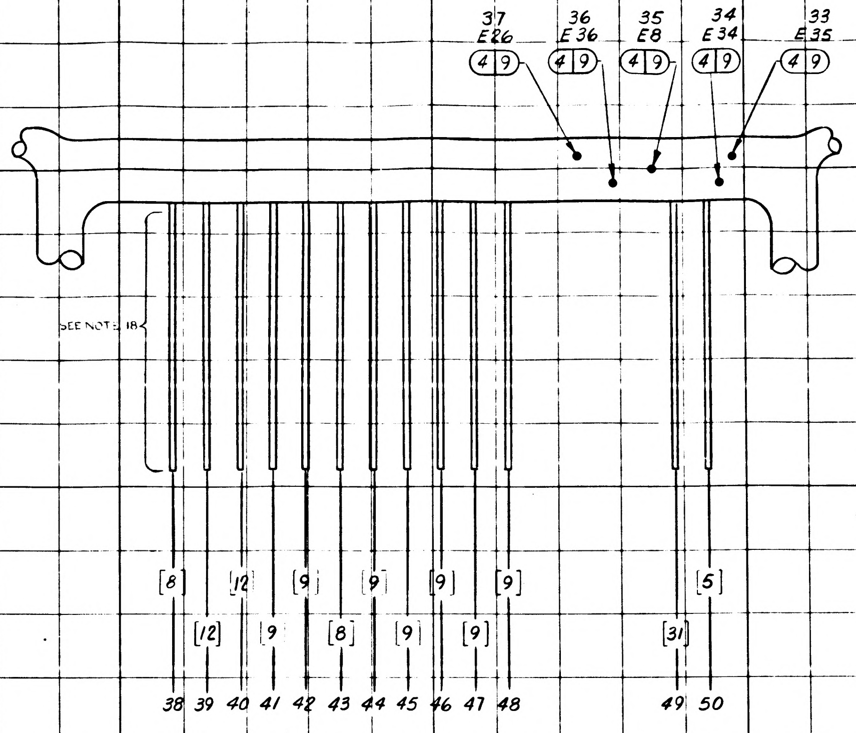
172901144

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD

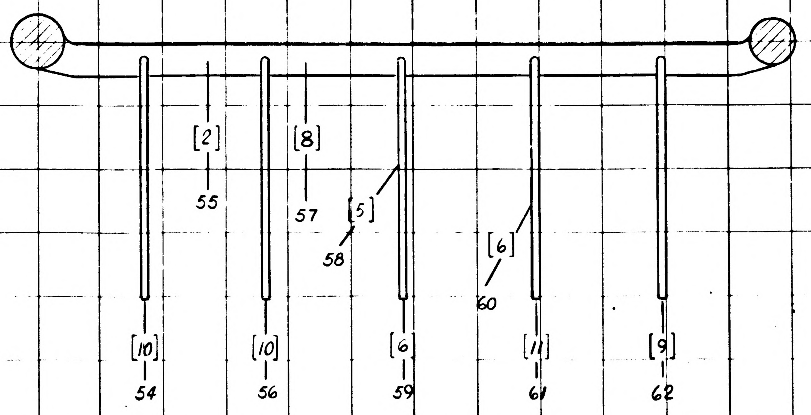


26
27 28 29 30 31 32
8
10 10 7
6 10 10
SEE NOTE 18
E35
17 18
SEE NOTES 5 & 6
SEE TABLE II
& NOTE 15
CHANNEL A
78
E51
A
E5
J5
24
B
J4
22
INDEX KEY
PLACES: J5, J4, J6 & J2
SECTION B-B



37 E26 4 9
36 E36 4 9
35 E8 4 9
34 E34 4 9
33 E35 4 9
SEE NOTE 18
8 12 12 9 9 8 9 9 9 9
31 5
38 39 40 41 42 43 44 45 46 47 48
49 50

DETAIL A



2
55
8
57
5
58
6
60
10 10 6 11 9
54 56 59 61 62

SECTION A-A

TABLE II

TERM NO	REF DES	ITEM NO
63	E6	5, 6
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
80	E53	5, 6
81	E54	5, 6
82	E55	5, 6
83	E56	5, 6
84	E63	5, 6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±	DRAWN Hotoki DATE 5 APR 66 CHECKED APPROVAL APPROVAL	MANNED SPACECRAFT CENTER HOUSTON TEXAS
DO NOT SCALE THIS DRAWING		WIRING HARNESS "A"
MATERIAL —	NASA APPROVAL	CODE IDENT NO 99974 · SIZE J2 · 2901144
CONTRACT NAS 9-497	MIT APPROVAL	SCALE FULL · SHEET 55 OF 55

2901144 B

2901144

2/2901144

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002032 B - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE PER ND1002032.
4	SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.
5	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
6	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
9	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
10	COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.
11	SPOT TIE AS REQUIRED USING ITEM 17.
12	ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.
13	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 3 OF 55

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
15	E POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.
16	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
17	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
18	SPOT TIE AREA SHOWN OF BREAKOUTS 1 THRU 32 AND 38 THRU 50 USING ITEM 32.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR G		SHEET 4 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	16	1016006-001	SPLICE REDUCER
9	5	44	1010763-001	SOLDER SLEEVE
9	6	48	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	~~[illegible]~~ 53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	16	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-135	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	200	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	~~[illegible]~~ 99974	2901144	
SCALE-NONE	REV LTR E D		SHEET 5 OF 55

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102K14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS
	32	AR	MIL-T-713	LACING TAPE, CLASS II TYPE P, WAXED, BLACK.

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR G		SHEET 6 OF 55

WIRING HARNESS A 2901144 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J6-57 XF1-2	102 57				.15 .25	NO YES		 13	
A 2	1		J6-58 XF1-2	102 57				.15 .25	NO YES			
A 3	1		J6-59 XF1-2	102 57				.15 .25	NO YES			
A 4	1		J7-57 E7-B	101 109				.15 .27	NO NO			
A 5	1		J7-58 E7-B	101 109				.15 .27	NO NO			
A 6	1		J7-59 E7-B	101 109				.15 .27	NO NO			
A 7	1		S1-2 E7-BB	58 109				.25 .27	YES NO		7	
A 8	1		XF1-1 E7-BB	57 109				.25 .27	YES NO		13	
A 9	1		J7-19 E2	101 105				.15 .25	NO NO			
A 10	1		J6-19 E2	102 105				.15 .25	NO NO			
A 11	1		K9-3 E2	54 105				.25 .25	YES NO		7	
A 12	1		K9-3 S2-3	54 60				.25 .25	YES YES		 8	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	F	SHEET 7 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J7-60 E3	101 106				.15 .25	NO NO			
A 14	1		J6-60 E3	102 106				.15 .25	NO NO			
A 15	1		K10-3 S2-4	54 60				.25 .25	YES YES		7 8	
A 16	1		E3 K10-3	106 54				.25 .25	NO YES			
A 17	1		J6-38 E4	102 107				.15 .25	NO NO			
A 18	1		J7-38 E4	101 107				.15 .25	NO NO			
A 19	1		E4 K8-3	107 56				.25 .25	NO YES		 7	
A 20	1		K8-3 S2-2	56 60				.25 .25	YES YES		 8	
A 21	1		J6-61 E5-B	102 108				.15 .27	NO NO			
A 22	1		J6-37 E5-B	102 108				.15 .27	NO NO			
A 23	1		J6-20 E5-B	102 108				.15 .27	NO NO			
A 24	1		J7-61 E5-B	101 108				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 8 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J7-37 E5-B	101 108				.15 .27	NO NO			
A 26	1		J7-20 E5-B	101 108				.15 .27	NO NO			
A 27	1		E5-BB J8-57	108 86				.27 .15	NO NO			
A 28	1		E5-BB J5-57	108 85				.27 .15	NO NO			
A 29	1		E5-BB A59-4	108 49				.27 .25	NO YES			
A 30	1		J8-56 E6	86 63				.15 .25	NO NO			
A 31	1		J5-56 E6	85 63				.15 .25	NO NO			
A 32	1		E6 A59-1	63 49				.25 .25	NO YES			
A 33	1		K10-8 K9-2	54 54				.25 .25	YES YES		7 7	
A 34	1		K9-8 K8-2	54 56				.25 .25	YES YES		7 7	
A 35	1		K8-8 K7-2	56 56				.25 .25	YES YES		7 7	
A 36	1		K7-8 S2-5	56 60				.25 .25	YES YES		7 8	

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 9 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S2-1 K7-3	60 56				.25 .25	YES YES		8 7	
A 38	1		K7-3 A59-2	56 49				.25 .25	YES YES			
A 39	1		A59-2 A2-22	49 1				.25 .25	YES YES			
A 40	1		J3-5 TB1-7	95 54				.15 .25	NO YES			
A 41	1		J3-30 TB1-8	95 54				.15 .25	NO YES			
A 42	1		J3-14 TB1-10	95 54				.15 .25	NO YES			
A 43	1		J3-28 TB1-12	95 56				.15 .25	NO YES			
A 44	1		J3-6 TB1-14	95 56				.15 .25	NO YES			
A 45	1		S2-C1 A22-1	60 16				.25 .25	YES YES		8	
A 46	1		A20-31 A22-9	14 16				.25 .25	YES YES			
A 47	1		A2-17 E5-B	1 108				.25 .27	YES NO			
A 48	1		A60-21 A22-15	50 16				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~89230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 10 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-58	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 19 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 87				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 20 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 21 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 E14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 E14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-8	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

SIZE A	CODE IDENT NO. ~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 22 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		J5-33 A23-1	85 17				.15 .25	NO YES			
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-B8	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298	1		J8-32 A27-1	86 21				.15 .25	NO YES			
A 299	1		J5-32 A27-1	85 21				.15 .25	NO YES			
A 300	1		J8-54 A23-19	86 17				.15 .25	NO YES			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 31 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		J5-54 A23-19	85 17				.15 .25	NO YES			
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-36 E37-B3	101 92				.15 .27	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 32 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-BB	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 89				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 88				.15 .25	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 33 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		 7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		 7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		 7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		 7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		 7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		 7	

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 34 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J5-43 T3-2	102 51				.15 .25	NO YES			
A 338	1		T1-3 A7-43	53 6				.25 .25	YES YES		7	
A 339	1		T2-3 A6-43	52 5				.25 .25	YES YES		7	
A 340	1		T3-3 A5-43	51 4				.25 .25	YES YES		7	
A 341	1		A7-4 A6-4	6 5				.25 .25	YES YES			
A 342	1		A6-4 A5-4	5 4				.25 .25	YES YES			
A 343	1		A7-1 A5-1	6 5				.25 .25	YES YES			
A 344	1		A6-1 A5-1	5 4				.25 .25	YES YES			
A 345	1		A7-21 J1-77	6 87				.25 .15	YES NO			CHANNEL B
A 346	1		A7-13 J1-76	6 87				.25 .15	YES NO			CHANNEL B
A 347	1		A6-21 J1-52	5 87				.25 .15	YES NO			CHANNEL B
A 348	1		A6-13 J1-51	5 87				.25 .15	YES NO			CHANNEL B

SIZE A
CODE IDENT NO. ~~86230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 35 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21 J1-30	4 87				.25 .15	YES NO			CHANNEL B
A 350	1		A5-13 J1-29	4 87				.25 .15	YES NO			CHANNEL B
A 351	1		A45-40 J2-66	39 99				.25 .15	YES NO			CHANNEL B
A 352	1		A45-32 J2-42	39 99				.25 .15	YES NO			CHANNEL B
A 353	1		A45-17 J2-43	39 99				.25 .15	YES NO			CHANNEL B
A 354	1		A45-15 J2-23	39 99				.25 .15	YES NO			CHANNEL B
A 355	1		A46-40 J2-68	40 99				.25 .15	YES NO			CHANNEL B
A 356	1		A46-32 J2-67	40 99				.25 .15	YES NO			CHANNEL B
A 357	1		A46-17 J2-69	40 99				.25 .15	YES NO			CHANNEL B
A 358	1		A46-15 J2-45	40 99				.25 .15	YES NO			CHANNEL B
A 359	1		A3-40 J2-25	2 99				.25 .15	YES NO			CHANNEL B
A 360	1		A3-32 J2-11	2 99				.25 .15	YES NO			CHANNEL B

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 36 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17 J2-70	2 99				.25 .15	YES NO			CHANNEL B
A 362	1		A3-15 J2-46	2 99				.25 .15	YES NO			CHANNEL B
A 363	1		A4-40 J2-47	3 99				.25 .15	YES NO			CHANNEL B
A 364	1		A4-32 J2-27	3 99				.25 .15	YES NO			CHANNEL B
A 365	1		A4-17 J2-71	3 99				.25 .15	YES NO			CHANNEL B
A 366	1		A4-15 J2-72	3 99				.25 .15	YES NO			CHANNEL B
A 367	1		J7-14 A45-19	101 39				.15 .25	NO YES			
A 368	1		J6-14 A45-19	102 39				.15 .25	NO YES			
A 369	1		J7-3 A45-1	101 39				.15 .25	NO YES			
A 370	1		J6-3 A45-1	102 39				.15 .25	NO YES			
A 371	1		J7-5 A46-19	101 40				.15 .25	NO YES			
A 372	1		J6-5 A46-19	102 40				.15 .25	NO YES			

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 37 OF 55

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1 A46-1	101 40				.15 .25	NO YES			
A 374	1		J6-1 A46-1	102 40				.15 .25	NO YES			
A 375	1		J7-15 A3-19	101 2				.15 .25	NO YES			
A 376	1		J6-15 A3-19	102 2				.15 .25	NO YES			
A 377	1		J7-4 A3-1	101 2				.15 .25	NO YES			
A 378	1		J6-4 A3-1	102 2				.15 .25	NO YES			
A 379	1		J7-13 A4-19	101 3				.15 .25	NO YES			
A 380	1		J6-13 A4-19	102 3				.15 .25	NO YES			
A 381	1		J7-12 A4-1	101 3				.15 .25	NO YES			
A 382	1		J6-12 A4-1	102 3				.15 .25	NO YES			
A 383	1		T1-4 E24-BB	53 123				.25 .26	YES NO		7	
A 384	1		T2-4 E24-BB	52 123				.25 .26	YES NO		7	

SIZE A
CODE IDENT NO. ~~80230~~ 99974
2901144
SCALE-NONE
REV LTR E
SHEET 38 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	1		T3-4 E24-BB	41 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 E24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 E24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 E24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 E24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 E24-B	3 123				.25 .29	YES NO			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 39 OF 55

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WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 E41	86 68				.15 .25	NO YES			
A 400	1		J5-30 E41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				8,68 A,7	5, 6 6	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401B			E41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 E43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				8,68 A,7	5, 6 6	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404B			E43 A40-43	70 30				.25 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 40 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 E42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		E42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 410A	1		SHLD OFA410 E51-B	 78				.25 .27	NO NO			
A 410L			E45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 41 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			E44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		E46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			E48 A32-31	75 25				.25 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 42 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			E47 A32-19	74 25				.25 .25	NO YES			
A 421	1		E47 J8-44	74 86				.25 .15	NO NO			
A 422	1		F47 J5-44	74 85				.25 .15	NO NO			
A 423	1		F48 J5-45	75 85				.25 .15	NO NO			
A 424	1		F48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 12	
A 425A	1		SHLD A425 E51-8	 78				.25 .27	NO NO			
A 425L			E50 A37-9	77 27				.25 .25	NO YES			
A 425R			F49 A37-1	76 27				.25 .25	NO YES			
A 426	1		E49 J5-47	76 85				.25 .15	NO NO			
A 427	1		E49 J8-47	76 86				.25 .15	NO NO			
A 428	1		E50 J5-46	77 85				.25 .15	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 43 OF 55	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		E50 J8-46	77 86				.25 .15	NO NO			
A 430	1		F52 J5-31	79 85				.25 .15	NO NO			
A 431	1		F52 J8-31	79 86				.25 .15	NO NO			
A 432	1		E52 A41-43	79 31				.25 .25	NO YES			
A 433	1		F51-88 J8-26	78 86				.27 .15	NO NO			
A 434	1		F51-88 J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 F53	85 80				.15 .25	NO NO			
A 436	1		J8-52 F53	86 80				.15 .25	NO NO			
A 437	1		A42-43 F53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 44 OF 55	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 45 OF 55	

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E	SHEET 46 OF 55	

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13 J1-11	31 87				.25 .15	YES NO			CHANNEL A
A 466	1		A42-21 J1-28	32 87				.25 .15	YES NO			CHANNEL A
A 467	1		A42-13 J1-27	32 87				.25 .15	YES NO			CHANNEL A
A 468	1		A27-40 A31-43	21 24				.25 .25	YES YES			
A 469	1		A27-32 A31-24	21 24				.25 .25	YES YES			
A 470	1		A32-17 A30-43	25 23				.25 .25	YES YES			
A 471	1		A32-15 A30-24	25 23				.25 .25	YES YES			
A 472	1		A32-40 A29-43	25 22				.25 .25	YES YES			
A 473	1		A32-32 A29-24	25 22				.25 .25	YES YES			
A 474	1		A37-17 A38-43	27 28				.25 .25	YES YES			
A 475	1		A37-15 A38-24	27 28				.25 .25	YES YES			
A 476	1		E26-88 J2-29	37 99				.27 .15	NO NO			

SIZE	CODE IDENT NO.	
A	~~82230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 47 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8 E54	86 81				.15 .25	NO NO			
A 478	1		J5-8 E54	85 81				.15 .25	NO NO			
A 479	1		J1-68 E54	87 81				.15 .25	NO NO			
A 480	1		J8-9 E55	86 82				.15 .25	NO NO			
A 481	1		J5-9 E55	85 82				.15 .25	NO NO			
A 482	1		J1-44 E55	87 82				.15 .25	NO NO			
A 483	1		J5-19 E56	85 83				.15 .25	NO NO			
A 484	1		J8-19 E56	86 83				.15 .25	NO NO			
A 485	1		J2-30 E56	99 83				.15 .25	NO NO			
A 486	1		J6-8 TB1-1	102 104				.15 .25	NO YES			
A 487	1		J7-8 TB1-1	101 104				.15 .25	NO YES			
A 488	1		J2-17 TB1-2	99 103				.15 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 48 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2 E58	102 125				.15 .25	NO NO			
A 490	1		J7-2 E58	101 125				.15 .25	NO NO			
A 491	1		J2-6 E58	99 125				.15 .25	NO NO			
A 492	1		J6-54 TB1-3	102 104				.15 .25	NO YES			
A 493	1		J7-54 TB1-3	101 104				.15 .25	NO YES			
A 494	1		J2-16 TB1-4	99 103				.15 .25	NO YES			
A 495	1		J6-32 E60	102 126				.15 .25	NO NO			
A 496	1		J7-32 E60	101 126				.15 .25	NO NO			
A 497	1		J2-5 E60	99 126				.15 .25	NO NO			
A 498	1		J6-56 TB1-5	102 104				.15 .25	NO YES			
A 499	1		J7-56 TB1-5	101 104				.15 .25	NO YES			
A 500	1		J2-15 TB1-6	99 103				.15 .25	NO YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 49 OF 55

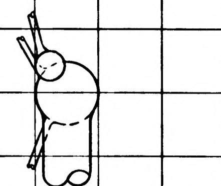
MIL 2084 9-65

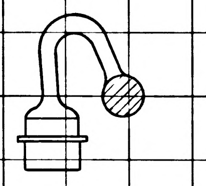
WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55 E62	102 127				.15 .25	NO NO			
A 502	1		J7-55 E62	101 127				.15 .25	NO NO			
A 503	1		J2-14 E62	99 127				.15 .25	NO NO			
A 504	1		J5-36 E63	85 84				.15 .25	NO NO			
A 505	1		J8-36 E63	86 84				.15 .25	NO NO			
A 506	1		J2-51 E63	99 84				.15 .25	NO NO			
A 507	1		E9-8 A45-13	35 39				.27 .25	NO YES			
A 508	1		A46-38 A3-13	40 2				.25 .25	YES YES			
A 509	1		A3-38 A4-13	2 3				.25 .25	YES YES			
A 510	1		A4-38 A5-23	3 4				.25 .25	YES YES			
A 511	1		A5-23 A6-23	4 5				.25 .25	YES YES			
A 512	1		A6-23 A7-23	5 6				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E	SHEET 50 OF 55

MIL 2084 9-65

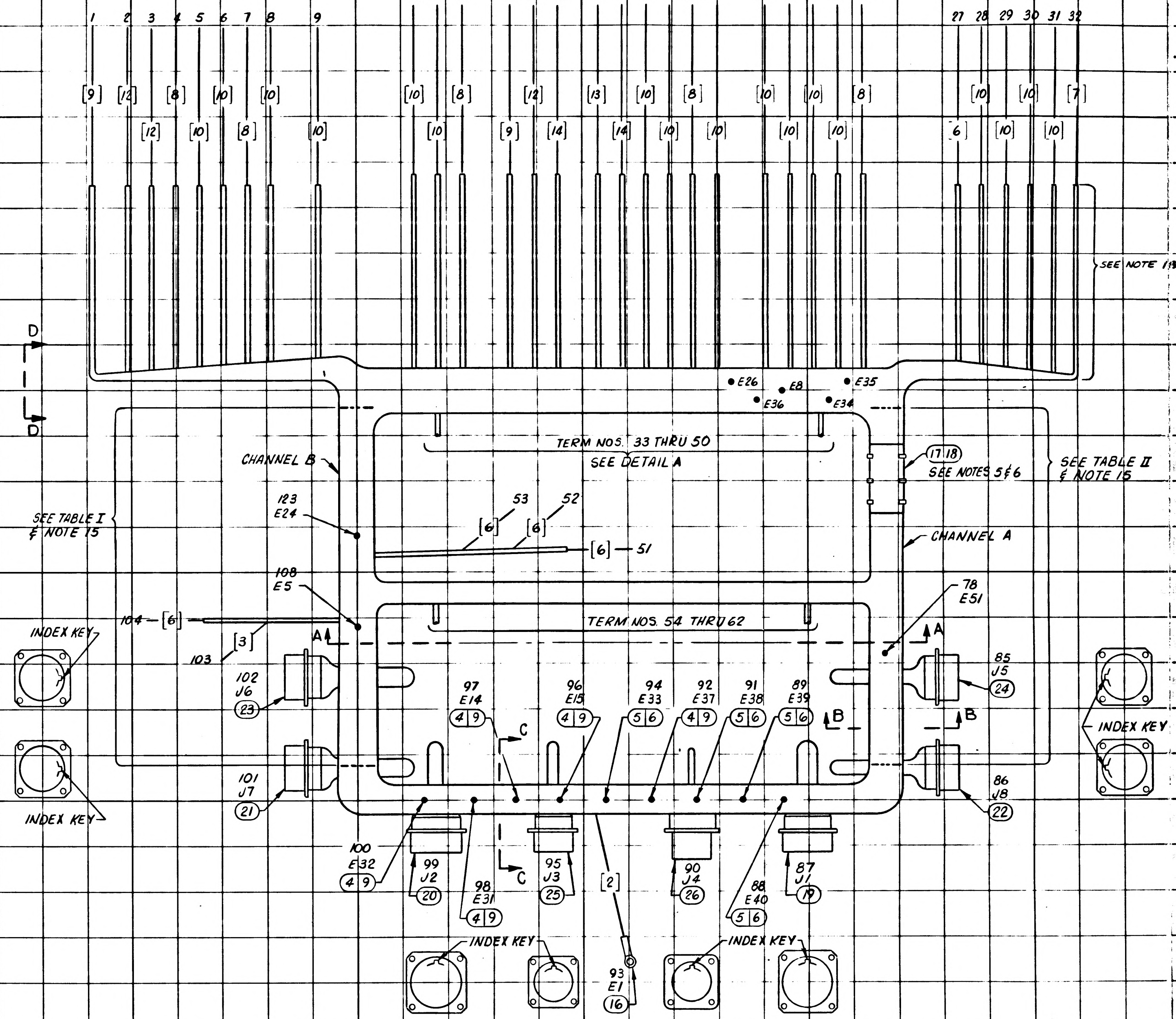

PARTIAL VIEW D-D


4 PLACES J2, J3, J4 & J1

SECTION C-C

TABLE I

TERM NO	REF DES	ITEM NO.
105	E2	5, 6
106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5, 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
122	E23	5, 6
123	E24	12, 14
124	E28	5, 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6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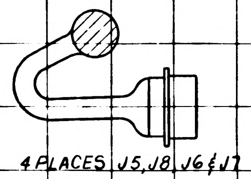
SEE NOTE 13
D
D
E26
E8
E35
E36
E34
TERM NOS. 33 THRU 50
SEE DETAIL A
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL B
123 E24
53
52
[6]
[6]
[6] — 51
CHANNEL A
SEE TABLE I & NOTE 15
108 E5
104 — [6]
[3]
103
TERM NOS. 54 THRU 62
78 E51
A
A
INDEX KEY
102 J6 23
101 J7 21
INDEX KEY
97 E14 4 9
96 E15 4 9
94 E33 5 6
92 E37 4 9
91 E38 5 6
89 E39 5 6
B
B
C
C
85 J5 24
86 J8 22
INDEX KEY
100 E32 4 9
99 J2 20
98 E31 4 9
95 J3 25
[2]
90 J4 26
88 E40 5 6
87 J1 19
93 E1 16
INDEX KEY
INDEX KEY


4 PLACES J5, J8, J6 & J7

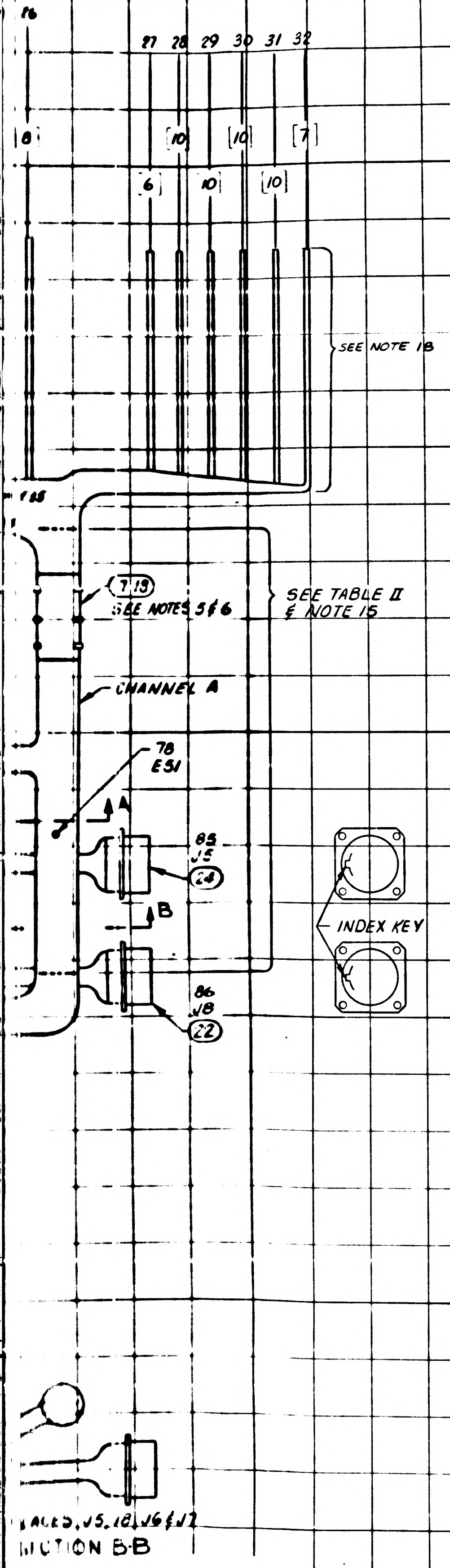
SECTION B-B

2901144 REV G SH 25

1/2901144

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD

SEE SHEET I FOR REVISION RECORD


26
27 28 29 30 31 32
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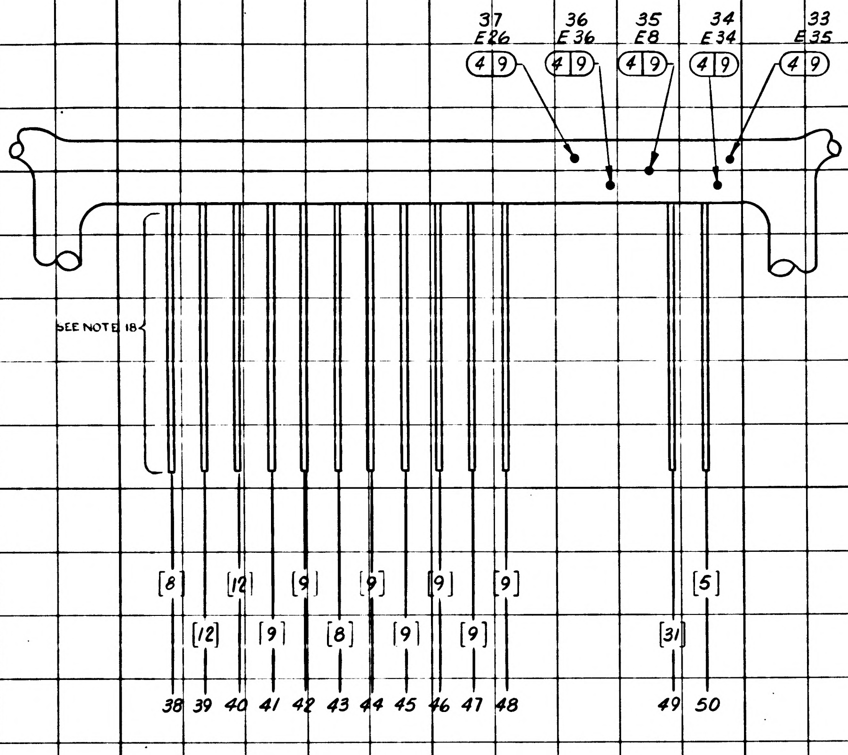
SEE NOTE 18
7 19
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL A
78
E51
A
B
85
J5
24
86
J8
22
INDEX KEY
ACES J5, J8, J6 & J7
ICTION B-B


37 E26
36 E36
35 E8
34 E34
33 E35
4 9
SEE NOTE 18
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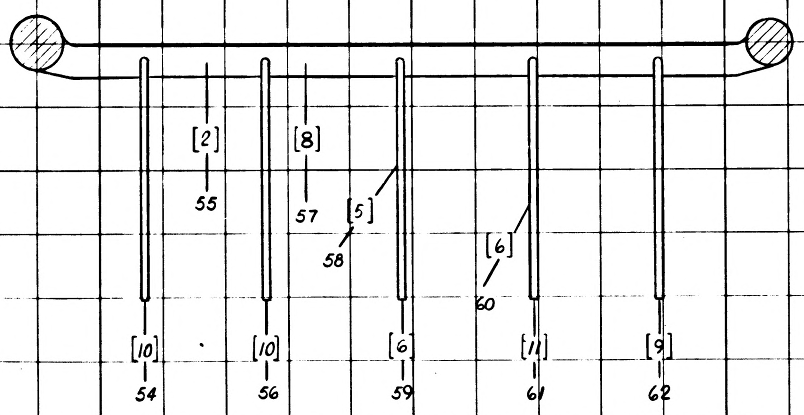
38 39 40 41 42 43 44 45 46 47 48 49 50

DETAIL A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55
[8]
57
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58
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60
[10] [10] [6] [11] [9]
54 56 59 61 62

SECTION A-A

TABLE II

TERM NO	REF DES	ITEM NO
63	E6	5, 6
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
80	E53	5, 6
81	E54	5, 6
82	E55	5, 6
83	E56	5, 6
84	E63	5, 6

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
DRAWN Jholoki DATE 5 APR 66
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO 99974
SIZE J2
2901144
SCALE FULL
SHEET 55 OF 55

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20 APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR-66	B.
D	REVISED PER MXC 211815	28-APR 66	RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. EF
F	REVISED PER TDRR 29637.	8 JULY 66	JAC
G	REVISED PER TDRR 30350	17AUG 66	JJB JI
H	REVISED PER TDRR 30488	23 AUG 66	mem
J	REVISED PER TDRR 30963	14 SEP 66	

REV		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
REV STATUS OF SHEETS	REV			J	H	E	G	E	G	F	E	E	E	E	E	E	E	E	H	J	J	E	E	E			
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

Jstolski 17 JAN 66
DRAFTSMAN DAY MO YR
CHECKER W. Diehl 14 APR '66
ENGINEER 14 Apr 66
APPROVAL 5/5/66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL 5-10-66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A

SIZE	CODE IDENT. NO	
A	99974	2901144
SCALE NONE		SHEET 1 OF 55

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	E																
49	E																
50	E																
51	E																
52	E																
53	E																
54	E																
55	G																

SIZE	CODE IDENT. NO.	
A	99974	2901144
SCALE NONE	REV LTR H	SHEET 2 OF 55

MIL 1377A3 8-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9 A59-4	16 49				.25 .25	YES YES			
A 50	1		A60-7 A22-17	50 16				.25 .25	YES YES			
A 51	1		J4-A A60-3	90 50				.15 .25	NO YES			
A 52	1		J4-B A60-1	90 50				.15 .25	NO YES			
A 53	1		J4-C F1	90 93				.15 .15	NO NO			
A 54	1		S1-3 E8-BB	58 35				.25 .27	YES NO		7	
A 55	2				2.30 4.00	2.00 4.00				B,68 A,7	10, 11 10	
A 55A	1		SHLD OFA55 E11-B	 112				.15 .27	NO NO			
A 55L			A2-78 E10	1 111				.25 .25	YES NO			
A 55R			A2-75 E9	1 110				.25 .25	YES NO			
A 56	1		E9 J7-45	110 101				.25 .15	NO NO			
A 57	1		E9 J6-45	110 102				.25 .15	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 11 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10 J6-46	111 102				.25 .15	NO NO			
A 59	1		F10 J7-46	111 101				.25 .15	NO NO			
A 60	1		E11-BB J6-25	112 102				.27 .15	NO NO			
A 61	1		E11-BB J7-25	112 101				.27 .15	NO NO			
A 62	1		E11-B E1	112 93				.27 .15	NO NO			
A 63	1		J1-32 A2-3	87 1				.15 .25	NO YES			CHANNEL B
A 64	1		J1-15 A2-14	87 1				.15 .25	NO YES			CHANNEL B
A 65	1		J3-8 K6-4	95 59				.15 .25	NO YES		 7	
A 66	1		J3-22 K6-8	95 59				.15 .25	NO YES		 7	
A 67	1		K6-7 E12	59 113				.25 .25	YES NO		7	
A 68	1		J6-42 E12	102 113				.15 .25	NO NO			
A 69	1		J7-42 E12	101 113				.15 .25	NO NO			

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 12 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-1 E13	58 114				.25 .25	YES NO		7	
A 71	1		J6-39 E13	102 114				.15 .25	NO NO			
A 72	1		J7-39 E13	101 114				.15 .25	NO NO			
A 73	1		S3-2 K5-3	58 59				.25 .25	YES YES		7 7	
A 74	1		K4-7 J7-21	61 101				.25 .15	YES NO		7	
A 75	1		K4-7 J6-21	61 102				.25 .15	YES NO			
A 76	1		K4-3 J7-40	61 101				.25 .15	YES NO		7	
A 77	1		K4-3 J6-40	61 102				.25 .15	YES NO			
A 78	1		E22 J7-48	121 101				.25 .15	NO NO			
A 79	1		E26-BB J5-14	37 85				.27 .15	NO NO			
A 80	1		J3-18 TB1-16	95 59				.15 .25	NO YES			
A 81	1		J3-20 K4-4	95 61				.15 .25	NO YES		 7	

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 13 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39 K4-8	95 61				.15 .25	NO YES		 7	
A 84	1		J3-32 K3-5	95 61				.15 .25	NO YES		 7	
A 85	1		J3-16 K2-5	95 62				.15 .25	NO YES		 7	
A 86	1		J3-34 K1-5	95 62				.15 .25	NO YES		 7	
A 87	1		A59-~~20~~13 K2-8	49 62				.25 .25	YES YES		 7	
A 88	1		A59-~~[illegible]~~20 K3-8	49 61				.25 .25	YES YES		 7	
A 89	1		S6-2 K3-2	55 61				.25 .25	YES YES		7 7	
A 90	1		S6-1 K3-3	55 61				.25 .25	YES YES		7 7	
A 91	1		K3-3 E16	61 115				.25 .25	YES NO			
A 92	1		F16 J6-18	115 102				.25 .15	NO NO			
A 93	1		E16 J7-18	115 101				.25 .15	NO NO			
A 94	1		S5-2 K2-2	57 62				.25 .25	YES YES		7 7	

SIZE A | CODE IDENT NO. ~~80230~~ 99974 | 2901144

SCALE-NONE | REV LTR E | SHEET 14 OF 55

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31 E31-BB	102 98				.15 .27	NO NO			
A 194	1		J6-53 E32-BB	102 100				.15 .27	NO NO			
A 195	1		J7-53 E32-B	101 100				.15 .27	NO NO			
A 196	1		J1-37 E32-B	87 100				.15 .27	NO NO			
A 197	1		J1-39 E32-B	87 100				.15 .27	NO NO			
A 198	1		J7-52 E33	101 94				.15 .25	NO NO			
A 199	1		J6-52 E33	102 94				.15 .25	NO NO			
A 200	1		J1-64 E33	87 94				.15 .25	NO NO			
A 201	1		J8-18 A59-5	86 49				.15 .25	NO YES			
A 202	1		J5-18 A59-5	85 49				.15 .25	NO YES			
A 203	1		A59-6 A22-19	49 16				.25 .25	YES YES			
A 204	1		J5-7 E34-B	85 34				.15 .27	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7 E34-B	86 34				.15 .27	NO NO			
A 206	1		J2-50 E34-B	99 34				.15 .27	NO NO			
A 207	1		A59-8 E34-BB	49 34				.25 .27	YES NO			
A 208	1		A59-12 E34-BB	49 34				.25 .27	YES NO			
A 209	1		J5-17 A59-9	85 49				.15 .25	NO YES			
A 210	1		J8-17 A59-9	86 49				.15 .25	NO YES			
A 211	1		A59-8 A22-31	49 16				.25 .25	YES YES			
A 212	1		A59-10 A21-1	49 15				.25 .25	YES YES			
A 213	1		A59-12 A21-9	49 15				.25 .25	YES YES			
A 214	1		J8-58 A59-28	86 49				.15 .25	NO YES			
A 215	1		J5-58 A59-28	85 49				.15 .25	NO YES			
A 216	1		A59-18 A21-19	49 15				.25 .25	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34 E35-BB	85 33				.15 .27	NO NO			
A 218	1		J8-34 E35-BB	86 33				.15 .27	NO NO			
A 219	1		A59-27 E35-B	49 33				.25 .27	YES NO			
A 220	1		A59-25 E35-B	49 33				.25 .27	YES NO			
A 221	1		A21-31 E35-B	15 33				.25 .27	YES NO			
A 222	1		A20-9 E35-B	14 33				.25 .27	YES NO			
A 223	1		J8-35 A59-26	86 49				.15 .25	NO YES			
A 224	1		J5-35 A59-26	85 49				.15 .25	NO YES			
A 225	1		A59-17 A20-1	49 14				.25 .25	YES YES			
A 226	1		J8-59 A59-24	86 49				.15 .25	NO YES			
A 227	1		J5-59 A59-24	85 49				.15 .25	NO YES			
A 228	1		A59-16 A11-1	49 9				.25 .25	YES YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60 A11-6	85 9				.15 .25	NO YES			
A 230	1		J8-60 A11-6	86 9				.15 .25	NO YES			
A 231	1		J2-81 A22-40	99 16				.15 .25	NO YES			CHANNEL B
A 232	1		A22-40 A8-43	16 7				.25 .25	YES YES			
A 233	1		A22-32 J2-80	16 99				.25 .15	YES NO			CHANNEL B
A 234	1		A22-31 A8-24	16 7				.25 .25	YES YES			
A 235	1		A21-17 J2-55	15 99				.25 .15	YES NO			CHANNEL B
A 236	1		A21-17 A11-33	15 9				.25 .25	YES YES			
A 237	1		J2-32 A21-15	99 15				.15 .25	NO YES			CHANNEL B
A 238	1		A21-15 A11-22	15 9				.25 .25	YES YES			
A 239	1		A11-31 A8-4	9 7				.25 .25	YES YES			
A 240	1		A11-28 A8-1	9 7				.25 .25	YES YES			

WIRING HARNESS A 2901144 E8

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	241	1		A44-14	38				.25	YES			
				A9-43	8				.25	YES			
A	242	1		A44-16	38				.25	YES			
				A9-24	8				.25	YES			
A	243	1		J2-78	99				.15	NO			CHANNEL B
				A21-40	15				.25	YES			
A	244	1		A21-40	15				.25	YES			
				A33-1	26				.25	YES			
A	245	1		A33-1	26				.25	YES			
				A44-17	38				.25	YES			
A	246	1		J2-53	99				.15	NO			CHANNEL B
				A21-32	15				.25	YES			
A	247	1		A33-6	26				.25	YES			
				A21-31	15				.25	YES			
A	248	1		A33-6	26				.25	YES			
				A44-16	38				.25	YES			
A	249	1		J2-52	99				.15	NO			CHANNEL B
				A20-17	14				.25	YES			
A	250	1		J2-31	99				.15	NO			CHANNEL B
				A20-15	14				.25	YES			
A	251	1		J1-31	87				.15	NO			CHANNEL B
				A9-21	8				.25	YES			
A	252	1		J1-53	87				.15	NO			CHANNEL B
				A9-13	8				.25	YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E8	SHEET 27 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E8

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	253	1		A8-21	7				.25	YES			CHANNEL B
				J1-78	87				.15	NO			
A	254	1		A8-13	7				.25	YES			CHANNEL B
				J1-54	87				.15	NO			
A	255	1		A11-18	9				.25	YES			
				A9-4	8				.25	YES			
A	256	1		A11-15	9				.25	YES			
				A9-1	8				.25	YES			
A	257	1		A9-4	8				.25	YES			
				A7-4	6				.25	YES			
A	258	1		A9-1	8				.25	YES			
				A7-1	6				.25	YES			
A	259	1		A19-18	13				.25	YES			
				A24-4	18				.25	YES			
A	260	1		A19-15	13				.25	YES			
				A24-1	18				.25	YES			
A	261	1		A24-4	18				.25	YES			
				A25-4	19				.25	YES			
A	262	1		A25-4	19				.25	YES			
				A26-4	20				.25	YES			
A	263	1		A24-1	18				.25	YES			
				A25-1	19				.25	YES			
A	264	1		A25-1	19				.25	YES			
				A26-1	20				.25	YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E8	SHEET 28 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E8

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	265	1		A19-31	13				.25	YES			
				A15-4	10				.25	YES			
A	266	1		A19-28	13				.25	YES			
				A15-1	10				.25	YES			
A	267	1		J1-26	87				.15	NO			CHANNEL A
				A26-21	20				.25	YES			
A	268	1		J1-46	87				.15	NO			CHANNEL A
				A26-13	20				.25	YES			
A	269	1		J1-25	87				.15	NO			CHANNEL A
				A25-21	19				.25	YES			
A	270	1		J1-45	87				.15	NO			CHANNEL A
				A25-13	19				.25	YES			
A	271	1		J1-70	87				.15	NO			CHANNEL A
				A24-21	18				.25	YES			
A	272	1		J1-71	87				.15	NO			CHANNEL A
				A24-13	18				.25	YES			
A	273	1		J1-65	87				.15	NO			CHANNEL A
				A15-21	10				.25	YES			
A	274	1		J1-40	87				.15	NO			CHANNEL A
				A15-13	10				.25	YES			
A	275	1		A23-17	17				.25	YES			
				A26-43	20				.25	YES			
A	276	1		A23-15	17				.25	YES			
				A26-24	20				.25	YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E8	SHEET 29 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E8

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	277	1		A23-17	17				.25	YES			
				A15-43	10				.25	YES			
A	278	1		A23-32	17				.25	YES			
				A25-24	19				.25	YES			
A	279	1		A23-40	17				.25	YES			
				A25-43	19				.25	YES			
A	280	1		A23-40	17				.25	YES			
				A16-43	11				.25	YES			
A	281	1		A20-40	14				.25	YES			
				A19-1	13				.25	YES			
A	282	1		A20-40	14				.25	YES			
				A44-2	38				.25	YES			
A	283	1		A20-32	14				.25	YES			
				A19-6	13				.25	YES			
A	284	1		A20-31	14				.25	YES			
				A44-20	38				.25	YES			
A	285	1		A44-4	38				.25	YES			
				A19-33	13				.25	YES			
A	286	1		E36-8	36				.27	NO			
				A24-24	18				.25	YES			
A	287	1		A27-17	21				.25	YES			
				A24-43	18				.25	YES			
A	288	1		J8-33	86				.15	NO			
				A23-1	17				.25	YES			

SIZE	CODE IDENT NO.	
A	~~80230~~ 99974	2901144
SCALE-NONE	REV LTR E8	SHEET 30 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		J5-33 A23-1	85 17				.15 .25	NO YES			
A 290	1		J5-55 E36-BB	85 36				.15 .27	NO NO			
A 291	1		J8-55 E36-88	86 36				.15 .27	NO NO			
A 292	1		A23-9 E36-B	17 36				.25 .27	YES NO			
A 293	1		A23-31 E36-B	17 36				.25 .27	YES NO			
A 294	1		A27-9 E36-B	21 36				.25 .27	YES NO			
A 295	1		A15-24 E36-B	10 36				.25 .27	YES NO			
A 296	1		A16-24 E36-B	11 36				.25 .27	YES NO			
A 297	1		A17-24 E36-B	12 36				.25 .27	YES NO			
A 298	1		J8-32 A27-1	86 21				.15 .25	NO YES			
A 299	1		J5-32 A27-1	85 21				.15 .25	NO YES			
A 300	1		J8-54 A23-19	86 17				.15 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 31 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		J5-54 A23-19	85 17				.15 .25	NO YES			
A 302	1		A2-22 A20-19	1 14				.25 .25	YES YES			
A 303	1		A27-17 A17-43	21 12				.25 .25	YES YES			
A 304	1		A15-4 A16-4	10 11				.25 .25	YES YES			
A 305	1		A16-4 A17-4	11 12				.25 .25	YES YES			
A 306	1		A15-1 A16-1	10 11				.25 .25	YES YES			
A 307	1		A16-1 A17-1	11 12				.25 .25	YES YES			
A 308	1		A16-21 J1-41	11 87				.25 .15	YES NO			CHANNEL A
A 309	1		A16-13 J1-22	11 87				.25 .15	YES NO			CHANNEL A
A 310	1		A17-21 J1-21	12 87				.25 .15	YES NO			CHANNEL A
A 311	1		A17-13 J1-9	12 87				.25 .15	YES NO			CHANNEL A
A 312	1		J7-36 E37-BB	101 92				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 32 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		J6-36 E37-88	102 92				.15 .27	NO NO			
A 314	1		J1-42 E37-B	87 92				.15 .27	NO NO			
A 315	1		J1-23 E37-B	87 92				.15 .27	NO NO			
A 316	1		J1-66 E37-B	87 92				.15 .27	NO NO			
A 317	1		J7-17 E38	101 91				.15 .25	NO NO			
A 318	1		J6-17 E38	102 91				.15 .25	NO NO			
A 319	1		J1-43 E38	87 91				.15 .25	NO NO			
A 320	1		J7-34 E39	101 89				.15 .25	NO NO			
A 321	1		J6-34 E39	102 89				.15 .25	NO NO			
A 322	1		J1-24 E39	87 89				.15 .25	NO NO			
A 323	1		J7-35 E40	101 88				.15 .25	NO NO			
A 324	1		J6-35 E40	102 88				.15 .25	NO NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 33 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 325	1		J1-67 E40	87 88				.15 .25	NO NO			
A 326	1		J7-44 T1-1	101 53				.15 .25	NO YES		7	
A 327	1		J6-44 T1-1	102 53				.15 .25	NO YES			
A 328	1		J7-24 T1-2	101 53				.15 .25	NO YES		7	
A 329	1		J6-24 T1-2	102 53				.15 .25	NO YES			
A 330	1		J7-11 T2-1	101 52				.15 .25	NO YES		7	
A 331	1		J6-11 T2-1	102 52				.15 .25	NO YES			
A 332	1		J7-10 T2-2	101 52				.15 .25	NO YES		7	
A 333	1		J6-10 T2-2	102 52				.15 .25	NO YES			
A 334	1		J7-23 T3-1	101 51				.15 .25	NO YES		7	
A 335	1		J6-23 T3-1	102 51				.15 .25	NO YES			
A 336	1		J7-43 T3-2	101 51				.15 .25	NO YES		7	

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR E		SHEET 34 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 337	1		J6-43	102				.15	NO			
			T3-2	51				.25	YES			
A 338	1		T1-3	53				.25	YES		7	
			A7-43	6				.25	YES			
A 339	1		T2-3	52				.25	YES		7	
			A6-43	5				.25	YES			
A 340	1		T3-3	51				.25	YES		7	
			A5-43	4				.25	YES			
A 341	1		A7-4	6				.25	YES			
			A6-4	5				.25	YES			
A 342	1		A6-4	5				.25	YES			
			A5-4	4				.25	YES			
A 343	1		A7-1	6				.25	YES			
			A6-1	5				.25	YES			
A 344	1		A6-1	5				.25	YES			
			A5-1	4				.25	YES			
A 345	1		A7-21	6				.25	YES			CHANNEL B
			J1-77	87				.15	NO			
A 346	1		A7-13	6				.25	YES			CHANNEL B
			J1-76	87				.15	NO			
A 347	1		A6-21	5				.25	YES			CHANNEL B
			J1-52	87				.15	NO			
A 348	1		A6-13	5				.25	YES			CHANNEL B
			J1-51	87				.15	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 35 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 349	1		A5-21	4				.25	YES			CHANNEL B
			J1-30	87				.15	NO			
A 350	1		A5-13	4				.25	YES			CHANNEL B
			J1-29	87				.15	NO			
A 351	1		A45-40	39				.25	YES			CHANNEL B
			J2-66	99				.15	NO			
A 352	1		A45-32	39				.25	YES			CHANNEL B
			J2-42	99				.15	NO			
A 353	1		A45-17	39				.25	YES			CHANNEL B
			J2-43	99				.15	NO			
A 354	1		A45-15	39				.25	YES			CHANNEL B
			J2-23	99				.15	NO			
A 355	1		A46-40	40				.25	YES			CHANNEL B
			J2-68	99				.15	NO			
A 356	1		A46-32	40				.25	YES			CHANNEL B
			J2-67	99				.15	NO			
A 357	1		A46-17	40				.25	YES			CHANNEL B
			J2-69	99				.15	NO			
A 358	1		A46-15	40				.25	YES			CHANNEL B
			J2-45	99				.15	NO			
A 359	1		A3-40	2				.25	YES			CHANNEL B
			J2-25	99				.15	NO			
A 360	1		A3-32	2				.25	YES			CHANNEL B
			J2-11	99				.15	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 36 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 361	1		A3-17	2				.25	YES			CHANNEL B
			J2-70	99				.15	NO			
A 362	1		A3-15	2				.25	YES			CHANNEL B
			J2-46	99				.15	NO			
A 363	1		A4-40	3				.25	YES			CHANNEL B
			J2-47	99				.15	NO			
A 364	1		A4-32	3				.25	YES			CHANNEL B
			J2-27	99				.15	NO			
A 365	1		A4-17	3				.25	YES			CHANNEL B
			J2-71	99				.15	NO			
A 366	1		A4-15	3				.25	YES			CHANNEL B
			J2-72	99				.15	NO			
A 367	1		J7-14	101				.15	NO			
			A45-19	39				.25	YES			
A 368	1		J6-14	102				.15	NO			
			A45-19	39				.25	YES			
A 369	1		J7-3	101				.15	NO			
			A45-1	39				.25	YES			
A 370	1		J6-3	102				.15	NO			
			A45-1	39				.25	YES			
A 371	1		J7-5	101				.15	NO			
			A46-19	40				.25	YES			
A 372	1		J6-5	102				.15	NO			
			A46-19	40				.25	YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 37 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 373	1		J7-1	101				.15	NO			
			A46-1	40				.25	YES			
A 374	1		J6-1	102				.15	NO			
			A46-1	40				.25	YES			
A 375	1		J7-15	101				.15	NO			
			A3-19	2				.25	YES			
A 376	1		J6-15	102				.15	NO			
			A3-19	2				.25	YES			
A 377	1		J7-4	101				.15	NO			
			A3-1	2				.25	YES			
A 378	1		J6-4	102				.15	NO			
			A3-1	2				.25	YES			
A 379	1		J7-13	101				.15	NO			
			A4-19	3				.25	YES			
A 380	1		J6-13	102				.15	NO			
			A4-19	3				.25	YES			
A 381	1		J7-12	101				.15	NO			
			A4-1	3				.25	YES			
A 382	1		J6-12	102				.15	NO			
			A4-1	3				.25	YES			
A 383	1		T1-4	53				.25	YES		7	
			E24-BB	123				.26	NO			
A 384	1		T2-4	52				.25	YES		7	
			E24-BB	123				.26	NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 38 OF 55

MIL 2084 9-65

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	1		T3-4 E24-BB	51 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 E24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 E24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 E24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 E24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 E24-B	3 123				.25 .29	YES NO			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 39 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 E41	86 68				.15 .25	NO YES			
A 400	1		J5-30 E41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401R			E41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 E43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 6	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404R			E43 A40-43	70 30				.25 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 40 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 E42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		E42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 10	
A 410A	1		SHLD OFA410 E51-B	 78				.25 .27	NO NO			
A 410L			E45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

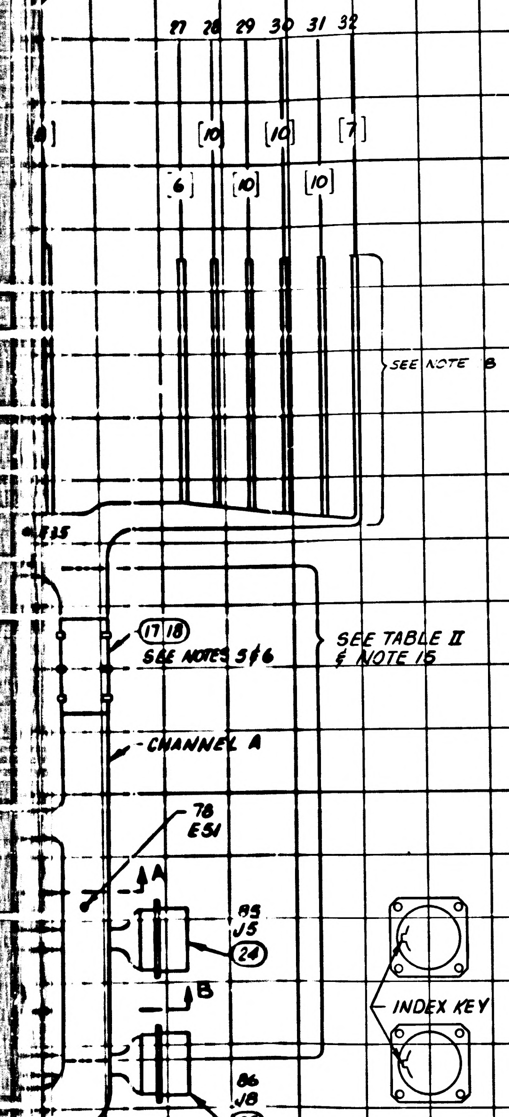
SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 41 OF 55

WIRING HARNESS A 2901144 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			E44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		E46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				B,6B A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			E48 A32-31	75 25				.25 .25	NO YES			

SIZE	CODE IDENT NO.		
A	~~80230~~ 99974	2901144	
SCALE-NONE	REV LTR	E	SHEET 42 OF 55

REVISIONS
SEE SHEET I FOR REVISION RECORD


27 28 29 30 31 32
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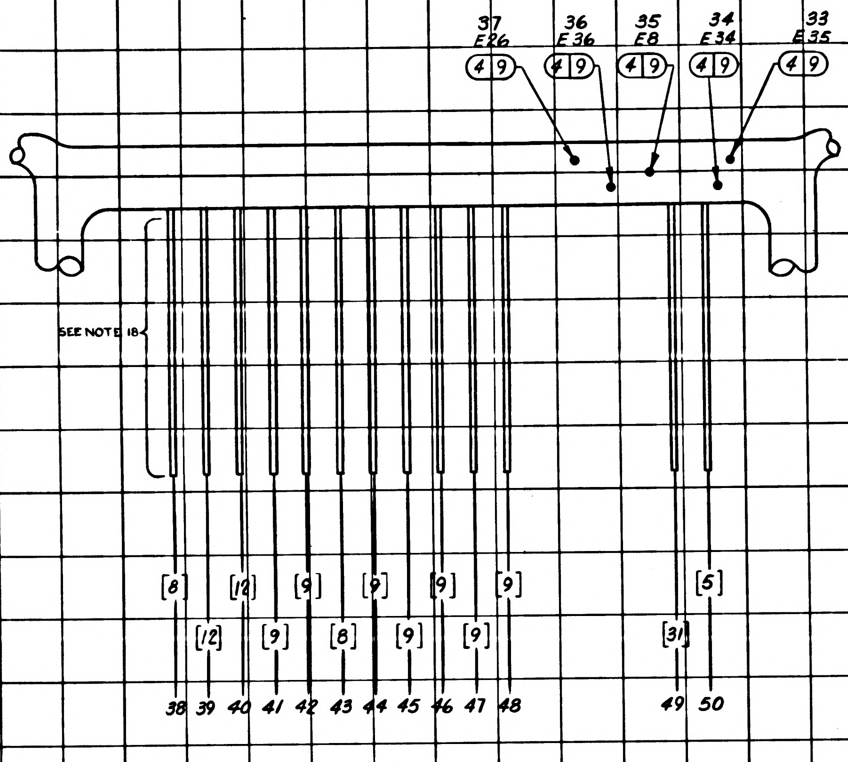
[6] [10] [10]
SEE NOTE 8
E35
(17)(18)
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL A
78
E51
A
85
J5
(24)
B
86
J8
(22)
INDEX KEY


37 E26
36 E36
35 E8
34 E34
33 E35
4 9
SEE NOTE 18
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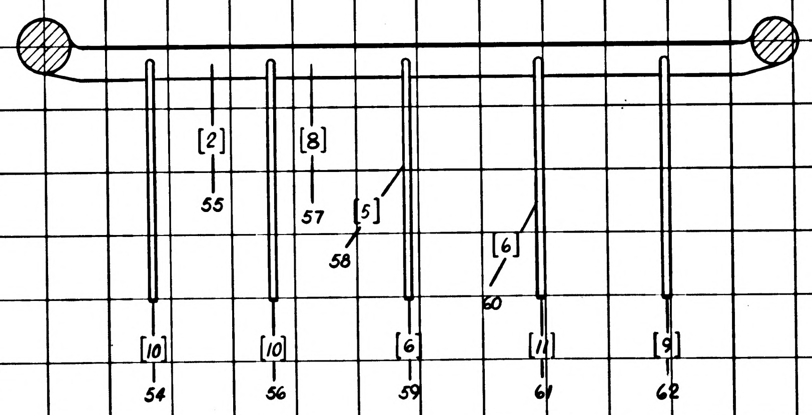
[31] [5]
38 39 40 41 42 43 44 45 46 47 48
49 50

DETAIL A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55
[8]
57
[5]
58
[6]
60
[10] [10] [6] [11] [9]
54 56 59 61 62

SECTION A-A

TABLE II

TERM NO	REF DES	ITEM NO
63	E6	5, 6
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
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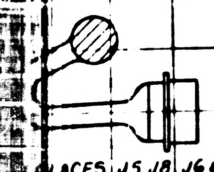
83	E56	5, 6
84	E63	5, 6


PLACES J5, J8, J6 & J7

SECTION B-B

2901144

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN J Wolski DATE 5 APR 66
CHECKED W. Tuhl 12 APR 66
APPROVAL J. Mitt 13 APR 66
APPROVAL L. Yedmen 5-9-66
NASA APPROVAL
MIT APPROVAL 5-10-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

CODE IDENT NO 99974
SIZE J2
2901144
SCALE FULL
SHEET 55 OF 55

2/29011 44

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER MXC 211361	20 APR 66	JJJ CP
C	REVISED PER MXC 211576	26 APR 66	B.
D	REVISED PER MXC 211815	28 APR 66	RWH
E	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	B. CF
F	REVISED PER TDRR 29637.	8 JULY 66	JAC
G	REVISED PER TDRR 30350	17AUG 66	JJB JI
H	REVISED PER TDRR 30488	23 AUG 66	mgm
J	REVISED PER TDRR 30963	19 SEP 66	
K	REVISED PER TDRR 31336.	22 OCT 66	N.W.

REV		K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K
SHEET		22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
REV STATUS OF SHEETS	REV			K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Jelolski 17 JAN 66
DAY MO YR
CHECKER 14 APR 66
ENGINEER 14 Apr 66
APPROVAL 5/5/66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A

SIZE A | CODE IDENT. NO 99974 | 2901144
SCALE NONE | SHEET 1 OF 57

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	K																
49	K																
50	K																
51	K																
52	K																
53	K																
54	K																
55	K																
56	K																
57	K																

SIZE A | CODE IDENT. NO. 99974 | 2901144
SCALE NONE | REV LTR K | SHEET 2

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002032 B - ND1002071
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE PER ND1002032.
4	SOLDER PER ND1002071 USING ITEM 27 OR ITEMS 28 AND 29.
5	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
6	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 17.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
9	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
10	COVER FULL LENGTH OF CONDUCTOR WITH ITEM 15 TO WITHIN 2 INCHES OF EACH END.
11	SPOT TIE AS REQUIRED USING ITEM 17.
12	ITEMS 30 AND 31 SUPPLIED WITH ITEMS 19 THRU 25.
13	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 3 OF

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
14	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
15	F POINTS MAY BE IN RANDOM ORDER EXCEPT THOSE INDICATED. STAGGER TO PROVIDE MINIMUM BUNDLE SIZE.
16	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
17	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
18	SPOT TIE AREA SHOWN OF BREAKOUTS 1 THRU 32 AND 38 THRU 50 USING ITEM 32.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 4 OF

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901144-001	WIRE, ND1002181, TYPE I, CLASS 1, 24AWG, WHT. TOTAL LENGTH
	2	1	2901144-002	WIRE, ND1002181, TYPE II, CLASS 4, 24AWG. WHT/BLU, WHT/RED TOTAL LENGTH
	3	1	2901144-003	WIRE, ND1002181, TYPE I, CLASS 4, 24AWG. WHT, WHT JKT, TOTAL LENGTH
9	4	17	1016006-001	SPLICE REDUCER
9	5	56	1010763-001	SOLDER SLEEVE
9	6	58	1010490-118	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	7	53	1015864-109	INSULATION SLEEVING, ELECTRICAL
9	8	6	1015864-082	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	9	17	1010490-198	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	10	10	1010490-228	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	11	5	1010763-002	SOLDER SLEEVE
9	12	1	1016006-002	SPLICE REDUCER
9	13	2	1015864-105	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	14	1	1010490-258	INSULATION SLEEVING, ELECTRICAL HEAT SHRINK
9	15	AR	1016197-002	TUBING, SHRINKFIT
9	16	1	1015902- 45	TERMINAL LUG
	17	200	1897406-005	STRAP, CABLE, ADJUSTING

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 5 OF

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	18	1	1016128-001	BAND, IDENTIFICATION
9	19	1	1897247-002	CONNECTOR, RECEPTACLE
9	20	1	1897247-003	CONNECTOR, RECEPTACLE
9	21	1	1897247-006	CONNECTOR, RECEPTACLE
9	22	1	1897247-007	CONNECTOR, RECEPTACLE
9	23	1	1897252-106	CONNECTOR, RECEPTACLE
9	24	1	1897252-107	CONNECTOR, RECEPTACLE
9	25	1	1897252-109	CONNECTOR, RECEPTACLE
	26	1	MS3102R14S-7S(C)	(1896916-107) CONNECTOR, RECEPTACLE
	27	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
12	30		1897190- 1	CONTACT PINS
12	31		1897190- 2	CONTACT SOCKETS
	32	AR	MIL-T-713	LACING TAPE, CLASS II TYPE P, WAXED, BLACK.
9	33	12	1010490-114	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 6 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J6-57 XF1-2	102 57				.15 .25	NO YES		 13	
A 2	1		J6-58 XF1-2	102 57				.15 .25	NO YES			
A 3	1		J6-59 XF1-2	102 57				.15 .25	NO YES			
A 4	1		J7-57 E7-B	101 109				.15 .27	NO NO			
A 5	1		J7-58 E7-B	101 109				.15 .27	NO NO			
A 6	1		J7-59 E7-B	101 109				.15 .27	NO NO			
A 7	1		S1-2 E7-BB	58 109				.25 .27	YES NO		7	
A 8	1		XF1-1 E7-BB	57 109				.25 .27	YES NO		13	
A 9	1		J7-19 E2	101 105				.15 .25	NO NO			
A 10	1		J6-19 E2	102 105				.15 .25	NO NO			
A 11	1		K9-3 E2	54 105				.25 .25	YES NO		7	
A 12	1		K9-3 S2-3	54 60				.25 .25	YES YES		 8	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 7 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J7-60 E3	101 106				.15 .25	NO NO			
A 14	1		J6-60 E3	102 106				.15 .25	NO NO			
A 15	1		K10-3 S2-4	54 60				.25 .25	YES YES		7 8	
A 16	1		E3 K10-3	106 54				.25 .25	NO YES			
A 17	1		J6-38 E4	102 107				.15 .25	NO NO			
A 18	1		J7-38 E4	101 107				.15 .25	NO NO			
A 19	1		E4 K8-3	107 56				.25 .25	NO YES		 7	
A 20	1		K8-3 S2-2	56 60				.25 .25	YES YES		 8	
A 21	1		J6-61 E5-B	102 108				.15 .27	NO NO			
A 22	1		J6-37 E5-B	102 108				.15 .27	NO NO			
A 23	1		J6-20 E5-B	102 108				.15 .27	NO NO			
A 24	1		J7-61 E5-B	101 108				.15 .27	NO NO			

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 8 OF

CYZMOURE 102666 WIRING HARNESS A .2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J7-37 E5-B	101 108				.15 .27	NO NO			
A 26	1		J7-20 E5-B	101 108				.15 .27	NO NO			
A 27	1		E5-BB J8-57	108 86				.27 .15	NO NO			
A 28	1		E5-BB J5-57	108 85				.27 .15	NO NO			
A 29	1		E5-BB A59-4	108 49				.27 .25	NO YES			
A 30			DELETED									
A 31			DELETED									
A 32			DELETED									
A 33	1		K10-8 K9-2	54 54				.25 .25	YES YES		7 7	
A 34	1		K9-8 K8-2	54 56				.25 .25	YES YES		7 7	
A 35	1		K8-8 K7-2	56 56				.25 .25	YES YES		7 7	
A 36	1		K7-8 S2-5	56 60				.25 .25	YES YES		7 8	

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 9 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S2-1 K7-3	60 56				.25 .25	YES YES		8 7	
A 38	1		K7-3 A59-2	56 49				.25 .25	YES YES			
A 39	1		A59-2 A2-22	49 1				.25 .25	YES YES			
A 40	1		J3-5 TB1-7	95 54				.15 .25	NO YES			
A 41	1		J3-30 TB1-8	95 54				.15 .25	NO YES			
A 42	1		J3-14 TB1-10	95 54				.15 .25	NO YES			
A 43	1		J3-28 TB1-12	95 56				.15 .25	NO YES			
A 44	1		J3-6 TB1-14	95 56				.15 .25	NO YES			
A 45	1		S2-C1 A22-1	60 16				.25 .25	YES YES		8	
A 46	1		A20-31 A22-9	14 16				.25 .25	YES YES			
A 47	1		A2-17 E5-8	1 108				.25 .27	YES NO			
A 48	1		A60-21 A22-15	50 16				.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	99974	2901144	
SCALE-NONE	REV LTR	K	SHEET 10 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		A22-9	16				.25	YES			
			A59-4	49				.25	YES			
A 50	1		A60-7	50				.25	YES			
			A22-17	16				.25	YES			
A 51	1		J4-A	90				.15	NO			
			A60-3	50				.25	YES			
A 52	1		J4-B	90				.15	NO			
			A60-1	50				.25	YES			
A 53	1		J4-C	90				.15	NO			
			E1	93				.15	NO			
A 54	1		S1-3	58				.25	YES		7	
			E8-BB	35				.27	NO			
A 55	2				2.30	2.00				8,6B	10, 11	
					4.00	4.00				A,7	10	
A 55A	1		SHLD OF A55					.15	NO			
			E11-8	112				.27	NO			
A 55L			A2-78	1				.25	YES			
			E10	111				.25	NO			
A 55R			A2-75	1				.25	YES			
			E9	110				.25	NO			
A 56	1		E9	110				.25	NO			
			J7-45	101				.15	NO			
A 57	1		E9	110				.25	NO			
			J6-45	102				.15	NO			

SIZE A | CODE IDENT NO. 99974 | 2901144
SCALE-NONE | REV LTR K | SHEET 11 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	1		E10	111				.25	NO			
			J6-46	102				.15	NO			
A 59	1		E10	111				.25	NO			
			J7-46	101				.15	NO			
A 60	1		E11-BB	112				.27	NO			
			J6-25	102				.15	NO			
A 61	1		E11-BB	112				.27	NO			
			J7-25	101				.15	NO			
A 62	1		E11-B	112				.27	NO			
			E1	93				.15	NO			
A 63	1		J1-32	87				.15	NO			CHANNEL B
			A2-3	1				.25	YES			
A 64	1		J1-15	87				.15	NO			CHANNEL B
			A2-14	1				.25	YES			
A 65	1		J3-8	95				.15	NO			
			K6-4	59				.25	YES		7	
A 66	1		J3-22	95				.15	NO			
			K6-8	59				.25	YES		7	
A 67	1		K6-7	59				.25	YES		7	
			E12	113				.25	NO			
A 68	1		J6-42	102				.15	NO			
			E12	113				.25	NO			
A 69	1		J7-42	101				.15	NO			
			E12	113				.25	NO			

SIZE A | CODE IDENT NO. 99974 | 2901144
SCALE-NONE | REV LTR K | SHEET 12 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 70	1		S3-3	58				.25	YES		7	
			E13	114				.25	NO			
A 71	1		J6-39	102				.15	NO			
			E13	114				.25	NO			
A 72	1		J7-39	101				.15	NO			
			E13	114				.25	NO			
A 73	1		S3-2	58				.25	YES		7	
			K5-3	59				.25	YES		7	
A 74	1		K4-7	61				.25	YES		7	
			J7-21	101				.15	NO			
A 75	1		K4-7	61				.25	YES			
			J6-21	102				.15	NO			
A 76	1		K4-3	61				.25	YES		7	
			J7-40	101				.15	NO			
A 77	1		K4-3	61				.25	YES			
			J6-40	102				.15	NO			
A 78	1		E22	121				.25	NO			
			J7-48	101				.15	NO			
A 79	1		E26-BB	37				.27	NO			
			J5-14	85				.15	NO			
A 80	1		J3-19	95				.15	NO			
			TB1-16	59				.25	YES			
A 81	1		J3-20	95				.15	NO			
			K4-4	61				.25	YES		7	

SIZE A | CODE IDENT NO. 99974 | 2901144
SCALE-NONE | REV LTR K | SHEET 13 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	1		J3-39	95				.15	NO			
			K4-8	61				.25	YES		7	
A 84	1		J3-32	95				.15	NO			
			K3-5	61				.25	YES		7	
A 85	1		J3-16	95				.15	NO			
			K2-5	62				.25	YES		7	
A 86	1		J3-34	95				.15	NO			
			K1-5	62				.25	YES		7	
A 87	1		A59-13	49				.25	YES			
			K2-8	62				.25	YES		7	
A 88	1		A59-20	49				.25	YES			
			K3-8	61				.25	YES		7	
A 89	1		S6-2	55				.25	YES		7	
			K3-2	61				.25	YES		7	
A 90	1		S6-1	55				.25	YES		7	
			K3-3	61				.25	YES		7	
A 91	1		K3-3	61				.25	YES			
			E16	115				.25	NO			
A 92	1		E16	115				.25	NO			
			J6-18	102				.15	NO			
A 93	1		E16	115				.25	NO			
			J7-18	101				.15	NO			
A 94	1		S5-2	57				.25	YES		7	
			K2-2	62				.25	YES		7	

SIZE A | CODE IDENT NO. 99974 | 2901144
SCALE-NONE | REV LTR K | SHEET 14 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	1		S5-1	57				.25	YES		7	
			K2-3	62				.25	YES		7	
A 96	1		K2-3	62				.25	YES			
			E17	116				.25	NO			
A 97	1		E17	116				.25	NO			
			J6-6	102				.15	NO			
A 98	1		E17	116				.25	NO			
			J7-6	101				.15	NO			
A 99	1		S4-2	57				.25	YES		7	
			K1-2	62				.25	YES		7	
A 100	1		S4-1	57				.25	YES		7	
			K1-3	62				.25	YES		7	
A 101	1		K1-3	62				.25	YES			
			E18	117				.25	NO			
A 102	1		J7-7	101				.15	NO			
			E18	117				.25	NO			
A 103	1		J6-7	102				.15	NO			
			E18	117				.25	NO			
A 104	1		A59-14	49				.25	YES			
			E26-B	37				.27	NO			
A 105	1		A47-37	41				.25	YES			
			E26-B	37				.27	NO			
A 106	1		A48-37	42				.25	YES			
			E26-B	37				.27	NO			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 15 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 107	1		A51-37	45				.25	YES			
			E26-B	37				.27	NO			
A 108	1		A52-37	46				.25	YES			
			E26-B	37				.27	NO			
A 109	1		A53-37	47				.25	YES			
			E26-B	37				.27	NO			
A 110	1		E26-BB	37				.27	NO			
			J8-14	86				.15	NO			
A 111	1		A47-3	41				.25	YES			SEE NOTE 10.
			E19	118				.25	NO			
A 112	1		E19	118				.25	NO			
			J6-22	102				.15	NO			
A 113	1		E19	118				.25	NO			
			J7-22	101				.15	NO			
A 114	1		A48-3	42				.25	YES			SEE NOTE 10
			E20	119				.25	NO			
A 115	1		E20	119				.25	NO			
			J6-9	102				.15	NO			
A 116	1		E20	119				.25	NO			
			J7-9	101				.15	NO			
A 117	1		A49-3	43				.25	YES			SEE NOTE 10
			E21	120				.25	NO			
A 118	1		E21	120				.25	NO			SEE NOTE 10
			J6-47	102				.15	NO			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 16 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 119	1		E21	120				.25	NO			SEE NOTE 10
			J7-47	101				.15	NO			
A 120	1		A49-37	43				.25	YES			
			E22	121				.25	NO			
A 121	1		E22	121				.25	NO			
			J6-48	102				.15	NO			
A 122	1		A50-3	44				.25	YES			SEE NOTE 10
			E23	122				.25	NO			
A 123	1		E23	122				.25	NO			SEE NOTE 10
			J7-26	101				.15	NO			
A 124	1		E23	122				.25	NO			SEE NOTE 10
			J6-26	102				.15	NO			
A 125	1		A50-37	44				.25	YES			
			E24-B					.27	NO			
A 126	1		E24-BB	123				.27	NO			
			J6-27	102				.15	NO			
A 127	1		E24-BB	123				.27	NO			
			J7-27	101				.15	NO			
A 128	1		A51-3	45				.25	YES			SEE NOTE 10
			E25	64				.25	NO			
A 129	1		E25	64				.25	NO			SEE NOTE 10
			J8-15	86				.15	NO			
A 130	1		E25	64				.25	NO			SEE NOTE 10
			J5-15	85				.15	NO			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 17 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 131	1		A52-3	46				.25	YES			SEE NOTE 10
			E27	65				.25	NO			
A 132	1		J8-5	86				.15	NO			SEE NOTE 10.
			E27	65				.25	NO			
A 133	1		J5-5	85				.15	NO			SEE NOTE 10
			E27	65				.25	NO			
A 134	1		E28	124				.25	NO			SEE NOTE 10
			A53-3	47				.25	YES			
A 135	1		E28	124				.25	NO			
			J7-41	101				.15	NO			
A 136	1		E28	124				.25	NO			
			J6-41	102				.15	NO			
A 137	1		A54-3	48				.25	YES			SEE NOTE 10
			E29	66				.25	NO			
A 138	1		J8-6	86				.15	NO			SEE NOTE 10
			E29	66				.25	NO			
A 139	1		J5-6	85				.15	NO			SEE NOTE 10
			E29	66				.25	NO			
A 140	1		E30	67				.25	NO			
			A54-37	48				.25	YES			
A 141	1		E30	67				.25	NO			
			J5-16	85				.15	NO			
A 142	1		E30	67				.25	NO			
			J8-16	86				.15	NO			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 18 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 143	1		A47-4 J1-85	41 87				.25 .15	YES NO			CHANNEL A
A 144	1		A47-4 J1-84	41 87				.25 .15	YES NO			CHANNEL A
A 145	1		A48-4 J1-82	42 87				.25 .15	YES NO			CHANNEL A
A 146	1		A48-4 J1-83	42 87				.25 .15	YES NO			
A 147	1		A47-42 J1-60	41 87				.25 .15	YES NO			CHANNEL A
A 148	1		A47-17 J2-85	41 99				.25 .15	YES NO			CHANNEL B
A 149	1		A47-21 J2-61	41 99				.25 .15	YES NO			CHANNEL B
A 150	1		A48-42 J1-59	42 87				.25 .15	YES NO			
A 151	1		A48-17 J2-84	42 99				.25 .15	YES NO			CHANNEL B
A 152	1		A48-21 J2-60	42 99				.25 .15	YES NO			CHANNEL B
A 153	1		A49-4 J1-62	43 87				.25 .15	YES NO			CHANNEL A
A 154	1		A49-42 J1-63	43 87				.25 .15	YES NO			CHANNEL A

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 19 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 155	1		A49-17 J2-83	43 99				.25 .15	YES NO			CHANNEL B
A 156	1		A49-21 J2-59	43 99				.25 .15	YES NO			CHANNEL B
A 157	1		A50-4 J1-36	44 87				.25 .15	YES NO			CHANNEL A
A 158	1		A50-4 J1-59	44 87				.25 .15	YES NO			CHANNEL A
A 159	1		A50-42 J1-35	44 87				.25 .15	YES NO			CHANNEL A
A 160	1		A50-17 J2-82	44 99				.25 .15	YES NO			CHANNEL B
A 161	1		A50-21 J2-58	44 99				.25 .15	YES NO			CHANNEL B
A 162	1		A51-4 J1-56	45 97				.25 .15	YES NO			CHANNEL A
A 163	1		A51-4 J1-57	45 87				.25 .15	YES NO			CHANNEL A
A 164	1		A51-42 J1-34	45 87				.25 .15	YES NO			CHANNEL A
A 165	1		A51-17 J2-38	45 99				.25 .15	YES NO			CHANNEL B
A 166	1		A51-21 J2-39	45 99				.25 .15	YES NO			CHANNEL B

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 20 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 167	1		A52-4 J1-16	46 87				.25 .15	YES NO			CHANNEL A
A 168	1		A52-4 J1-33	46 87				.25 .15	YES NO			CHANNEL A
A 169	1		A52-42 J1-17	46 87				.25 .15	YES NO			CHANNEL A
A 170	1		A52-17 J2-37	46 99				.25 .15	YES NO			CHANNEL B
A 172	1		A52-21 J2-20	46 99				.25 .15	YES NO			CHANNEL B
A 173	1		A53-4 J1-6	47 87				.25 .15	YES NO			CHANNEL A
A 174	1		A53-4 J1-18	47 87				.25 .15	YES NO			CHANNEL A
A 175	1		A53-42 J1-7	47 87				.25 .15	YES NO			CHANNEL A
A 176	1		A53-17 J2-36	47 99				.25 .15	YES NO			CHANNEL B
A 177	1		A53-21 J2-19	47 99				.25 .15	YES NO			CHANNEL B
A 178	1		A54-4 J1-19	48 87				.25 .15	YES NO			CHANNEL A
A 179	1		A54-4 J1-20	48 87				.25 .15	YES NO			CHANNEL A

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 21 OF	

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 180	1		A54-42 J1-8	48 87				.25 .15	YES NO			CHANNEL A
A 182	1		A54-17 J2-35	48 99				.25 .15	YES NO			CHANNEL B
A 183	1		A54-21 J2-18	48 99				.25 .15	YES NO			CHANNEL B
A 184	1		J7-16 F14	101 97				.15 .25	NO NO			
A 185	1		J6-16 E14	102 97				.15 .25	NO NO			
A 186	1		J1-79 F14	87 97				.15 .25	NO NO			
A 187	1		J6-33 E15	102 96				.15 .25	NO NO			
A 188	1		J7-33 E15	101 96				.15 .25	NO NO			
A 189	1		J1-55 E15	87 96				.15 .25	NO NO			
A 190	1		J1-38 E31-8	87 98				.15 .27	NO NO			
A 191	1		J1-61 E31-9	87 98				.15 .27	NO NO			
A 192	1		J7-31 E31-8	101 98				.15 .27	NO NO			

SIZE A	CODE IDENT NO. 99974	2901144	
SCALE-NONE	REV LTR K	SHEET 22 OF	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		J6-31 E31-BB	102 98				.15 .27	NO NO			
A 194	1		J6-53 E32-BB	102 100				.15 .27	NO NO			
A 195	1		J7-53 E32-B	101 100				.15 .27	NO NO			
A 196	1		J1-37 E32-B	87 100				.15 .27	NO NO			
A 197	1		J1-39 E32-B	87 100				.15 .27	NO NO			
A 198	1		J7-52 E33	101 94				.15 .25	NO NO			
A 199	1		J6-52 E33	102 94				.15 .25	NO NO			
A 200	1		J1-64 E33	87 94				.15 .25	NO NO			
A 201	1		J8-18 A59-5	86 49				.15 .25	NO YES			
A 202	1		J5-18 A59-5	85 49				.15 .25	NO YES			
A 203	1		A59-6 A22-19	49 16				.25 .25	YES YES			
A 204	1		J5-7 E34-B	85 34				.15 .27	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 23 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		J8-7 E34-B	86 34				.15 .27	NO NO			
A 206	1		J2-50 E34-B	99 34				.15 .27	NO NO			
A 207	1		A59-8 E34-BB	49 34				.25 .27	YES NO			
A 208	1		A59-12 E34-BB	49 34				.25 .27	YES NO			
A 209	1		J5-17 A59-9	85 49				.15 .25	NO YES			
A 210	1		J8-17 A59-9	86 49				.15 .25	NO YES			
A 211	1		A59-9 A22-31	49 16				.25 .25	YES YES			
A 212	1		A59-10 A21-1	49 15				.25 .25	YES YES			
A 213	1		A59-12 A21-9	49 15				.25 .25	YES YES			
A 214	1		J8-58 A59-28	86 49				.15 .25	NO YES			
A 215	1		J5-58 A59-28	85 49				.15 .25	NO YES			
A 216	1		A59-18 A21-19	49 15				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 24 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		J5-34 E35-BB	85 33				.15 .27	NO NO			
A 218	1		J8-34 E35-BB	86 33				.15 .27	NO NO			
A 219	1		A59-27 E35-B	49 33				.25 .27	YES NO			
A 220	1		A59-25 E35-B	49 33				.25 .27	YES NO			
A 221	1		A21-31 E35-B	15 33				.25 .27	YES NO			
A 222	1		A20-9 E35-B	14 33				.25 .27	YES NO			
A 223	1		J8-35 A59-26	86 49				.15 .25	NO YES			
A 224	1		J5-35 A59-26	85 49				.15 .25	NO YES			
A 225	1		A59-17 A20-1	49 14				.25 .25	YES YES			
A 226	1		J8-59 A59-24	86 49				.15 .25	NO YES			
A 227	1		J5-59 A59-24	85 49				.15 .25	NO YES			
A 228	1		A59-16 A11-1	49 9				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 25 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		J5-60 A11-6	85 9				.15 .25	NO YES			
A 230	1		J8-60 A11-6	86 9				.15 .25	NO YES			
A 231	1		J2-81 A22-40	99 16				.15 .25	NO YES			CHANNEL B
A 232	1		A22-40 A8-43	16 7				.25 .25	YES YES			
A 233	1		A22-32 J2-80	16 99				.25 .15	YES NO			CHANNEL B
A 234	1		A22-31 A8-24	16 7				.25 .25	YES YES			
A 235	1		A21-17 J2-55	15 99				.25 .15	YES NO			CHANNEL B
A 236	1		A21-17 A11-33	15 9				.25 .25	YES YES			
A 237	1		J2-32 A21-15	99 15				.15 .25	NO YES			CHANNEL B
A 238	1		A21-15 A11-22	15 9				.25 .25	YES YES			
A 239	1		A11-31 A8-4	9 7				.25 .25	YES YES			
A 240	1		A11-28 A8-1	9 7				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 26 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		A44-14 A9-43	38 8				.25 .25	YES YES			
A 242	1		A44-16 A9-24	38 8				.25 .25	YES YES			
A 243	1		J2-78 A21-40	99 15				.15 .25	NO YES			CHANNEL B
A 244	1		A21-40 A33-1	15 26				.25 .25	YES YES			
A 245	1		A33-1 A44-17	26 38				.25 .25	YES YES			
A 246	1		J2-53 A21-32	99 15				.15 .25	NO YES			CHANNEL B
A 247	1		A33-6 A21-31	26 15				.25 .25	YES YES			
A 248	1		A33-6 A44-16	26 38				.25 .25	YES YES			
A 249	1		J2-52 A20-17	99 14				.15 .25	NO YES			CHANNEL B
A 250	1		J2-31 A20-15	99 14				.15 .25	NO YES			CHANNEL B
A 251	1		J1-31 A9-21	87 8				.15 .25	NO YES			CHANNEL B
A 252	1		J1-53 A9-13	87 8				.15 .25	NO YES			CHANNEL B

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 27 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		A8-21 J1-78	7 87				.25 .15	YES NO			CHANNEL B
A 254	1		A8-13 J1-54	7 87				.25 .15	YES NO			CHANNEL B
A 255	1		A11-18 A9-4	9 8				.25 .25	YES YES			
A 256	1		A11-15 A9-1	9 8				.25 .25	YES YES			
A 257	1		A9-4 A7-4	8 6				.25 .25	YES YES			
A 258	1		A9-1 A7-1	8 6				.25 .25	YES YES			
A 259	1		A19-18 A24-4	13 18				.25 .25	YES YES			
A 260	1		A19-15 A24-1	13 18				.25 .25	YES YES			
A 261	1		A24-4 A25-4	18 19				.25 .25	YES YES			
A 262	1		A25-4 A26-4	19 20				.25 .25	YES YES			
A 263	1		A24-1 A25-1	18 19				.25 .25	YES YES			
A 264	1		A25-1 A26-1	19 20				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 28 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		A19-31 A15-4	13 10				.25 .25	YES YES			
A 266	1		A19-28 A15-1	13 10				.25 .25	YES YES			
A 267	1		J1-26 A26-21	87 20				.15 .25	NO YES			CHANNEL A
A 268	1		J1-46 A26-13	87 20				.15 .25	NO YES			CHANNEL A
A 269	1		J1-25 A25-21	87 19				.15 .25	NO YES			CHANNEL A
A 270	1		J1-45 A25-13	87 19				.15 .25	NO YES			CHANNEL A
A 271	1		J1-70 A24-21	87 18				.15 .25	NO YES			CHANNEL A
A 272	1		J1-71 A24-13	87 18				.15 .25	NO YES			CHANNEL A
A 273	1		J1-65 A15-21	87 10				.15 .25	NO YES			CHANNEL A
A 274	1		J1-40 A15-13	87 10				.15 .25	NO YES			CHANNEL A
A 275	1		A23-17 A26-43	17 20				.25 .25	YES YES			
A 276	1		A23-15 A26-24	17 20				.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 29 OF

FORM 2084 9 69

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		A23-17 A15-43	17 10				.25 .25	YES YES			
A 278	1		A23-32 A25-24	17 19				.25 .25	YES YES			
A 279	1		A23-40 A25-43	17 19				.25 .25	YES YES			
A 280	1		A23-40 A16-43	17 11				.25 .25	YES YES			
A 281	1		A20-40 A19-1	14 13				.25 .25	YES YES			
A 282	1		A20-40 A44-2	14 38				.25 .25	YES YES			
A 283	1		A20-32 A19-6	14 13				.25 .25	YES YES			
A 284	1		A20-31 A44-20	14 38				.25 .25	YES YES			
A 285	1		A44-4 A19-33	38 13				.25 .25	YES YES			
A 286	1		E36-B A24-24	36 18				.27 .25	NO YES			
A 287	1		A27-17 A24-43	21 18				.25 .25	YES YES			
A 288			DELETED									

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 30 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 385	1		T3-4 E24-BB	51 123				.25 .26	YES NO		7	
A 386	1		A7-24 E24-B	6 123				.25 .29	YES NO			
A 387	1		A6-24 E24-B	5 123				.25 .29	YES NO			
A 388	1		A5-24 E24-B	4 123				.25 .29	YES NO			
A 389	1		A45-31 E24-B	39 123				.25 .29	YES NO			
A 390	1		A45-9 E24-B	39 123				.25 .29	YES NO			
A 391	1		A46-31 E24-B	40 123				.25 .29	YES NO			
A 392	1		A46-9 E24-B	40 123				.25 .29	YES NO			
A 393	1		A3-31 E24-B	2 123				.25 .29	YES NO			
A 394	1		A3-9 E24-B	2 123				.25 .29	YES NO			
A 395	1		A4-31 E24-B	3 123				.25 .29	YES NO			
A 396	1		A4-9 E24-B	3 123				.25 .29	YES NO			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 39 OF

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CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 397	1		A39-21 J1-2	29 87				.25 .15	YES NO			CHANNEL A
A 398	1		A39-13 J1-10	29 87				.25 .15	YES NO			CHANNEL A
A 399	1		J8-30 E41	86 68				.15 .25	NO YES			
A 400	1		J5-30 E41	85 68				.15 .25	NO NO			
A 401	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 33	
A 401A	1		SHLD A401 E51-B	 78				.25 .27	NO NO			
A 401R			E41 A39-43	68 29				.25 .25	NO YES			
A 402	1		J8-51 E43	86 70				.15 .25	NO NO			
A 403	1		J5-51 E43	85 70				.15 .25	NO NO			
A 404	3				2.30 8.30	2.00 8.00				B,68 A,7	5, 6 33	
A 404A			SHLD A404 E51-B	 78				.25 .27	NO NO			
A 404R			E43 A40-43	70 30				.25 .25	NO YES			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 40 OF

102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 405	1		J5-40 E42-BB	85 69				.15 .27	NO NO			
A 406	1		J8-40 E42-BB	86 69				.15 .27	NO NO			
A 407	1		A45-38 A46-13	39 40				.25 .25	YES YES			
A 408	1		E42-B A39-24	69 29				.27 .25	NO YES			
A 409	1		E42-B A41-24	69 31				.27 .25	NO YES			
A 410	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 410A	1		SHLD OFA410 E51-B	 78				.25 .27	NO NO			
A 410L			E45 A27-19	72 21				.25 .25	NO YES			
A 410R			E42-B A27-31	69 21				.27 .25	NO YES			
A 411	1		J5-38 E44-BB	85 71				.15 .27	NO NO			
A 412	1		J8-38 E44-BB	86 71				.15 .27	NO NO			
A 413	1		E44-B A40-24	71 30				.27 .25	NO YES			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 41 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 414	1		E44-B A42-24	71 32				.27 .25	NO YES			
A 415	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 415A	1		SHLD A415 E51-B	 78				.25 .27	NO NO			
A 415L			E44-B A32-9	71 25				.27 .25	NO YES			
A 415R			E46 A32-1	73 25				.25 .25	NO YES			
A 416	1		E45 J8-39	72 86				.25 .15	NO NO			
A 417	1		E45 J5-39	72 85				.25 .15	NO NO			
A 418	1		E46 J8-61	73 86				.25 .15	NO NO			
A 419	1		E46 J5-61	73 85				.25 .15	NO NO			
A 420	2				2.30 8.30	2.00 8.00				B,68 A,7	10, 11 10	
A 420A	1		SHLD A420 E51-B	 78				.25 .27	NO NO			
A 420L			E48 A32-31	75 25				.25 .25	NO YES			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 42 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 420R			E47 A32-19	74 25				.25 .25	NO YES			
A 421	1		E47 J8-44	74 86				.25 .15	NO NO			
A 422	1		E47 J5-44	74 95				.25 .15	NO NO			
A 423	1		E48 J5-45	75 85				.25 .15	NO NO			
A 424	1		E48 J8-45	75 86				.25 .15	NO NO			
A 425	2				2.30 8.30	2.00 8.00				8,68 A,7	10, 11 10	
A 425A	1		SHLD A425 E51-8	 78				.25 .27	NO NO			
A 425L			E50 A37-9	77 27				.25 .25	NO YES			
A 425R			E49 A37-1	76 27				.25 .25	NO YES			
A 426	1		E49 J5-47	76 85				.25 .15	NO NO			
A 427	1		E49 J8-47	76 86				.25 .15	NO NO			
A 428	1		E50 J5-46	77 85				.25 .15	NO NO			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 43 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 429	1		E50 J8-46	77 86				.25 .15	NO NO			
A 430	1		E52 J5-31	79 85				.25 .15	NO NO			
A 431	1		E52 J8-31	79 86				.25 .15	NO NO			
A 432	1		E52 A41-43	79 31				.25 .25	NO YES			
A 433	1		E51-88 J8-26	78 86				.27 .15	NO NO			
A 434	1		E51-88 J5-26	78 85				.27 .15	NO NO			
A 435	1		J5-52 E53	85 80				.15 .25	NO NO			
A 436	1		J8-52 E53	86 80				.15 .25	NO NO			
A 437	1		A42-43 E53	32 80				.25 .25	YES NO			
A 438	1		A40-21 J1-1	30 87				.25 .15	YES NO			CHANNEL A
A 439	1		A40-13 J1-4	30 87				.25 .15	YES NO			CHANNEL A
A 440	1		A31-21 J1-5	24 87				.25 .15	YES NO			CHANNEL A

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 44 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 441	1		A31-13 J1-14	24 87				.25 .15	YES NO			CHANNEL A
A 442	1		A30-21 J1-12	23 87				.25 .15	YES NO			CHANNEL A
A 443	1		A30-13 J1-13	23 87				.25 .15	YES NO			CHANNEL A
A 444	1		A29-21 J1-75	22 87				.25 .15	YES NO			CHANNEL A
A 445	1		A29-13 J1-50	22 87				.25 .15	YES NO			CHANNEL A
A 446	1		A38-21 J1-74	28 87				.25 .15	YES NO			CHANNEL A
A 447	1		A38-13 J1-49	28 87				.25 .15	YES NO			CHANNEL A
A 448	1		A33-18 A29-4	26 22				.25 .25	YES YES			
A 449	1		A29-4 A30-4	22 23				.25 .25	YES YES			
A 450	1		A30-4 A31-4	23 24				.25 .25	YES YES			
A 451	1		A31-4 A38-4	24 28				.25 .25	YES YES			
A 452	1		A38-4 A39-4	28 29				.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901144
SCALE-NONE
REV LTR K
SHEET 45 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 453	1		A39-4 A40-4	29 30				.25 .25	YES YES			
A 454	1		A40-4 A41-4	30 31				.25 .25	YES YES			
A 455	1		A41-4 A42-4	31 32				.25 .25	YES YES			
A 456	1		A33-15 A29-1	26 22				.25 .25	YES YES			
A 457	1		A29-1 A30-1	22 23				.25 .25	YES YES			
A 458	1		A30-1 A31-1	23 24				.25 .25	YES YES			
A 459	1		A31-1 A38-1	24 28				.25 .25	YES YES			
A 460	1		A38-1 A39-1	28 29				.25 .25	YES YES			
A 461	1		A39-1 A40-1	29 30				.25 .25	YES YES			
A 462	1		A40-1 A41-1	30 31				.25 .25	YES YES			
A 463	1		A41-1 A42-1	31 32				.25 .25	YES YES			
A 464	1		A41-21 J1-3	31 87				.25 .15	YES NO			CHANNEL A

SIZE A
CODE IDENT NO 99974
2901144
SCALE-NONE
REV LTR K
SHEET 46 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 465	1		A41-13	31				.25	YES			CHANNEL A
			J1-11	87				.15	NO			
A 466	1		A42-21	32				.25	YES			CHANNEL A
			J1-28	87				.15	NO			
A 467	1		A42-13	32				.25	YES			CHANNEL A
			J1-27	87				.15	NO			
A 468	1		A27-40	21				.25	YES			
			A31-43	24				.25	YES			
A 469	1		A27-32	21				.25	YES			
			A31-24	24				.25	YES			
A 470	1		A32-17	25				.25	YES			
			A30-43	23				.25	YES			
A 471	1		A32-15	25				.25	YES			
			A30-24	23				.25	YES			
A 472	1		A32-40	25				.25	YES			
			A29-43	22				.25	YES			
A 473	1		A32-32	25				.25	YES			
			A29-24	22				.25	YES			
A 474	1		A37-17	27				.25	YES			
			A38-43	28				.25	YES			
A 475	1		A37-15	27				.25	YES			
			A38-24	28				.25	YES			
A 476	1		E26-88	37				.27	NO			
			J2-29	99				.15	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477	1		J8-8	86				.15	NO			
			E54	81				.25	NO			
A 478	1		J5-8	85				.15	NO			
			E54	81				.25	NO			
A 479	1		J1-68	87				.15	NO			
			E54	81				.25	NO			
A 480	1		J8-9	86				.15	NO			
			E55	82				.25	NO			
A 481	1		J5-9	85				.15	NO			
			E55	82				.25	NO			
A 482	1		J1-44	87				.15	NO			
			E55	82				.25	NO			
A 483	1		J5-19	85				.15	NO			
			E56	83				.25	NO			
A 484	1		J8-19	86				.15	NO			
			E56	83				.25	NO			
A 485	1		J2-30	99				.15	NO			
			E56	83				.25	NO			
A 486	1		J6-8	102				.15	NO			
			TB1-1	104				.25	YES			
A 487	1		J7-8	101				.15	NO			
			TB1-1	104				.25	YES			
A 488	1		J2-17	99				.15	NO			
			TB1-2	103				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 489	1		J6-2	102				.15	NO			
			E58	125				.25	NO			
A 490	1		J7-2	101				.15	NO			
			E58	125				.25	NO			
A 491	1		J2-6	99				.15	NO			
			E58	125				.25	NO			
A 492	1		J6-54	102				.15	NO			
			TB1-3	104				.25	YES			
A 493	1		J7-54	101				.15	NO			
			TB1-3	104				.25	YES			
A 494	1		J2-16	99				.15	NO			
			TB1-4	103				.25	YES			
A 495	1		J6-32	102				.15	NO			
			E60	126				.25	NO			
A 496	1		J7-32	101				.15	NO			
			E60	126				.25	NO			
A 497	1		J2-5	99				.15	NO			
			E60	126				.25	NO			
A 498	1		J6-56	102				.15	NO			
			TB1-5	104				.25	YES			
A 499	1		J7-56	101				.15	NO			
			TB1-5	104				.25	YES			
A 500	1		J2-15	99				.15	NO			
			TB1-6	103				.25	YES			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 501	1		J6-55	102				.15	NO			
			E62	127				.25	NO			
A 502	1		J7-55	101				.15	NO			
			E62	127				.25	NO			
A 503	1		J2-14	99				.15	NO			
			E62	127				.25	NO			
A 504	1		J5-36	85				.15	NO			
			E63	84				.25	NO			
A 505	1		J8-36	86				.15	NO			
			E63	84				.25	NO			
A 506	1		J2-51	99				.15	NO			
			E63	84				.25	NO			
A 507	1		E8-B	35				.27	NO			
			A45-13	39				.25	YES			
A 508	1		A46-38	40				.25	YES			
			A3-13	2				.25	YES			
A 509	1		A3-38	2				.25	YES			
			A4-13	3				.25	YES			
A 510	1		A4-38	3				.25	YES			
			A5-23	4				.25	YES			
A 511	1		A5-23	4				.25	YES			
			A6-23	5				.25	YES			
A 512	1		A6-23	5				.25	YES			
			A7-23	6				.25	YES			

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 513	1		A7-23	6				.25	YES			
			A8-23	7				.25	YES			
A 514	1		A8-23	7				.25	YES			
			A9-23	8				.25	YES			
A 515	1		A9-23	8				.25	YES			
			A11-25	9				.25	YES			
A 516	1		E8-B	35				.27	NO			
			A15-23	10				.25	YES			
A 517	1		A15-23	10				.25	YES			
			A16-23	11				.25	YES			
A 518	1		A16-23	11				.25	YES			
			A17-23	12				.25	YES			
A 519	1		A17-23	12				.25	YES			
			A19-25	13				.25	YES			
A 520	1		A19-10	13				.25	YES			
			A20-38	14				.25	YES			
A 521	1		A20-13	14				.25	YES			
			A21-38	15				.25	YES			
A 522	1		A21-13	15				.25	YES			
			A22-38	16				.25	YES			
A 523	1		A22-13	16				.25	YES			
			A23-38	17				.25	YES			
A 524	1		A23-13	17				.25	YES			
			A24-23	18				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 51 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 525	1		A24-23	18				.25	YES			
			A25-23	19				.25	YES			
A 526	1		A25-23	19				.25	YES			
			A26-23	20				.25	YES			
A 527	1		A26-23	20				.25	YES			
			A27-13	21				.25	YES			
A 528	1		E8-B	35				.27	NO			
			A29-23	22				.25	YES			
A 529	1		A29-23	22				.25	YES			
			A30-23	23				.25	YES			
A 530	1		A30-23	23				.25	YES			
			A31-23	24				.25	YES			
A 531	1		A31-23	24				.25	YES			
			A32-38	25				.25	YES			
A 532	1		A32-13	25				.25	YES			
			A33-10	26				.25	YES			
A 533	1		A33-10	26				.25	YES			
			A37-13	27				.25	YES			
A 534	1		A37-13	27				.25	YES			
			A38-23	28				.25	YES			
A 535	1		A38-23	28				.25	YES			
			A39-23	29				.25	YES			
A 536	1		A39-23	29				.25	YES			
			A40-23	30				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 52 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 537	1		A40-23	30				.25	YES			
			A41-23	31				.25	YES			
A 538	1		A41-23	31				.25	YES			
			A42-23	32				.25	YES			
A 540	1		E8-B	35				.27	NO			
			A44-13	38				.25	YES			
A 541	1		E8-B	35				.27	NO			
			A2-81	1				.25	YES			
A 542	1		A2-81	1				.25	YES			
			A47-23	41				.25	YES			
A 543	1		A47-23	41				.25	YES			
			A48-23	42				.25	YES			
A 544	1		A48-23	42				.25	YES			
			A49-23	43				.25	YES			
A 545	1		A49-23	43				.25	YES			
			A50-23	44				.25	YES			
A 546	1		A50-23	44				.25	YES			
			A51-23	45				.25	YES			
A 547	1		A51-23	45				.25	YES			
			A52-23	46				.25	YES			
A 548	1		A52-23	46				.25	YES			
			A53-23	47				.25	YES			
A 549	1		A53-23	47				.25	YES			
			A54-23	48				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 53 OF

CYZMOURE 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 550	1		A54-23	48				.25	YES			
			A59-19	49				.25	YES			
A 551	1		A59-19	49				.25	YES			
			A60-19	50				.25	YES			
A 552	1		J6-50	102				.15	NO			
			E11-8B	112				.27	NO			
A 553	1		J5-50	85				.15	NO			
			E11-B	112				.27	NO			
A 554	1		S1-3	58				.25	YES			
			K5-8	59				.25	YES		7	
A 555	3				1.80	1.50				B,6A	5, 6	
					2.30	2.00				A,7	33	
A 555A	1		SHLD A555					.25	NO			
			E67-B	131				.27	NO			
A 555R			E64	128				.25	NO			
			J5-32	85				.15	NO			
A 556	3				1.80	1.50				B,6A	5, 6	
					2.30	2.00				A,7	33	
A 556A	1		SHLD A556					.25	NO			
			E67-B	131				.27	NO			
A 556R			E64	128				.25	NO			
			J8-32	86				.15	NO			
A 557	3				1.80	1.50				B,6A	5, 6	
					4.30	4.00				A,7	33	

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 54 OF

CYZMOUPF 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 557A	1		SHLD A557 E67-B	 131				.25 .27	NO NO			
A 557B			E64 A27-1	128 21				.25 .25	NO YES			
A 558	3				2.30 4.30	2.00 4.00				A,7 B,6A	33 5, 6	
A 558B	1		SHLD A558 A60-21	 50				.25 .25	NO YES			
A 558R			J5-56 A59-1	85 49				.15 .25	NO YES			
A 559	3				1.80 2.30	1.50 2.00				B,6A A,7	5, 6 33	
A 559A	1		SHLD A559 E67-B	 131				.25 .27	NO NO			
A 559B			F65 J5-33	129 85				.25 .15	NO NO			
A 560	3				1.80 2.30	1.50 2.00				B,6A A,7	5, 6 33	
A 560A	1		SHLD A560 E67-B	 131				.25 .27	NO NO			
A 560B			F65 J8-33	129 86				.25 .15	NO NO			
A 561	3				1.80 4.30	1.50 4.00				B,6A A,7	5, 6 33	

SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 55 OF

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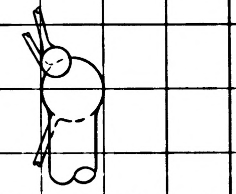
CYZMOUPF 102666 WIRING HARNESS A 2901144 K

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 561A	1		SHLD A561 E67-B	 131				.25 .27	NO NO			
A 561B			F65 A23-1	129 17				.25 .25	NO YES			
A 562	3				1.80 2.30	1.50 2.00				B,6A A,7	5, 6 33	
A 562A	1		SHLD A562 E67-8B	 131				.25 .25	NO NO			
A 562B			F66 J5-54	130 85				.25 .15	NO NO			
A 563	3				1.80 2.30	1.50 2.00				B,6A A,7	5, 6 33	
A 563A	1		SHLD A563 E67-8B	 131				.25 .25	NO NO			
A 563B			F66 J8-54	130 86				.25 .15	NO NO			
A 564	3				1.80 4.30	1.50 4.00				B,6A A,7	5, 6 33	
A 564A	1		SHLD A564 E67-8B	 131				.25 .25	NO NO			
A 564B			F66 A23-19	130 17				.25 .25	NO YES			
A 565	1		E67-8B A23-31	131 17				.25 .25	NO YES			

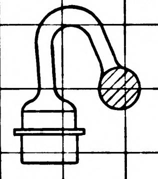
SIZE	CODE IDENT NO.	
A	99974	2901144
SCALE-NONE	REV LTR K	SHEET 56 OF



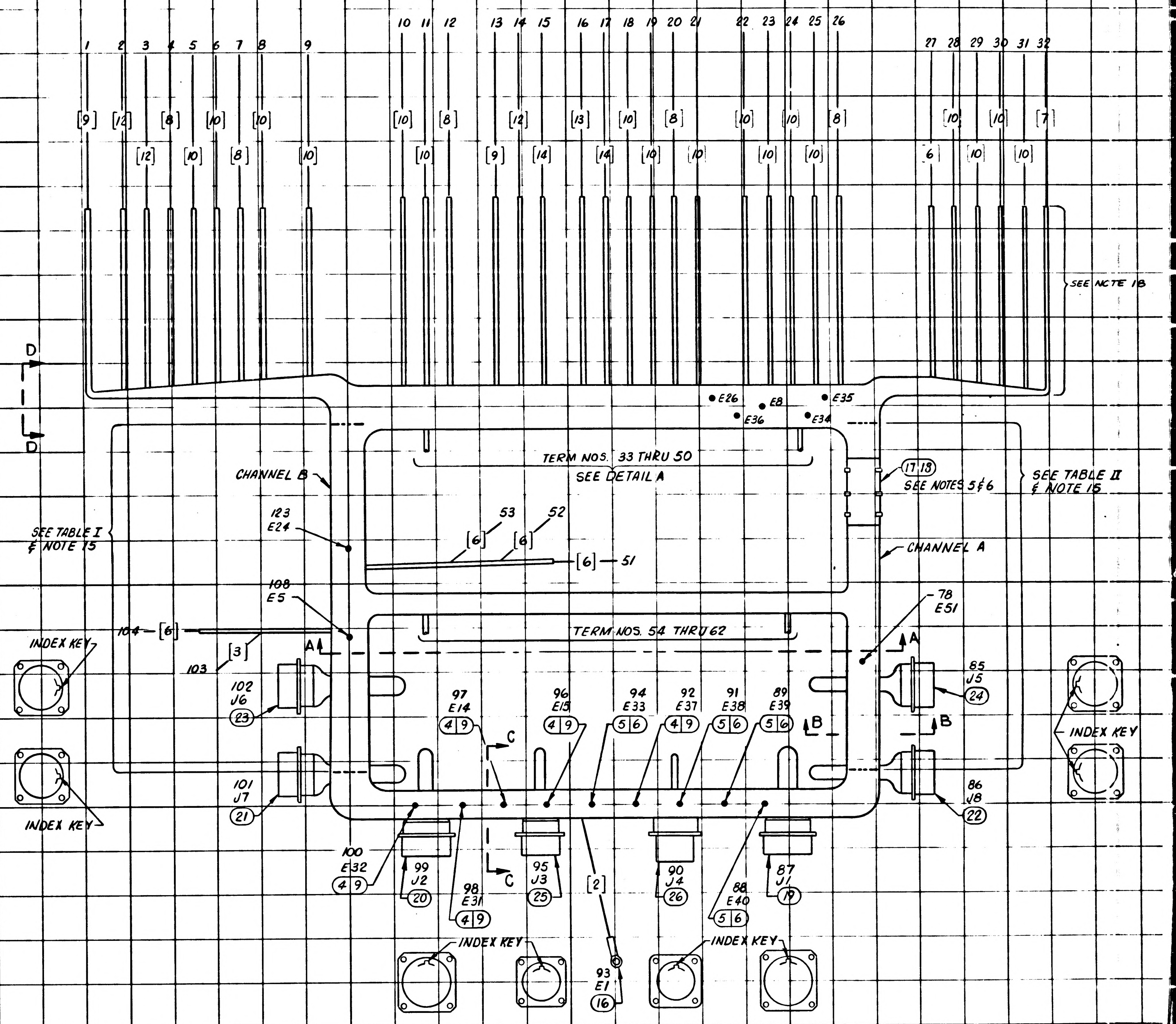
PARTIAL VIEW D-D

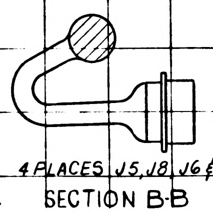
TABLE I

TERM NO	REF DES	ITEM NO.
105	E2	5, 6
106	E3	5, 6
107	E4	5, 6
108	E5	4, 9
109	E7	4, 9
110	E9	5, 6
111	E10	5, 6
112	E11	4, 9
113	E12	5, 6
114	E13	5, 6
115	E16	5, 6
116	E17	5, 6
117	E18	5, 6
118	E19	5. 6
119	E20	5, 6
120	E21	5, 6
121	E22	5, 6
122	E23	5, 6
123	E24	12, 14
124	E28	5. 6
125	E58	5, 6
126	E60	5, 6
127	E62	5, 6



4 PLACES J2, J3, J4 & J1
SECTION C-C


1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32
[9] [12] [12] [8] [10] [10] [8] [10] [10]
[10] [10] [8] [9] [12] [14] [13] [14] [10] [10] [8] [10]
[10] [10] [10] [10] [8]
[6] [10] [10] [10] [10] [7]
SEE NOTE 18
D
D
E26
E8
E35
E36
E34
TERM NOS. 33 THRU 50
SEE DETAIL A
CHANNEL B
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
123
E24
53
52
[6]
[6]
[6] — 51
SEE TABLE I & NOTE 15
CHANNEL A
108
E5
78
E51
104 — [6]
TERM NOS. 54 THRU 62
[3]
103
A
A
INDEX KEY
102
J6
23
97
E14
4 9
96
E15
4 9
94
E33
5 6
92
E37
4 9
91
E38
5 6
89
E39
5 6
B
B
85
J5
24
C
C
101
J7
21
INDEX KEY
100
E32
4 9
99
J2
20
98
E31
4 9
95
J3
25
[2]
90
J4
26
88
E40
5 6
87
J1
19
86
J8
22
INDEX KEY
INDEX KEY
INDEX KEY
93
E1
16

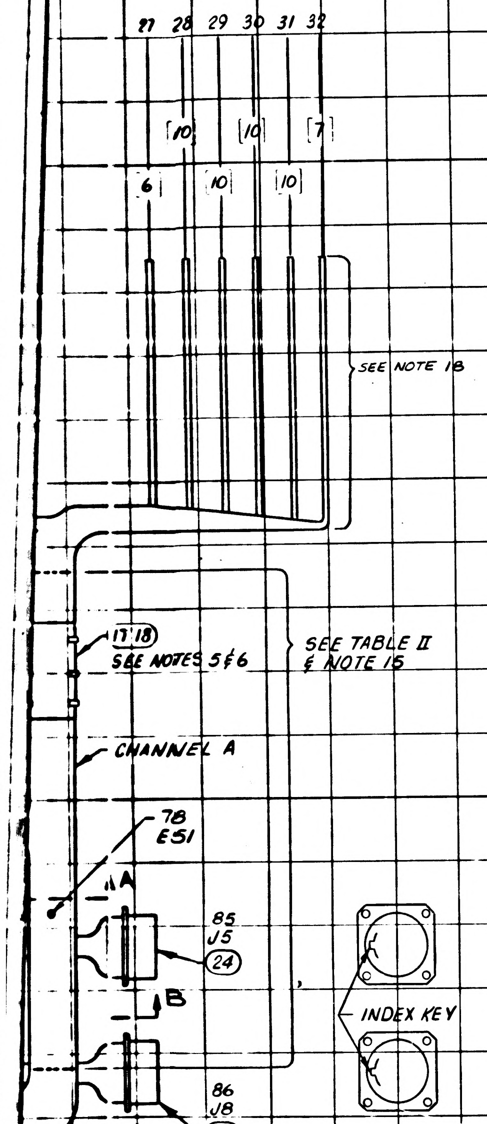


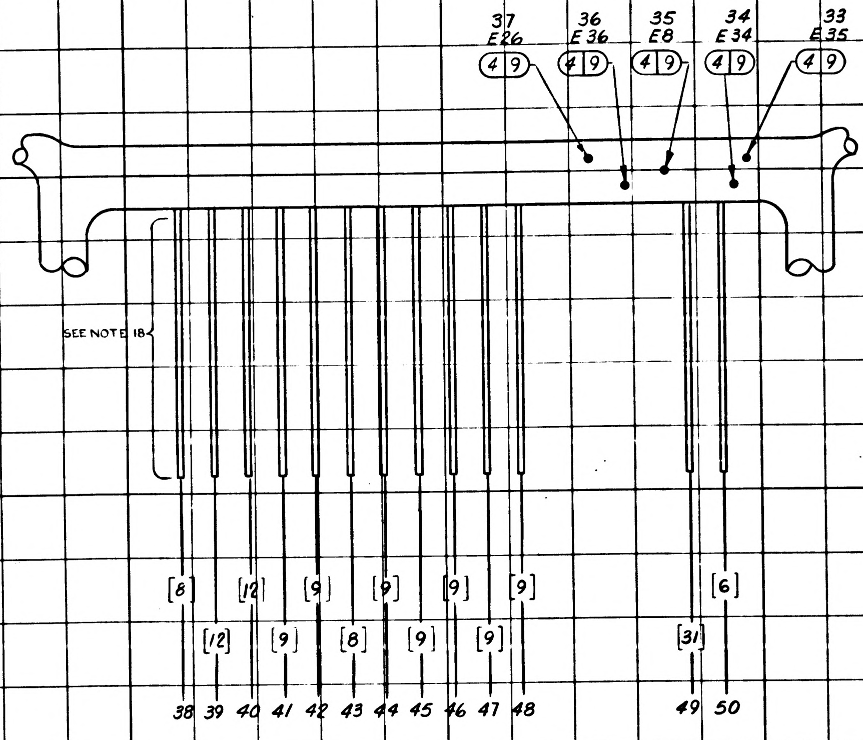
4 PLACES J5, J8, J6 & J7
SECTION B-B

SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

REVISIONS

SEE SHEET 1 FOR REVISION RECORD

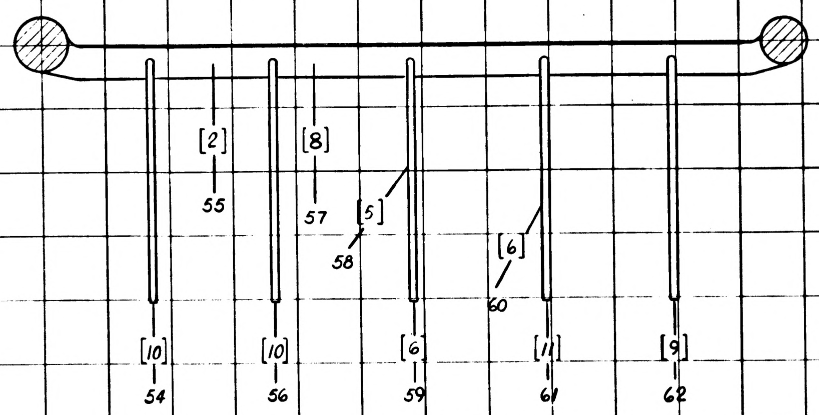

27 28 29 30 31 32
[10] [10] [7]
6 [10] [10]
SEE NOTE 18
17 18
SEE NOTES 5 & 6
SEE TABLE II & NOTE 15
CHANNEL A
78
E51
A
85
J5
24
B
86
J8
22
INDEX KEY


37 E26 4 9
36 E36 4 9
35 E8 4 9
34 E34 4 9
33 E35 4 9
SEE NOTE 18
[8] [12] [9] [9] [9] [9] [6]
[12] [9] [8] [9] [9] [31]
38 39 40 41 42 43 44 45 46 47 48 49 50

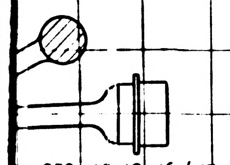
DETAIL A

TABLE II

TERM NO	REF DES	ITEM NO
64	E25	5, 6
65	E27	5, 6
66	E29	5, 6
67	E30	5, 6
68	E41	5, 6
69	E42	4, 9
70	E43	5, 6
71	E44	4, 9
72	E45	5, 6
73	E46	5, 6
74	E47	5, 6
75	E48	5, 6
76	E49	5, 6
77	E50	5, 6
78	E51	4, 9
79	E52	5, 6
80	E53	5.6
81	E54	5, 6
82	E55	5, 6
83	E56	5, 6
84	E63	5, 6
128	E64	5, 6
129	E65	5, 6
130	E66	5,6
131	E67	4,9


[2]
55
[8]
57
[5]
58
[6]
60
[10] [10] [6] [11] [9]
54 56 59 61 62

SECTION A-A


LACES J5, J8 J6 & J7

ECTION B-B

2901144	REV K	SH 56

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION DRAWN Jekoloki DATE 5 APR 66 CHECKED APPROVAL APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS WIRING HARNESS "A"
DO NOT SCALE THIS DRAWING MATERIAL — CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO 99974 · SIZE J2 · 2901144 SCALE FULL · SHEET 57

K
2901144
B

APPLICATION	
NEXT ASSY	USED ON
2901143-011	2901143-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV (-) WITH CHG PER MXC 211186	18 APR 66	J.H.P.
B	REVISED PER MXC 211532	21 APR 66	J.H.P.
C	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY-66	B. EF

[illegible] 6APR66

REV													
SHEET													
REV STATUS OF SHEETS	REV	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET	1	2	3	4	5	6	8	9	10	11	12	13

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
MX 116427

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Janowiak 17 JAN 66 (DAY MO YR)
CHECKER 6 APR 66
ENGINEER
APPROVAL 5/5/66
CONTR NO. NAS 9-497
NASA APPROVAL 5-5-66
MIT APPROVAL 5-10-66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL

SIZE A
CODE IDENT. NO 99974
2901145
SCALE NONE
SHEET 1 OF 13

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER	DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER A - ND1002071 B - SEE CONFIGURATION SHEET FIG. 1
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND1002019; OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
4	ASSEMBLE PER ND1002032.
5	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
6	LOCATE ITEM 13 ADJACENT TO ITEM 6
7	APPLY LEAD IDENTIFICATION TO SLEEVES OF ALL MULTI-LEADS PER ND1002019.
8	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
10	SECURE TO CABLE USING ITEM 11. MARKING TO READ AWAY FROM CONNECTOR
11	SERIALIZE PER ND1002023.
12	MARK IDENTIFICATION BAND PER ND1002019. CENTRALIZE, COLOR WHITE
13	SPIRAL WRAP CABLE BUNDLE USING ITEM 5 WITH 50 PERCENT OVERLAY BETWEEN TURNS.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN STRAIN RELIEF CLAMP.

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C B	SHEET 2 OF 13

NOTE GENERAL NOTES

NUMBER	DESCRIPTION
15	COVER FULL LENGTH OF CONDUCTOR WITH ITEM 8 TO WITHIN 3 INCHES OF EACH END.
16	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FROM END B - SHIELD LEAD ON TO END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER.
17	SPIRAL WRAP FULL LENGTH OF CABLE,OVER ITEMS 5,6,AND 13,USING ITEM 14, WITH 50 PER CENT OVERLAY BETWEEN TURNS.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.
19	INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 100 VDC + OR - 10 PERCENT APPLIED BETWEEN EACH PIN AND ALL PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C B	SHEET 3 OF 13

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C B	SHEET 4 OF 13

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901145-001	WIRE, ND1002181, TYPE I, CLASS I, 24AWG, WHT 61 FT. TOTAL LENGTH
	2	1	2901145-002	WIRE, ND1002181, TYPE 2, CLASS 4, WHT. JKT., 24AWG, WHT/BLU, WHT/RED, 13 INCHES TOTAL LENGTH
8	3	1	1897249-006	CONNECTOR, PLUG ELEC.
8	4	1	1897250-006	CONNECTOR, PLUG ELEC.
8	5	AR	1010989	WIRE MESH, KNITTED-TAPE, EMI/RFI SHIELDING
8	6	3	1010763- 2	SOLDER SLEEVE
8	7	2	1010490-228	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE
8	8	AR	1016197-002	TUBING, SHRINKFIT 5 FT. TOTAL LENGTH (BLACK)
8	9	2	1016282- 16	GROMMET, CONNECTOR STRAIN RELIEF
8	10	2	1010933-104	CLAMP, CABLE, ELEC.
	11	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK
8	12	3	1016128-011	BAND, IDENTIFICATION
8	13	1	1010490-118	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE
17	14	AR	MIL-I-15126 TYPE ACT	INSULATION-TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMOSETTING ADHESIVE .75 PLUS OR MINUS .03 WIDE (ES2716 TYPE C)

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C B	SHEET 5 OF 13

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	AR	MIL-I-631 TYPE F, FORM T, BLACK GRADE A, CLASS 1,	FILLER TAPE, .62 INCH WIDE, .020 INCH THICK.

SIZE A
CODE IDENT NO. 99974
2901145
SCALE-NONE
REV LTR C
SHEET 6 OF 13

MIL 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG.	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		P1-38 P2-38					.15 .15	NO NO			
A	2	1		P1-20 P2-20					.15 .15	NO NO			
A	3	1		P1-19 P2-19					.15 .15	NO NO			
A	4	1		P1-37 P2-37					.15 .15	NO NO			
A	5	1		P1-60 P2-60					.15 .15	NO NO			
A	6	1		P1-61 P2-61					.15 .15	NO NO			
A	7	1		P1-57 P2-57					.15 .15	NO NO			
A	8	1		P1-58 P2-58					.15 .15	NO NO			
A	9	1		P1-59 P2-59					.15 .15	NO NO			
A	10	1		P1-42 P2-42					.15 .15	NO NO			
A	11	1		P1-39 P2-39					.15 .15	NO NO			
A	12	2				2.80 2.80	2.50 2.50				A,6B A,6B	6, 7 6, 7	

SIZE A
CODE IDENT NO. 99974
2901145.
SCALE-NONE
REV LTR C
SHEET 7 OF 13

MIL 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12A	1		SHLD A12 P1-25					.25 .15	NO NO			
A	12B	1		SHLD A12 P2-25					.25 .15	NO NO			
A	12L			P1-46 P2-46					.15 .15	NO NO			
A	12R			P1-45 P2-45					.15 .15	NO NO			
A	13	1		P1-21 P2-21					.15 .15	NO NO			
A	14	1		P1-40 P2-40					.15 .15	NO NO			
A	15	1		P1-7 P2-7					.15 .15	NO NO			
A	16	1		P1-6 P2-6					.15 .15	NO NO			
A	17	1		P1-18 P2-18					.15 .15	NO NO			
A	18	1		P1-22 P2-22					.15 .15	NO NO			SEE NOTE 15
A	19	1		P1-9 P2-9					.15 .15	NO NO			SEE NOTE 15
A	20	1		P1-47 P2-47					.15 .15	NO NO			SEE NOTE 15

SIZE A
CODE IDENT NO. 99974
2901145
SCALE-NONE
REV LTR C
SHEET 8 OF 13

MIL 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	21	1		P1-48 P2-48					.15 .15	NO NO			
A	22	1		P1-26 P2-26					.15 .15	NO NO			SEE NOTE 15
A	23	1		P1-27 P2-27					.15 .15	NO NO			
A	24	1		P1-41 P2-41					.15 .15	NO NO			SEE NOTE 15
A	25	1		P1-31 P2-31					.15 .15	NO NO			
A	26	1		P1-53 P2-53					.15 .15	NO NO			
A	27	1		P1-52 P2-52					.15 .15	NO NO			
A	28	1		P1-16 P2-16					.15 .15	NO NO			
A	29	1		P1-33 P2-33					.15 .15	NO NO			
A	30	1		P1-36 P2-36					.15 .15	NO NO			
A	31	1		P1-17 P2-17					.15 .15	NO NO			
A	32	1		P1-34 P2-34					.15 .15	NO NO			

SIZE A
CODE IDENT NO. 99974
2901145
SCALE-NONE
REV LTR C
SHEET 9 OF 13

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	1		P1-35					.15	NO			
			P2-35					.15	NO			
A 34	1		P1-44					.15	NO			
			P2-44					.15	NO			
A 35	1		P1-24					.15	NO			
			P2-24					.15	NO			
A 36	1		P1-11					.15	NO			
			P2-11					.15	NO			
A 37	1		P1-10					.15	NO			
			P2-10					.15	NO			
A 38	1		P1-23					.15	NO			
			P2-23					.15	NO			
A 39	1		P1-43					.15	NO			
			P2-43					.15	NO			
A 40	1		P1-14					.15	NO			
			P2-14					.15	NO			
A 41	1		P1-3					.15	NO			
			P2-3					.15	NO			
A 42	1		P1-5					.15	NO			
			P2-5					.15	NO			
A 43	1		P1-1					.15	NO			
			P2-1					.15	NO			
A 44	1		P1-15					.15	NO			
			P2-15					.15	NO			

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C	SHEET 10 OF 13

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG.	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 45	1		P1-4					.15	NO			
			P2-4					.15	NO			
A 46	1		P1-13					.15	NO			
			P2-13					.15	NO			
A 47	1		P1-12					.15	NO			
			P2-12					.15	NO			
A 48	1		P1-8					.15	NO			
			P2-8					.15	NO			
A 49	1		P1-2					.15	NO			
			P2-2					.15	NO			
A 50	1		P1-54					.15	NO			
			P2-54					.15	NO			
A 51	1		P1-32					.15	NO			
			P2-32					.15	NO			
A 52	1		P1-56					.15	NO			
			P2-56					.15	NO			
A 53	1		P1-55					.15	NO			
			P2-55					.15	NO			
A 54	1		E1					.25	NO	8		
			P1-50					.15	NO			
A 55	1		P1-49					.15	NO			
			P2-49					.15	NO			
A 56	1		P1-51					.15	NO			
			P2-51					.15	NO			

SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C	SHEET 11 OF 13

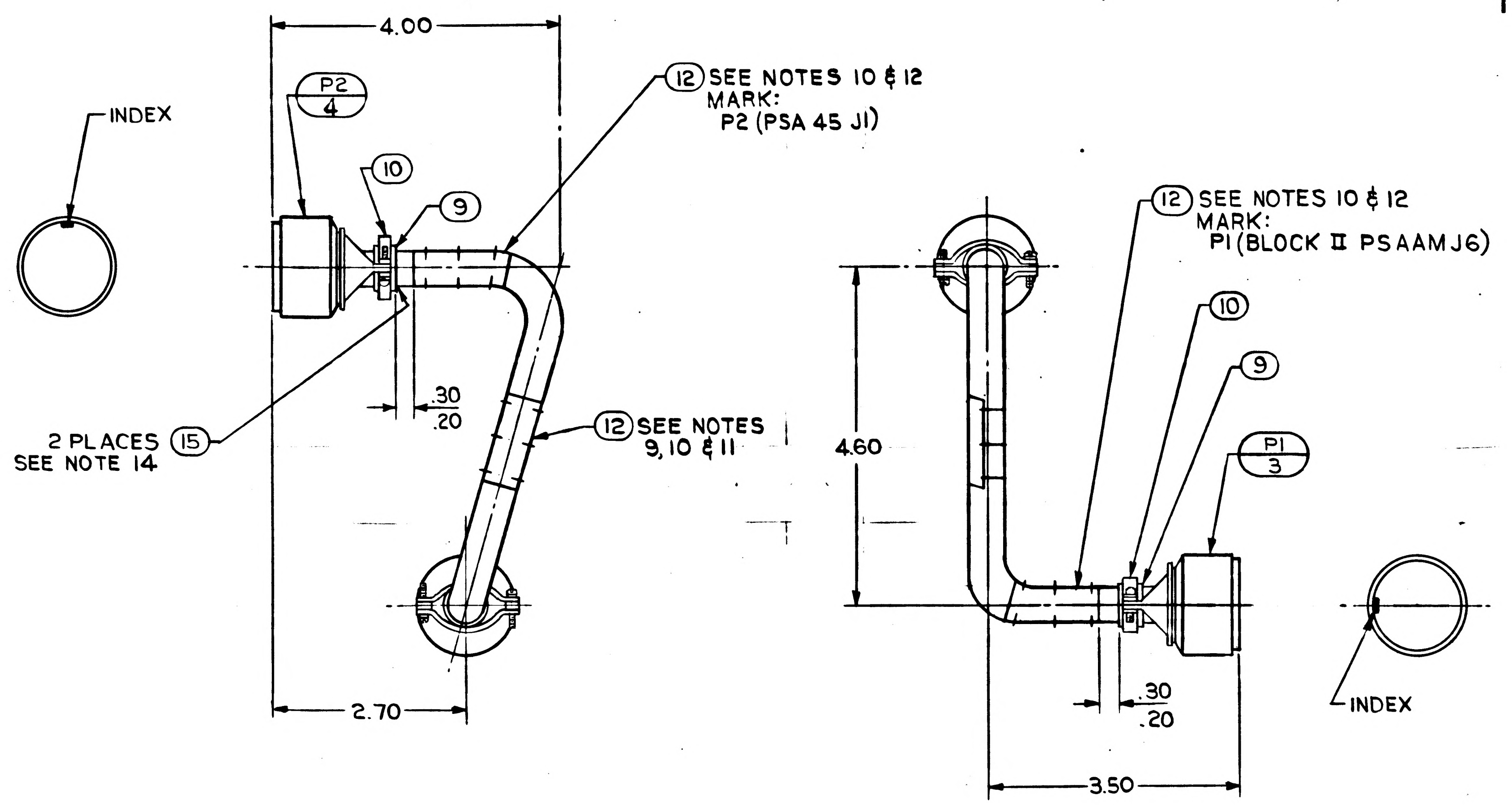
MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57	1		P1-28					.15	NO			
			P2-28					.15	NO			
A 58	1		P1-29					.15	NO			
			P2-29					.15	NO			
A 59	1		P1-30					.15	NO			
			P2-30					.15	NO			

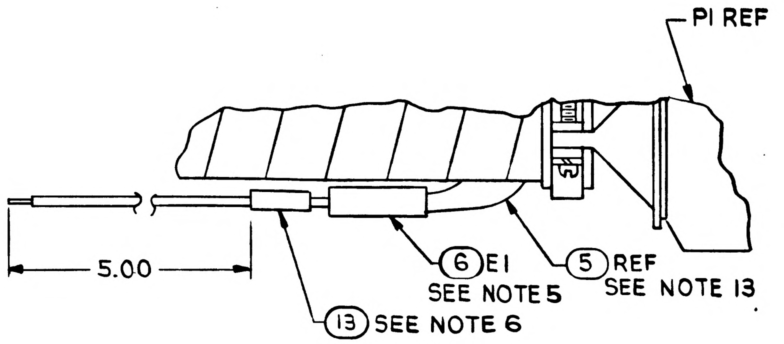
SIZE	CODE IDENT NO.	
A	99974	2901145
SCALE-NONE	REV LTR C	SHEET 12 OF 13

MIL 2084 9-65

REVISIONS 22641					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



INDEX
4.00
P2 4
10
9
12 SEE NOTES 10 & 12
MARK:
P2 (PSA 45 J1)
.30
.20
2 PLACES 15
SEE NOTE 14
12 SEE NOTES 9, 10 & 11
2.70
12 SEE NOTES 10 & 12
MARK:
P1 (BLOCK II PSAAMJ6)
10
9
P1 3
4.60
.30
.20
INDEX
3.50



P1 REF
5.00
6 E1
SEE NOTE 5
5 REF
SEE NOTE 13
13 SEE NOTE 6

FIGURE 1
SCALE NONE
WITH ITEM 14 NOT SHOWN

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .25
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Janowiak DATE 17 JAN 66
CHECKED Zeslar 6 APR 66
APPROVAL Gruman 5-4-66
CONTRACT NAS 9-497
NASA APPROVAL 5-5-66
MIT APPROVAL 5-10-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL

SIZE D
CODE IDENT NO. 99974
2901145
SCALE FULL
SHEET 13 OF 3

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2901143-011	2901143-011		REVISED PER MXC 211187	18 APR 66	J.K.
		B	REVISED PER MXC 211533	29 APR 66	LGC EF
		C	INITIAL RELEASE CLASS A PER TDRR 28641	4-MAY 66	GM EF

Charleston 6 APR 66

REV STATUS OF SHEETS	REV	C	C	C	C	C	C	C	C	C	C	C	C
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Janowiak 30 MAR 66 (DAY MO YR)
CHECKER 6 APR 66
ENGINEER 26 Apr 66
APPROVAL 5/5/66
CONTR NO. NAS 9-497
NASA APPROVAL 5/5/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL

SIZE A
CODE IDENT. NO 99974
2901146
SCALE NONE
SHEET 1 OF 12

MIL 1377A6 12-65

NOTE NUMBER GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER
   A - ND1002071
   B - SEE CONFIGURATION SHEET FIG. 1
   C - 1002032

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.

4 ASSEMBLE PER ND1002032.

5 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.

6 LOCATE ITEM 13 ADJACENT TO ITEM 6

7 APPLY LEAD IDENTIFICATION TO SLEEVES OF ALL MULTI-LEADS PER ND1002019.

8 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

9 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

10 SECURE TO CABLE USING ITEM 11. MARKING TO READ AWAY FROM CONNECTOR

11 SERIALIZE PER ND1002023.

12 MARK IDENTIFICATION BAND PER ND1002019. CENTRALIZE, COLOR WHITE

13 SPIRAL WRAP CABLE BUNDLE USING ITEM 5 WITH 50 PERCENT OVERLAY BETWEEN TURNS.

14 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN STRAIN RELIEF CLAMP.

SIZE A	CODE IDENT NO. 99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 2 OF 12

NOTE NUMBER GENERAL NOTES DESCRIPTION

15 COVER FULL LENGTH OF CONDUCTOR WITH ITEM 8 TO WITHIN 3 INCHES OF EACH END.

16 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
   A - SHIELD LEAD ON FROM END
   L - WHITE WITH BLUE TRACER.
   R - WHITE WITH RED TRACER.

17 SPIRAL WRAP FULL LENGTH OF CABLE,OVER ITEMS 5,6,AND 13,USING ITEM 14, WITH 50 PER CENT OVERLAY BETWEEN TURNS.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

19 INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 100 VDC ± 10% APPLIED BETWEEN EACH PIN AND ALL PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.

SIZE A	CODE IDENT NO. 99974	2901146
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 3 OF 12

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901146-001	WIRE, ND1002181, TYPE I, CLASS I, 24AWG, WHT 55FT 2 INCHES TOTAL LENGTH.
	2	1	2901146-002	WIRE, ND1002181, TYPE 2, CLASS 4, WHT. JKT., 24AWG, WHT/BLU, WHT/RED, 51 INCHES TOTAL LENGTH
8	3	1	1897249-007	CONNECTOR, PLUG ELEC.
8	4	1	1897250-007	CONNECTOR, PLUG ELEC.
8	5	AR	1010989	WIRE MESH, KNITTED-TAPE, EMI/RFI SHIELDING
8	6	5	1010763- 2	SOLDER SLEEVE
8	7	8	1010490-228	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE
8	8	AR	1016197-002	TUBING, SHRINKFIT 63 INCHES TOTAL LENGTH (BLACK)
8	9	2	1016282- 16	GROMMET, CONNECTOR STRAIN RELIEF
8	10	2	1010933-104	CLAMP, CABLE, ELEC.
	11	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK
8	12	3	1016128-011	BAND, IDENTIFICATION
8	13	1	1010490-118	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE
17	14	AR	MIL-I-15126 TYPE ACT	INSULATION-TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMOSETTING ADHESIVE .75 PLUS OR MINUS .03 WIDE (ES2716 TYPE C)

SIZE A	CODE IDENT NO. 99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 4 OF 12

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	AR	MIL-I-631 TYPE F, FORM T, BLACK GRADE A, CLASS 1	FILLER TAPE, .62 INCH WIDE, .020 INCH THICK.
8	16	1	1016006-001	SPLICE-REDUCER
8	17	1	1010490-198	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINKABLE

SIZE A	CODE IDENT NO. 99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 5 OF 12

CABLE ASSEMBLY 2901146 C ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	P1-56 P2-56					.15 .15	NO NO			
A	2	1	P1-57 P2-57					.15 .15	NO NO			
A	3	1	P1-15 P2-15					.15 .15	NO NO			SEE NOTE 15
A	4	1	P1-14 P2-14					.15 .15	NO NO			
A	5	1	P1-5 P2-5					.15 .15	NO NO			SEE NOTE 15
A	6	1	P1-6 P2-6					.15 .15	NO NO			SEE NOTE 15
A	7	1	P1-16 P2-16					.15 .15	NO NO			
A	8	1	P1-18 P2-18					.15 .15	NO NO			
A	9	1	P1-7 P2-7					.15 .15	NO NO			
A	10	1	P1-17 P2-17					.15 .15	NO NO			
A	11	1	P1-58 P2-58					.15 .15	NO NO			
A	12	1	P1-34 P2-34					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 6 OF 12

MIL 2084 9-65

CABLE ASSEMBLY 2901146 C ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	P1-35 P2-35					.15 .15	NO NO			
A	14	1	P1-59 P2-59					.15 .15	NO NO			
A	15	1	P1-60 P2-60					.15 .15	NO NO			
A	16	1	P1-33 P2-33					.15 .15	NO NO			
A	17	1	P1-55 P2-55					.15 .15	NO NO			
A	18	1	P1-54 P2-54					.15 .15	NO NO			
A	19	1	P1-32 P2-32					.15 .15	NO NO			
A	20	1	P1-30 P2-30					.15 .15	NO NO			SEE NOTE 15
A	21	1	P1-51 P2-51					.15 .15	NO NO			SEE NOTE 15
A	22	2			2.80 2.80	2.50 2.50				A,6B C,7	6, 7 7	
A	22A	1	SHLD A22 E2-8					.25 .27	NO NO			
A	22L		P2-40 P1-40					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 7 OF 12

MIL 2084 9-65

CABLE ASSEMBLY 2901146 C ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	22R		P2-39 P1-39					.15 .15	NO NO			
A	23	2			2.80 2.80	2.50 2.50				A,6B C,7	6, 7 7	
A	23A	1	SHLD A23 E2-8					.25 .27	NO NO			
A	23L		P2-38 P1-38					.15 .15	NO NO			
A	23R		P2-61 P1-61					.15 .15	NO NO			
A	24	2			2.80 2.80	2.50 2.50				A,6B C,7	6, 7 7	
A	24A	1	SHLD A24 E2-8					.25 .27	NO NO			
A	24L		P2-45 P1-45					.15 .15	NO NO			
A	24R		P2-44 P1-44					.15 .15	NO NO			
A	25	2			2.80 2.80	2.50 2.50				A,6B C,7	6, 7 7	
A	25A	1	SHLD A25 E2-8					.25 .27	NO NO			
A	25L		P2-46 P1-46					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 8 OF 12

MIL 2084 9-65

CABLE ASSEMBLY 2901146 C ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25R		P2-47 P1-47					.15 .15	NO NO			
A	26	1	P1-31 P2-31					.15 .15	NO NO			
A	27	1	P1-52 P2-52					.15 .15	NO NO			
A	28	1	P1-8 P2-8					.15 .15	NO NO			
A	29	1	P1-9 P2-9					.15 .15	NO NO			
A	30	1	P1-19 P2-19					.15 .15	NO NO			
A	31	1	P1-36 P2-36					.15 .15	NO NO			
A	32	1	P1-26 E2-8B					.15 .15	NO NO			
A	33	1	E2-8 P2-26					.15 .15	NO NO			
A	34	1	P1-50 E1					.15 .15	NO NO	 8		
A	35	1	P1-1 P2-1					.15 .15	NO NO			
A	36	1	P1-2 P2-2					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR ~~A~~ C	SHEET 9 OF 12

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-3 P2-3					.15 .15	NO NO			
A 38	1		P1-4 P2-4					.15 .15	NO NO			
A 39	1		P1-10 P2-10					.15 .15	NO NO			
A 40	1		P1-11 P2-11					.15 .15	NO NO			
A 41	1		P1-12 P2-12					.15 .15	NO NO			
A 42	1		P1-13 P2-13					.15 .15	NO NO			
A 43	1		P1-20 P2-20					.15 .15	NO NO			
A 44	1		P1-21 P2-21					.15 .15	NO NO			
A 45	1		P1-22 P2-22					.15 .15	NO NO			
A 46	1		P1-23 P2-23					.15 .15	NO NO			
A 47	1		P1-24 P2-24					.15 .15	NO NO			
A 48	1		P1-25 P2-25					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR	SHEET 10 OF 12

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P1-27 P2-27					.15 .15	NO NO			
A 50	1		P1-28 P2-28					.15 .15	NO NO			
A 51	1		P1-29 P2-29					.15 .15	NO NO			
A 52	1		P1-41 P2-41					.15 .15	NO NO			
A 53	1		P1-42 P2-42					.15 .15	NO NO			
A 54	1		P1-43 P2-43					.15 .15	NO NO			
A 55	1		P1-48 P2-49					.15 .15	NO NO			
A 56	1		P1-53 P2-53					.15 .15	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901146
SCALE-NONE	REV LTR	SHEET 11 OF 12

MIL 2084 9-65

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 210943		7 APR 66	RP EF
	B	INITIAL RELEASE CLASS A PER TDRR 28673		4 MAY 66	JHP EF

NOTES:-

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

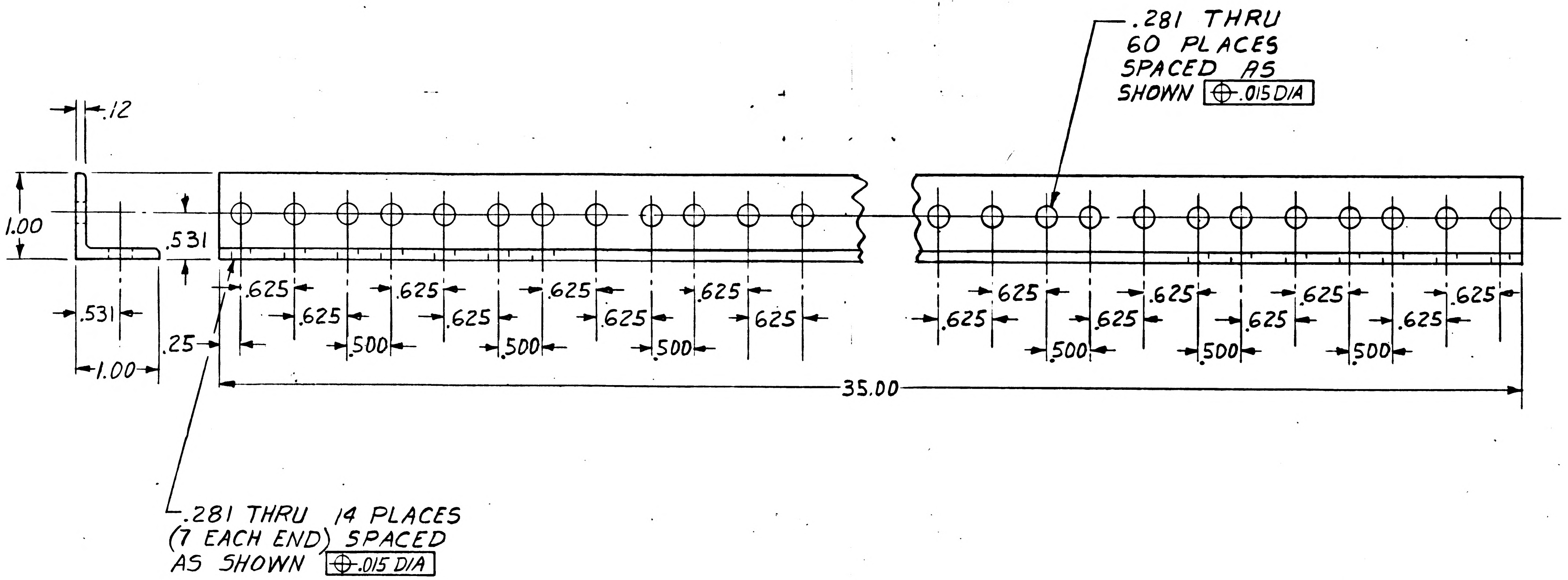
2. MATERIAL-STEEL QQ-S-630, GRADE M-1020.

3. UNLESS OTHERWISE SPECIFIED:
   a. SURFACE ROUGHNESS TO BE AS ROLLED OR DRAWN.
   b. PUNCHED, CUT OR MACHINED SURFACES TO BE 125✓.

4. MUST BE FREE FROM BURRS AND SHARP EDGES.

5. FINISH-PRIME USING MIL-P-8585 (ES2589) FOLLOWED BY TWO COATS OF TT-E-529 CLASS B ENAMEL, DARK GRAY, COLOR 26251 OF FED-STD-595.

6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).



2901108-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Robert Lezke 19 JAN 66 DATE
CHECKED Ed Foster 25 JAN 66
APPROVAL V Yelman 5/5/66
CONTRACT NAS 9-497
NASA APPROVAL 5/6/66
MIT APPROVAL 5-11-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, ANGLE

SIZE C
CODE IDENT NO. 99974
2901150
SCALE 1:1
SHEET 1 OF 1

APPLICATION	
NEXT ASSY	USED ON
2900896-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV - WITH CHANGE PER MXC-210031	17-MAR-66	B.
B	REVISED PER MXC-210604.	31 MAR 66	RWT. AU
C	REVISED PER MXC 210963	11 APR 66	J.H.P.
D	REVISED PER MXC 211981	29 APR 66	
E	INITIAL RELEASE CLASS A PER TDRR 28657	3 MAY 66	

REV	E
SHEET	47

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46

REV STATUS OF SHEETS	REV				E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN $PLANE 16 FEB 66 (DAY MO YR)
CHECKER WILSON 8 MAR 66
ENGINEER G YOHPE 8 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL 5/10/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

SIZE A
CODE IDENT. NO 99974
2901152
SCALE NONE
SHEET 1 OF 47

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 33.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 33.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

9 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B. THIS DOES NOT APPLY TO LEADS A203 THRU A206, A370 AND A371.

10 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.

11 ~~DELETED~~ SOLDER PER ND1002071 USING ITEM 31 OR ITEMS 29 AND 30.

12 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

13 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~B~~ D E	SHEET 2 OF ~~44~~ 47

MIL 2084 9-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

14 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - SHIELD LEAD ON FRONT END
B - SHIELD LEAD ON TO END
E - GRAY
L - BLUE, WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER.
R - RED, WHITE WITH LETTER R OR WHITE WITH RED TRACER.
X - LEAD SHIELD

15 THE FOLLOWING MULTI LEADS SHALL BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES OR NOT LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. AFTER TWISTING, CABLE WITH ITEM 12 APPROXIMATELY 3 INCHES FROM EACH END
AS TWISTED PAIRS
A203L, A203R A370L, A370R
A204L, A204R A371L, A371R
A205L, A205R
A206L, A206R

16 ITEMS 10 AND 11 ARE FURNISHED WITH ITEMS 7 AND 8 RESPECTIVELY.

17 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

18 ASSEMBLE PER ND1002032

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~B~~ D E	SHEET 3 OF ~~44~~ 47

MIL 2084 9-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~B~~ D E	SHEET 4 OF ~~44~~ 47

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901152-001	WIRE ND1002181 CLASS 1 TYPE I 22AWG WHITE
	2	1	2901152-002	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 22AWG (WHT/RED, WHT/BLU)
	3	1	2901152-003	WIRE-COAX MIL-C-17/69A RG188A/U TOTAL LENGTH
	4	1	2901152-004	WIRE-COAX MIL-C-17/28A RG58C/U TOTAL LENGTH
7	5	1	1015957-177	CONNECTOR, RECPT. ELEC
7	6	1	1015957-178	CONNECTOR, RECPT. ELEC
	7	1	MS3127E24-61SW	CONNECTOR, RECPT. ELEC (1897056-611)
	8	1	MS3127E12-3P	CONNECTOR, RECPT. ELEC (1897119-030)
7	9	76	1015864-109	INSULATION SLEEVING
	10	61	MS3193A-20A	CONNECTOR SOCKET CONTACTS (1896877-020)
	11	3	MS3192A-16A	CONNECTOR PIN CONTACTS (1896855-016)
7	12	52	1010490-200	INSULATION SLEEVING (HEAT SHRINK)
7	13	2	1010490-226	INSULATION SLEEVING (HEAT SHRINK)
	14	1	2901152-005	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 20AWG (WHT/RED, WHT/BLU)
7	15	4	1010763- 2	SLEEVE, SOLDER
7	16	34	1010763- 3	SLEEVE, SOLDER

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~B~~ D E	SHEET 5 OF ~~44~~ 47

MIL 2084 9-65

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	17	1	1010763- 1	SLEEVE, SOLDER
7	18	5	1015864-137	INSULATION SLEEVING
7	19	5	1015864-135	INSULATION SLEEVING
7	20	188	1015364-107	INSULATION SLEEVING
7	21	16	1015902-049	TERMINAL-LUG, RING TONGUE, CRIMP
7	22	6	1016006-002	SPLICE-REDUCER
7	23	1	1016006-003	SPLICE-REDUCER
7	24	6	1010490-258	INSULATION SLEEVING (HEAT SHRINK)
7	25	1	1010490-256	INSULATION SLEEVING (HEAT SHRINK)
	26	1	2901152-006	WIRE ND1002181 CLASS 1 TYPE I 8AWG (WHITE)
7	27	1	1016048- 15	TERMINAL-LUG
7	28	1	1016048- 16	TERMINAL-LUG
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	30	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	31	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	32	1	1016128-001	BAND IDENTIFICATION BLANK
	33	AR	MIL-T-713 TYPE P, CLASS 2	LACING TAPE, WAXED, BLACK (ES2732 NO. 18)

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE REV LTR X D E SHEET 6 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		S1A-11A	73				.25	YES			
			S1A-11B	73				.25	YES			
A 2	1		S1A-11B	73				.25	YES			
			S2B-11A	74				.25	YES			
A 3	1		S2B-11A	74				.25	YES			
			K4-4	28				.25	YES		9	
A 4	1		S1A-10A	73				.25	YES			
			S2A-8B	74				.25	YES			
A 5	1		S1A-10B	73				.25	YES			
			S2A-7A	74				.25	YES			
A 6	1		S1B-11A	73				.25	YES			
			S2B-7A	74				.25	YES			
A 7	1		S1B-1A	73				.25	YES			
			S2B-5A	74				.25	YES			
A 8	1		S1B-11B	73				.25	YES			
			K4-8	28				.25	YES		9	
A 9	1		S1A-5A	73				.25	YES			
			S2A-8A	74				.25	YES			
A 10	1		S2A-11B	74				.25	YES			
			S2B-9A	74				.25	YES			
A 11	1		S2B-1A	74				.25	YES			
			K14-1	21				.25	YES		20	
A 12	1		S2B-6A	74				.25	YES			
			K11-1	19				.25	YES		20	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE REV LTR X D E SHEET 7 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		S2A-11A	74				.25	YES			
			K12-1	20				.25	YES		20	
A 14	1		S2B-9A	74				.25	YES			
			K13-1	20				.25	YES		20	
A 15	1		S2B-10A	74				.25	YES			
			K10-1	19				.25	YES		20	
A 16	1		S1B-1B	73				.25	YES			
			XDS1-10	57				.25	YES			
A 17	1		S1B-2B	73				.25	YES			
			XDS1-1	57				.25	YES			
A 18	1		S1B-3B	73				.25	YES			
			XDS1-2	57				.25	YES			
A 19	1		S1B-4B	73				.25	YES			
			XDS1-3	57				.25	YES			
A 20	1		S1B-5B	73				.25	YES			
			XDS1-4	57				.25	YES			
A 21	1		S1B-6B	73				.25	YES			
			XDS1-5	57				.25	YES			
A 22	1		S1B-7B	73				.25	YES			
			XDS1-6	57				.25	YES			
A 23	1		S1B-8B	73				.25	YES			
			XDS1-7	57				.25	YES			
A 24	1		S1B-9B	73				.25	YES			
			XDS1-8	57				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE REV LTR X D E SHEET 8 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		S1B-10B	73				.25	YES			
			XDS1-9	57				.25	YES			
A 26	1		S2B-1B	74				.25	YES			
			XDS1-20	57				.25	YES			
A 27	1		S2B-2B	74				.25	YES			
			XDS1-11	57				.25	YES			
A 28	1		S2B-3B	74				.25	YES			
			XDS1-12	57				.25	YES			
A 29	1		S2B-4B	74				.25	YES			
			XDS1-13	57				.25	YES			
A 30	1		S2B-5B	74				.25	YES			
			XDS1-14	57				.25	YES			
A 31	1		S2B-6B	74				.25	YES			
			XDS1-15	57				.25	YES			
A 32	1		S2B-7B	74				.25	YES			
			XDS1-16	57				.25	YES			
A 33	1		S2B-8B	74				.25	YES			
			XDS1-17	57				.25	YES			
A 34	1		S2B-9B	74				.25	YES			
			XDS1-18	57				.25	YES			
A 35	1		S2B-10B	74				.25	YES			
			XDS1-19	57				.25	YES			
A 36	1		S1B-1B	73				.25	YES			
			TB1-1	46				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE REV LTR X D E SHEET 9 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S1B-2B TB1-2	73 46				.25 .25	YES YES			
A 38	1		S1B-3B TB1-3	73 46				.25 .25	YES YES			
A 39	1		S1B-4B TB1-4	73 45				.25 .25	YES YES			
A 40	1		S1B-5B TB1-5	73 45				.25 .25	YES YES			
A 41	1		S1B-6B TB1-6	73 45				.25 .25	YES YES			
A 42	1		S1B-7B TB1-7	73 44				.25 .25	YES YES			
A 43	1		S1B-8B TB1-8	73 44				.25 .25	YES YES			
A 44	1		S1B-9B TB1-9	73 44				.25 .25	YES YES			
A 45	1		S1B-10B TB1-10	73 43				.25 .25	YES YES			
A 46	1		S2B-1B TB1-11	74 43				.25 .25	YES YES			
A 47	1		S2B-2B TB1-27	74 35				.25 .25	YES YES			
A 48	1		S2B-3B TB1-28	74 35				.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 10 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		S2B-4B TB1-29	74 35				.25 .25	YES YES			
A 50	1		S2B-5B TB1-30	74 37				.25 .25	YES YES			
A 51	1		S2B-6B TB1-31	74 37				.25 .25	YES YES			
A 52	1		S2B-7B TB1-32	74 37				.25 .25	YES YES			
A 53	1		S2B-8B TB1-33	74 38				.25 .25	YES YES			
A 54	1		S2B-9B TB1-34	74 38				.25 .25	YES YES			
A 55	1		S2B-10B TB1-35	74 38				.25 .25	YES YES			
A 56	1		TB1-1 J3-PP	46 1				.25 .20	YES NO		 10	
A 57	1		TB1-2 J3-NN	46 1				.25 .20	YES NO		 10	
A 58	1		TB1-3 J3-MM	46 1				.25 .20	YES NO		 10	
A 59	1		TB1-4 J3-LL	45 1				.25 .20	YES NO		 10	
A 60	1		TB1-5 J3-KK	45 1				.25 .20	YES NO		 10	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 11 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		TB1-6 J3-JJ	45 1				.25 .20	YES NO		 10	
A 62	1		TB1-7 J3-HH	44 1				.25 .20	YES NO		 10	
A 63	1		TB1-8 J3-GG	44 1				.25 .20	YES NO		 10	
A 64	1		TB1-9 J3-FF	44 1				.25 .20	YES NO		 10	
A 65	1		TB1-10 J3-EE	43 1				.25 .20	YES NO		 10	
A 66	1		TB1-11 J3-DD	43 1				.25 .20	YES NO		 10	
A 67	1		TB1-27 J3-CC	35 1				.25 .20	YES NO		 10	
A 68	1		TB1-28 J3-BB	35 1				.25 .20	YES NO		 10	
A 69	1		TB1-29 J3-AA	35 1				.25 .20	YES NO		 10	
A 70	1		TB1-30 J3-Z*	37 1				.25 .20	YES NO		 10	
A 71	1		TB1-31 J3-Y*	37 1				.25 .20	YES NO		 10	
A 72	1		TB1-32 J3-X*	37 1				.25 .20	YES NO		 10	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 12 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		TB1-33 J3-W*	38 1				.25 .20	YES NO		 10	
A 74	1		TB1-34 J3-V*	38 1				.25 .20	YES NO		 10	
A 75	1		TB1-35 J3-U*	38 1				.25 .20	YES NO		 10	
A 76	1		S2B-11B K2-2	74 26				.25 .25	YES YES		 9	
A 77	1		S15SW1-NC XDS15-A	53 53				.25 .25	YES YES		 20	
A 78	1		XDS15-A XDS15-C	53 53				.25 .25	YES YES		 20	
A 79	1		S15SW1-NC K1-1	53 25				.25 .25	YES YES		 9	
A 80	1		K1-1 K1-3	25 25				.25 .25	YES YES		 9	
A 81	1		K1-3 K2-3	25 26				.25 .25	YES YES		 9	
A 82	1		K2-3 K3-3	26 27				.25 .25	YES YES		 9	
A 83	1		K3-3 K4-3	27 28				.25 .25	YES YES		 9	
A 84	1		XDS15-C S7SW1-C	53 65				.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 13 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 ExD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		S7SW1-C	65				.25	YES			
			K16-4	18				.25	YES		20	
A 86	1		K16-4	18				.25	YES			
			K17-4	18				.25	YES		20	
A 87	1		K1-6	25				.25	YES		9	
			K2-4	26				.25	YES		9	
A 88	1		K2-4	26				.25	YES			
			J3-S*	1				.20	NO		10	
A 89	1		K2-7	26				.25	YES		9	
			J3-R*	1				.20	NO		10	
A 90	1		K2-6	26				.25	YES		9	
			K3-7	27				.25	YES		9	
A 91	1		K3-1	27				.25	YES		9	
			K4-6	28				.25	YES		9	
A 92	1		K4-6	28				.25	YES			
			J3-Q*	1				.20	NO		10	
A 93	1		K4-7	28				.25	YES		9	
			J3-P*	1				.20	NO		10	
A 94	1		K3-5	27				.25	YES		9	
			K14-4	21				.25	YES		20	
A 95	1		K14-4	21				.25	YES			
			K13-4	20				.25	YES		20	
A 96	1		K13-4	20				.25	YES			
			K12-4	20				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 14 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 ExD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		K12-4	20				.25	YES			
			K11-4	19				.25	YES		20	
A 98	1		K11-4	19				.25	YES			
			K10-4	19				.25	YES		20	
A 99	1		K10-3	19				.25	YES		20	
			K10-1	19				.25	YES			
A 100	1		K11-3	19				.25	YES		20	
			K11-1	19				.25	YES			
A 101	1		K12-3	20				.25	YES		20	
			K12-1	20				.25	YES			
A 102	1		K13-3	20				.25	YES		20	
			K13-1	20				.25	YES			
A 103	1		K14-3	21				.25	YES		20	
			K14-1	21				.25	YES			
A 104	1		K16-3	18				.25	YES		20	
			K16-1	18				.25	YES		20	
A 105	1		K16-1	18				.25	YES			
			K17-1	18				.25	YES		20	
A 106	1		K17-3	18				.25	YES		20	
			K17-1	18				.25	YES			
A 107	1		K16-2	18				.25	YES		20	
			K13-8	20				.25	YES		20	
A 108	1		K13-12	20				.25	YES		20	
			K17-7	18				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 15 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 ExD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		K17-2	18				.25	YES		20	
			K13-6	20				.25	YES		20	
A 110	1		K17-3	18				.25	YES			
			S14SW1-NO	52				.25	YES			
A 111	1		S14SW1-NO	52				.25	YES			
			XDS14-A	52				.25	YES		20	
A 112	1		XDS14-A	52				.25	YES			
			XDS14-C	52				.25	YES		20	
A 113	1		S6SW1-C	64				.25	YES			
			K18-5	17				.25	YES		20	
A 114	1		K18-5	17				.25	YES			
			K6-3	30				.25	YES		9	
A 115	1		K6-3	30				.25	YES			
			K6-1	30				.25	YES		9	
A 116	1		S6SW1-NC	64				.25	YES			
			XDS6-C	64				.25	YES		20	
A 117	1		XDS6-C	64				.25	YES			
			XDS6-D	64				.25	YES		20	
A 118	1		S6SW1-NC	64				.25	YES			
			K18-1	17				.25	YES		20	
A 119	1		K18-1	17				.25	YES			
			K18-3	17				.25	YES		20	
A 120	1		K5-2	29				.25	YES		9	
			S6SW2-C	64				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 16 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 ExD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		S6SW2-NC	64				.25	YES			
			K6-6	30				.25	YES		9	
A 122	1		S6SW2-NO	64				.25	YES			
			K18-4	17				.25	YES		20	
A 123	1		K5-1	29				.25	YES		9	
			K5-3	29				.25	YES		9	
A 124	1		K5-3	29				.25	YES			
			K19-5	17				.25	YES		20	
A 125	1		K19-5	17				.25	YES			
			S6SW3-C	64				.25	YES			
A 126	1		S6SW3-NC	64				.25	YES			
			K19-1	17				.25	YES		20	
A 127	1		K19-1	17				.25	YES			
			K19-3	17				.25	YES		20	
A 128	1		S6SW4-C	64				.25	YES			
			K18-7	17				.25	YES		20	
A 129	1		S6SW4-NC	64				.25	YES			
			K5-6	29				.25	YES		9	
A 130	1		S6SW4-NO	64				.25	YES			
			XDS6-A	64				.25	YES		20	
A 131	1		XDS6-A	64				.25	YES			
			XDS6-B	64				.25	YES		20	
A 132	1		S6SW4-NO	64				.25	YES			
			K19-4	17				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 17 OF 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		S7SW1-NC	65				.25	YES			
			K8-6	32				.25	YES		9	
A 134	1		S7SW1-NO	65				.25	YES			
			K7-2	31				.25	YES		9	
A 135	1		S7SW2-C	65				.25	YES			
			K7-4	31				.25	YES		9	
A 136	1		K7-4	31				.25	YES			
			K8-1	32				.25	YES		9	
A 137	1		K8-1	32				.25	YES			
			K8-3	32				.25	YES		9	
A 138	1		S7SW2-NC	65				.25	YES			
			XDS7-A	65				.25	YES		20	
A 139	1		XDS7-A	65				.25	YES			
			XDS7-C	65				.25	YES		20	
A 140	1		S7SW2-NC	65				.25	YES			
			K7-3	31				.25	YES		9	
A 141	1		K7-5	31				.25	YES		9	
			K7-3	31				.25	YES			
A 142	1		S3SW3-NO	61				.25	YES			
			XDS3-A	61				.25	YES		20	
A 143	1		XDS3-A	61				.25	YES			
			XDS3-C	61				.25	YES		20	
A 144	1		S4SW3-NO	62				.25	YES			
			XDS4-A	62				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ✱DE	SHEET 18 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		XDS4-A	62				.25	YES			
			XDS4-C	62				.25	YES		20	
A 146	1		S8SW3-NC	66				.25	YES			
			XDS8-A	66				.25	YES		20	
A 147	1		XDS8-A	66				.25	YES			
			XDS8-B	66				.25	YES		20	
A 148	1		S8SW3-NO	66				.25	YES			
			XDS8-C	66				.25	YES		20	
A 149	1		XDS8-C	66				.25	YES			
			XDS8-D	66				.25	YES		20	
A 150	1		S12SW3-NC	50				.25	YES			
			XDS12-A	50				.25	YES		20	
A 151	1		XDS12-A	50				.25	YES			
			XDS12-B	50				.25	YES		20	
A 152	1		S12SW3-NO	50				.25	YES			
			XDS12-C	50				.25	YES		20	
A 153	1		XDS12-C	50				.25	YES			
			XDS12-D	50				.25	YES		20	
A 154	1		S11SW3-NC	49				.25	YES			
			XDS11-A	49				.25	YES		20	
A 155	1		XDS11-A	49				.25	YES			
			XDS11-B	49				.25	YES		20	
A 156	1		S11SW3-NO	49				.25	YES			
			XDS11-C	49				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ✱DE	SHEET 19 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		XDS11-C	49				.25	YES			
			XDS11-D	49				.25	YES		20	
A 158	1		S10SW3-NC	68				.25	YES			
			XDS10-A	68				.25	YES		20	
A 159	1		XDS10-A	68				.25	YES			
			XDS10-B	68				.25	YES		20	
A 160	1		S10SW3-NO	68				.25	YES			
			XDS10-C	68				.25	YES		20	
A 161	1		XDS10-C	68				.25	YES			
			XDS10-D	68				.25	YES		20	
A 162	1		S5SW3-NC	63				.25	YES			
			XDS5-A	63				.25	YES		20	
A 163	1		XDS5-A	63				.25	YES			
			XDS5-B	63				.25	YES		20	
A 164	1		S5SW3-NO	63				.25	YES			
			XDS5-C	63				.25	YES		20	
A 165	1		XDS5-C	63				.25	YES			
			XDS5-D	63				.25	YES		20	
A 166	1		K15-12	21				.25	YES		20	
			S16SW1-C	54				.25	YES			
A 167	1		S16SW1-NC	54				.25	YES			
			K9-6	33				.25	YES		9	
A 168	1		S16SW1-NO	54				.25	YES			
			K15-3	21				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ✱DE	SHEET 20 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		S16SW2-NC	54				.25	YES			
			XDS16-A	54				.25	YES		20	
A 170	1		XDS16-A	54				.25	YES			
			XDS16-C	54				.25	YES		20	
A 171	1		S16SW2-NC	54				.25	YES			
			K15-2	21				.25	YES		18	
A 172	1		K15-2	21				.25	YES			
			K15-4	21				.25	YES		18	
A 173	1		S16SW2-C	54				.25	YES			
			K15-1	21				.25	YES		20	
A 174	1		K15-1	21				.25	YES			
			K9-3	33				.25	YES		9	
A 175	1		K9-3	33				.25	YES			
			K9-1	33				.25	YES		9	
A 176	1		S9SW1-NC	67				.25	YES			
			XDS9-A	67				.25	YES		20	
A 177	1		XDS9-A	67				.25	YES			
			XDS9-B	67				.25	YES		20	
A 178	1		S9SW1-NC	67				.25	YES			
			S10SW3-C	68				.25	YES			
A 179	1		S10SW3-C	68				.25	YES			
			S11SW3-C	49				.25	YES			
A 180	1		S9SW1-NO	67				.25	YES			
			XDS9-C	67				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ✱DE	SHEET 21 OF ~~44~~ 47

WIRING HARNESS A   2901152   E ✗D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		XDS9-C	67				.25	YES			
			XDS9-D	67				.25	YES		20	
A 182	1		S9SW1-NO	67				.25	YES			
			S12SW3-C	50				.25	YES			
A 183	1		S12SW3-C	50				.25	YES			
			K20-1	15				.25	YES		20	
A 184	1		PS2-2	12				.25	YES			
			R3-1	78				.25	YES			
A 185	1		R3-3	78				.25	YES			
			TB1-12	43				.25	YES			
A 186	1		TB1-26	40				.25	YES			
			PS2-5	12				.25	YES			
A 187	14				1.82	1.50				B,6B	16, 12	
					1.82	1.50					12	
A 187A	1		SHLD A187					.25	NO			
			J4-C	2				.25	NO		11	A188A IN THIS PIN
A 187L			J4-A	2				.25	NO		11	A188L IN THIS PIN
			PS1-1	7				.25	YES			
A 187R			J4-B	2				.25	NO		11	A188R IN THIS PIN
			PS1-2	7				.25	YES			
A 188	14				1.82	1.50				B,6B	16, 12	
					1.82	1.50					12	
A 188A	1		SHLD A188					.25	NO			
			J4-C	2				.25	NO			

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR ✗~~D~~E | SHEET 22 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A   2901152   E ✗D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 188L			J4-A	2				.25	NO			
			PS2-11	12				.25	YES			
A 188R			J4-B	2				.25	NO			
			PS2-12	12				.25	YES			
A 189	1		PS1-4	7				.25	YES			
			TB2-1	10				.25	NO		21	
A 190	1		PS2-14	12				.25	YES			
			TB2-2	11				.25	NO		21	
A 191	1		PS1-3	7				.25	YES			
			XF2-1	77				.25	YES		19	
A 192	1		PS2-13	12				.25	YES			
			XF3-1	69				.25	YES		19	
A 193	1		K15-10	21				.25	YES		20	
			TB2-3	10				.25	NO		21	
A 194	1		XF2-2	77				.25	YES			
			K15-12	21				.25	YES		20	
A 195	1		XF3-2	69				.25	YES			
			K15-5	21				.25	YES		20	
A 196	1		K15-9	21				.25	YES		18	
			E1	8				.25	NO			
A 197	1		K15-13	21				.25	YES		18	
			E2	9				.25	NO			
A 198	1		K15-6	21				.25	YES		18	
			E3	13				.25	NO			

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR ✗~~D~~E | SHEET 23 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A   2901152   E ✗D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 199	1		K9-7	33				.25	YES		9	
			K15-11	21				.25	YES		20	
A 200	1		K15-11	21				.25	YES			
			K15-10	21				.25	YES			
A 201	1		E1	8				.25	NO			
			J1-S	24				.25	YES		9	
A 202	1		E3	13				.25	NO			
			J1-R	24				.25	YES		9	
A 203L	1		E1	8				.25	NO			SEE NOTE 15
			J3-N*	1				.20	NO		10	
A 203R	1		E3	13				.25	NO			SEE NOTE 15
			J3-M*	1				.20	NO		10	
A 204L	1		E1	8				.25	NO			SEE NOTE 15
			J3-K*	1				.20	NO		10	
A 204R	1		E2	9				.25	NO			SEE NOTE 15
			J3-J*	1				.20	NO		10	
A 205L	1		J1-P	24				.25	YES		9	SEE NOTE 15
			J3-I*	1				.20	NO		10	
A 205R	1		J1-N	24				.25	YES		9	SEE NOTE 15
			J3-H*	1				.20	NO		10	
A 206L	1		K22-5	18A				.25	~~NO~~YES		20	SEE NOTE 15
			R2-COM	75				.25	YES			
A 206R	1		K22-8	18A				.25	NO			SEE NOTE 15
			R2-IN	75				.25	YES			

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR ✗~~D~~E | SHEET 24 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A   2901152   E ✗D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		E1	8				.25	NO			
			K11-7	19				.25	YES		20	
A 208	1		R2-OUT	75				.25	YES			
			K11-10	19				.25	YES		20	
A 209	1		E4	47				.25	NO			
			S15SW1-C	53				.25	YES			
A 210	1		S15SW1-C	53				.25	YES			
			S14SW1-C	52				.25	YES			
A 211	1		E4	47				.25	NO			
			S9SW1-C	67				.25	YES			
A 212	1		S9SW1-C	67				.25	YES			
			S8SW3-C	66				.25	YES			
A 213	1		E4	47				.25	NO			
			S5SW3-C	63				.25	YES			
A 214	1		S5SW3-C	63				.25	YES			
			S4SW3-C	62				.25	YES			
A 215	1		S4SW3-C	62				.25	YES			
			S3SW3-C	61				.25	YES			
A 216	1		E4	47				.25	NO			
			E2	9				.25	NO			
A 217	1		K7-6	31				.25	YES		9	
			K13-13	20				.25	YES		20	
A 218	1		E2	9				.25	NO			
			K5-4	29				.25	YES		9	

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR ✗~~D~~E | SHEET 25 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A

2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	1		K5-4 K3-2	29 27				.25 .25	YES YES		 9	
A 220	1		K4-2 K2-4	28 26				.25 .25	YES YES		9 ~~8~~	
A 221	1		E2 K18-8	9 17				.25 .25	NO YES		 20	
A 222	1		K18-8 J1-J	17 24				.25 .25	YES YES		 9	
A 223	1		J1-J J2-J	24 23				.25 .25	YES YES		 9	
A 224	1		XDS3-G XDS4-G	61 62				.25 .25	YES YES		20 20	
A 225	1		XDS4-G XDS5-G	62 63				.25 .25	YES YES		 20	
A 226	1		XDS5-G E5	63 51				.25 .25	YES NO			
A 227	1		XDS6-G XDS7-G	64 65				.25 .25	YES YES		20 20	
A 228	1		XDS7-G XDS8-G	65 66				.25 .25	YES YES		 20	
A 229	1		XDS8-G E5	66 51				.25 .25	YES NO			
A 230	1		XDS9-G XDS10-G	67 68				.25 .25	YES YES		20 20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~E	SHEET 26 OF ~~44~~ 47

WIRING HARNESS A

2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 231	1		XDS10-G XDS11-G	68 49				.25 .25	YES YES		 20	
A 232	1		XDS11-G XDS12-G	49 50				.25 .25	YES YES		 20	
A 233	1		XDS12-G E5	50 51				.25 .25	YES NO			
A 234	1		XDS16-G XDS15-G	54 53				.25 .25	YES YES		20 20	
A 235	1		XDS15-G XDS14-G	53 52				.25 .25	YES YES		 20	
A 236	1		XDS14-G ~~E5~~XDS13-G	52 51A				.25 .25	YES ~~NO~~YES		 20	
A 237	1		XDS1-G B1-GND	57 58				.25 .25	YES YES			
A 238	1		B1-GND R2-GND	58 75				.25 .25	YES YES			
A 239	1		R2-GND E5	75 51				.25 .25	YES NO			
A 240	1		B2-GND R1-GND	56 72				.25 .25	YES YES			
A 241	1		R1-GND E5	72 51				.25 .25	YES NO			
A 242	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~E	SHEET 27 OF ~~44~~ 47

WIRING HARNESS A

2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 242B	1		E11 SHLD A242	48				.25 .25	NO NO			
A 242L			J8 E6	6 79				.25 .25	YES NO			
A 242R			J7 XF5-1	5 71				.25 .25	YES YES		 19	
A 243	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	
A 243B	1		E11 SHLD A243	48				.25 .25	NO NO			
A 243L			J6 E6	4 79				.25 .25	YES NO			
A 243R			J5 XF4-1	3 70				.25 .25	YES YES		 19	
A 244	1		XF5-2 S9SW2-NO	71 67				.25 .25	YES YES			
A 245	1		XF4-2 S9SW2-NC	70 67				.25 .25	YES YES			
A 246	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	
A 246B	1		E7 SHLD A246	16				.25 .25	NO NO			
A 246L			S12SW2-NO T1-2	50 15				.25 .25	YES YES		 20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~E	SHEET 28 OF ~~44~~ 47

WIRING HARNESS A

2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 246R			S12SW1-NO T1-1	50 15				.25 .25	YES YES		 20	
A 247	1		E6 S9SW3-NO	79 67				.25 .25	YES YES			
A 248	1		E6 S9SW3-NC	79 67				.25 .25	NO YES			
A 249	2				1.82 1.82	1.50 1.50				 B,6A	12 12, 16	
A 249B	1		E7 SHLD A249	16				.25 .25	NO NO			
A 249L			S9SW3-C K20-4	67 15				.25 .25	YES YES		 20	
A 249R			S9SW2-C K20-7	67 15				.25 .25	YES YES		 20	
A 250	2				2.32 2.82	2.00 2.50				B,6A	12, 16 12	
A 250A	1		SHLD A250 E7	 16				.25 .25	NO NO			
A 250L			K20-5 B1-5	15 58				.25 .25	YES YES		20	
A 250R			K20-8 B1-1	15 58				.25 .25	YES YES		20	
A 251	2				2.32 2.82	2.00 2.50				B,6A	12, 16 12	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~E	SHEET 29 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251A	1		SHLD A251					.25	NO			
			E7	16				.25	NO			
A 251L			K20-3	15				.25	YES		20	
			B2-5	56				.25	YES			
A 251R			K20-6	15				.25	YES		20	
			B2-1	56				.25	YES			
A 252	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 252B	1		E7	16				.25	NO			
			SHLD A252					.25	NO			
A 252L			B1-4	58				.25	YES			
			K20-11	15				.25	YES		20	
A 252R			B1-3	58				.25	YES			
			K20-14	15				.25	YES		20	
A 253	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 253B	1		E7	16				.25	NO			
			SHLD A253					.25	NO			
A 253L			B2-4	56				.25	YES			
			K20-9	15				.25	YES		20	
A 253R			B2-3	56				.25	YES			
			K20-12	15				.25	YES		20	
A 254	1		K20-13	15				.25	YES		20	
			J1-A	24				.25	YES		9	

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~ E | SHEET 30 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 255	1		K20-10	15				.25	YES		20	
			J1-B	24				.25	YES		9	
A 256	1		B1-2	58				.25	YES			
			J1-D	24				.25	YES		9	
A 257	1		B2-2	56				.25	YES			
			J1-F	24				.25	YES		9	
A 258	1		K20-12	15				.25	YES			
			J1-C	24				.25	YES		9	
A 259	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 259A	1		SHLD A259					.25	NO			
			E13	22				.25	NO			
A 259L			J1-L	24				.25	YES		9	
			R1-COM	72				.25	YES			
A 259R			J1-E	24				.25	YES		9	
			R1-IN	72				.25	YES			
A 260	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 260A	1		SHLD A260					.25	NO			
			E13	22				.25	NO			
A 260L			J2-B	23				.25	YES		9	
			R1-COM	72				.25	YES			
A 260R			J1-H	24				.25	YES		9	
			R1-OUT	72				.25	YES			

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~ E | SHEET 31 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 261	1		J1-Y	24				.25	YES		9	
			J2-A	23				.25	YES		9	
A 262	1		J2-Y	23				.25	YES		9	
			K20-19	15				.25	YES		20	
A 263	1		J2-Z	23				.25	YES		9	
			K20-16	15				.25	YES		20	
A 264	2				1.82	1.50				B,6A	12, 16	
					1.82	1.50					12	
A 264A	1		SHLD A264					.25	NO			
			E13	22				.25	NO			
A 264L			J2-Z	23				.25	YES		9	
			J17	55				.25	YES			
A 264R			J2-Y	23				.25	YES		9	
			J16	55				.25	YES			
A 265	1		S9SW2-C	67				.25	YES			
			S5SW1-NC	63				.25	YES			
A 266	1		S9SW3-C	67				.25	YES			
			S5SW2-NC	63				.25	YES			
A 267	1		S9SW2-NC	67				.25	YES			
			S10SW1-NO	68				.25	YES			
A 268	1		S9SW3-NC	67				.25	YES			
			S10SW2-NO	68				.25	YES			
A 269	1		S10SW1-NO	68				.25	YES			
			S11SW1-NO	49				.25	YES			

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~ E | SHEET 32 OF ~~44~~ 47

MIL 20 9-6

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 270	1		S10SW2-NO	68				.25	YES			
			S11SW2-NO	49				.25	YES			
A 271	1		S9SW2-NO	67				.25	YES			
			S12SW1-NO	50				.25	YES			
A 272	1		S9SW3-NO	67				.25	YES			
			S12SW2-NO	50				.25	YES			
A 273	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 273A	1		SHLD A273					.25	NO			
			E7	16				.25	NO			
A 273L			K20-17	15				.25	YES		20	
			S10SW2-NC	68				.25	YES			
A 273R			K20-20	15				.25	YES		20	
			S10SW1-NC	68				.25	YES			
A 274	1		S10SW1-NC	68				.25	YES			
			S11SW1-NC	49				.25	YES			
A 275	1		S10SW2-NC	68				.25	YES			
			S11SW2-NC	49				.25	YES			
A 276	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 276A	1		SHLD A276					.25	NO			
			E7	16				.25	NO			
A 276L			K20-15	15				.25	YES		20	
			S12SW2-NC	50				.25	YES			

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~ E | SHEET 33 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 276R			K20-18	15				.25	YES		20	
			S12SW1-NC	50				.25	YES			
A 277	1		K20-19	15				.25	YES			
			K14-10	21				.25	YES		20	
A 278	1		K20-16	15				.25	YES			
			K14-7	21				.25	YES		20	
A 279	1		K14-9	21				.25	YES		20	
			K12-9	20				.25	YES		20	
A 280	1		K14-6	21				.25	YES		20	
			K12-6	20				.25	YES		20	
A 281	1		K12-9	20				.25	YES			
			K11-9	19				.25	YES		20	
A 282	1		K12-6	20				.25	YES			
			K11-6	19				.25	YES		20	
A 283	1		K11-9	19				.25	YES			
			K10-9	19				.25	YES		20	
A 284	1		K11-6	19				.25	YES			
			K10-6	19				.25	YES		20	
A 285	1		K10-9	19				.25	YES			
			K16-10	18				.25	YES		20	
A 286	1		K10-6	19				.25	YES			
			K16-7	18				.25	YES		20	
A 287	1		K13-9	20				.25	YES		20	
			K16-10	18				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 34 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 288	1		K13-12	20				.25	YES			
			K16-7	18				.25	YES			
A 289	1		K13-9	20				.25	YES			
			K17-10	18				.25	YES		20	
A 290	1		K17-10	18				.25	YES			
			K19-9	17				.25	YES		20	
A 291	1		K17-7	18				.25	YES			
			K19-6	17				.25	YES		20	
A 292	1		K17-9	18				.25	YES		20	
			K16-9	18				.25	YES		20	
A 293	1		K17-6	18				.25	YES		20	
			K16-6	18				.25	YES		20	
A 294	3				1.82	1.50				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 294A	1		SHLD A294					.25	NO			
			K16-6	18				.25	YES			
A 294B	1		E9	80				.25	NO			
			SHLD A294					.25	NO			
A 294E			K16-9	18				.25	YES			
			XF1-1	76				.25	YES		19	
A 295	3				2.32	2.00				B,6A	12, 16	
					1.82	1.50				B,6B	12, 16	
A 295A	1		SHLD A295					.25	NO			
			E9	80				.25	NO			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 35 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295B	1		J3-G*	1				.20	NO		10	
			SHLD A295					.25	NO			
A 295E			XF1-2	76				.25	YES			
			J3-F*	1				.20	NO		10	
A 296	4				.32						13	
					1.82	1.50				B,6A	13, 16	
A 296B	1		E10	34				.25	NO			
			SHLD A296					.25	NO			
A 296E			J9-I	60				.13	NO			
			S8SW1-C	66				.25	YES			
A 296X			J9-O	60						A,8		
			SHLD A296									
A 297	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 297A	1		SHLD A297					.25	NO			
			E10	34				.25	NO			
A 297B	1		TB1-39	41				.25	YES			
			SHLD A297					.25	NO			
A 297E			S8SW1-NO	66				.25	YES			
			TB1-38	41				.25	YES			
A 298	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 298A	1		SHLD A298					.25	NO			
			TB1-39	41				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 36 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 298B	1		E10	34				.25	NO			
			SHLD A298					.25	NO			
A 298E			TB1-13	42				.25	YES			
			S8SW2-NO	66				.25	YES			
A 299	1		S8SW1-NC	66				.25	YES			
			S8SW2-NC	66				.25	YES			
A 300	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 300A	1		SHLD A300					.25	NO			
			E10	34				.25	NO			
A 300B	1		K12-7	20				.25	YES		20	
			SHLD A300					.25	NO			
A 300E			S8SW2-C	66				.25	YES			
			K12-10	20				.25	YES		20	
A 301	1		K7-5	31				.25	YES			
			K13-10	20				.25	YES		20	
A 302	1		J13	59				.25	YES			
			K10-10	19				.25	YES		20	
A 303	1		J14	59				.25	YES			
			K10-7	19				.25	YES		20	
A 304	1		J15	59				.25	YES			
			J3-U	1				.20	NO		10	
A 305	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6B	12, 16	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 37 OF ~~44~~ 47

MIL 2084 65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305A	1		SHLD A305					.25	NO			
			J3-E*	1				.20	NO		10	
A 305B	1		K18-9	17				.25	YES		20	
			SHLD A305					.25	NO			
A 305E			J3-D*	1				.20	NO		10	
			K18-12	17				.25	YES		20	
A 306	1		K18-13	17				.25	YES		20	
			K19-11	17				.25	YES		20	
A 307	1		K18-10	17				.25	YES		20	
			K19-8	17				.25	YES		20	
A 308	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6B	12, 16	
A 308A	1		SHLD A308					.25	NO			
			K19-7	17				.25	YES		20	
A 308B	1		S3SW2-C	61				.25	YES			
			SHLD A308					.25	NO			
A 308E			K19-10	17				.25	YES		20	
			S3SW1-C	61				.25	YES			
A 309	1		S3SW1-C	61				.25	YES			
			S4SW1-C	62				.25	YES			
A 310	1		S3SW2-C	61				.25	YES			
			S4SW2-C	62				.25	YES			
A 311	1		S4SW1-NO	62				.25	YES			
			S5SW1-NO	63				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 38 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 312	1		S4SW2-NO	62				.25	YES			
			S5SW2-NO	63				.25	YES			
A 313	1		S3SW1-NO	61				.25	YES			
			J10	59				.25	YES			
A 314	1		S3SW2-NO	61				.25	YES			
			J11	59				.25	YES			
A 315	1		E5	51				.25	NO			
			J12	59				.25	YES			
A 316	1		S5SW1-C	63				.25	YES			
			J18	55				.25	YES			
A 317	1		S5SW2-C	63				.25	YES			
			J19	55				.25	YES			
A 318	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 318A	1		SHLD A318					.25	NO			
			E11	48				.25	NO			
A 318L			S10SW2-C	68				.25	YES			
			J3-C*	1				.20	NO		10	
A 318R			S10SW1-C	68				.25	YES			
			J3-B*	1				.20	NO		10	
A 319	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 319A	1		SHLD A319					.25	NO			
			E11	48				.25	NO			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 39 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319L			S11SW2-C	49				.25	YES			
			J3-A*	1				.20	NO		10	
A 319R			S11SW1-C	49				.25	YES			
			J3-Z	1				.20	NO		10	
A 320	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 320A	1		SHLD A320					.25	NO			
			E11	48				.25	NO			
A 320L			S12SW2-C	50				.25	YES			
			J3-Y	1				.20	NO		10	
A 320R			S12SW1-C	50				.25	YES			
			J3-X	1				.20	NO		10	
A 321	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 321A	1		SHLD A321					.25	NO			
			E7	16				.25	NO			
A 321L			T1-4	15				.25	YES		20	
			J3-W	1				.20	NO		10	
A 321R			T1-3	15				.25	YES		20	
			J3-V	1				.20	NO		10	
A 322	1		K1-7	25				.25	YES		9	
			K2-1	26				.25	YES		9	
A 323	1		K2-1	26				.25	YES			
			K5-7	29				.25	YES		9	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 40 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 324	1		K5-7	29				.25	YES			
			K6-7	30				.25	YES		9	
A 325	1		K6-7	30				.25	YES			
			K7-7	31				.25	YES		9	
A 326	1		K7-7	31				.25	YES			
			K7-1	31				.25	YES		9	
A 327	1		K8-7	32				.25	YES		9	
			K7-1	31				.25	YES			
A 328	1		E12	14				.25	NO			
			K14-2	21				.25	YES		20	
A 329	1		K14-2	21				.25	YES			
			K13-2	20				.25	YES		20	
A 330	1		K13-2	20				.25	YES			
			K13-7	20				.25	YES		20	
A 331	1		K13-7	20				.25	YES			
			K12-2	20				.25	YES		20	
A 332	1		K12-2	20				.25	YES			
			K11-2	19				.25	YES		20	
A 333	1		K11-2	19				.25	YES			
			K10-2	19				.25	YES		20	
A 334	1		E12	14				.25	NO			
			K20-2	15				.25	YES		20	
A 335	1		K20-2	15				.25	YES			
			K19-2	17				.25	YES		20	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 41 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 336	1		K19-2 K18-2	17 17				.25 .25	YES YES		 20	
A 337	1		E6 TB2-4	79 11				.25 .25	NO NO		 21	
A 338	1		E7 TB2-5	16 10				.25 .25	NO NO		 21	
A 339	1		E10 TB2-6	34 11				.25 .25	NO NO		 21	
A 340	1		E11 TB2-7	48 10				.25 .25	NO NO		 21	
A 341	1		E12 TB2-8	14 11				.25 .25	NO NO		 21	
A 342	26		E8 TB2-16	 11				.30 .30	NO NO		27 28	
A 343	1		TB1-15 TB2-9	36 10				.25 .25	YES NO		 21	
A 344	1		~~E12~~ K21-7 K8-7	~~14~~ 33A 32				.25 .25	~~NO~~ YES YES		20	
A 345	1		T1-2 T1-4	15 15				.25 .25	YES YES			
A 346	1		J3-T* TB2-10	1 11				.20 .25	NO NO		10 21	
A 347	1		K4-3 K3-6	28 27				.25 .25	YES YES		 9	

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~E | SHEET 42 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 348	1		E13 TB2-11	22 10				.25 .25	NO NO		 21	
A 349	1		J3-T TB2-12	1 11				.20 .25	NO NO		10 21	
A 350	1		J3-S TB2-12	1 11				.20 .25	NO NO		10 21	
A 351	1		J3-R TB2-13	1 10				.20 .25	NO NO		10 21	
A 352	1		K15-4 TB1-36	21 39				.25 .25	YES YES			
A 353	1		S2C-5A S1C-11A	74 73				.25 .25	YES YES			
A 354	1		S1C-9A K21-3	73 33A				.25 .25	YES YES		 9	
A 355	1		K21-3 K21-5	33A 33A				.25 .25	YES YES		 9	
A 356	1		S1C-7A S13SW1-C	73 51A				.25 .25	YES YES			
A 357	1		S13SW1-NO K21-1	51A 33A				.25 .25	YES YES		 9	
A 358	1		K21-6 S1C-10A	33A 73				.25 .25	YES YES		9	
A 359	1		K21-6 K22-1	33A 33A				.25 .25	YES YES		 20	

SIZE A | CODE IDENT NO. 99974 | 2901152

SCALE-NONE | REV LTR ~~D~~E | SHEET 43 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 XXXXXXX E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 360	1		S1A-11A S2C-11A	73 74				.25 .25	YES YES			
A 361	1		K22-3 K22-8	18A 18A				.25 .25	YES YES		20 20	
A 362	1		K22-5 K22-6	18A 18A				.25 .25	YES YES		20 20	
A 363	1		K3-5 K21-8	27 33A				.25 .25	YES YES		 9	
A 364	1		K21-8 K21-2	33A 33A				.25 .25	YES YES		 9	
A 365	1		K11-3 K22-10	19 18A				.25 .25	YES YES		 20	
A 366	1		K22-11 XDS13-A	18A 51A				.25 .25	YES YES		20 20	
A 367	1		XDS13-A XDS13-B	51A 51A				.25 .25	YES YES		 20	
A 368	1		K22-9 XDS13-C	18A 51A				.25 .25	YES YES		 20	
A 369	1		XDS13-C XDS13-D	51A 51A				.25 .25	YES YES		 20	
A 370L	1		J3-N K22-4	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A 370R	1		J3-P K22-7	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15

SIZE A | CODE IDENT NO. 99974 | 2901152 XXXXXXX

SCALE-NONE | REV LTR ~~D~~E | SHEET 44 OF 47

WIRING HARNESS A 2901152 XXXXXXX E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS CHANNEL
A 371L	1		J3-K K23-7	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A 371R	1		J3-L K23-10	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A 372			S1B-2A K23-1	73 18A				.25 .25	YES YES		 20	
A 373			K23-1 K23-3	18A 18A				.25 .25	YES YES		 20	
A 374			K10-4 K23-4	19 18A				.25 .25	YES YES		 20	
A 375			K23-6 K14-6	18A 21				.25 .25	YES YES		20	
A 376			K23-9 K14-9	18A 21				.25 .25	YES YES		20	
A 377			K10-2 K22-2	19 18A				.25 .25	YES YES		 20	
A 378			K22-2 K23-3	18A 18A				.25 .25	YES YES		 20	
A 379	1		K21-7 E12	33A 14				.25 .25	YES NO		9	
A 380	1		XDS13-G E5	51A 51				.25 .25	YES NO			
A 381	1		J3-M TB2-14	1 11				.20 .25	NO NO		10 21	

SIZE A | CODE IDENT NO. 99974 | 2901152 XXXXXXX

SCALE-NONE | REV LTR ~~D~~E | SHEET 45 OF ~~44~~ 47

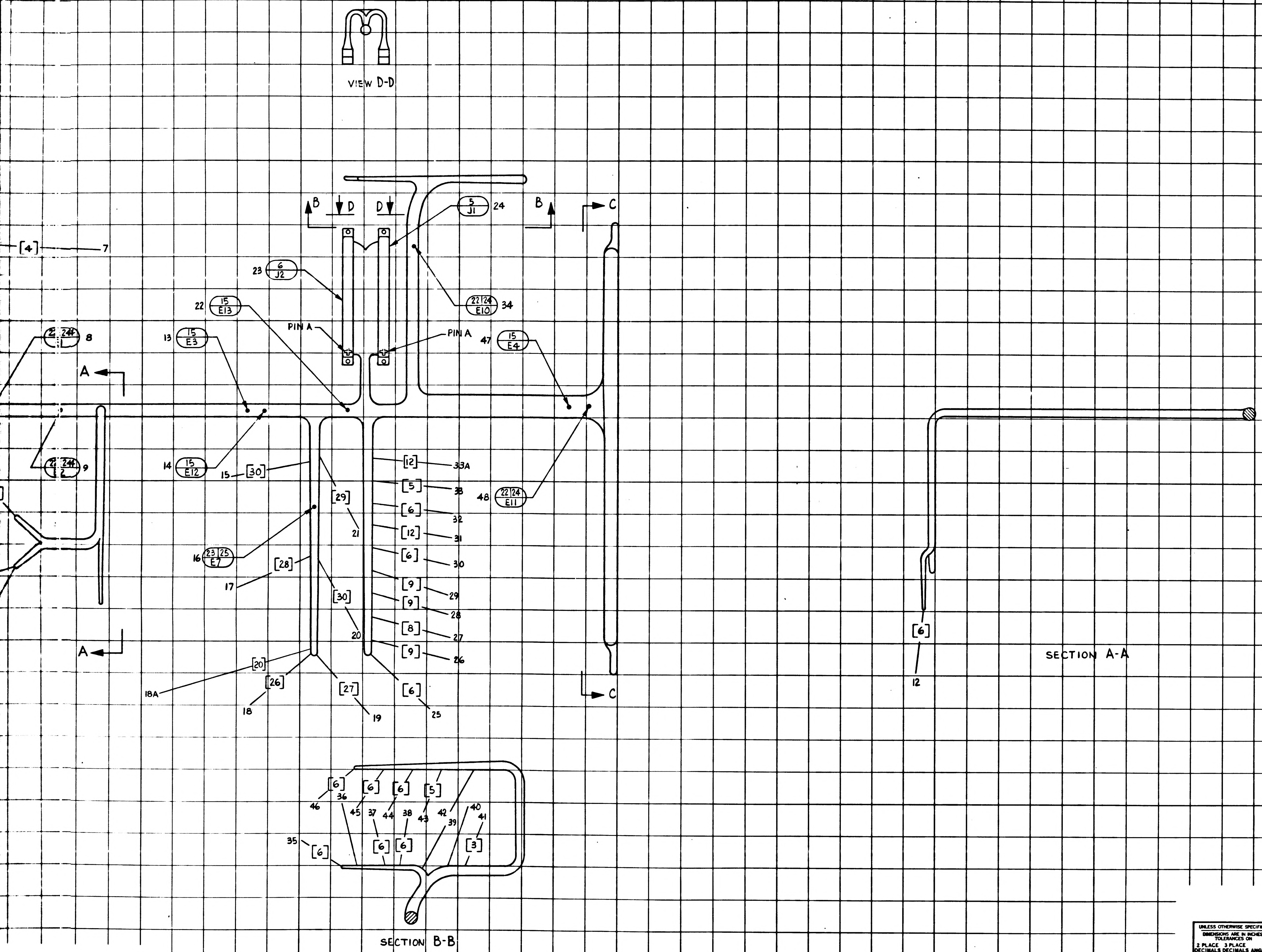
MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT. FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 382	1		J3-J	1				.20	NO		10	
			TB2-14	11				.25	NO		21	
A 383	1		R2~~BC~~-COM	75				.25	YES			
			E1	8				.25	NO			

28657

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



VIEW D-D
B
D
D
B
C
C
5 J1 24
6 J2 23
22 15 E13
22 24 E10 34
PIN A
PIN A
13 15 E3
47 15 E4
[4] 7
22 24 8
22 24 9
A
A
14 15 E12
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[29] 21
16 23 25 E7
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[8] 27
[9] 26
[6] 25
48 22 24 E11
[6] 12
SECTION A-A
[6] 46 36
[6] 45
[6] 37 44
[5] 38 43
42 40 39 41
[6] [6]
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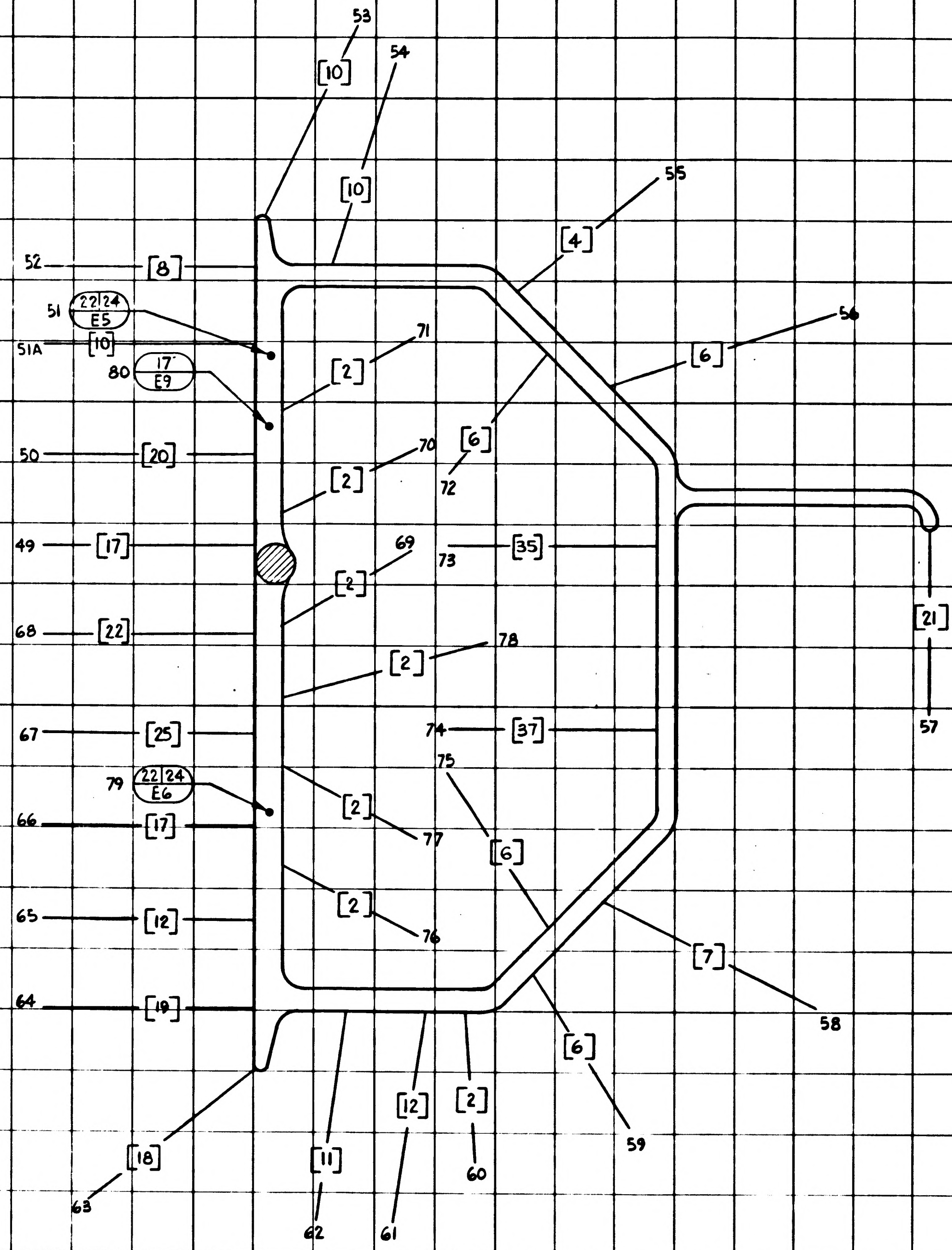
35 [6]
SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
2 PLACE DECIMALS + — 3 PLACE DECIMALS + — ANGLES + —	DRAWN SPLANE DATE FEB 66 CHECKED C. Wilson 8 MAR 66 APPROVAL Johnson 5/4/66 CONTRACT NAS 9-497	WIRING HARNESS "A"
DO NOT SCALE THIS DRAWING		
MATERIAL —	NASA APPROVAL	SIZE J2 · CODE IDENT NO. 99974 · 2901152
APPROVAL	MIT APPROVAL	SCALE — · SHEET 47 OF 47

2901152 E


53
[10]
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22 24 E5
51A
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17 E9
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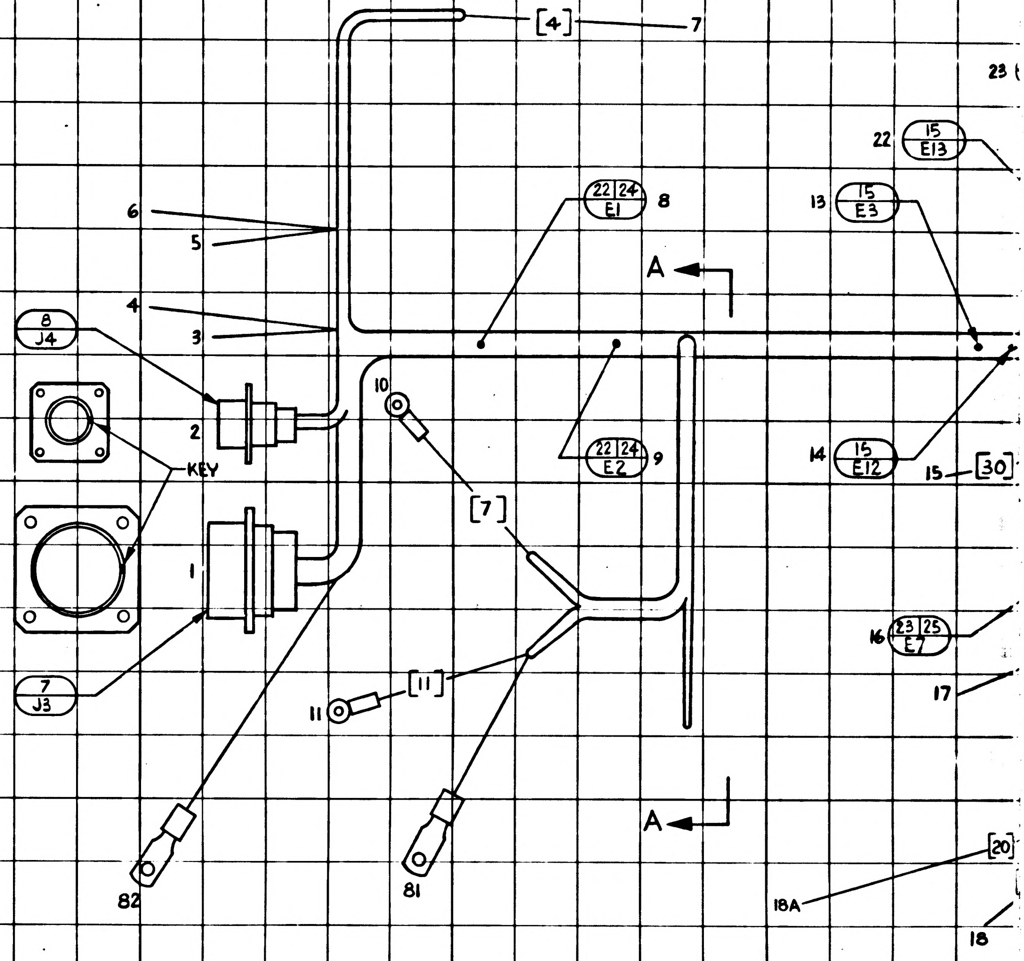
SECTION C-C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15 E13
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23 25 E7
7 J3
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18A
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2901152

1/2901152

APPLICATION	
NEXT ASSY	USED ON
2900896-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV - WITH CHANGE PER MXC-210031	17-MAR-66	B. W.A.
B	REVISED PER MXC-210604.	31 MAR 66	RWT AU
C	REVISED PER MXC 210963	11 APR 66	J.H.P.
D	REVISED PER MXC 211981	29 APR 66	RP
Ⓜ E	INITIAL RELEASE CLASS A PER TDRR 28657	3-MAY-66	GH EF
F	REVISED PER TDRR 30472	10 AUG '66	JI RLW

REV	F			
SHEET	47			

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46

REV STATUS OF SHEETS	REV				F	E	E	E	F	F	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN $PLANE 16 FEB 66 (DAY MO YR)
CHECKER WILSON 8 MAR 66
ENGINEER G YOHPE 8 MAR 66
APPROVAL [illegible] 5/16/66
CONTR NO. NAS9-497
NASA APPROVAL [illegible] 5/16/66
MIT APPROVAL [illegible]

WIRING HARNESS "A"

SIZE A | CODE IDENT. NO 99974 | 2901152

SCALE NONE | SHEET 1 OF 47

MIL 1377A6 12-65

WIRING HARNESS A 2901152 E ~~D~~

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 33.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 33.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

9 APPLY LEAD IDENTIFICATIONS PER ND1002019. UNIT ALL SUFFIX LETTERS EXCEPT A AND B. THIS DOES NOT APPLY TO LEADS A203 THRU A206, A370 AND A371.

10 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.

11 ~~DELETED~~ SOLDER PER ND1002071 USING ITEM 31 OR ITEMS 29 AND 30.

12 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

13 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 2 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E ~~D~~

NOTE NUMBER | GENERAL NOTES DESCRIPTION

14 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - SHIELD LEAD ON FRONT END
B - SHIELD LEAD ON TO END
E - GRAY
L - BLUE, WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER.
R - RED, WHITE WITH LETTER R OR WHITE WITH RED TRACER.
X - LEAD SHIELD

15 THE FOLLOWING MULTI LEADS SHALL BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES OR NOT LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. AFTER TWISTING, CABLE WITH ITEM 12 APPROXIMATELY 3 INCHES FROM EACH END
AS TWISTED PAIRS
A203L, A203R A370L, A370R
A204L, A204R A371L, A371R
A205L, A205R
A206L, A206R

16 ITEMS 10 AND 11 ARE FURNISHED WITH ITEMS 7 AND 8 RESPECTIVELY.

17 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

18 ASSEMBLE PER ND1002032

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 3 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E ~~D~~

NOTE NUMBER | GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 4 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 F

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901152-001	WIRE ND1002181 CLASS 1 TYPE I 22AWG WHITE
	2	1	2901152-002	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 22AWG (WHT/RED, WHT/BLU)
	3	1	2901152-003	WIRE-COAX MIL-C-17/69A RG188A/U TOTAL LENGTH
	4	1	2901152-004	WIRE-COAX MIL-C-17/28A RG58C/U TOTAL LENGTH
7	5	1	1015957-177	CONNECTOR, RECPT. ELEC
7	6	1	1015957-178	CONNECTOR, RECPT. ELEC
	7	1	MS3127E24-61SW	CONNECTOR, RECPT. ELEC (1897056-611)
	8	1	MS3127E12-3P	CONNECTOR, RECPT. ELEC (1897119-030)
7	9	76	1015864-109	INSULATION SLEEVING
	10	61	MS3193A-20A	CONNECTOR SOCKET CONTACTS (1896877-020)
	11	3	MS3192A-16A	CONNECTOR PIN CONTACTS (1896855-016)
7	12	57	1010490-200	INSULATION SLEEVING (HEAT SHRINK)
7	13	2	1010490-226	INSULATION SLEEVING (HEAT SHRINK)
	14	1	2901152-005	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 20AWG (WHT/RED, WHT/BLU)
7	15	4	1010763- 2	SLEEVE, SOLDER
7	16	34	1010763- 3	SLEEVE, SOLDER

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 5 OF 47

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WIRING HARNESS A 2901152 F

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	17	1	1010763- 1	SLEEVE, SOLDER
7	18	5	1015864-137	INSULATION SLEEVING
7	19	5	1015864-135	INSULATION SLEEVING
7	20	190	1015864-107	INSULATION SLEEVING
7	21	16	1015902-049	TERMINAL-LUG, RING TONGUE, CRIMP
7	22	6	1016006-002	SPLICE-REDUCER
7	23	1	1016006-003	SPLICE-REDUCER
7	24	6	1010490-258	INSULATION SLEEVING (HEAT SHRINK)
7	25	1	1010490-256	INSULATION SLEEVING (HEAT SHRINK)
	26	1	2901152-006	WIRE ND1002181 CLASS 1 TYPE I 8AWG (WHITE)
7	27	1	1016048- 15	TERMINAL-LUG
7	28	1	1016048- 16	TERMINAL-LUG
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	30	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	31	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	32	1	1016128-001	BAND IDENTIFICATION BLANK
	33	AR	MIL-T-713 TYPE P, CLASS 2	LACING TAPE, WAXED, BLACK (ES2732 NO. 18)

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR F	SHEET 6 OF 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		S1A-11A	73				.25	YES			
			S1A-11B	73				.25	YES			
A 2	1		S1A-11B	73				.25	YES			
			S2B-11A	74				.25	YES			
A 3	1		S2B-11A	74				.25	YES			
			K4-4	28				.25	YES		9	
A 4	1		S1A-10A	73				.25	YES			
			S2A-8B	74				.25	YES			
A 5	1		S1A-10B	73				.25	YES			
			S2A-7A	74				.25	YES			
A 6	1		S1B-11A	73				.25	YES			
			S2B-7A	74				.25	YES			
A 7	1		S1B-~~2A~~1A	73				.25	YES			
			S2B-5A	74				.25	YES			
A 8	1		S1B-11B	73				.25	YES			
			K4-8	28				.25	YES		9	
A 9	1		S1A-5A	73				.25	YES			
			S2A-8A	74				.25	YES			
A 10	1		S2A-11B	74				.25	YES			
			S2B-9A	74				.25	YES			
A 11	1		S2B-1A	74				.25	YES			
			K14-1	21				.25	YES		20	
A 12	1		S2B-6A	74				.25	YES			
			K11-1	19				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 7 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		S2A-11A	74				.25	YES			
			K12-1	20				.25	YES		20	
A 14	1		S2B-9A	74				.25	YES			
			K13-1	20				.25	YES		20	
A 15	1		S2B-10A	74				.25	YES			
			K10-1	19				.25	YES		20	
A 16	1		S1B-1B	73				.25	YES			
			XDS1-10	57				.25	YES			
A 17	1		S1B-2B	73				.25	YES			
			XDS1-1	57				.25	YES			
A 18	1		S1B-3B	73				.25	YES			
			XDS1-2	57				.25	YES			
A 19	1		S1B-4B	73				.25	YES			
			XDS1-3	57				.25	YES			
A 20	1		S1B-5B	73				.25	YES			
			XDS1-4	57				.25	YES			
A 21	1		S1B-6B	73				.25	YES			
			XDS1-5	57				.25	YES			
A 22	1		S1B-7B	73				.25	YES			
			XDS1-6	57				.25	YES			
A 23	1		S1B-8B	73				.25	YES			
			XDS1-7	57				.25	YES			
A 24	1		S1B-9B	73				.25	YES			
			XDS1-8	57				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 8 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		S1B-10B	73				.25	YES			
			XDS1-9	57				.25	YES			
A 26	1		S2B-1B	74				.25	YES			
			XDS1-20	57				.25	YES			
A 27	1		S2B-2B	74				.25	YES			
			XDS1-11	57				.25	YES			
A 28	1		S2B-3B	74				.25	YES			
			XDS1-12	57				.25	YES			
A 29	1		S2B-4B	74				.25	YES			
			XDS1-13	57				.25	YES			
A 30	1		S2B-5B	74				.25	YES			
			XDS1-14	57				.25	YES			
A 31	1		S2B-6B	74				.25	YES			
			XDS1-15	57				.25	YES			
A 32	1		S2B-7B	74				.25	YES			
			XDS1-16	57				.25	YES			
A 33	1		S2B-8B	74				.25	YES			
			XDS1-17	57				.25	YES			
A 34	1		S2B-9B	74				.25	YES			
			XDS1-18	57				.25	YES			
A 35	1		S2B-10B	74				.25	YES			
			XDS1-19	57				.25	YES			
A 36	1		S1B-1B	73				.25	YES			
			TB1-1	46				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 9 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S1B-2B	73				.25	YES			
			TB1-2	46				.25	YES			
A 38	1		S1B-3B	73				.25	YES			
			TB1-3	46				.25	YES			
A 39	1		S1B-4B	73				.25	YES			
			TB1-4	45				.25	YES			
A 40	1		S1B-5B	73				.25	YES			
			TB1-5	45				.25	YES			
A 41	1		S1B-6B	73				.25	YES			
			TB1-6	45				.25	YES			
A 42	1		S1B-7B	73				.25	YES			
			TB1-7	44				.25	YES			
A 43	1		S1B-8B	73				.25	YES			
			TB1-8	44				.25	YES			
A 44	1		S1B-9B	73				.25	YES			
			TB1-9	44				.25	YES			
A 45	1		S1B-10B	73				.25	YES			
			TB1-10	43				.25	YES			
A 46	1		S2B-1B	74				.25	YES			
			TB1-11	43				.25	YES			
A 47	1		S2B-2B	74				.25	YES			
			TB1-27	35				.25	YES			
A 48	1		S2B-3B	74				.25	YES			
			TB1-28	35				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 10 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		S2B-4B	74				.25	YES			
			TB1-29	35				.25	YES			
A 50	1		S2B-5B	74				.25	YES			
			TB1-30	37				.25	YES			
A 51	1		S2B-6B	74				.25	YES			
			TB1-31	37				.25	YES			
A 52	1		S2B-7B	74				.25	YES			
			TB1-32	37				.25	YES			
A 53	1		S2B-8B	74				.25	YES			
			TB1-33	38				.25	YES			
A 54	1		S2B-9B	74				.25	YES			
			TB1-34	38				.25	YES			
A 55	1		S2B-10B	74				.25	YES			
			TB1-35	38				.25	YES			
A 56	1		TB1-1	46				.25	YES			
			J3-PP	1				.20	NO		10	
A 57	1		TB1-2	46				.25	YES			
			J3-NN	1				.20	NO		10	
A 58	1		TB1-3	46				.25	YES			
			J3-MM	1				.20	NO		10	
A 59	1		TB1-4	45				.25	YES			
			J3-LL	1				.20	NO		10	
A 60	1		TB1-5	45				.25	YES			
			J3-KK	1				.20	NO		10	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 11 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		TB1-6	45				.25	YES			
			J3-JJ	1				.20	NO		10	
A 62	1		TB1-7	44				.25	YES			
			J3-HH	1				.20	NO		10	
A 63	1		TB1-8	44				.25	YES			
			J3-GG	1				.20	NO		10	
A 64	1		TB1-9	44				.25	YES			
			J3-FF	1				.20	NO		10	
A 65	1		TB1-10	43				.25	YES			
			J3-EE	1				.20	NO		10	
A 66	1		TB1-11	43				.25	YES			
			J3-DD	1				.20	NO		10	
A 67	1		TB1-27	35				.25	YES			
			J3-CC	1				.20	NO		10	
A 68	1		TB1-28	35				.25	YES			
			J3-BB	1				.20	NO		10	
A 69	1		TB1-29	35				.25	YES			
			J3-AA	1				.20	NO		10	
A 70	1		TB1-30	37				.25	YES			
			J3-Z*	1				.20	NO		10	
A 71	1		TB1-31	37				.25	YES			
			J3-Y*	1				.20	NO		10	
A 72	1		TB1-32	37				.25	YES			
			J3-X*	1				.20	NO		10	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
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WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		TB1-33	38				.25	YES			
			J3-W*	1				.20	NO		10	
A 74	1		TB1-34	38				.25	YES			
			J3-V*	1				.20	NO		10	
A 75	1		TB1-35	38				.25	YES			
			J3-U*	1				.20	NO		10	
A 76	1		S2B-11B	74				.25	YES			
			K2-2	26				.25	YES		9	
A 77	1		S15SW1-NC	53				.25	YES			
			XDS15-A	53				.25	YES		20	
A 78	1		XDS15-A	53				.25	YES			
			XDS15-C	53				.25	YES		20	
A 79	1		S15SW1-NC	53				.25	YES			
			K1-1	25				.25	YES		9	
A 80	1		K1-1	25				.25	YES			
			K1-3	25				.25	YES		9	
A 81	1		K1-3	25				.25	YES			
			K2-3	26				.25	YES		9	
A 82	1		K2-3	26				.25	YES			
			K3-3	27				.25	YES		9	
A 83	1		K3-3	27				.25	YES			
			K4-3	28				.25	YES		9	
A 84	1		XDS15-C	53				.25	YES			
			S7SW1-C	65				.25	YES			

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 13 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG'	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		S7SW1-C	65				.25	YES			
			K16-4	18				.25	YES		20	
A 86	1		K16-4	18				.25	YES			
			K17-4	18				.25	YES		20	
A 87	1		K1-6	25				.25	YES		9	
			K2-4	26				.25	YES		9	
A 88	1		K2-4	26				.25	YES			
			J3-S*	1				.20	NO		10	
A 89	1		K2-7	26				.25	YES		9	
			J3-R*	1				.20	NO		10	
A 90	1		K2-6	26				.25	YES		9	
			K3-7	27				.25	YES		9	
A 91	1		K3-1	27				.25	YES		9	
			K4-6	28				.25	YES		9	
A 92	1		K4-6	28				.25	YES			
			J3-Q*	1				.20	NO		10	
A 93	1		K4-7	28				.25	YES		9	
			J3-P*	1				.20	NO		10	
A 94	1		K3-5	27				.25	YES		9	
			K14-4	21				.25	YES		20	
A 95	1		K14-4	21				.25	YES			
			K13-4	20				.25	YES		20	
A 96	1		K13-4	20				.25	YES			
			K12-4	20				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152	
SCALE-NONE	REV LTR x D E	SHEET 14 OF ~~44~~ 47	

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		K12-4	20				.25	YES			
			K11-4	19				.25	YES		20	
A 98	1		K11-4	19				.25	YES			
			K10-4	19				.25	YES		20	
A 99	1		K10-3	19				.25	YES		20	
			K10-1	19				.25	YES			
A 100	1		K11-3	19				.25	YES		20	
			K11-1	19				.25	YES			
A 101	1		K12-3	20				.25	YES		20	
			K12-1	20				.25	YES			
A 102	1		K13-3	20				.25	YES		20	
			K13-1	20				.25	YES			
A 103	1		K14-3	21				.25	YES		20	
			K14-1	21				.25	YES			
A 104	1		K16-3	18				.25	YES		20	
			K16-1	18				.25	YES		20	
A 105	1		K16-1	18				.25	YES			
			K17-1	18				.25	YES		20	
A 106	1		K17-3	18				.25	YES		20	
			K17-1	18				.25	YES			
A 107	1		K16-2	18				.25	YES		20	
			K13-8	20				.25	YES		20	
A 108	1		K13-12	20				.25	YES		20	
			K17-7	18				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152	
SCALE-NONE	REV LTR x D E	SHEET 15 OF ~~44~~ 47	

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		K17-2	18				.25	YES		20	
			K13-6	20				.25	YES		20	
A 110	1		K17-3	18				.25	YES			
			S14SW1-NO	52				.25	YES			
A 111	1		S14SW1-NO	52				.25	YES			
			XDS14-A	52				.25	YES		20	
A 112	1		XDS14-A	52				.25	YES			
			XDS14-C	52				.25	YES		20	
A 113	1		S6SW1-C	64				.25	YES			
			K18-5	17				.25	YES		20	
A 114	1		K18-5	17				.25	YES			
			K6-3	30				.25	YES		9	
A 115	1		K6-3	30				.25	YES			
			K6-1	30				.25	YES		9	
A 116	1		S6SW1-NC	64				.25	YES			
			XDS6-C	64				.25	YES		20	
A 117	1		XDS6-C	64				.25	YES			
			XDS6-D	64				.25	YES		20	
A 118	1		S6SW1-NC	64				.25	YES			
			K18-1	17				.25	YES		20	
A 119	1		K18-1	17				.25	YES			
			K18-3	17				.25	YES		20	
A 120	1		K5-2	29				.25	YES		9	
			S6SW2-C	64				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152	
SCALE-NONE	REV LTR x D E	SHEET 16 OF ~~44~~ 47	

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		S6SW2-NC	64				.25	YES			
			K6-6	30				.25	YES		9	
A 122	1		S6SW2-NO	64				.25	YES			
			K18-4	17				.25	YES		20	
A 123	1		K5-1	29				.25	YES		9	
			K5-3	29				.25	YES		9	
A 124	1		K5-3	29				.25	YES			
			K19-5	17				.25	YES		20	
A 125	1		K19-5	17				.25	YES			
			S6SW3-C	64				.25	YES			
A 126	1		S6SW3-NC	64				.25	YES			
			K19-1	17				.25	YES		20	
A 127	1		K19-1	17				.25	YES			
			K19-3	17				.25	YES		20	
A 128	1		S6SW4-C	64				.25	YES			
			K18-7	17				.25	YES		20	
A 129	1		S6SW4-NC	64				.25	YES			
			K5-6	29				.25	YES		9	
A 130	1		S6SW4-NO	64				.25	YES			
			XDS6-A	64				.25	YES		20	
A 131	1		XDS6-A	64				.25	YES			
			XDS6-B	64				.25	YES		20	
A 132	1		S6SW4-NO	64				.25	YES			
			K19-4	17				.25	YES		9	

SIZE A	CODE IDENT NO. 99974	2901152	
SCALE-NONE	REV LTR x D E	SHEET 17 OF ~~44~~ 47	

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WIRING HARNESS A 2901152 E * ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		S7SW1-NC	65				.25	YES			
			K8-6	32				.25	YES		9	
A 134	1		S7SW1-NO	65				.25	YES			
			K7-2	31				.25	YES		9	
A 135	1		S7SW2-C	65				.25	YES			
			K7-4	31				.25	YES		9	
A 136	1		K7-4	31				.25	YES			
			K8-1	32				.25	YES		9	
A 137	1		K8-1	32				.25	YES			
			K8-3	32				.25	YES		9	
A 138	1		S7SW2-NC	65				.25	YES			
			XDS7-A	65				.25	YES		20	
A 139	1		XDS7-A	65				.25	YES			
			XDS7-C	65				.25	YES		20	
A 140	1		S7SW2-NC	65				.25	YES			
			K7-3	31				.25	YES		9	
A 141	1		K7-5	31				.25	YES		9	
			K7-3	31				.25	YES			
A 142	1		S3SW3-NO	61				.25	YES			
			XDS3-A	61				.25	YES		20	
A 143	1		XDS3-A	61				.25	YES			
			XDS3-C	61				.25	YES		20	
A 144	1		S4SW3-NO	62				.25	YES			
			XDS4-A	62				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR * ~~D~~ E	SHEET 18 OF ~~44~~ 47

WIRING HARNESS A 2901152 E * ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		XDS4-A	62				.25	YES			
			XDS4-C	62				.25	YES		20	
A 146	1		S8SW3-NC	66				.25	YES			
			XDS8-A	66				.25	YES		20	
A 147	1		XDS8-A	66				.25	YES			
			XDS8-B	66				.25	YES		20	
A 148	1		S8SW3-NO	66				.25	YES			
			XDS8-C	66				.25	YES		20	
A 149	1		XDS8-C	66				.25	YES			
			XDS8-D	66				.25	YES		20	
A 150	1		S12SW3-NC	50				.25	YES			
			XDS12-A	50				.25	YES		20	
A 151	1		XDS12-A	50				.25	YES			
			XDS12-B	50				.25	YES		20	
A 152	1		S12SW3-NO	50				.25	YES			
			XDS12-C	50				.25	YES		20	
A 153	1		XDS12-C	50				.25	YES			
			XDS12-D	50				.25	YES		20	
A 154	1		S11SW3-NC	49				.25	YES			
			XDS11-A	49				.25	YES		20	
A 155	1		XDS11-A	49				.25	YES			
			XDS11-B	49				.25	YES		20	
A 156	1		S11SW3-NO	49				.25	YES			
			XDS11-C	49				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR * ~~D~~ E	SHEET 19 OF ~~44~~ 47

WIRING HARNESS A 2901152 E * ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		XDS11-C	49				.25	YES			
			XDS11-D	49				.25	YES		20	
A 158	1		S10SW3-NC	68				.25	YES			
			XDS10-A	68				.25	YES		20	
A 159	1		XDS10-A	68				.25	YES			
			XDS10-B	68				.25	YES		20	
A 160	1		S10SW3-NO	68				.25	YES			
			XDS10-C	68				.25	YES		20	
A 161	1		XDS10-C	68				.25	YES			
			XDS10-D	68				.25	YES		20	
A 162	1		S5SW3-NC	63				.25	YES			
			XDS5-A	63				.25	YES		20	
A 163	1		XDS5-A	63				.25	YES			
			XDS5-B	63				.25	YES		20	
A 164	1		S5SW3-NO	63				.25	YES			
			XDS5-C	63				.25	YES		20	
A 165	1		XDS5-C	63				.25	YES			
			XDS5-D	63				.25	YES		20	
A 166	1		K15-12	21				.25	YES		20	
			S16SW1-C	54				.25	YES			
A 167	1		S16SW1-NC	54				.25	YES			
			K9-6	33				.25	YES		9	
A 168	1		S16SW1-NO	54				.25	YES			
			K15-3	21				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR * ~~D~~ E	SHEET 20 OF ~~44~~ 47

WIRING HARNESS A 2901152 E * ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		S16SW2-NC	54				.25	YES			
			XDS16-A	54				.25	YES		20	
A 170	1		XDS16-A	54				.25	YES			
			XDS16-C	54				.25	YES		20	
A 171	1		S16SW2-NC	54				.25	YES			
			K15-2	21				.25	YES		18	
A 172	1		K15-2	21				.25	YES			
			K15-4	21				.25	YES		18	
A 173	1		S16SW2-C	54				.25	YES			
			K15-1	21				.25	YES		20	
A 174	1		K15-1	21				.25	YES			
			K9-3	33				.25	YES		9	
A 175	1		K9-3	33				.25	YES			
			K9-1	33				.25	YES		9	
A 176	1		S9SW1-NC	67				.25	YES			
			XDS9-A	67				.25	YES		20	
A 177	1		XDS9-A	67				.25	YES			
			XDS9-B	67				.25	YES		20	
A 178	1		S9SW1-NC	67				.25	YES			
			S10SW3-C	68				.25	YES			
A 179	1		S10SW3-C	68				.25	YES			
			S11SW3-C	49				.25	YES			
A 180	1		S9SW1-NO	67				.25	YES			
			XDS9-C	67				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR * ~~D~~ E	SHEET 21 OF ~~44~~ 47

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		XDS9-C	67				.25	YES			
			XDS9-D	67				.25	YES		20	
A 182	1		S9SW1-NO	67				.25	YES			
			S12SW3-C	50				.25	YES			
A 183	1		S12SW3-C	50				.25	YES			
			K20-1	15				.25	YES		20	
A 184	1		PS2-2	12				.25	YES			
			R3-1	78				.25	YES			
A 185	1		R3-3	78				.25	YES			
			TB1-12	43				.25	YES			
A 186	1		TB1-26	40				.25	YES			
			PS2-5	12				.25	YES			
A 187	14				1.82	1.50				8,6B	16, 12	
					1.82	1.50					12	
A 167A	1		SHLD A187					.25	NO			
			J4-C	2				.25	NO		11	A188A IN THIS PIN
A 187L			J4-A	2				.25	NO		11	A188L IN THIS PIN
			PS1-1	7				.25	YES			
A 187R			J4-B	2				.25	NO		11	A188R IN THIS PIN
			PS1-2	7				.25	YES			
A 188	14				1.82	1.50				8,6B	16, 12	
					1.82	1.50					12	
A 188A	1		SHLD A188					.25	NO			
			J4-C	2				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR x D E	SHEET 22 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 188L			J4-A	2				.25	NO			
			PS2-11	12				.25	YES			
A 188R			J4-B	2				.25	NO			
			PS2-12	12				.25	YES			
A 189	1		PS1-4	7				.25	YES			
			TB2-1	10				.25	NO		21	
A 190	1		PS2-14	12				.25	YES			
			TB2-2	11				.25	NO		21	
A 191	1		PS1-3	7				.25	YES			
			XF2-1	77				.25	YES		19	
A 192	1		PS2-13	12				.25	YES			
			XF3-1	69				.25	YES		19	
A 193	1		K15-10	21				.25	YES		20	
			TB2-3	10				.25	NO		21	
A 194	1		XF2-2	77				.25	YES			
			K15-12	21				.25	YES		20	
A 195	1		XF3-2	69				.25	YES			
			K15-5	21				.25	YES		20	
A 196	1		K15-9	21				.25	YES		18	
			E1	8				.25	NO			
A 197	1		K15-13	21				.25	YES		18	
			E2	9				.25	NO			
A 198	1		K15-6	21				.25	YES		18	
			E3	13				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR x D E	SHEET 23 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 199	1		K9-7	33				.25	YES		9	
			K15-11	21				.25	YES		20	
A 200	1		K15-11	21				.25	YES			
			K15-10	21				.25	YES			
A 201	1		E1	8				.25	NO			
			J1-S	24				.25	YES		9	
A 202	1		E3	13				.25	NO			
			J1-R	24				.25	YES		9	
A 203L	1		E1	8				.25	NO			SEE NOTE 15
			J3-N*	1				.20	NO		10	
A 203R	1		E3	13				.25	NO			SEE NOTE 15
			J3-M*	1				.20	NO		10	
A 204L	1		E1	8				.25	NO			SEE NOTE 15
			J3-K*	1				.20	NO		10	
A 204R	1		E2	9				.25	NO			SEE NOTE 15
			J3-J*	1				.20	NO		10	
A 205L	1		J1-P	24				.25	YES		9	SEE NOTE 15
			J3-I*	1				.20	NO		10	
A 205R	1		J1-N	24				.25	YES		9	SEE NOTE 15
			J3-H*	1				.20	NO		10	
A 206L	1		K22-5	18A				.25	~~NO~~ YES		20	SEE NOTE 15
			R2-COM	75				.25	YES			
A 206R	1		K22-8	18A				.25	NO			SEE NOTE 15
			R2-IN	75				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR x D E	SHEET 24 OF ~~44~~ 47

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		E1	8				.25	NO			
			K11-7	19				.25	YES		20	
A 208	1		R2-OUT	75				.25	YES			
			K11-10	19				.25	YES		20	
A 209	1		E4	47				.25	NO			
			S15SW1-C	53				.25	YES			
A 210	1		S15SW1-C	53				.25	YES			
			S14SW1-C	52				.25	YES			
A 211	1		E4	47				.25	NO			
			S9SW1-C	67				.25	YES			
A 212	1		S9SW1-C	67				.25	YES			
			S8SW3-C	66				.25	YES			
A 213	1		E4	47				.25	NO			
			S5SW3-C	63				.25	YES			
A 214	1		S5SW3-C	63				.25	YES			
			S4SW3-C	62				.25	YES			
A 215	1		S4SW3-C	62				.25	YES			
			S3SW3-C	61				.25	YES			
A 216	1		E4	47				.25	NO			
			E2	9				.25	NO			
A 217	1		K7-6	31				.25	YES		9	
			K13-13	20				.25	YES		20	
A 218	1		E2	9				.25	NO			
			K5-4	29				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR x D E	SHEET 25 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	1		K5-4 K3-2	29 27				.25 .25	YES YES		 9	
A 220	1		K4-2 K2-4	28 26				.25 .25	YES YES		9 	
A 221	1		E2 K18-8	9 17				.25 .25	NO YES		 20	
A 222	1		K18-8 J1-J	17 24				.25 .25	YES YES		 9	
A 223	1		J1-J J2-J	24 23				.25 .25	YES YES		 9	
A 224	1		XDS3-G XDS4-G	61 62				.25 .25	YES YES		20 20	
A 225	1		XDS4-G XDS5-G	62 63				.25 .25	YES YES		 20	
A 226	1		XDS5-G E5	63 51				.25 .25	YES NO			
A 227	1		XDS6-G XDS7-G	64 65				.25 .25	YES YES		20 20	
A 228	1		XDS7-G XDS8-G	65 66				.25 .25	YES YES		 20	
A 229	1		XDS8-G E5	66 51				.25 .25	YES NO			
A 230	1		XDS9-G XDS10-G	67 68				.25 .25	YES YES		20 20	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 26 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 231	1		XDS10-G XDS11-G	68 49				.25 .25	YES YES		 20	
A 232	1		XDS11-G XDS12-G	49 50				.25 .25	YES YES		 20	
A 233	1		XDS12-G E5	50 51				.25 .25	YES NO			
A 234	1		XDS16-G XDS15-G	54 53				.25 .25	YES YES		20 20	
A 235	1		XDS15-G XDS14-G	53 52				.25 .25	YES YES		 20	
A 236	1		XDS14-G ~~E5~~ XDS13-G	52 51A				.25 .25	YES ~~NO~~ YES		 20	
A 237	1		XDS1-G B1-GND	57 58				.25 .25	YES YES			
A 238	1		B1-GND R2-GND	58 75				.25 .25	YES YES			
A 239	1		R2-GND E5	75 51				.25 .25	YES NO			
A 240	1		B2-GND R1-GND	56 72				.25 .25	YES YES			
A 241	1		R1-GND E5	72 51				.25 .25	YES NO			
A 242	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 27 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 242B	1		E11 SHLD A242	48				.25 .25	NO NO			
A 242L			J8 E6	6 79				.25 .25	YES NO			
A 242R			J7 XF5-1	5 71				.25 .25	YES YES		 19	
A 243	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	
A 243B	1		E11 SHLD A243	48				.25 .25	NO NO			
A 243L			J6 E6	4 79				.25 .25	YES NO			
A 243R			J5 XF4-1	3 70				.25 .25	YES YES		 19	
A 244	1		XF5-2 S9SW2-NO	71 67				.25 .25	YES YES			
A 245	1		XF4-2 S9SW2-NC	70 67				.25 .25	YES YES			
A 246	2				1.82 2.82	1.50 2.50				 B,6A	12 12, 16	
A 246B	1		E7 SHLD A246	16				.25 .25	NO NO			
A 246L			S12SW2-NO T1-2	50 15				.25 .25	YES YES		 20	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR x D E
SHEET 28 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 246R			S12SW1-NO T1-1	50 15				.25 .25	YES YES		 20	
A 247	1		E6 S9SW3-NO	79 67				.25 .25	YES YES			
A 248	1		E6 S9SW3-NC	79 67				.25 .25	NO YES			
A 249	2				1.82 1.82	1.50 1.50				 B,6A	12 12, 16	
A 249B	1		E7 SHLD A249	16				.25 .25	NO NO			
A 249L			S9SW3-C K20-4	67 15				.25 .25	YES YES		 20	
A 249R			S9SW2-C K20-7	67 15				.25 .25	YES YES		 20	
A 250	2				2.32 2.82	2.00 2.50				B,6A	12, 16 12	
A 250A	1		SHLD A250 E7	 16				.25 .25	NO NO			
A 250L			K20-5 B1-5	15 58				.25 .25	YES YES		20	
A 250R			K20-8 B1-1	15 58				.25 .25	YES YES		20	
A 251	2				2.32 2.82	2.00 2.50				B,6A	12, 16 12	

SIZE A
CODE IDENT NO. 99974
2901152
SCALE-NONE
REV LTR ~~D~~ E
SHEET 29 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251A	1		SHLD A251					.25	NO			
			E7	16				.25	NO			
A 251L			K20-3	15				.25	YES		20	
			B2-5	56				.25	YES			
A 251R			K20-6	15				.25	YES		20	
			B2-1	56				.25	YES			
A 252	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 252B	1		E7	16				.25	NO			
			SHLD A252					.25	NO			
A 252L			B1-4	58				.25	YES			
			K20-11	15				.25	YES		20	
A 252R			B1-3	58				.25	YES			
			K20-14	15				.25	YES		20	
A 253	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 253B	1		E7	16				.25	NO			
			SHLD A253					.25	NO			
A 253L			B2-4	56				.25	YES			
			K20-9	15				.25	YES		20	
A 253R			B2-3	56				.25	YES			
			K20-12	15				.25	YES		20	
A 254	1		K20-13	15				.25	YES		20	
			J1-A	24				.25	YES		9	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 30 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 255	1		K20-10	15				.25	YES		20	
			J1-B	24				.25	YES		9	
A 256	1		B1-2	58				.25	YES			
			J1-D	24				.25	YES		9	
A 257	1		B2-2	56				.25	YES			
			J1-F	24				.25	YES		9	
A 258	1		K20-12	15				.25	YES			
			J1-C	24				.25	YES		9	
A 259	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 259A	1		SHLD A259					.25	NO			
			E13	22				.25	NO			
A 259L			J1-L	24				.25	YES		9	
			R1-COM	72				.25	YES			
A 259R			J1-E	24				.25	YES		9	
			R1-IN	72				.25	YES			
A 260	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 260A	1		SHLD A260					.25	NO			
			E13	22				.25	NO			
A 260L			J2-B	23				.25	YES		9	
			R1-COM	72				.25	YES			
A 260R			J1-H	24				.25	YES		9	
			R1-OUT	72				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 31 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 261	1		J1-Y	24				.25	YES		9	
			J2-A	23				.25	YES		9	
A 262	1		J2-Y	23				.25	YES		9	
			K20-19	15				.25	YES		20	
A 263	1		J2-Z	23				.25	YES		9	
			K20-16	15				.25	YES		20	
A 264	2				1.82	1.50				B,6A	12, 16	
					1.82	1.50					12	
A 264A	1		SHLD A264					.25	NO			
			E13	22				.25	NO			
A 264L			J2-Z	23				.25	YES		9	
			J17	55				.25	YES			
A 264R			J2-Y	23				.25	YES		9	
			J16	55				.25	YES			
A 265	1		S9SW2-C	67				.25	YES			
			S5SW1-NC	63				.25	YES			
A 266	1		S9SW3-C	67				.25	YES			
			S5SW2-NC	63				.25	YES			
A 267	1		S9SW2-NC	67				.25	YES			
			S10SW1-NO	68				.25	YES			
A 268	1		S9SW3-NC	67				.25	YES			
			S10SW2-NO	68				.25	YES			
A 269	1		S10SW1-NO	68				.25	YES			
			S11SW1-NO	49				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 32 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 270	1		S10SW2-NO	68				.25	YES			
			S11SW2-NO	49				.25	YES			
A 271	1		S9SW2-NO	67				.25	YES			
			S12SW1-NO	50				.25	YES			
A 272	1		S9SW3-NO	67				.25	YES			
			S12SW2-NO	50				.25	YES			
A 273	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 273A	1		SHLD A273					.25	NO			
			E7	16				.25	NO			
A 273L			K20-17	15				.25	YES		20	
			S10SW2-NC	68				.25	YES			
A 273R			K20-20	15				.25	YES		20	
			S10SW1-NC	68				.25	YES			
A 274	1		S10SW1-NC	68				.25	YES			
			S11SW1-NC	49				.25	YES			
A 275	1		S10SW2-NC	68				.25	YES			
			S11SW2-NC	49				.25	YES			
A 276	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 276A	1		SHLD A276					.25	NO			
			E7	16				.25	NO			
A 276L			K20-15	15				.25	YES		20	
			S12SW2-NC	50				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 33 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 276R			K20-18	15				.25	YES		20	
			S12SW1-NC	50				.25	YES			
A 277	1		K20-19	15				.25	YES			
			K14-10	21				.25	YES		20	
A 278	1		K20-16	15				.25	YES			
			K14-7	21				.25	YES		20	
A 279	1		K14-9	21				.25	YES		20	
			K12-9	20				.25	YES		20	
A 280	1		K14-6	21				.25	YES		20	
			K12-6	20				.25	YES		20	
A 281	1		K12-9	20				.25	YES			
			K11-9	19				.25	YES		20	
A 282	1		K12-6	20				.25	YES			
			K11-6	19				.25	YES		20	
A 283	1		K11-9	19				.25	YFS			
			K10-9	19				.25	YES		20	
A 284	1		K11-6	19				.25	YES			
			K10-6	19				.25	YES		20	
A 285	1		K10-9	19				.25	YES			
			K16-10	18				.25	YES		20	
A 286	1		K10-6	19				.25	YES			
			K16-7	18				.25	YES		20	
A 287	1		K13-9	20				.25	YES		20	
			K16-10	18				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR x DE	SHEET 34 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 288	1		K13-12	20				.25	YES			
			K16-7	18				.25	YES			
A 289	1		K13-9	20				.25	YES			
			K17-10	18				.25	YES		20	
A 290	1		K17-10	18				.25	YES			
			K19-9	17				.25	YES		20	
A 291	1		K17-7	18				.25	YES			
			K19-6	17				.25	YES		20	
A 292	1		K17-9	18				.25	YES		20	
			K16-9	18				.25	YES		20	
A 293	1		K17-6	18				.25	YES		20	
			K16-6	18				.25	YES		20	
A 294	3				1.82	1.50				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 294A	1		SHLD A294					.25	NO			
			K16-6	18				.25	YES			
A 294B	1		E9	80				.25	NO			
			SHLD A294					.25	NO			
A 294E			K16-9	18				.25	YES			
			XF1-1	76				.25	YES		19	
A 295	3				2.32	2.00				B,6A	12, 16	
					1.82	1.50				B,6B	12, 16	
A 295A	1		SHLD A295					.25	NO			
			E9	80				.25	NO			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR x DE	SHEET 35 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295B	1		J3-G*	1				.20	NO		10	
			SHLD A295					.25	NO			
A 295E			XF1-2	76				.25	YES			
			J3-F*	1				.20	NO		10	
A 296	4				.32						13	
					1.82	1.50				B,6A	13, 16	
A 296B	1		E10	34				.25	NO			
			SHLD A296					.25	NO			
A 296E			J9-I	60				.13	NO			
			S8SW1-C	66				.25	YES			
A 296X			J9-O	60						A,8		
			SHLD A296									
A 297	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 297A	1		SHLD A297					.25	NO			
			E10	34				.25	NO			
A 297B	1		TB1-39	41				.25	YES			
			SHLD A297					.25	NO			
A 297E			S8SW1-NO	66				.25	YES			
			TB1-38	41				.25	YES			
A 298	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 298A	1		SHLD A298					.25	NO			
			TB1-39	41				.25	YES			

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR x DE	SHEET 36 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 298B	1		E10	34				.25	NO			
			SHLD A298					.25	NO			
A 298E			TB1-13	42				.25	YES			
			S8SW2-NO	66				.25	YES			
A 299	1		S8SW1-NC	66				.25	YES			
			S8SW2-NC	66				.25	YES			
A 300	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 300A	1		SHLD A300					.25	NO			
			E10	34				.25	NO			
A 300B	1		K12-7	20				.25	YES		20	
			SHLD A300					.25	NO			
A 300E			S8SW2-C	66				.25	YES			
			K12-10	20				.25	YES		20	
A 301	1		K7-5	31				.25	YES			
			K13-10	20				.25	YES		20	
A 302	1		J13	59				.25	YES			
			K10-10	19				.25	YES		20	
A 303	1		J14	59				.25	YES			
			K10-7	19				.25	YES		20	
A 304	1		J15	59				.25	YES			
			J3-U	1				.20	NO		10	
A 305	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6B	12, 16	

SIZE A	CODE IDENT NO. 99974	2901152
SCALE-NONE	REV LTR x DE	SHEET 37 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 EXD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG'	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305A	1		SHLD A305					.25	NO			
			J3-E*	1				.20	NO		10	
A 305B	1		K18-9	17				.25	YES		20	
			SHLD A305					.25	NO			
A 305E			J3-D*	1				.20	NO		10	
			K18-12	17				.25	YES		20	
A 306	1		K18-13	17				.25	YES		20	
			K19-11	17				.25	YES		20	
A 307	1		K18-10	17				.25	YES		20	
			K19-8	17				.25	YES		20	
A 308	3				2.32	2.00				8,6B	12, 16	
					2.32	2.00				8,6B	12, 16	
A 308A	1		SHLD A308					.25	NO			
			K19-7	17				.25	YES		20	
A 308B	1		S3SW2-C	61				.25	YES			
			SHLD A308					.25	NO			
A 308E			K19-10	17				.25	YES		20	
			S3SW1-C	61				.25	YES			
A 309	1		S3SW1-C	61				.25	YES			
			S4SW1-C	62				.25	YES			
A 310	1		S3SW2-C	61				.25	YES			
			S4SW2-C	62				.25	YES			
A 311	1		S4SW1-NO	62				.25	YES			
			S5SW1-NO	63				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 38 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 EXD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 312	1		S4SW2-NO	62				.25	YES			
			S5SW2-NO	63				.25	YES			
A 313	1		S3SW1-NO	61				.25	YES			
			J10	59				.25	YES			
A 314	1		S3SW2-NO	61				.25	YES			
			J11	59				.25	YES			
A 315	1		E5	51				.25	NO			
			J12	59				.25	YES			
A 316	1		S5SW1-C	63				.25	YES			
			J18	55				.25	YES			
A 317	1		S5SW2-C	63				.25	YES			
			J19	55				.25	YES			
A 318	2				2.32	2.00				8,6A	12, 16	
					2.32	2.00					12	
A 318A	1		SHLD A318					.25	NO			
			E11	48				.25	NO			
A 318L			S10SW2-C	68				.25	YES			
			J3-C*	1				.20	NO		10	
A 318R			S10SW1-C	68				.25	YES			
			J3-B*	1				.20	NO		10	
A 319	2				2.32	2.00				8,6A	12, 16	
					2.32	2.00					12	
A 319A	1		SHLD A319					.25	NO			
			E11	48				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 39 OF ~~44~~ 47

MIL 2084 9 65

WIRING HARNESS A 2901152 EXD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319L			S11SW2-C	49				.25	YES			
			J3-A*	1				.20	NO		10	
A 319R			S11SW1-C	49				.25	YES			
			J3-Z	1				.20	NO		10	
A 320	2				2.32	2.00				8,6A	12, 16	
					2.32	2.00					12	
A 320A	1		SHLD A320					.25	NO			
			E11	48				.25	NO			
A 320L			S12SW2-C	50				.25	YES			
			J3-Y	1				.20	NO		10	
A 320R			S12SW1-C	50				.25	YES			
			J3-X	1				.20	NO		10	
A 321	2				2.32	2.00				8,6A	12, 16	
					2.32	2.00					12	
A 321A	1		SHLD A321					.25	NO			
			E7	16				.25	NO			
A 321L			T1-4	15				.25	YES		20	
			J3-W	1				.20	NO		10	
A 321R			T1-3	15				.25	YES		20	
			J3-V	1				.20	NO		10	
A 322	1		K1-7	25				.25	YES		9	
			K2-1	26				.25	YES		9	
A 323	1		K2-1	26				.25	YES			
			K5-7	29				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 40 OF ~~44~~ 47

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WIRING HARNESS A 2901152 EXD

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 324	1		K5-7	29				.25	YES			
			K6-7	30				.25	YES		9	
A 325	1		K6-7	30				.25	YES			
			K7-7	31				.25	YES		9	
A 326	1		K7-7	31				.25	YES			
			K7-1	31				.25	YES		9	
A 327	1		K8-7	32				.25	YES		9	
			K7-1	31				.25	YES			
A 328	1		E12	14				.25	NO			
			K14-2	21				.25	YES		20	
A 329	1		K14-2	21				.25	YES			
			K13-2	20				.25	YES		20	
A 330	1		K13-2	20				.25	YES			
			K13-7	20				.25	YES		20	
A 331	1		K13-7	20				.25	YES			
			K12-2	20				.25	YES		20	
A 332	1		K12-2	20				.25	YES			
			K11-2	19				.25	YES		20	
A 333	1		K11-2	19				.25	YES			
			K10-2	19				.25	YES		20	
A 334	1		E12	14				.25	NO			
			K20-2	15				.25	YES		20	
A 335	1		K20-2	15				.25	YES			
			K19-2	17				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 41 OF ~~44~~ 47

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LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	336	1		K19-2 K18-2	17 17				.25 .25	YES YES		 20	
A	337	1		E6 TB2-4	79 11				.25 .25	NO NO		 21	
A	338	1		E7 TB2-5	16 10				.25 .25	NO NO		 21	
A	339	1		E10 TB2-6	34 11				.25 .25	NO NO		 21	
A	340	1		E11 TB2-7	48 10				.25 .25	NO NO		 21	
A	341	1		E12 TB2-8	14 11				.25 .25	NO NO		 21	
A	342	26		E8 TB2-16	82 81				.30 .30	NO NO		27 28	
A	343	1		TB1-15 TB2-9	36 10				.25 .25	YES NO		 21	
A	344	1		K21-7 K8-7	33A 32				.25 .25	YES YES		20	
A	345	1		T1-2 T1-4	15 15				.25 .25	YES YES			
A	346	1		J3-T* TB2-10	1 11				.20 .25	NO NO		10 21	
A	347	1		K4-3 K3-6	28 27				.25 .25	YES YES		 9	

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR F | SHEET 42 OF 47

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	348	1		E13 TB2-11	22 10				.25 .25	NO NO		 21	
A	349	1		J3-T TB2-12	1 11				.20 .25	NO NO		10 21	
A	350	1		J3-S TB2-12	1 11				.20 .25	NO NO		10 21	
A	351	1		J3-R TB2-13	1 10				.20 .25	NO NO		10 21	
A	352	1		K15-4 TB1-36	21 39				.25 .25	YES YES			
A	353	1		S2C-5A S1C-11A	74 73				.25 .25	YES YES			
A	354	1		S1C-9A K21-3	73 33A				.25 .25	YES YES		 9	
A	355	1		K21-3 K21-5	33A 33A				.25 .25	YES YES		 9	
A	356	1		S1C-7A S13SW1-C	73 51A				.25 .25	YES YES			
A	357	1		S13SW1-NO K21-1	51A 33A				.25 .25	YES YES		 9	
A	358	1		K21-6 S1C-10A	33A 73				.25 .25	YES YES		9	
A	359	1		K21-6 K22-1	33A 18A				.25 .25	YES YES		 20	

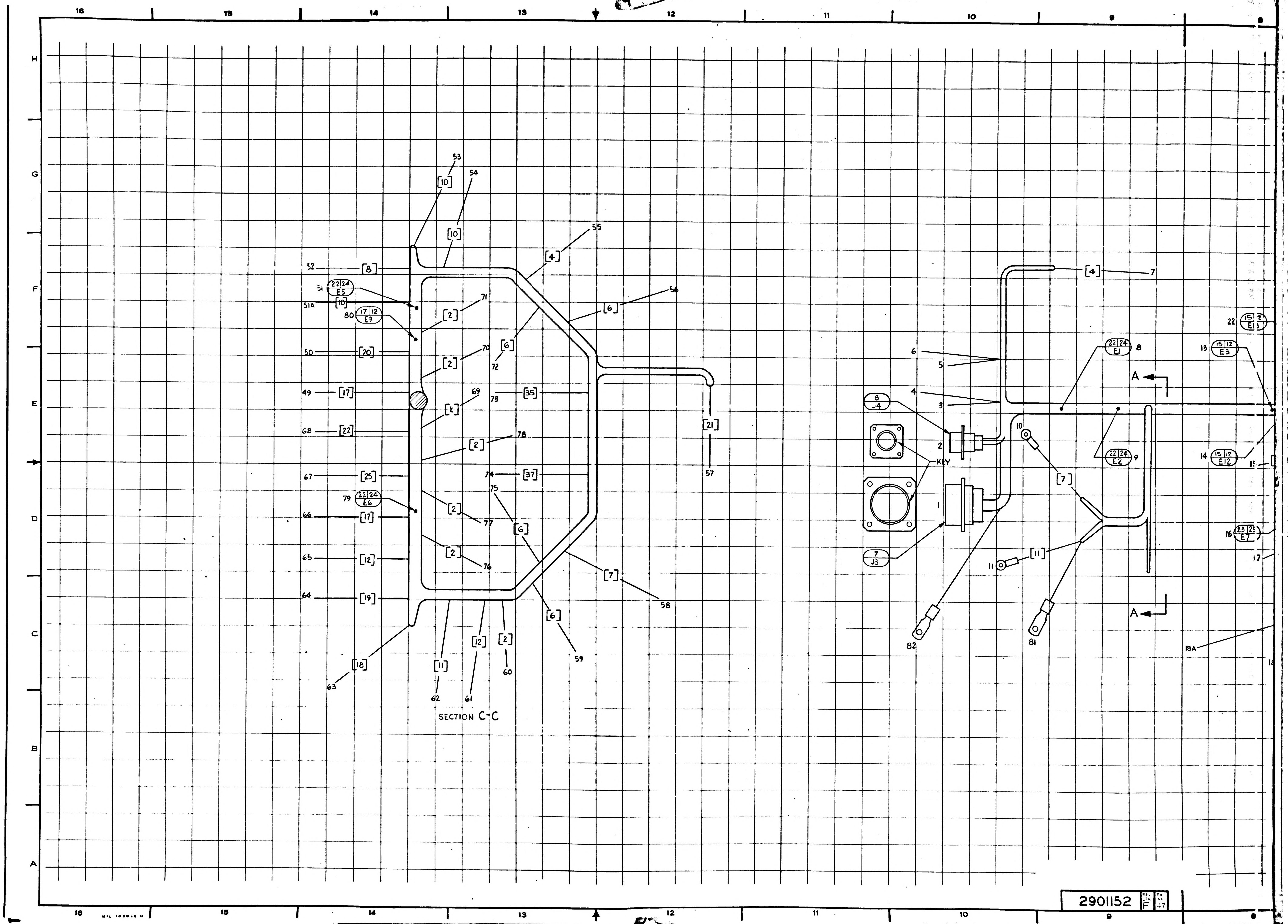
SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR F | SHEET 43 OF 47

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	360	1		S1A-11A S2C-11A	73 74				.25 .25	YES YES			
A	361	1		K22-3 K22-8	18A 18A				.25 .25	YES YES		20 20	
A	362	1		K22-5 K22-6	18A 18A				.25 .25	YES YES		20 20	
A	363	1		K3-5 K21-2	27 33A				.25 .25	YES YES		 9	
A	364			DELETED									
A	365	1		K11-3 K22-10	19 18A				.25 .25	YES YES		 20	
A	366	1		K22-11 XDS13-A	18A 51A				.25 .25	YES YES		20 20	
A	367	1		XDS13-A XDS13-B	51A 51A				.25 .25	YES YES		 20	
A	368	1		K22-9 XDS13-C	18A 51A				.25 .25	YES YES		 20	
A	369	1		XDS13-C XDS13-D	51A 51A				.25 .25	YES YES		 20	
A	370L	1		J3-N K22-4	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A	370R	1		J3-P K22-7	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR F | SHEET 44 OF 47

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	371L	1		J3-K K23-7	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A	371R	1		J3-L K23-10	1 18A				.20 .25	NO YES		10 20	SEE NOTE 15
A	372			S1B-2A K23-1	73 18A				.25 .25	YES YES		 20	
A	373			K23-1 K23-3	18A 18A				.25 .25	YES YES		 20	
A	374			K10-4 K23-4	19 18A				.25 .25	YES YES		 20	
A	375			K23-6 K14-6	18A 21				.25 .25	YES YES		20	
A	376			K23-9 K14-9	18A 21				.25 .25	YES YES		20	
A	377			K10-2 K22-2	19 18A				.25 .25	YES YES		 20	
A	378	1		K22-2 K23-2	18A 18A				.25 .25	YES YES		 20	
A	379	1		K21-7 E12	33A 14				.25 .25	YES NO		9	
A	380	1		XDS13-G E5	51A 51				.25 .25	YES NO			
A	381	1		J3-M TB2-14	1 11				.20 .25	NO NO		10 21	

SIZE A | CODE IDENT NO. 99974 | 2901152
SCALE-NONE | REV LTR F | SHEET 45 OF 47


16
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22 24 E5
51A
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17 12 E9
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22
15 12 E13
22 24 E1
8
13
15 12 E3
6
5
A
4
3
8 J4
2
10
KEY
22 24 E2
9
14
15 12 E12
15
[7]
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16
23 25 E7
17
7 J3
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[11]
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18A
18

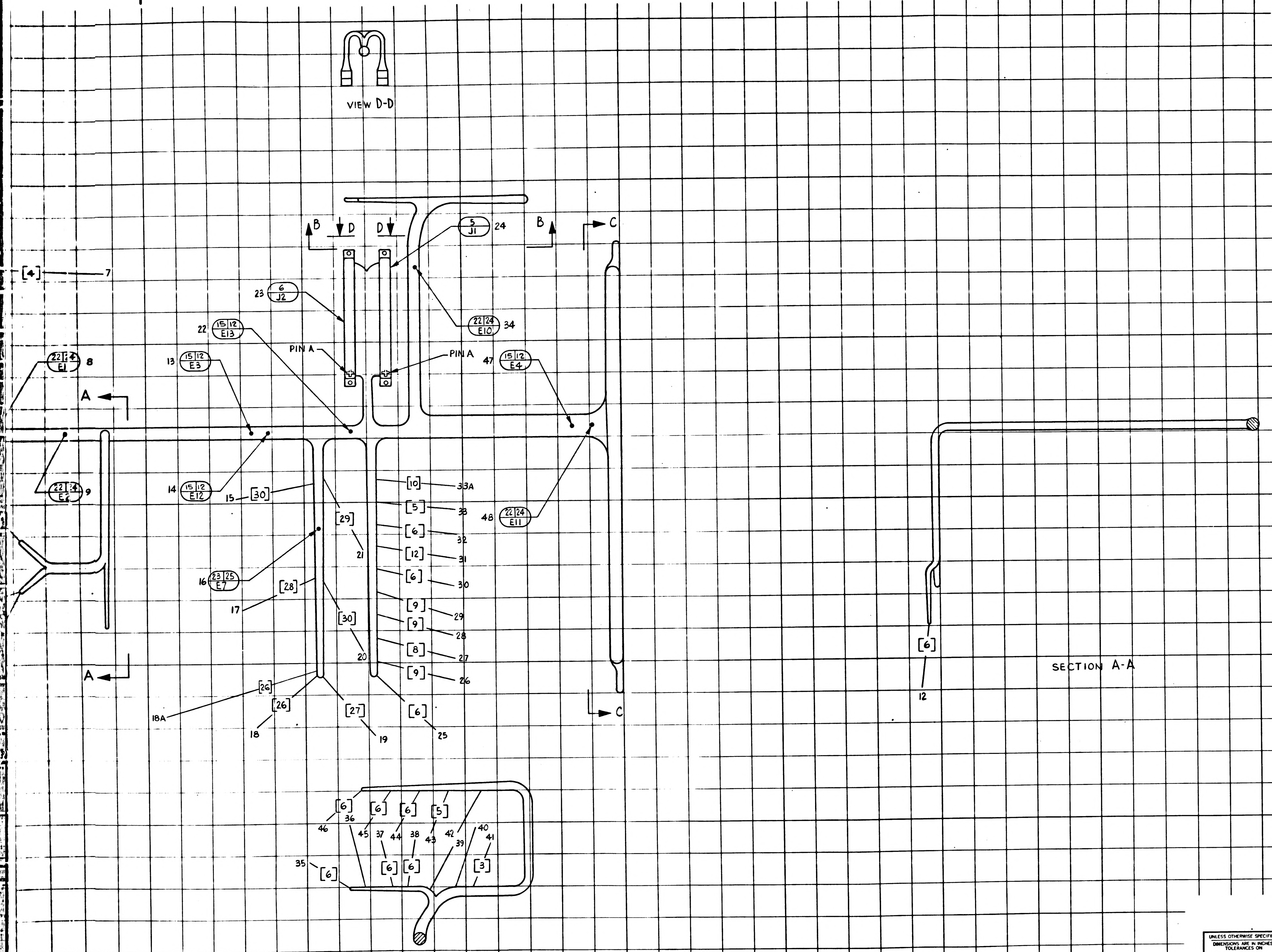
SECTION C-C

2901152 REV LTR F SH NO 47

1 / 2901152

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET I FOR REVISION RECORD



VIEW D-D
B
D
D
B
C
5 J1
24
6 J2
23
22 24 E10
34
15 12 E13
22
PIN A
PIN A
15 12 E4
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22 24 E1
8
15 12 E3
13
[4]
7
A
A
22 24 E2
9
15 12 E12
14
15
[30]
[29]
21
[10]
33A
[5]
33
[6]
32
[12]
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[9]
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28
[8]
27
[9]
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22 24 E11
48
23 25 E7
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[28]
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18A
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C
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12
SECTION A-A
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SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + — − 3 PLACE DECIMALS + — − ANGLES + — −	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS DRAWN SPLANE DATE FEB66 CHECKED [illegible] APPROVAL [illegible] CONTRACT NAS 9-497	MANNED SPACECRAFT CENTER HOUSTON, TEXAS WIRING HARNESS "A"
DO NOT SCALE THIS DRAWING MATERIAL — APPROVAL	NASA APPROVAL MIT APPROVAL	SIZE J2 CODE IDENT NO. 99974 2901152 SCALE — SHEET 4 OF 47

2901152

APPLICATION	
NEXT ASSY	USED ON
2900896-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV - WITH CHANGE PER MXC-210031	17-MAR-66	B. W.A.
B	REVISED PER MXC-210604.	31 MAR 66	RWT. AU
C	REVISED PER MXC 210963	11 APR 66	J.H.P.
D	REVISED PER MXC 211981	29 APR 66	ELP
Ⓜ E	INITIAL RELEASE CLASS A PER TDRR 28657	3-MAY 66	GN EF
F	REVISED PER TDRR 30472	10 AUG '66	JI RLW
G	REVISED PER TDRR 30625	9 SEPT 66	DJS

REV		F																									
SHEET		47																									
REV		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	F	G
SHEET		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
REV STATUS OF SHEETS	REV						G	E	E	E	G	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	
	SHEET						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN SPLANE 16 FEB 66 (DAY MO YR)
CHECKER WILSON 8 MAR 66
ENGINEER G. YOHPE 8 MAR 66
APPROVAL 5/4/66
CONTR NO. NAS9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"

SIZE A
CODE IDENT. NO 99974
2901152
SCALE NONE
SHEET 1 OF 47

MIL 1377A6 12-65

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 33.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 33.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

9 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B. THIS DOES NOT APPLY TO LEADS A203 THRU A206, A370 AND A371.

10 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.

11 ~~DELETED~~ SOLDER PER ND1002071 USING ITEM 31 OR ITEMS 29 AND 30.

12 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

13 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

14 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - SHIELD LEAD ON FRONT END
B - SHIELD LEAD ON TO END
E - GRAY
L - BLUE, WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER.
R - RED, WHITE WITH LETTER R OR WHITE WITH RED TRACER.
X - LEAD SHIELD

15 THE FOLLOWING MULTI LEADS SHALL BE TWISTED TOGETHER WITH A LAY NO GREATER THAN 15 TIMES OR NOT LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED LEADS. AFTER TWISTING, CABLE WITH ITEM 12 APPROXIMATELY 3 INCHES FROM EACH END
AS TWISTED PAIRS
A203L, A203R   A370L, A370R
A204L, A204R   A371L, A371R
A205L, A205R
A206L, A206R

16 ITEMS 10 AND 11 ARE FURNISHED WITH ITEMS 7 AND 8 RESPECTIVELY.

17 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

18 ASSEMBLE PER ND1002032

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901152-001	WIRE ND1002181 CLASS 1 TYPE I 22AWG WHITE
	2	1	2901152-002	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 22AWG (WHT/RED, WHT/BLU)
	3	1	2901152-003	WIRE-COAX MIL-C-17/69A RG188A/U TOTAL LENGTH
	4	1	2901152-004	WIRE-COAX MIL-C-17/28A RG58C/U TOTAL LENGTH
7	5	1	1015957-177	CONNECTOR, RECPT. ELEC
7	6	1	1015957-178	CONNECTOR, RECPT. ELEC
	7	1	MS3127E24-61SW	CONNECTOR, RECPT. ELEC (1897056-611)
	8	1	MS3127E12-3P	CONNECTOR, RECPT. ELEC (1897119-030)
7	9	77	1015864-109	INSULATION SLEEVING
	10	61	MS3193A-20A	CONNECTOR SOCKET CONTACTS (1896877-020)
	11	3	MS3192A-16A	CONNECTOR PIN CONTACTS (1896855-016)
7	12	57	1010490-200	INSULATION SLEEVING (HEAT SHRINK)
7	13	2	1010490-226	INSULATION SLEEVING (HEAT SHRINK)
	14	1	2901152-005	WIRE ND1002181 CLASS 4 WHITE JACKET TYPE II 20AWG (WHT/RED, WHT/BLU)
7	15	4	1010763- 2	SLEEVE, SOLDER
7	16	34	1010763- 3	SLEEVE, SOLDER

WIRING HARNESS A 2901152 F

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	17	1	1010763- 1	SLEEVE, SOLDER
7	18	5	1015864-137	INSULATION SLEEVING
7	19	5	1015864-135	INSULATION SLEEVING
7	20	190	1015864-107	INSULATION SLEEVING
7	21	16	1015902-049	TERMINAL-LUG, RING TONGUE, CRIMP
7	22	6	1016006-002	SPLICE-REDUCER
7	23	1	1016006-003	SPLICE-REDUCER
7	24	6	1010490-258	INSULATION SLEEVING (HEAT SHRINK)
7	25	1	1010490-256	INSULATION SLEEVING (HEAT SHRINK)
	26	1	2901152-006	WIRE ND1002181 CLASS 1 TYPE I 8AWG (WHITE)
7	27	1	1016048- 15	TERMINAL-LUG
7	28	1	1016048- 16	TERMINAL-LUG
	29	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	30	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	31	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	32	1	1016128-001	BAND IDENTIFICATION BLANK
	33	AR	MIL-T-713 TYPE P, CLASS 2	LACING TAPE, WAXED, BLACK (ES2732 NO. 18)

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 6 OF 47

WIRING HARNESS A 2901152 E X D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	S1A-11A	73				.25	YES			
			S1A-11B	73				.25	YES			
A	2	1	S1A-11B	73				.25	YES			
			S2B-11A	74				.25	YES			
A	3	1	S2B-11A	74				.25	YES			
			K4-4	28				.25	YES		9	
A	4	1	S1A-10A	73				.25	YES			
			S2A-8B	74				.25	YES			
A	5	1	S1A-10B	73				.25	YES			
			S2A-7A	74				.25	YES			
A	6	1	S1B-11A	73				.25	YES			
			S2B-7A	74				.25	YES			
A	7	1	S1B-~~2A~~1A	73				.25	YES			
			S2B-5A	74				.25	YES			
A	8	1	S1B-11B	73				.25	YES			
			K4-8	28				.25	YES		9	
A	9	1	S1A-5A	73				.25	YES			
			S2A-8A	74				.25	YES			
A	10	1	S2A-11B	74				.25	YES			
			S2B-9A	74				.25	YES			
A	11	1	S2B-1A	74				.25	YES			
			K14-1	21				.25	YES		20	
A	12	1	S2B-6A	74				.25	YES			
			K11-1	19				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 7 OF ~~44~~ 47

WIRING HARNESS A 2901152 E X D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	S2A-11A	74				.25	YES			
			K12-1	20				.25	YES		20	
A	14	1	S2B-9A	74				.25	YES			
			K13-1	20				.25	YES		20	
A	15	1	S2B-10A	74				.25	YES			
			K10-1	19				.25	YES		20	
A	16	1	S1B-1B	73				.25	YES			
			XDS1-10	57				.25	YES			
A	17	1	S1B-2B	73				.25	YES			
			XDS1-1	57				.25	YES			
A	18	1	S1B-3B	73				.25	YES			
			XDS1-2	57				.25	YES			
A	19	1	S1B-4B	73				.25	YES			
			XDS1-3	57				.25	YES			
A	20	1	S1B-5B	73				.25	YES			
			XDS1-4	57				.25	YES			
A	21	1	S1B-6B	73				.25	YES			
			XDS1-5	57				.25	YES			
A	22	1	S1B-7B	73				.25	YES			
			XDS1-6	57				.25	YES			
A	23	1	S1B-8B	73				.25	YES			
			XDS1-7	57				.25	YES			
A	24	1	S1B-9B	73				.25	YES			
			XDS1-8	57				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 8 OF ~~44~~ 47

WIRING HARNESS A 2901152 E X D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1	S1B-10B	73				.25	YES			
			XDS1-9	57				.25	YES			
A	26	1	S2B-1B	74				.25	YES			
			XDS1-20	57				.25	YES			
A	27	1	S2B-2B	74				.25	YES			
			XDS1-11	57				.25	YES			
A	28	1	S2B-3B	74				.25	YES			
			XDS1-12	57				.25	YES			
A	29	1	S2B-4B	74				.25	YES			
			XDS1-13	57				.25	YES			
A	30	1	S2B-5B	74				.25	YES			
			XDS1-14	57				.25	YES			
A	31	1	S2B-6B	74				.25	YES			
			XDS1-15	57				.25	YES			
A	32	1	S2B-7B	74				.25	YES			
			XDS1-16	57				.25	YES			
A	33	1	S2B-8B	74				.25	YES			
			XDS1-17	57				.25	YES			
A	34	1	S2B-9B	74				.25	YES			
			XDS1-18	57				.25	YES			
A	35	1	S2B-10B	74				.25	YES			
			XDS1-19	57				.25	YES			
A	36	1	S1B-1B	73				.25	YES			
			TB1-1	46				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR XDE	SHEET 9 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		S1B-2B	73				.25	YES			
			TB1-2	46				.25	YES			
A 38	1		S1B-3B	73				.25	YES			
			TB1-3	46				.25	YES			
A 39	1		S1B-4B	73				.25	YES			
			TB1-4	45				.25	YES			
A 40	1		S1B-5B	73				.25	YES			
			TB1-5	45				.25	YES			
A 41	1		S1B-6B	73				.25	YES			
			TB1-6	45				.25	YES			
A 42	1		S1B-7B	73				.25	YES			
			TB1-7	44				.25	YES			
A 43	1		S1B-8B	73				.25	YES			
			TB1-8	44				.25	YES			
A 44	1		S1B-9B	73				.25	YES			
			TB1-9	44				.25	YES			
A 45	1		S1B-10B	73				.25	YES			
			TB1-10	43				.25	YES			
A 46	1		S2B-1B	74				.25	YES			
			TB1-11	43				.25	YES			
A 47	1		S2B-2B	74				.25	YES			
			TB1-27	35				.25	YES			
A 48	1		S2B-3B	74				.25	YES			
			TB1-28	35				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 10 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		S2B-4B	74				.25	YES			
			TB1-29	35				.25	YES			
A 50	1		S2B-5B	74				.25	YES			
			TB1-30	37				.25	YES			
A 51	1		S2B-6B	74				.25	YES			
			TB1-31	37				.25	YES			
A 52	1		S2B-7B	74				.25	YES			
			TB1-32	37				.25	YES			
A 53	1		S2B-8B	74				.25	YES			
			TB1-33	38				.25	YES			
A 54	1		S2B-9B	74				.25	YES			
			TB1-34	38				.25	YES			
A 55	1		S2B-10B	74				.25	YES			
			TB1-35	38				.25	YES			
A 56	1		TB1-1	46				.25	YES			
			J3-PP	1				.20	NO		10	
A 57	1		TB1-2	46				.25	YES			
			J3-NN	1				.20	NO		10	
A 58	1		TB1-3	46				.25	YES			
			J3-MM	1				.20	NO		10	
A 59	1		TB1-4	45				.25	YES			
			J3-LL	1				.20	NO		10	
A 60	1		TB1-5	45				.25	YES			
			J3-KK	1				.20	NO		10	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 11 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		TB1-6	45				.25	YES			
			J3-JJ	1				.20	NO		10	
A 62	1		TB1-7	44				.25	YES			
			J3-HH	1				.20	NO		10	
A 63	1		TB1-8	44				.25	YES			
			J3-GG	1				.20	NO		10	
A 64	1		TB1-9	44				.25	YES			
			J3-FF	1				.20	NO		10	
A 65	1		TB1-10	43				.25	YES			
			J3-EE	1				.20	NO		10	
A 66	1		TB1-11	43				.25	YES			
			J3-DD	1				.20	NO		10	
A 67	1		TB1-27	35				.25	YES			
			J3-CC	1				.20	NO		10	
A 68	1		TB1-28	35				.25	YES			
			J3-BB	1				.20	NO		10	
A 69	1		TB1-29	35				.25	YES			
			J3-AA	1				.20	NO		10	
A 70	1		TB1-30	37				.25	YES			
			J3-Z*	1				.20	NO		10	
A 71	1		TB1-31	37				.25	YES			
			J3-Y*	1				.20	NO		10	
A 72	1		TB1-32	37				.25	YES			
			J3-X*	1				.20	NO		10	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 12 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		TB1-33	38				.25	YES			
			J3-W*	1				.20	NO		10	
A 74	1		TB1-34	38				.25	YES			
			J3-V*	1				.20	NO		10	
A 75	1		TB1-35	38				.25	YES			
			J3-U*	1				.20	NO		10	
A 76	1		S2B-11B	74				.25	YES			
			K2-2	26				.25	YES		9	
A 77	1		S15SW1-NC	53				.25	YES			
			XDS15-A	53				.25	YES		20	
A 78	1		XDS15-A	53				.25	YES			
			XDS15-C	53				.25	YES		20	
A 79	1		S15SW1-NC	53				.25	YES			
			K1-1	25				.25	YES		9	
A 80	1		K1-1	25				.25	YES			
			K1-3	25				.25	YES		9	
A 81	1		K1-3	25				.25	YES			
			K2-3	26				.25	YES		9	
A 82	1		K2-3	26				.25	YES			
			K3-3	27				.25	YES		9	
A 83	1		K3-3	27				.25	YES			
			K4-3	28				.25	YES		9	
A 84	1		XDS15-C	53				.25	YES			
			S7SW1-C	65				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 13 OF ~~44~~ 47

MIL 2084 9-65

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		S7SW1-C K16-4	65 18				.25 .25	YES YES		 20	
A 86	1		K16-4 K17-4	18 18				.25 .25	YES YES		 20	
A 87	1		K1-6 K2-4	25 26				.25 .25	YES YES		9 9	
A 88	1		K2-4 J3-S*	26 1				.25 .20	YES NO		 10	
A 89	1		K2-7 J3-R*	26 1				.25 .20	YES NO		9 10	
A 90	1		K2-6 K3-7	26 27				.25 .25	YES YES		9 9	
A 91	1		K3-1 K4-6	27 28				.25 .25	YES YES		9 9	
A 92	1		K4-6 J3-Q*	28 1				.25 .20	YES NO		 10	
A 93	1		K4-7 J3-P*	28 1				.25 .20	YES NO		9 10	
A 94	1		K3-5 K14-4	27 21				.25 .25	YES YES		9 20	
A 95	1		K14-4 K13-4	21 20				.25 .25	YES YES		 20	
A 96	1		K13-4 K12-4	20 20				.25 .25	YES YES		 20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		K12-4 K11-4	20 19				.25 .25	YES YES		 20	
A 98	1		K11-4 K10-4	19 19				.25 .25	YES YES		 20	
A 99	1		K10-3 K10-1	19 19				.25 .25	YES YES		20 	
A 100	1		K11-3 K11-1	19 19				.25 .25	YES YES		20 	
A 101	1		K12-3 K12-1	20 20				.25 .25	YES YES		20 	
A 102	1		K13-3 K13-1	20 20				.25 .25	YES YES		20 	
A 103	1		K14-3 K14-1	21 21				.25 .25	YES YES		20 	
A 104	1		K16-3 K16-1	18 18				.25 .25	YES YES		20 20	
A 105	1		K16-1 K17-1	18 18				.25 .25	YES YES		 20	
A 106	1		K17-3 K17-1	18 18				.25 .25	YES YES		20 	
A 107	1		K16-2 K13-8	18 20				.25 .25	YES YES		20 20	
A 108	1		K13-12 K17-7	20 18				.25 .25	YES YES		20 20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 15 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		K17-2 K13-6	18 20				.25 .25	YES YES		20 20	
A 110	1		K17-3 S14SW1-NO	18 52				.25 .25	YES YES			
A 111	1		S14SW1-NO XDS14-A	52 52				.25 .25	YES YES		 20	
A 112	1		XDS14-A XDS14-C	52 52				.25 .25	YES YES		 20	
A 113	1		S6SW1-C K18-5	64 17				.25 .25	YES YES		 20	
A 114	1		K18-5 K6-3	17 30				.25 .25	YES YES		 9	
A 115	1		K6-3 K6-1	30 30				.25 .25	YES YES		 9	
A 116	1		S6SW1-NC XDS6-C	64 64				.25 .25	YES YES		 20	
A 117	1		XDS6-C XDS6-D	64 64				.25 .25	YES YES		 20	
A 118	1		S6SW1-NC K18-1	64 17				.25 .25	YES YES		 20	
A 119	1		K18-1 K18-3	17 17				.25 .25	YES YES		 20	
A 120	1		K5-2 S6SW2-C	29 64				.25 .25	YES YES		9 	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 16 OF ~~44~~ 47

WIRING HARNESS A 2901152 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		S6SW2-NC K6-6	64 30				.25 .25	YES YES		 9	
A 122	1		S6SW2-NO K18-4	64 17				.25 .25	YES YES		 20	
A 123	1		K5-1 K5-3	29 29				.25 .25	YES YES		9 9	
A 124	1		K5-3 K19-5	29 17				.25 .25	YES YES		 20	
A 125	1		K19-5 S6SW3-C	17 64				.25 .25	YES YES			
A 126	1		S6SW3-NC K19-1	64 17				.25 .25	YES YES		 20	
A 127	1		K19-1 K19-3	17 17				.25 .25	YES YES		 20	
A 128	1		S6SW4-C K18-7	64 17				.25 .25	YES YES		 20	
A 129	1		S6SW4-NC K5-6	64 29				.25 .25	YES YES		 9	
A 130	1		S6SW4-NO XDS6-A	64 64				.25 .25	YES YES		 20	
A 131	1		XDS6-A XDS6-B	64 64				.25 .25	YES YES		 20	
A 132	1		S6SW4-NO K19-4	64 17				.25 .25	YES YES		 9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF ~~44~~ 47

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		S7SW1-NC	65				.25	YES			
			K8-6	32				.25	YES		9	
A 134	1		S7SW1-NO	65				.25	YES			
			K7-2	31				.25	YES		9	
A 135	1		S7SW2-C	65				.25	YES			
			K7-4	31				.25	YES		9	
A 136	1		K7-4	31				.25	YES			
			K8-1	32				.25	YES		9	
A 137	1		K8-1	32				.25	YES			
			K8-3	32				.25	YES		9	
A 138	1		S7SW2-NC	65				.25	YES			
			XDS7-A	65				.25	YES		20	
A 139	1		XDS7-A	65				.25	YES			
			XDS7-C	65				.25	YES		20	
A 140	1		S7SW2-NC	65				.25	YES			
			K7-3	31				.25	YES		9	
A 141	1		K7-5	31				.25	YES		9	
			K7-3	31				.25	YES			
A 142	1		S3SW3-NO	61				.25	YES			
			XDS3-A	61				.25	YES		20	
A 143	1		XDS3-A	61				.25	YES			
			XDS3-C	61				.25	YES		20	
A 144	1		S4SW3-NO	62				.25	YES			
			XDS4-A	62				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152 47	
SCALE-NONE	REV LTR x DE	SHEET 18 OF ~~44~~	

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		XDS4-A	62				.25	YES			
			XDS4-C	62				.25	YES		20	
A 146	1		S8SW3-NC	66				.25	YES			
			XDS8-A	66				.25	YES		20	
A 147	1		XDS8-A	66				.25	YES			
			XDS8-B	66				.25	YES		20	
A 148	1		S8SW3-NO	66				.25	YES			
			XDS8-C	66				.25	YES		20	
A 149	1		XDS8-C	66				.25	YES			
			XDS8-D	66				.25	YES		20	
A 150	1		S12SW3-NC	50				.25	YES			
			XDS12-A	50				.25	YES		20	
A 151	1		XDS12-A	50				.25	YES			
			XDS12-B	50				.25	YES		20	
A 152	1		S12SW3-NO	50				.25	YES			
			XDS12-C	50				.25	YES		20	
A 153	1		XDS12-C	50				.25	YES			
			XDS12-D	50				.25	YES		20	
A 154	1		S11SW3-NC	49				.25	YES			
			XDS11-A	49				.25	YES		20	
A 155	1		XDS11-A	49				.25	YES			
			XDS11-B	49				.25	YES		20	
A 156	1		S11SW3-NO	49				.25	YES			
			XDS11-C	49				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152 47	
SCALE-NONE	REV LTR x DE	SHEET 19 OF ~~44~~	

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		XDS11-C	49				.25	YES			
			XDS11-D	49				.25	YES		20	
A 158	1		S10SW3-NC	68				.25	YES			
			XDS10-A	68				.25	YES		20	
A 159	1		XDS10-A	68				.25	YES			
			XDS10-B	68				.25	YES		20	
A 160	1		S10SW3-NO	68				.25	YES			
			XDS10-C	68				.25	YES		20	
A 161	1		XDS10-C	68				.25	YES			
			XDS10-D	68				.25	YES		20	
A 162	1		S5SW3-NC	63				.25	YES			
			XDS5-A	63				.25	YES		20	
A 163	1		XDS5-A	63				.25	YES			
			XDS5-B	63				.25	YES		20	
A 164	1		S5SW3-NO	63				.25	YES			
			XDS5-C	63				.25	YES		20	
A 165	1		XDS5-C	63				.25	YES			
			XDS5-D	63				.25	YES		20	
A 166	1		K15-12	21				.25	YES		20	
			S16SW1-C	54				.25	YES			
A 167	1		S16SW1-NC	54				.25	YES			
			K9-6	33				.25	YES		9	
A 168	1		S16SW1-NO	54				.25	YES			
			K15-3	21				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152 47	
SCALE-NONE	REV LTR x DE	SHEET 20 OF ~~44~~	

MIL 2084 9-65

WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		S16SW2-NC	54				.25	YES			
			XDS16-A	54				.25	YES		20	
A 170	1		XDS16-A	54				.25	YES			
			XDS16-C	54				.25	YES		20	
A 171	1		S16SW2-NC	54				.25	YES			
			K15-2	21				.25	YES		18	
A 172	1		K15-2	21				.25	YES			
			K15-4	21				.25	YES		18	
A 173	1		S16SW2-C	54				.25	YES			
			K15-1	21				.25	YES		20	
A 174	1		K15-1	21				.25	YES			
			K9-3	33				.25	YES		9	
A 175	1		K9-3	33				.25	YES			
			K9-1	33				.25	YES		9	
A 176	1		S9SW1-NC	67				.25	YES			
			XDS9-A	67				.25	YES		20	
A 177	1		XDS9-A	67				.25	YES			
			XDS9-B	67				.25	YES		20	
A 178	1		S9SW1-NC	67				.25	YES			
			S10SW3-C	68				.25	YES			
A 179	1		S10SW3-C	68				.25	YES			
			S11SW3-C	49				.25	YES			
A 180	1		S9SW1-NO	67				.25	YES			
			XDS9-C	67				.25	YES		20	

SIZE A	CODE IDENT NO. 99974	2901152 47	
SCALE-NONE	REV LTR x DE	SHEET 21 OF ~~44~~	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		XDS9-C	67				.25	YES			
			XDS9-D	67				.25	YES		20	
A 182	1		S9SW1-NO	67				.25	YES			
			S12SW3-C	50				.25	YES			
A 183	1		S12SW3-C	50				.25	YES			
			K20-1	15				.25	YES		20	
A 184	1		PS2-2	12				.25	YES			
			R3-1	78				.25	YES			
A 185	1		R3-3	78				.25	YES			
			TB1-12	43				.25	YES			
A 186	1		TB1-26	40				.25	YES			
			PS2-5	12				.25	YES			
A 187	14				1.82	1.50				B,6B	16, 12	
					1.82	1.50					12	
A 187A	1		SHLD A187					.25	NO			
			J4-C	2				.25	NO		11	A188A IN THIS PIN
A 187L			J4-A	2				.25	NO		11	A188L IN THIS PIN
			PS1-1	7				.25	YES			
A 187R			J4-B	2				.25	NO		11	A188R IN THIS PIN
			PS1-2	7				.25	YES			
A 188	14				1.82	1.50				B,6B	16, 12	
					1.82	1.50					12	
A 188A	1		SHLD A188					.25	NO			
			J4-C	2				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR xDE	SHEET 22 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 188L			J4-A	2				.25	NO			
			PS2-11	12				.25	YES			
A 188R			J4-B	2				.25	NO			
			PS2-12	12				.25	YES			
A 189	1		PS1-4	7				.25	YES			
			TB2-1	10				.25	NO		21	
A 190	1		PS2-14	12				.25	YES			
			TB2-2	11				.25	NO		21	
A 191	1		PS1-3	7				.25	YES			
			XF2-1	77				.25	YES		19	
A 192	1		PS2-13	12				.25	YES			
			XF3-1	69				.25	YES		19	
A 193	1		K15-10	21				.25	YES		20	
			TB2-3	10				.25	NO		21	
A 194	1		XF2-2	77				.25	YES			
			K15-12	21				.25	YES		20	
A 195	1		XF3-2	69				.25	YES			
			K15-5	21				.25	YES		20	
A 196	1		K15-9	21				.25	YES		18	
			E1	8				.25	NO			
A 197	1		K15-13	21				.25	YES		18	
			E2	9				.25	NO			
A 198	1		K15-6	21				.25	YES		18	
			E3	13				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR xDE	SHEET 23 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 199	1		K9-7	33				.25	YES		9	
			K15-11	21				.25	YES		20	
A 200	1		K15-11	21				.25	YES			
			K15-10	21				.25	YES			
A 201	1		E1	8				.25	NO			
			J1-S	24				.25	YES		9	
A 202	1		E3	13				.25	NO			
			J1-R	24				.25	YES		9	
A 203L	1		E1	8				.25	NO			SEE NOTE 15
			J3-N*	1				.20	NO		10	
A 203R	1		E3	13				.25	NO			SEE NOTE 15
			J3-M*	1				.20	NO		10	
A 204L	1		E1	8				.25	NO			SEE NOTE 15
			J3-K*	1				.20	NO		10	
A 204R	1		E2	9				.25	NO			SEE NOTE 15
			J3-J*	1				.20	NO		10	
A 205L	1		J1-P	24				.25	YES		9	SEE NOTE 15
			J3-I*	1				.20	NO		10	
A 205R	1		J1-N	24				.25	YES		9	SEE NOTE 15
			J3-H*	1				.20	NO		10	
A 206L	1		~~E1~~ K22-5	18A				.25	~~NO~~ YES		20	SEE NOTE 15
			R2-COM	75				.25	YES			
A 206R	1		~~E3~~ K22-8	18A				.25	NO			SEE NOTE 15
			R2-IN	75				.25	YES			

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR xDE	SHEET 24 OF ~~44~~ 47

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		E1	8				.25	NO			
			K11-7	19				.25	YES		20	
A 208	1		R2-OUT	75				.25	YES			
			K11-10	19				.25	YES		20	
A 209	1		E4	47				.25	NO			
			S15SW1-C	53				.25	YES			
A 210	1		S15SW1-C	53				.25	YES			
			S14SW1-C	52				.25	YES			
A 211	1		E4	47				.25	NO			
			S9SW1-C	67				.25	YES			
A 212	1		S9SW1-C	67				.25	YES			
			S8SW3-C	66				.25	YES			
A 213	1		E4	47				.25	NO			
			S5SW3-C	63				.25	YES			
A 214	1		S5SW3-C	63				.25	YES			
			S4SW3-C	62				.25	YES			
A 215	1		S4SW3-C	62				.25	YES			
			S3SW3-C	61				.25	YES			
A 216	1		E4	47				.25	NO			
			E2	9				.25	NO			
A 217	1		K7-6	31				.25	YES		9	
			K13-13	20				.25	YES		20	
A 218	1		E2	9				.25	NO			
			K5-4	29				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR xDE	SHEET 25 OF ~~44~~ 47

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	1		K5-4	29				.25	YES			
			K3-2	27				.25	YES		9	
A 220	1		K4-2	28				.25	YES		9	
			K2-4	26				.25	YES			
A 221	1		E2	9				.25	NO			
			K18-8	17				.25	YES		20	
A 222	1		K18-8	17				.25	YES			
			J1-J	24				.25	YES		9	
A 223	1		J1-J	24				.25	YES			
			J2-J	23				.25	YES		9	
A 224	1		XDS3-G	61				.25	YES		20	
			XDS4-G	62				.25	YES		20	
A 225	1		XDS4-G	62				.25	YES			
			XDS5-G	63				.25	YES		20	
A 226	1		XDS5-G	63				.25	YES			
			E5	51				.25	NO			
A 227	1		XDS6-G	64				.25	YES		20	
			XDS7-G	65				.25	YES		20	
A 228	1		XDS7-G	65				.25	YES			
			XDS8-G	66				.25	YES		20	
A 229	1		XDS8-G	66				.25	YES			
			E5	51				.25	NO			
A 230	1		XDS9-G	67				.25	YES		20	
			XDS10-G	68				.25	YES		20	

SIZE A
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SCALE-NONE
REV LTR X ~~D~~ E
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 231	1		XDS10-G	68				.25	YES			
			XDS11-G	49				.25	YES		20	
A 232	1		XDS11-G	49				.25	YES			
			XDS12-G	50				.25	YES		20	
A 233	1		XDS12-G	50				.25	YES			
			E5	51				.25	NO			
A 234	1		XDS16-G	54				.25	YES		20	
			XDS15-G	53				.25	YES		20	
A 235	1		XDS15-G	53				.25	YES			
			XDS14-G	52				.25	YES		20	
A 236	1		XDS14-G	52				.25	YES			
			XDS13-G	51A				.25	~~NO~~ YES		20	
A 237	1		XDS1-G	57				.25	YES			
			B1-GND	58				.25	YES			
A 238	1		B1-GND	58				.25	YES			
			R2-GND	75				.25	YES			
A 239	1		R2-GND	75				.25	YES			
			E5	51				.25	NO			
A 240	1		B2-GND	56				.25	YES			
			R1-GND	72				.25	YES			
A 241	1		R1-GND	72				.25	YES			
			E5	51				.25	NO			
A 242	2				1.82	1.50					12	
					2.82	2.50				B,6A	12, 16	

SIZE A
CODE IDENT NO. 99974
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47
SCALE-NONE
REV LTR X ~~D~~ E
SHEET 27 OF ~~44~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 242B	1		E11	48				.25	NO			
			SHLD A242					.25	NO			
A 242L			J8	6				.25	YES			
			E6	79				.25	NO			
A 242R			J7	5				.25	YES			
			XF5-1	71				.25	YES		19	
A 243	2				1.82	1.50					12	
					2.82	2.50				B,6A	12, 16	
A 243B	1		E11	48				.25	NO			
			SHLD A243					.25	NO			
A 243L			J6	4				.25	YES			
			E6	79				.25	NO			
A 243R			J5	3				.25	YES			
			XF4-1	70				.25	YES		19	
A 244	1		XF5-2	71				.25	YES			
			S9SW2-NO	67				.25	YES			
A 245	1		XF4-2	70				.25	YES			
			S9SW2-NC	67				.25	YES			
A 246	2				1.82	1.50					12	
					2.82	2.50				B,6A	12, 16	
A 246B	1		E7	16				.25	NO			
			SHLD A246					.25	NO			
A 246L			S12SW2-NO	50				.25	YES			
			T1-2	15				.25	YES		20	

SIZE A
CODE IDENT NO. 99974
2901152
47
SCALE-NONE
REV LTR X ~~D~~ E
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 246R			S12SW1-NO	50				.25	YES			
			T1-1	15				.25	YES		20	
A 247	1		E6	79				.25	YES			
			S9SW3-NO	67				.25	YES			
A 248	1		E6	79				.25	NO			
			S9SW3-NC	67				.25	YES			
A 249	2				1.82	1.50					12	
					1.82	1.50				B,6A	12, 16	
A 249B	1		E7	16				.25	NO			
			SHLD A249					.25	NO			
A 249L			S9SW3-C	67				.25	YES			
			K20-4	15				.25	YES		20	
A 249R			S9SW2-C	67				.25	YES			
			K20-7	15				.25	YES		20	
A 250	2				2.32	2.00				B,6A	12, 16	
					2.82	2.50					12	
A 250A	1		SHLD A250					.25	NO			
			E7	16				.25	NO			
A 250L			K20-5	15				.25	YES		20	
			B1-5	58				.25	YES			
A 250R			K20-8	15				.25	YES		20	
			B1-1	58				.25	YES			
A 251	2				2.32	2.00				B,6A	12, 16	
					2.82	2.50					12	

SIZE A
CODE IDENT NO. 99974
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47
SCALE-NONE
REV LTR ~~D~~ E
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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251A	1		SHLD A251					.25	NO			
			E7	16				.25	NO			
A 251L			K20-3	15				.25	YES		20	
			B2-5	56				.25	YES			
A 251R			K20-6	15				.25	YES		20	
			B2-1	56				.25	YES			
A 252	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 252B	1		E7	16				.25	NO			
			SHLD A252					.25	NO			
A 252L			B1-4	58				.25	YES			
			K20-11	15				.25	YES		20	
A 252R			B1-3	58				.25	YES			
			K20-14	15				.25	YES		20	
A 253	2				2.82	2.50					12	
					2.32	2.00				B,6A	12, 16	
A 253B	1		E7	16				.25	NO			
			SHLD A253					.25	NO			
A 253L			B2-4	56				.25	YES			
			K20-9	15				.25	YES		20	
A 253R			B2-3	56				.25	YES			
			K20-12	15				.25	YES		20	
A 254	1		K20-13	15				.25	YES		20	
			J1-A	24				.25	YES		9	

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SCALE-NONE | REV LTR x D E | SHEET 30 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 255	1		K20-10	15				.25	YES		20	
			J1-B	24				.25	YES		9	
A 256	1		B1-2	58				.25	YES			
			J1-D	24				.25	YES		9	
A 257	1		B2-2	56				.25	YES			
			J1-F	24				.25	YES		9	
A 258	1		K20-12	15				.25	YES			
			J1-C	24				.25	YES		9	
A 259	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 259A	1		SHLD A259					.25	NO			
			E13	22				.25	NO			
A 259L			J1-L	24				.25	YES		9	
			R1-COM	72				.25	YES			
A 259R			J1-E	24				.25	YES		9	
			R1-IN	72				.25	YES			
A 260	2				2.82	2.50				B,6A	12, 16	
					2.82	2.50					12	
A 260A	1		SHLD A260					.25	NO			
			E13	22				.25	NO			
A 260L			J2-B	23				.25	YES		9	
			R1-COM	72				.25	YES			
A 260R			J1-H	24				.25	YES		9	
			R1-OUT	72				.25	YES			

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 261	1		J1-Y	24				.25	YES		9	
			J2-A	23				.25	YES		9	
A 262	1		J2-Y	23				.25	YES		9	
			K20-19	15				.25	YES		20	
A 263	1		J2-Z	23				.25	YES		9	
			K20-16	15				.25	YES		20	
A 264	2				1.82	1.50				B,6A	12, 16	
					1.82	1.50					12	
A 264A	1		SHLD A264					.25	NO			
			E13	22				.25	NO			
A 264L			J2-Z	23				.25	YES		9	
			J17	55				.25	YES			
A 264R			J2-Y	23				.25	YES		9	
			J16	55				.25	YES			
A 265	1		S9SW2-C	67				.25	YES			
			S5SW1-NC	63				.25	YES			
A 266	1		S9SW3-C	67				.25	YES			
			S5SW2-NC	63				.25	YES			
A 267	1		S9SW2-NC	67				.25	YES			
			S10SW1-NO	68				.25	YES			
A 268	1		S9SW3-NC	67				.25	YES			
			S10SW2-NO	68				.25	YES			
A 269	1		S10SW1-NO	68				.25	YES			
			S11SW1-NO	49				.25	YES			

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SCALE-NONE | REV LTR x D E | SHEET 32 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 270	1		S10SW2-NO	68				.25	YES			
			S11SW2-NO	49				.25	YES			
A 271	1		S9SW2-NO	67				.25	YES			
			S12SW1-NO	50				.25	YES			
A 272	1		S9SW3-NO	67				.25	YES			
			S12SW2-NO	50				.25	YES			
A 273	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 273A	1		SHLD A273					.25	NO			
			E7	16				.25	NO			
A 273L			K20-17	15				.25	YES		20	
			S10SW2-NC	68				.25	YES			
A 273R			K20-20	15				.25	YES		20	
			S10SW1-NC	68				.25	YES			
A 274	1		S10SW1-NC	68				.25	YES			
			S11SW1-NC	49				.25	YES			
A 275	1		S10SW2-NC	68				.25	YES			
			S11SW2-NC	49				.25	YES			
A 276	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 276A	1		SHLD A276					.25	NO			
			E7	16				.25	NO			
A 276L			K20-15	15				.25	YES		20	
			S12SW2-NC	50				.25	YES			

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SCALE-NONE | REV LTR x D E | SHEET 33 OF ~~44~~ 47

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 276R			K20-18	15				.25	YES		20	
			S12SW1-NC	50				.25	YES			
A 277	1		K20-19	15				.25	YES			
			K14-10	21				.25	YES		20	
A 278	1		K20-16	15				.25	YES			
			K14-7	21				.25	YES		20	
A 279	1		K14-9	21				.25	YES		20	
			K12-9	20				.25	YES		20	
A 280	1		K14-6	21				.25	YES		20	
			K12-6	20				.25	YES		20	
A 281	1		K12-9	20				.25	YES			
			K11-9	19				.25	YES		20	
A 282	1		K12-6	20				.25	YES			
			K11-6	19				.25	YES		20	
A 283	1		K11-9	19				.25	YES			
			K10-9	19				.25	YES		20	
A 284	1		K11-6	19				.25	YES			
			K10-6	19				.25	YES		20	
A 285	1		K10-9	19				.25	YES			
			K16-10	18				.25	YES		20	
A 286	1		K10-6	19				.25	YES			
			K16-7	18				.25	YES		20	
A 287	1		K13-9	20				.25	YES		20	
			K16-10	18				.25	YES			

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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 288	1		K13-12	20				.25	YES			
			K16-7	18				.25	YES			
A 289	1		K13-9	20				.25	YES			
			K17-10	18				.25	YES		20	
A 290	1		K17-10	18				.25	YES			
			K19-9	17				.25	YES		20	
A 291	1		K17-7	18				.25	YES			
			K19-6	17				.25	YES		20	
A 292	1		K17-9	18				.25	YES		20	
			K16-9	18				.25	YES		20	
A 293	1		K17-6	18				.25	YES		20	
			K16-6	18				.25	YES		20	
A 294	3				1.82	1.50				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 294A	1		SHLD A294					.25	NO			
			K16-6	18				.25	YES			
A 294B	1		E9	80				.25	NO			
			SHLD A294					.25	NO			
A 294E			K16-9	18				.25	YES			
			XF1-1	76				.25	YES		19	
A 295	3				2.32	2.00				B,6A	12, 16	
					1.82	1.50				B,6B	12, 16	
A 295A	1		SHLD A295					.25	NO			
			E9	80				.25	NO			

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CODE IDENT NO. 99974
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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295B	1		J3-G*	1				.20	NO		10	
			SHLD A295					.25	NO			
A 295E			XF1-2	76				.25	YES			
			J3-F*	1				.20	NO		10	
A 296	4				.32						13	
					1.82	1.50				B,6A	13, 16	
A 296B	1		E10	34				.25	NO			
			SHLD A296					.25	NO			
A 296E			J9-I	60				.13	NO			
			S8SW1-C	66				.25	YES			
A 296X			J9-O	60						A,8		
			SHLD A296									
A 297	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 297A	1		SHLD A297					.25	NO			
			E10	34				.25	NO			
A 297B	1		TB1-39	41				.25	YES			
			SHLD A297					.25	NO			
A 297E			S8SW1-NO	66				.25	YES			
			TB1-38	41				.25	YES			
A 298	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6A	12, 16	
A 298A	1		SHLD A298					.25	NO			
			TB1-39	41				.25	YES			

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CODE IDENT NO. 99974
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SCALE-NONE
REV LTR x D E
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WIRING HARNESS A 2901152 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 298B	1		E10	34				.25	NO			
			SHLD A298					.25	NO			
A 298E			TB1-13	42				.25	YES			
			S8SW2-NO	66				.25	YES			
A 299	1		S8SW1-NC	66				.25	YES			
			S8SW2-NC	66				.25	YES			
A 300	3				2.32	2.00				B,6A	12, 16	
					2.32	2.00				B,6B	12, 16	
A 300A	1		SHLD A300					.25	NO			
			E10	34				.25	NO			
A 300B	1		K12-7	20				.25	YES		20	
			SHLD A300					.25	NO			
A 300E			S8SW2-C	66				.25	YES			
			K12-10	20				.25	YES		20	
A 301	1		K7-5	31				.25	YES			
			K13-10	20				.25	YES		20	
A 302	1		J13	59				.25	YES			
			K10-10	19				.25	YES		20	
A 303	1		J14	59				.25	YES			
			K10-7	19				.25	YES		20	
A 304	1		J15	59				.25	YES			
			J3-U	1				.20	NO		10	
A 305	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6B	12, 16	

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CODE IDENT NO. 99974
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SCALE-NONE
REV LTR x D E
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 305A	1		SHLD A305					.25	NO			
			J3-E*	1				.20	NO		10	
A 305B	1		K18-9	17				.25	YES		20	
			SHLD A305					.25	NO			
A 305E			J3-D*	1				.20	NO		10	
			K18-12	17				.25	YES		20	
A 306	1		K18-13	17				.25	YES		20	
			K19-11	17				.25	YES		20	
A 307	1		K18-10	17				.25	YES		20	
			K19-8	17				.25	YES		20	
A 308	3				2.32	2.00				B,6B	12, 16	
					2.32	2.00				B,6B	12, 16	
A 308A	1		SHLD A308					.25	NO			
			K19-7	17				.25	YES		20	
A 308B	1		S3SW2-C	61				.25	YES			
			SHLD A308					.25	NO			
A 308E			K19-10	17				.25	YES		20	
			S3SW1-C	61				.25	YES			
A 309	1		S3SW1-C	61				.25	YES			
			S4SW1-C	62				.25	YES			
A 310	1		S3SW2-C	61				.25	YES			
			S4SW2-C	62				.25	YES			
A 311	1		S4SW1-NO	62				.25	YES			
			S5SW1-NO	63				.25	YES			

SIZE A | CODE IDENT NO. 99974 | 2901152 | 47

SCALE-NONE | REV LTR ~~D~~ E | SHEET 38 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 312	1		S4SW2-NO	62				.25	YES			
			S5SW2-NO	63				.25	YES			
A 313	1		S3SW1-NO	61				.25	YES			
			J10	59				.25	YES			
A 314	1		S3SW2-NO	61				.25	YES			
			J11	59				.25	YES			
A 315	1		E5	51				.25	NO			
			J12	59				.25	YES			
A 316	1		S5SW1-C	63				.25	YES			
			J18	55				.25	YES			
A 317	1		S5SW2-C	63				.25	YES			
			J19	55				.25	YES			
A 318	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 318A	1		SHLD A318					.25	NO			
			E11	48				.25	NO			
A 318L			S10SW2-C	68				.25	YES			
			J3-C*	1				.20	NO		10	
A 318R			S10SW1-C	68				.25	YES			
			J3-B*	1				.20	NO		10	
A 319	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 319A	1		SHLD A319					.25	NO			
			E11	48				.25	NO			

SIZE A | CODE IDENT NO. 99974 | 2901152 | 47

SCALE-NONE | REV LTR ~~D~~ E | SHEET 39 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319L			S11SW2-C	49				.25	YES			
			J3-A*	1				.20	NO		10	
A 319R			S11SW1-C	49				.25	YES			
			J3-Z	1				.20	NO		10	
A 320	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 320A	1		SHLD A320					.25	NO			
			E11	48				.25	NO			
A 320L			S12SW2-C	50				.25	YES			
			J3-Y	1				.20	NO		10	
A 320R			S12SW1-C	50				.25	YES			
			J3-X	1				.20	NO		10	
A 321	2				2.32	2.00				B,6A	12, 16	
					2.32	2.00					12	
A 321A	1		SHLD A321					.25	NO			
			E7	16				.25	NO			
A 321L			T1-4	15				.25	YES		20	
			J3-W	1				.20	NO		10	
A 321R			T1-3	15				.25	YES		20	
			J3-V	1				.20	NO		10	
A 322	1		K1-7	25				.25	YES		9	
			K2-1	26				.25	YES		9	
A 323	1		K2-1	26				.25	YES			
			K5-7	29				.25	YES		9	

SIZE A | CODE IDENT NO. 99974 | 2901152 | 47

SCALE-NONE | REV LTR ~~D~~ E | SHEET 40 OF ~~44~~ 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 324	1		K5-7	29				.25	YES			
			K6-7	30				.25	YES		9	
A 325	1		K6-7	30				.25	YES			
			K7-7	31				.25	YES		9	
A 326	1		K7-7	31				.25	YES			
			K7-1	31				.25	YES		9	
A 327	1		K8-7	32				.25	YES		9	
			K7-1	31				.25	YES			
A 328	1		E12	14				.25	NO			
			K14-2	21				.25	YES		20	
A 329	1		K14-2	21				.25	YES			
			K13-2	20				.25	YES		20	
A 330	1		K13-2	20				.25	YES			
			K13-7	20				.25	YES		20	
A 331	1		K13-7	20				.25	YES			
			K12-2	20				.25	YES		20	
A 332	1		K12-2	20				.25	YES			
			K11-2	19				.25	YES		20	
A 333	1		K11-2	19				.25	YES			
			K10-2	19				.25	YES		20	
A 334	1		E12	14				.25	NO			
			K20-2	15				.25	YES		20	
A 335	1		K20-2	15				.25	YES			
			K19-2	17				.25	YES		20	

SIZE A | CODE IDENT NO. 99974 | 2901152 | 47

SCALE-NONE | REV LTR ~~D~~ E | SHEET 41 OF ~~44~~ 47

WIRING HARNESS A 2901152 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 336	1		K19-2	17				.25	YES			
			K18-2	17				.25	YES		20	
A 337	1		E6	79				.25	NO			
			TB2-4	11				.25	NO		21	
A 338	1		E7	16				.25	NO			
			TB2-5	10				.25	NO		21	
A 339	1		E10	34				.25	NO			
			TB2-6	11				.25	NO		21	
A 340	1		E11	48				.25	NO			
			TB2-7	10				.25	NO		21	
A 341	1		E12	14				.25	NO			
			TB2-8	11				.25	NO		21	
A 342	26		E8	82				.30	NO		27	
			TB2-16	81				.30	NO		28	
A 343	1		TB1-15	36				.25	YES			
			TB2-9	10				.25	NO		21	
A 344	1		K21-7	33A				.25	YES		20	
			K8-7	32				.25	YES			
A 345	1		T1-2	15				.25	YES			
			T1-4	15				.25	YES			
A 346	1		J3-T*	1				.20	NO		10	
			TB2-10	11				.25	NO		21	
A 347	1		K4-3	28				.25	YES			
			K3-6	27				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 42 OF 47

WIRING HARNESS A 2901152 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 348	1		E13	22				.25	NO			
			TB2-11	10				.25	NO		21	
A 349	1		J3-T	1				.20	NO		10	
			TB2-12	11				.25	NO		21	
A 350	1		J3-S	1				.20	NO		10	
			TB2-12	11				.25	NO		21	
A 351	1		J3-R	1				.20	NO		10	
			TB2-13	10				.25	NO		21	
A 352	1		K15-4	21				.25	YES			
			TB1-36	39				.25	YES			
A 353	1		S2C-5A	74				.25	YES			
			S1C-11A	73				.25	YES			
A 354	1		S1C-9A	73				.25	YES			
			K21-3	33A				.25	YES		9	
A 355	1		K21-3	33A				.25	YES			
			K21-5	33A				.25	YES		9	
A 356	1		S1C-7A	73				.25	YES			
			S13SW1-C	51A				.25	YES			
A 357	1		S13SW1-NO	51A				.25	YES			
			K21-1	33A				.25	YES		9	
A 358	1		K21-6	33A				.25	YES		9	
			S1C-10A	73				.25	YES			
A 359	1		K21-6	33A				.25	YES			
			K22-1	18A				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 43 OF 47

WIRING HARNESS A 2901152 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 360	1		S1A-11A	73				.25	YES			
			S2C-11A	74				.25	YES			
A 361	1		K22-3	18A				.25	YES		20	
			K22-8	18A				.25	YES		20	
A 362	1		K22-5	18A				.25	YES		20	
			K22-6	18A				.25	YES		20	
A 363	1		K3-5	27				.25	YES			
			K21-2	33A				.25	YES		9	
A 364			DELETED									
A 365	1		K11-3	19				.25	YES			
			K22-10	18A				.25	YES		20	
A 366	1		K22-11	18A				.25	YES		20	
			XDS13-A	51A				.25	YES		20	
A 367	1		XDS13-A	51A				.25	YES			
			XDS13-B	51A				.25	YES		20	
A 368	1		K22-9	18A				.25	YES			
			XDS13-C	51A				.25	YES		20	
A 369	1		XDS13-C	51A				.25	YES			
			XDS13-D	51A				.25	YES		20	
A 370L	1		J3-N	1				.20	NO		10	SEE NOTE 15
			K22-4	18A				.25	YES		20	
A 370R	1		J3-P	1				.20	NO		10	SEE NOTE 15
			K22-7	18A				.25	YES		20	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 44 OF 47

WIRING HARNESS A 2901152 F

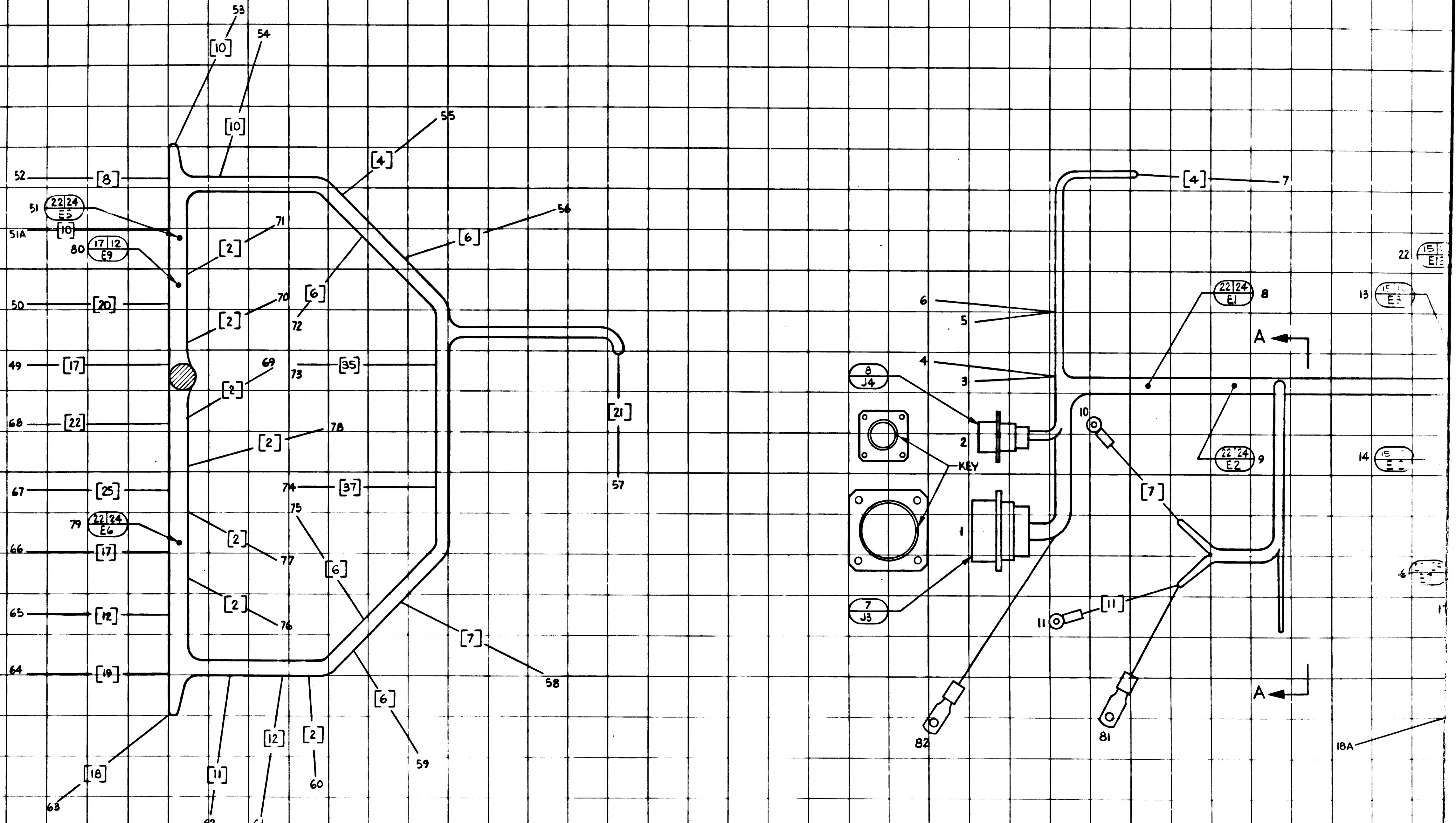
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 371L	1		J3-K	1				.20	NO		10	SEE NOTE 15
			K23-7	18A				.25	YES		20	
A 371R	1		J3-L	1				.20	NO		10	SEE NOTE 15
			K23-10	18A				.25	YES		20	
A 372			S1B-2A	73				.25	YES			
			K23-1	18A				.25	YES		20	
A 373			K23-1	18A				.25	YES			
			K23-3	18A				.25	YES		20	
A 374			K10-4	19				.25	YES			
			K23-4	18A				.25	YES		20	
A 375			K23-6	18A				.25	YES		20	
			K14-6	21				.25	YES			
A 376			K23-9	18A				.25	YES		20	
			K14-9	21				.25	YES			
A 377			K10-2	19				.25	YES			
			K22-2	18A				.25	YES		20	
A 378	1		K22-2	18A				.25	YES			
			K23-2	18A				.25	YES		20	
A 379	1		K21-7	33A				.25	YES		9	
			E12	14				.25	NO			
A 380	1		XDS13-G	51A				.25	YES			
			E5	51				.25	NO			
A 381	1		J3-M	1				.20	NO		10	
			TB2-14	11				.25	NO		21	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR F	SHEET 45 OF 47

WIRING HARNESS A 2901152 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 382	1		J3-J	1				.20	NO		10	
			TB2-14	11				.25	NO		21	
A 383	1		R2-COM	75				.25	YES			
			E1	8				.25	NO			
A 384	1		K22-12	18A				.25	YES		20	
			K22-1	18A				.25	YES			
A 385	1		K21-4	33A				.25	YES		9	
			K22-13	18A				.25	YES		20	
A 386	1		J1-S	24				.25	YES			
			J1-K	24				.25	YES		9	

SIZE	CODE IDENT NO.	
A	99974	2901152
SCALE-NONE	REV LTR 6	SHEET 46 OF 47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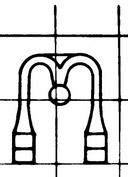
SECTION C-C

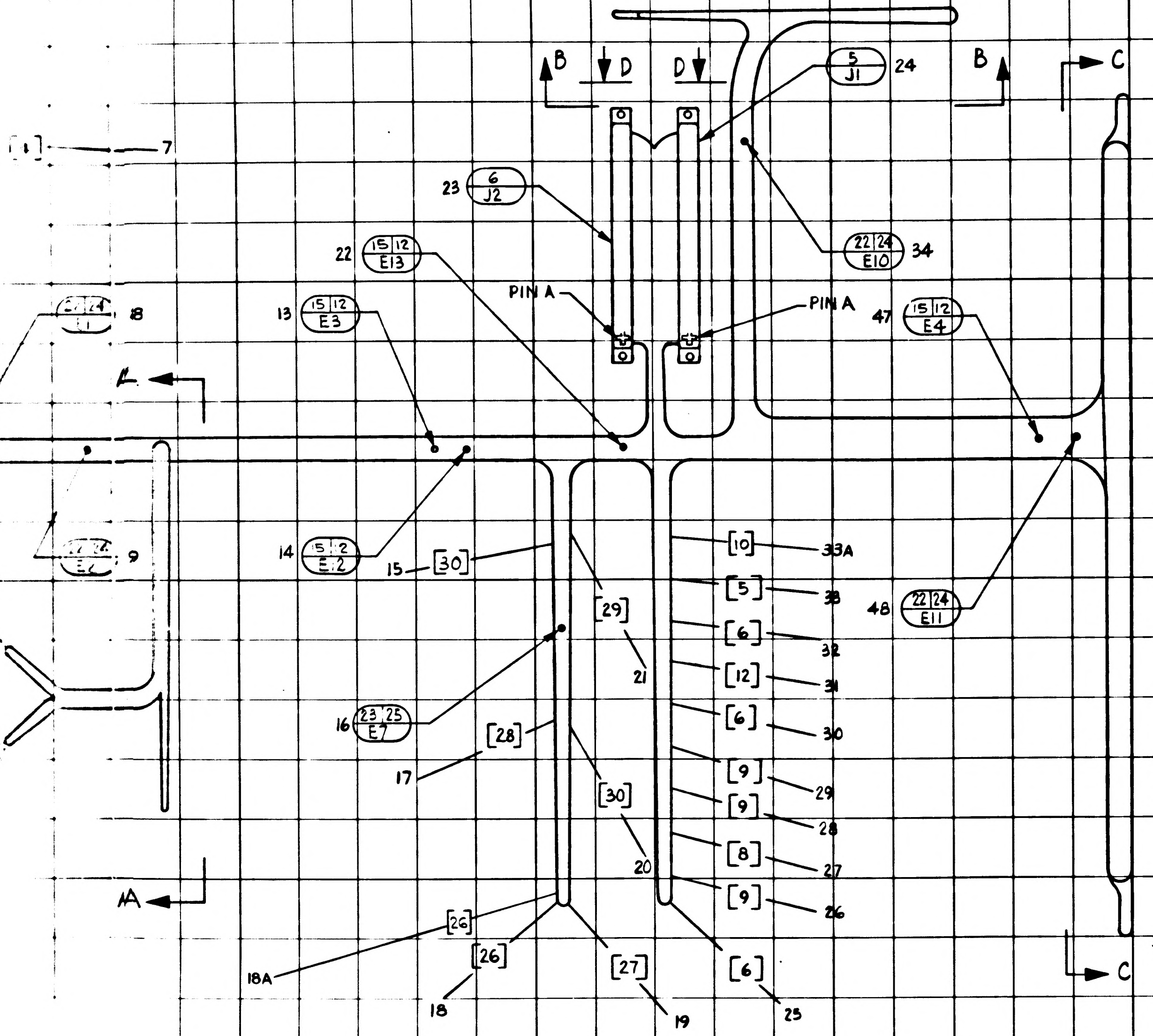
2901152

1/7-2901152

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD


VIEW D-D



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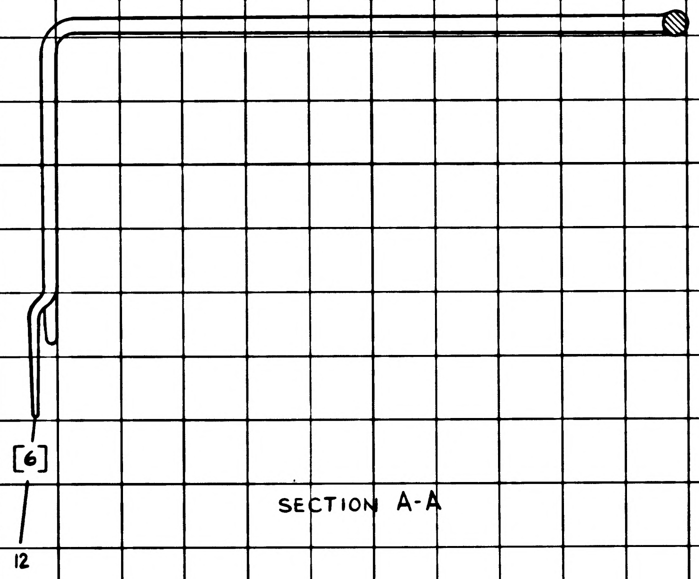
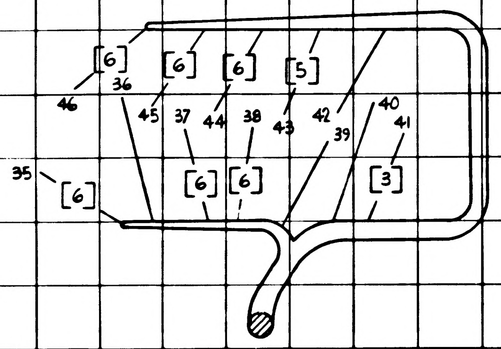


SECTION A-A



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SECTION B-B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + — − / 3 PLACE DECIMALS + — − / ANGLES + — −	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
	DRAWN SPLANE DATE FEB 66 CHECKED Charles 8 MAR APPROVAL Johnson CONTRACT NA 9497	WIRING HARNESS "A"
DO NOT SCALE THIS DRAWING		
MATERIAL —	NASA APPROVAL	SIZE J2 · CODE IDENT NO. 99974 · 2901152
APPROVAL	MIT APPROVAL	SCALE — · SHEET 47 OF 47

2901152

27/2901152

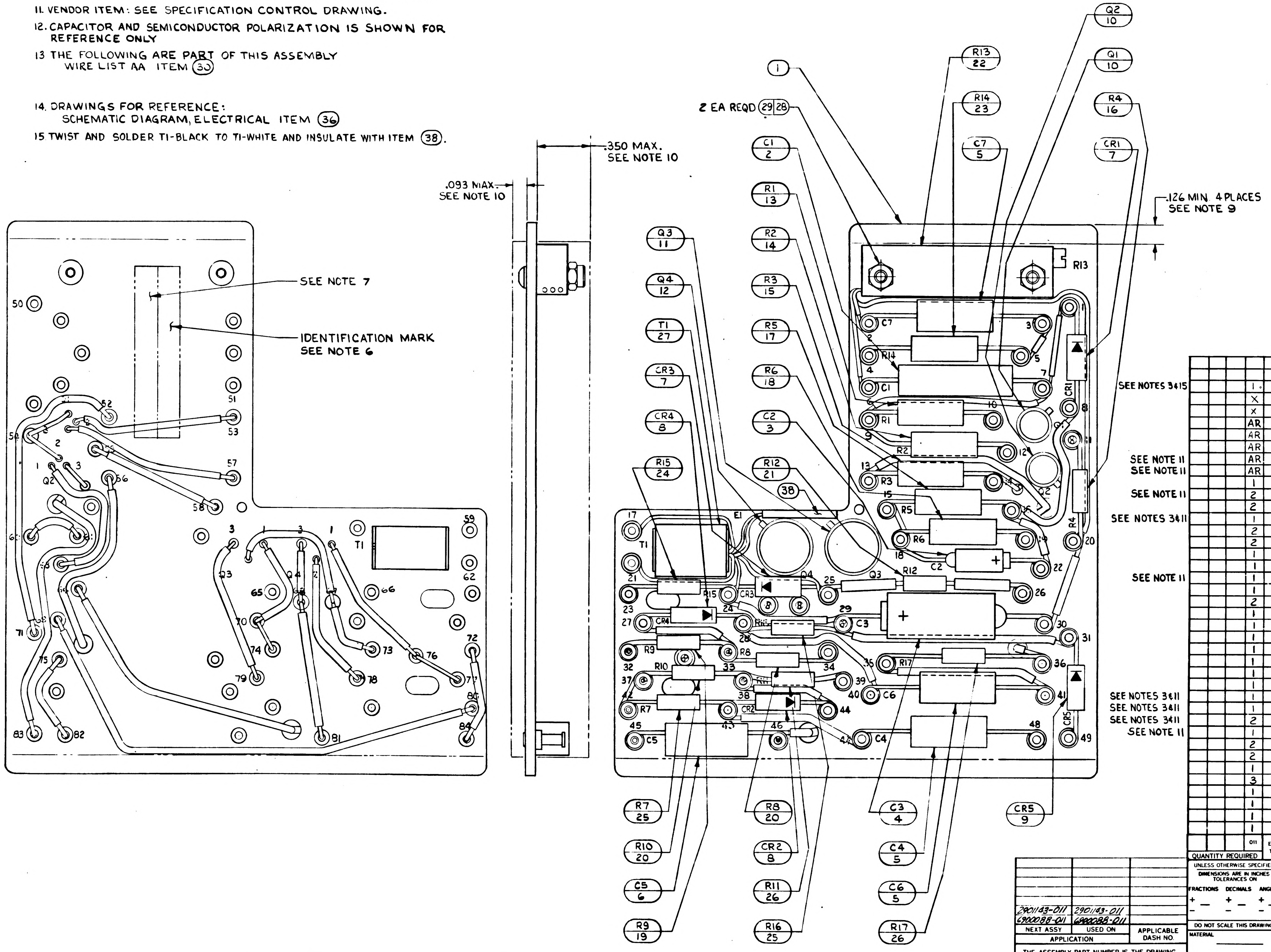
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER MXC 209487		3 MAR 66	JIM
B		REVISED PER MXC 210287		7 MAR 66	
C		INITIAL RELEASE CLASS A PER TDRR 28598		2 MAY 66	EF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS (33) AND (34) OR ITEM (35).
3. BOND ITEMS (10) (11) (12) (27) & (38) TO ITEM (1) PER ND 1002203.
4. USE INSULATING SLEEVE ITEM (31) AS REQUIRED ON LEADS OF ITEMS (10) (11) AND (12).
5. USE INSULATING SLEEVE ITEM (32) AS REQUIRED ON LEADS OF ITEMS (21) AND (27).
6. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
7. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .09 HIGH, COLOR BLACK.
8. SERIALIZE PER ND1002023.
9. INDICATED AREAS MUST BE FREE OF WIRE LEADS, COMPONENTS AND BONDING MATERIAL.
10. BOND WIRES TO ITEM (1) AS REQUIRED PER ND1002203 TO MAINTAIN .093 MAX. AND .350 MAX. DIMENSIONS AS SHOWN.
11. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
12. CAPACITOR AND SEMICONDUCTOR POLARIZATION IS SHOWN FOR REFERENCE ONLY
13. THE FOLLOWING ARE PART OF THIS ASSEMBLY
    WIRE LIST AA ITEM (30)
14. DRAWINGS FOR REFERENCE:
    SCHEMATIC DIAGRAM, ELECTRICAL ITEM (36)
15. TWIST AND SOLDER T1-BLACK TO T1-WHITE AND INSULATE WITH ITEM (38).

T1 LEAD TERMINATION			
LEAD	TERM NO.	CUT	STRIP
GREEN	66		
YELLOW/BLUE	25		
RED	CUT OFF		
VIOLET	17		
BROWN	21		
BLACK WHITE	E1	.75	.25

R13 LEAD TERMINATION	
LEAD	TERM NO
RED	6
GREEN	2
YELLOW	20



	QUANTITY REQUIRED							
				011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTES 3&15				1		38	1010490-120	INSULATION-SLEEVING ELEC (SHRINK)
				X		37	PS2901154	PROCUREMENT SPECIFICATION
				X		36	2901155	SCHEMATIC DIAGRAM, ELEC
				AR		35	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
				AR		34	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
				AR		33	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
SEE NOTE 11				AR		32	1006776-20	INSULATION, SLEEVING
SEE NOTE 11				AR		31	1006776-22	INSULATION, SLEEVING
				1		30	2901033	WIRE LIST AA
SEE NOTE 11				2		29	1010617-2	NUT-HEX
				2		28	1006273-13	SCREW, CAP, BUTTON HD
SEE NOTES 3&11				1		27	1897388-037	TRANSFORMER
				2		26	RC07GF102J	(1896985-049) RESISTOR, MIL-R-11/8
				2		25	RC07GF203J	(1896985-080) RESISTOR, MIL-R-11/8
				1		24	RC07GF201J	(1896985-032) RESISTOR, MIL-R-11/8
				1		23	RN60D1002F	(1896915-385) RESISTOR, MIL-R-10509/1
SEE NOTE 11				1		22	1015989-009	RESISTOR VARIABLE
				1		21	RC07GF392J	(1896985-063) RESISTOR, MIL-R-11/8
				2		20	RC07GF103J	(1896985-073) RESISTOR, MIL-R-11/8
				1		19	RC07GF203J	(1896985-080) RESISTOR, MIL-R-11/8
				1		18	RN60D1000F	(1896915-193) RESISTOR, MIL-R-10509/1
				1		17	RN60D1101F	(1896915-293) RESISTOR, MIL-R-10509/1
				1		16	RC07GF204J	(1896985-104) RESISTOR, MIL-R-11/8
				1		15	RN60D2001F	(1896915-318) RESISTOR, MIL-R-10509/1
				1		14	RN60D2003F	(1896915-510) RESISTOR, MIL-R-10509/1
				1		13	RN60D8253F	(1896915-569) RESISTOR, MIL-R-10509/1
SEE NOTES 3&11				1		12	1015928-001	TRANSISTOR
SEE NOTES 3&11				1		11	1015934-001	TRANSISTOR
SEE NOTES 3&11				2		10	1016182	TRANSISTOR
SEE NOTE 11				1		9	1015941-15	SEMICONDUCTOR
				2		8	1N914	(1896966-044) SEMICONDUCTOR, MIL-S-19500/116
				2		7	1N459	(1896966-291) SEMICONDUCTOR, MIL-S-19500/193
				1		6	CM15D271J03	(1896969-098) CAPACITOR MIL-C-5/1
				3		5	CTM103VAK	(1896957-003) CAPACITOR, MIL-C-27287/1
				1		4	CS13AG180K	(1896954-181) CAPACITOR MIL-C-26655/2
				1		3	CS13AF010K	(1896954-126) CAPACITOR, MIL-C-26655/2
				1		2	CTM102VDK	(1896957-077) CAPACITOR, MIL-C-27287/1
				1		1	2900991	TERMINAL BOARD (INSEP ASSY)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901143-011	2901143-011	
6900088-011	6900088-011	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Cosmatka DATE 25 JAN 66
CHECKED M Thamman 26 JAN 66
APPROVAL
APPROVAL Gedeman 5/5/66
NASA APPROVAL 5/4/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

GLITCH DETECTOR
ASSEMBLY

CODE IDENT NO 99974
SIZE E
2901154
SCALE 4/1
SHEET 1 OF 1

2901154 REV LTR C

27 JAN 66

NOTES:

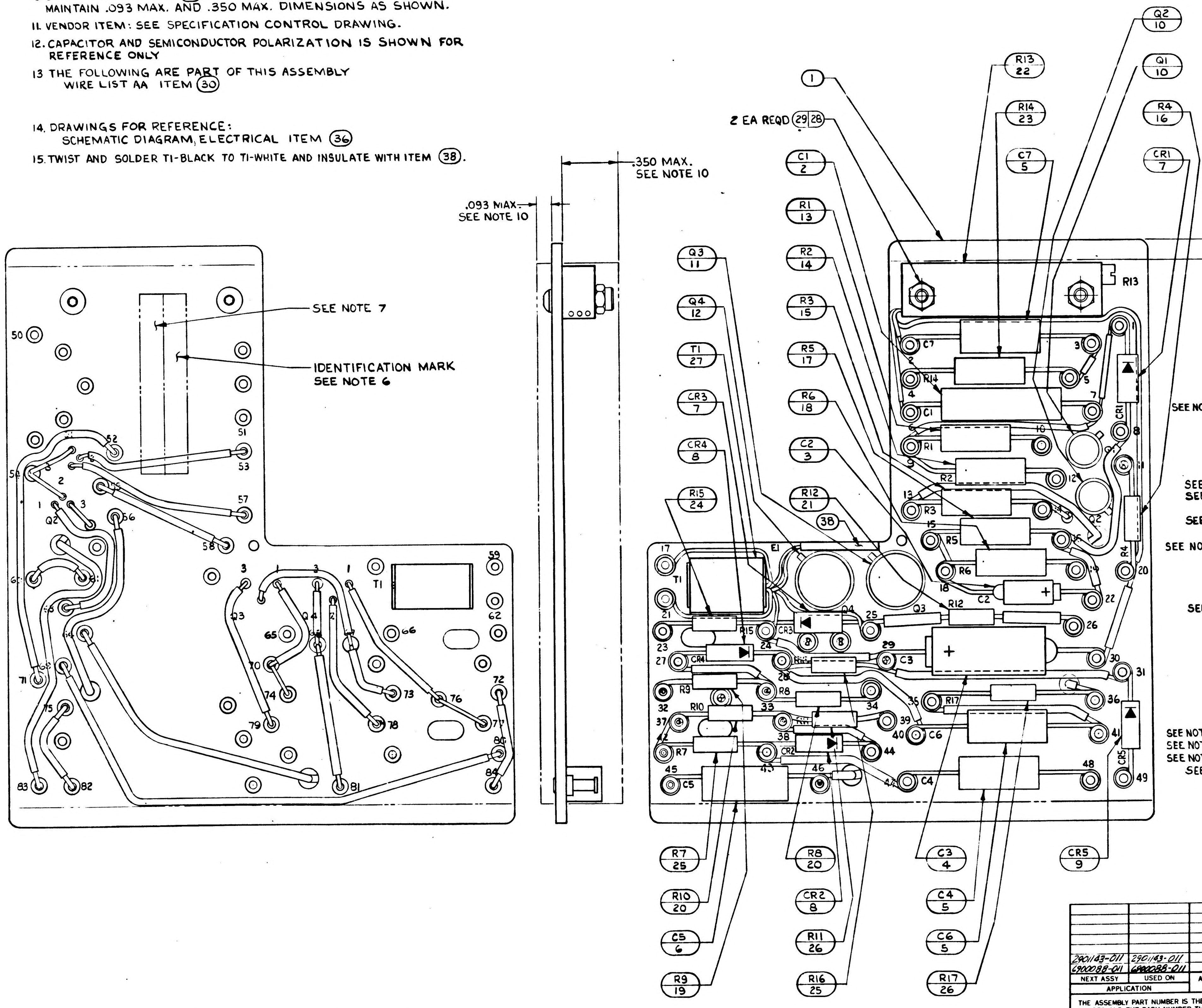
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEMS (33) AND (34) OR ITEM (35).
3. BOND ITEMS (10)(11)(12)(27) & (38) TO ITEM (1) PER ND 1002203.
4. USE INSULATING SLEEVE ITEM (31) AS REQUIRED ON LEADS OF ITEMS (10) (11) AND (12).
5. USE INSULATING SLEEVE ITEM (32) AS REQUIRED ON LEADS OF ITEMS (21) AND (27).
6. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
7. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .09 HIGH, COLOR BLACK.
8. SERIALIZE PER ND1002023.
9. INDICATED AREAS MUST BE FREE OF WIRE LEADS, COMPONENTS AND BONDING MATERIAL.
10. BOND WIRES TO ITEM (1) AS REQUIRED PER ND1002203 TO MAINTAIN .093 MAX. AND .350 MAX. DIMENSIONS AS SHOWN.
11. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
12. CAPACITOR AND SEMICONDUCTOR POLARIZATION IS SHOWN FOR REFERENCE ONLY
13. THE FOLLOWING ARE PART OF THIS ASSEMBLY
    WIRE LIST AA ITEM (30)
14. DRAWINGS FOR REFERENCE:
    SCHEMATIC DIAGRAM, ELECTRICAL ITEM (36)
15. TWIST AND SOLDER T1-BLACK TO T1-WHITE AND INSULATE WITH ITEM (38).

T1 LEAD TERMINATION			
LEAD	TERM NO	CUT	STRIP
GREEN	25		
YELLOW	24		
RED	CUT OFF		
BLUE	21		
BROWN	17		
BLACK WHITE	E1	.75	.25

R13 LEAD TERMINATION	
LEAD	TERM NO
RED	6
GREEN	2
YELLOW	20

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER MXC 209487		3 MAR 66	JMP
B		REVISED PER MXC 210287			
C		INITIAL RELEASE CLASS A PER TDRR 28598		2 MAY 66	RP EF
D		REVISED PER TDRR 30527			

Ⓜ



	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTES 3&15	1		38	1010490-120	INSULATION-SLEEVING ELEC (SHRINK)
	X		37	PS2901154	PROCUREMENT SPECIFICATION
	X		36	2901155	SCHEMATIC DIAGRAM, ELEC
	AR		35	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	AR		34	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	AR		33	SN60WS	SOLDER QQ-S-571 (ES2175-1)
SEE NOTE 11	AR		32	1006776-20	INSULATION, SLEEVING
SEE NOTE 11	AR		31	1006776-22	INSULATION, SLEEVING
	1		30	2901033	WIRE LIST AA
SEE NOTE 11	2		29	1010617-2	NUT-HEX
	2		28	1006273-13	SCREW, CAP, BUTTON HD
SEE NOTES 3&11	1		27	1897388-037	TRANSFORMER
	2		26	RC07GF102J	(1896985-049) RESISTOR, MIL-R-11/8
	2		25	RC07GF203J	(1896985-080) RESISTOR, MIL-R-11/8
	1		24	RC07GF201J	(1896985-032) RESISTOR, MIL-R-11/8
	1		23	RN60D1002F	(1896915-385) RESISTOR, MIL-R-10509/1
SEE NOTE 11	1		22	1015989-009	RESISTOR-VARIABLE
	1		21	RC07GF392J	(1896985-063) RESISTOR MIL-R-11/8
	2		20	RC07GF103J	(1896985-073) RESISTOR MIL-R-11/8
	1		19	RC07GF203J	(1896985-080) RESISTOR MIL-R-11/8
	1		18	RN60D1000F	(1896915-193) RESISTOR, MIL-R-10509/1
	1		17	RN60D1101F	(1896915-293) RESISTOR MIL-R-10509/1
	1		16	RC07GF204J	(1896985-104) RESISTOR, MIL-R-11/8
	1		15	RN60D2001F	(1896915-318) RESISTOR, MIL-R-10509/1
	1		14	RN60D2003F	(1896915-510) RESISTOR, MIL-R-10509/1
	1		13	RN60D8253F	(1896915-569) RESISTOR, MIL-R-10509/1
SEE NOTES 3&11	1		12	1015928-001	TRANSISTOR
SEE NOTES 3&11	1		11	1015934-001	TRANSISTOR
SEE NOTES 3&11	2		10	1016182	TRANSISTOR
SEE NOTE 11	1		9	1015941-15	SEMICONDUCTOR
	2		8	1N914	(1896966-044) SEMICONDUCTOR, MIL-S-19500/116
	2		7	1N459	(1896966-291) SEMICONDUCTOR, MIL-S-19500/193
	1		6	CM15D271J03	(1896969-0[illegible]) CAPACITOR MIL-C-5/1
	3		5	CTM103VAK	(1896957-003) CAPACITOR, MIL-C-27287/1
	1		4	CS13AG180K	(1896954-181) CAPACITOR MIL-C-26655/2
	1		3	CS13AF010K	(1896954-126) CAPACITOR, MIL-C-26655/2
	1		2	CTM102VDK	(1896957-077) CAPACITOR, MIL-C-27287/1
	1		1	2900991	TERMINAL BOARD (INSEP ASSY)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO
2901143-011 6900088-011	2901143-011 6900088-011	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Kosmatka DATE 25 JAN 66
M Mamm 26 JAN 66
CHECKED
APPROVAL
APPROVAL Gedeman 5/5/66
NASA APPROVAL 5/4/66
MIT APPROVAL 5 9 66

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

GLITCH DETECTOR
ASSEMBLY

CODE IDENT NO. 99974
SIZE E
2901154
SCALE 4/1
SHEET 1 OF 1

27 JAN 66

REV LTR D
2901154

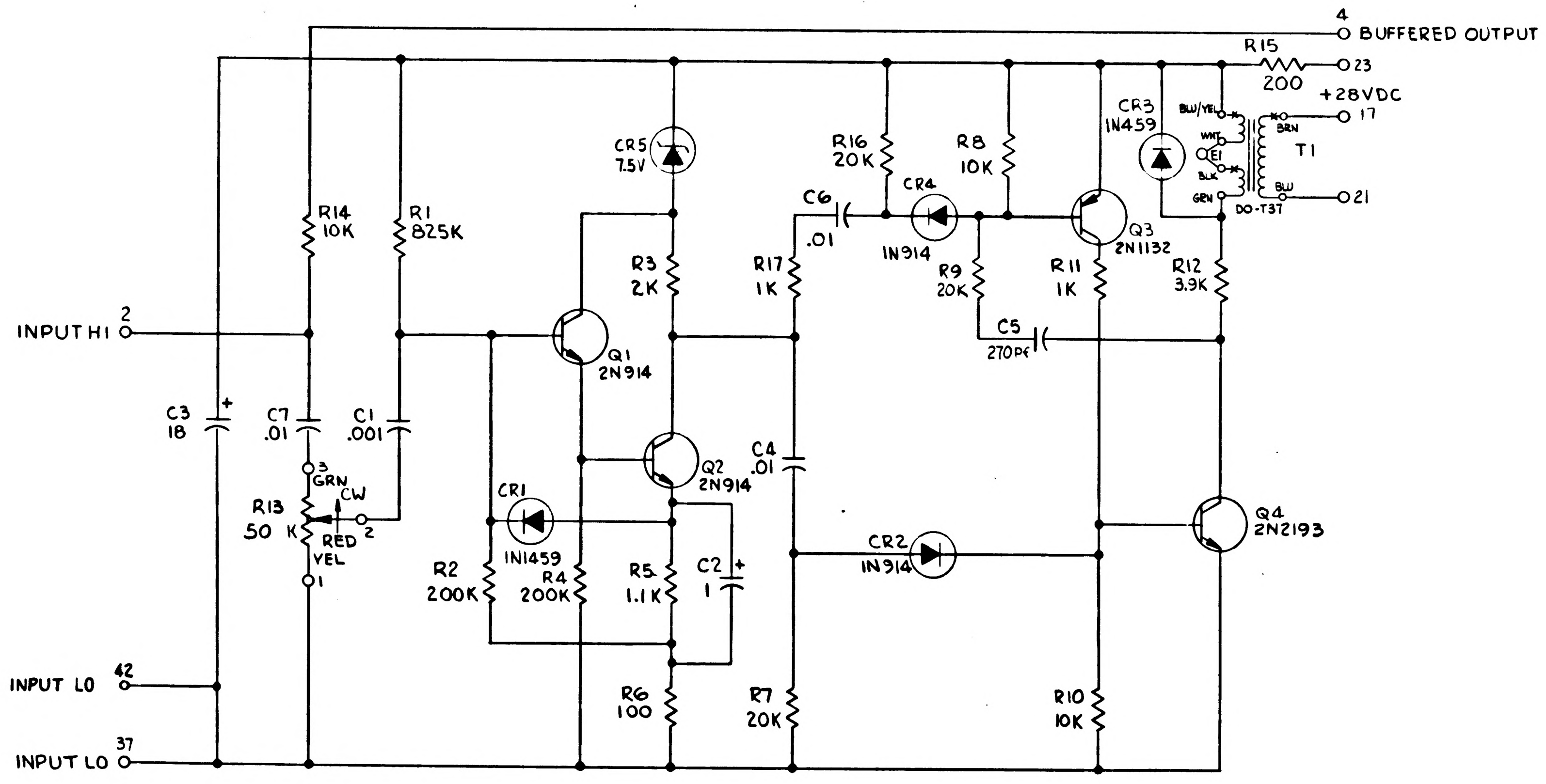
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PART NUMBERS ARE FOR REFERENCE ONLY
3. UNLESS OTHERWISE SPECIFIED: VALUES ARE IN OHMS AND MICROFARADS.
4. DRAWINGS FOR REFERENCE:
   2901154-011 ASSEMBLY DRAWING
5. TERMINAL NUMBERS ARE FOR REFERENCE ONLY

REF DESIG	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL, RATING
C1	CTM 102 VDK	CAPACITOR, MIL-C-27287/1	.001 µf, ±10%, 600VDC
C2	CS13AF010K	,MIL-C-26655/2	1 µf, ±10%, 35VDC
C3	CS13AG180K	,MIL-C-26655/2	18 µf, ±10%, 50VDC
C4	CTM 103 VAK	,MIL-C-27287/1	0.01µf, ±10%, 100VDC
C5	CM15D 271 J03	,MIL-C-5	270pf, ±5%, 500VDC
C6	CTM 103 VAK	,MIL-C-27287/1	0.01µf, ±10%, 100VDC
C7	CTM 103 VAK	CAPACITOR, MIL-C-27287/1	0.01µf, ±10%, 100VDC
CR1	IN 459	SEMICONDUCTOR, MIL-S-19500/193	
CR2	IN 914	,MIL-S-19500/116	
CR3	IN 459	,MIL-S-19500/193	
CR4	IN 914	,MIL-S-19500/116	
CR5	1015941-15	SEMICONDUCTOR,	
Q1	1016182	TRANSISTOR, 2N914 SPL	
Q2	1016182	, 2N 914 SPL	
Q3	1015934-001	, 2N 1132 SPL	
Q4	1015928-001	TRANSISTOR, 2N 2193 SPL	
R1	RN60D8253F	RESISTOR, MIL-R-10509/1	825K, 1/8 WATT, ±1%
R2	RN60D2003F	, MIL-R-10509/1	200K, , ±1%
R3	RN60D2001F	, MIL-R-10509 1	2K, , ±1%
R4	RC07GF204J	, MIL-R-11/8	200K, , ±5%
R5	RN60D1101F	, MIL-R-10509/1	1.1K, , ±1%
R6	RN60D1000F	, MIL-R-10509/1	100, 1/8, ±1%
R7	RC07GF203J	, MIL-R-11/8	20K, 1/4, ±5%
R8	RC07GF103J	,	10K,
R9	RC07GF 203J	,	20K,
R10	RC07GF 103J	,	10K,
R11	RC07GF 102J	,	1K,
R12	RC07GF 392J	, MIL-R-11/8	3.9K, 1/4 WATT, ±5%
R13	1015989-009	, VARIABLE	50K 1 WATT ±5%
R14	RN60D1002F	, MIL-R-10509/1	10K, 1/8 WATT, ±1%
R15	RC07GF201J	, MIL-R-11/8	200, 1/4 WATT, ±5%
R16	RC07GF203J	, MIL-R-11/8	20K, 1/4 WATT, ±5%
R17	RC07GF102J	RESISTOR, MIL-R-11/8	1K, 1/4 WATT, ±5%
T1	1897388-037	TRANSFORMER, PULSE	DO-T37

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER MXC 209463		3 MAR 66	
B		INITIAL RELEASE CLASS A PER TDRR 28598		2 MAY 66	RP



4 BUFFERED OUTPUT
R15 200
23
+28VDC
17
21
CR3 1N459
BLU/YEL
WHT
BLK
GRN
BRN
BLU
T1
DO-T37
CR5 7.5V
R16 20K
R8 10K
C6 .01
CR4 1N914
Q3 2N1132
R14 10K
R1 825K
R3 2K
R17 1K
R9 20K
R11 1K
R12 3.9K
C5 270pf
INPUT HI 2
Q1 2N914
C3 18
C7 .01
C1 .001
3 GRN
CW
R13 50 K
RED 2
YEL 1
Q2 2N914
C4 .01
CR1 1N1459
CR2 1N914
Q4 2N2193
R2 200K
R4 200K
R5 1.1K
C2 1
R6 100
R7 20K
R10 10K
INPUT LO 42
INPUT LO 37

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL ——
CONTRACT NAS-9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN 25 Jan 66
CHECKED 27 Jan 66
APPROVAL 27 Jan 66
APPROVAL Bruce L. Hack 5/4/66
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM ELECTRICAL, GLITCH DETECTOR

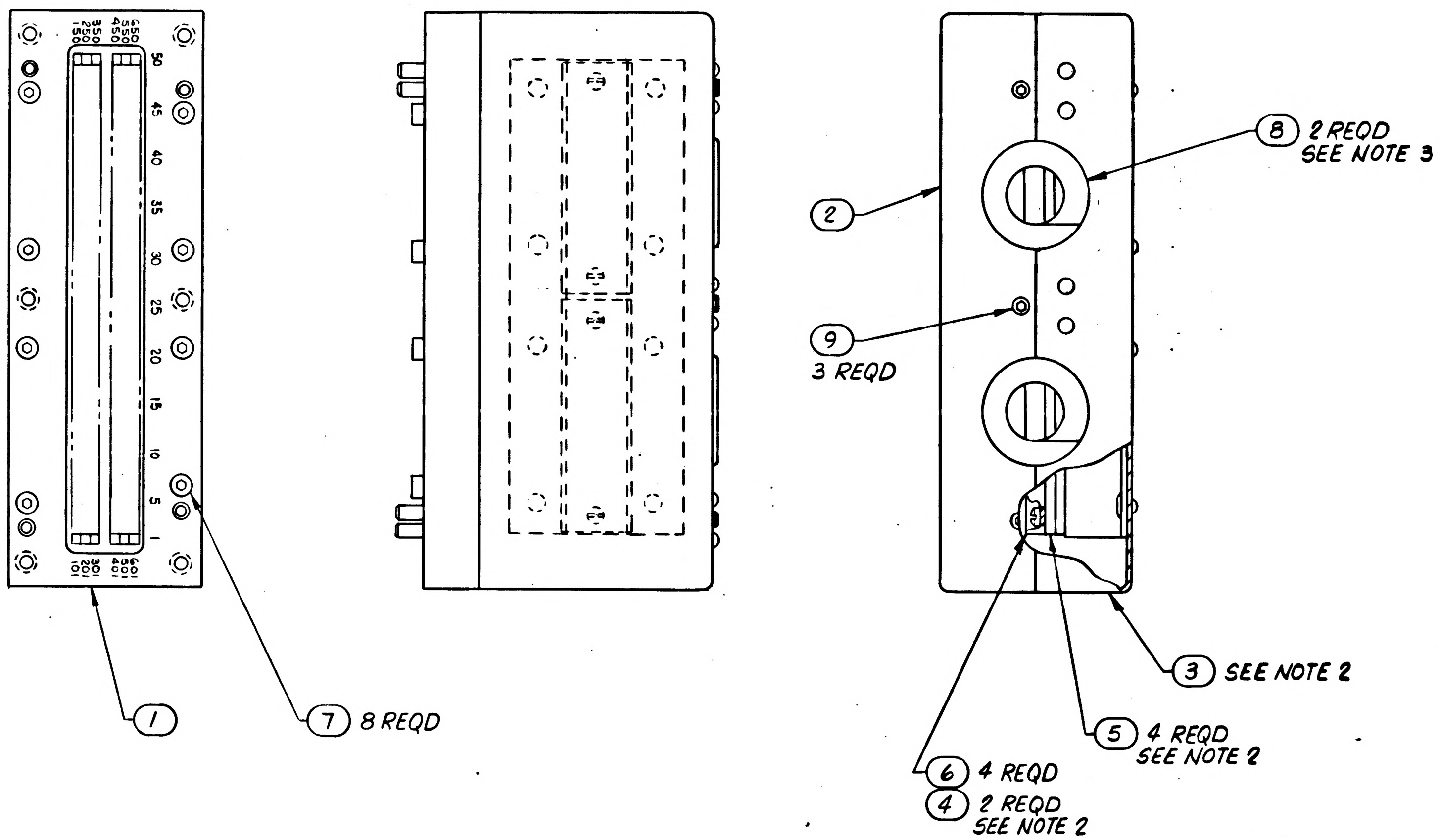
CODE IDENT NO. 99974
SIZE E
2901155
SCALE —
SHEET 1 OF 1

2901155 B

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 210066		18 MAR 66	
	B	INITIAL RELEASE CLASS A PER TDRR 28599		2-MAY-66	B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND 2 EACH OF ITEM ⑤ TO ITEMS ③ & ④ PER ND 1002151 USING ITEMS ⑩ & ⑪.
3. SPLIT ITEM ⑧ PER MS35489.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (E5267)
5. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.



	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
SEE NOTE 2				AR		11	1010718	PRIMER, ADHESIVE
SEE NOTE 2				AR		10	MIL-A-25457	ADHESIVE, SILICONE
SEE NOTE 5				3		9	1006783-19	SCREW, BUTTON HEAD
				2		8	MS35489-20	GROMMET, RUBBER
SEE NOTE 5				8		7	1017418-11	SCREW, CAP SOCKET HEAD
SEE NOTE 5				4		6	2901022-004	SCREW, SHOULDER
				4		5	2900580-004	GASKET
				2		4	2900711-004	CLAMP, MOVABLE
				1		3	2901157	SHELL, CLAMP (INSEP ASSY)
				1		2	2901156	SHELL, COVER (INSEP ASSY)
				1		1	2900627	BASE (INSEP ASSY)

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011	2901059	2901075-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES. TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL -
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. Wolski DATE 9 FEB 66
CHECKED J. Stelma 16 FEB 66
APPROVAL Zelman 5/3/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5-9-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

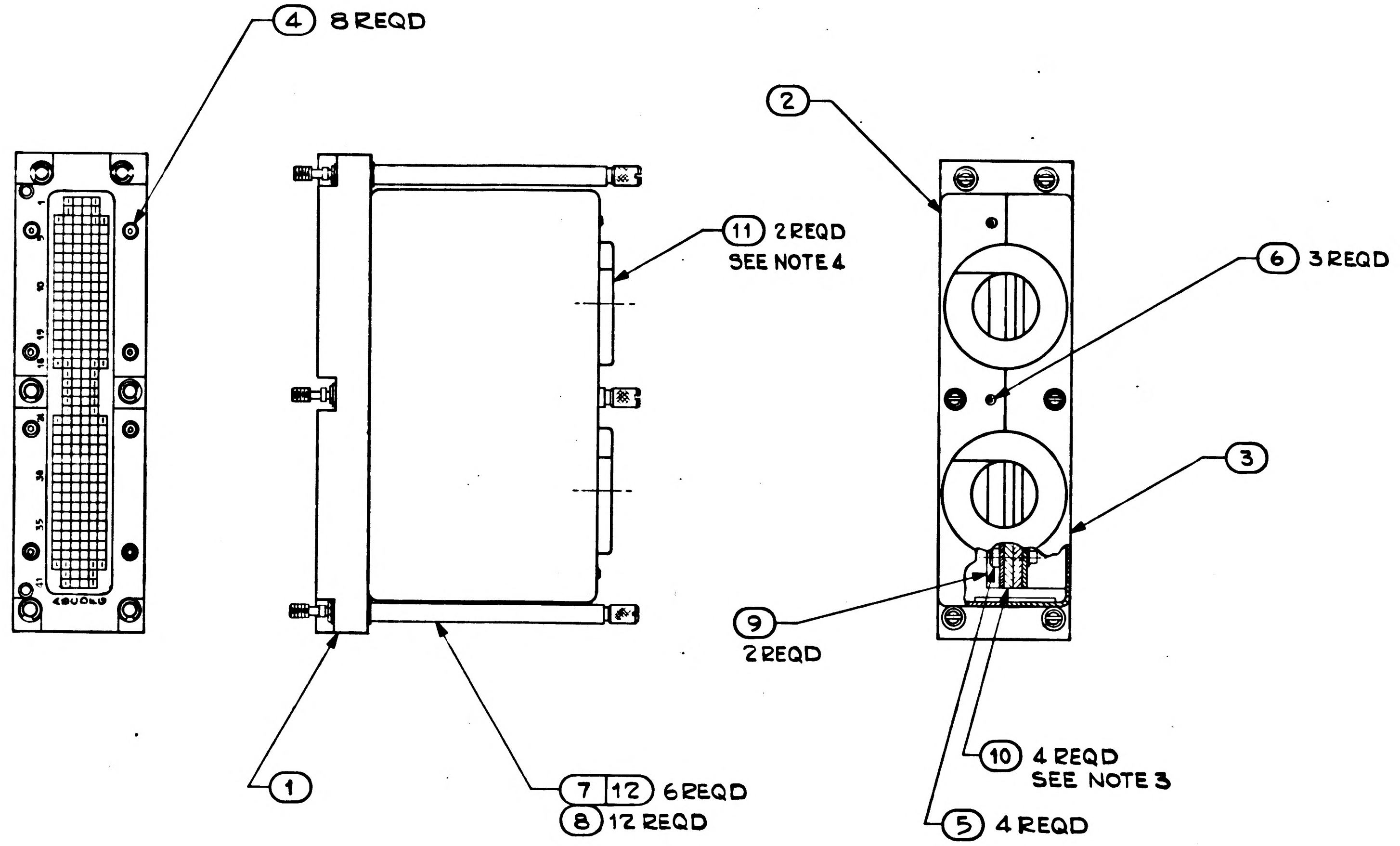
CONNECTOR, PLUG,
ELECTRICAL - 300 PIN

SIZE | CODE IDENT NO. 99974 | 2901158
SCALE FULL | SHEET 1 OF 1

REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPROVED
	A	REVISED PER D.O. 61729	CHG. NO.	3-4 66	EL.
	B	INITIAL RELEASE CLASS A PER TDRR 28674		3 MAY 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM-SPECIFICATION CONTROL DRAWING.
3. BOND 2 EACH OF ITEM ⑩ TO ITEMS ③ AND ⑨ PER ND1002151 USING ITEMS ⑬ AND ⑭.
4. SPLIT ITEM ⑪ PER MS35489.
5. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NO. PER MIL-STD-130 (ES267).



SEE NOTE 2
SEE NOTE 2
SEE NOTE 2

			AR	14	MIL-A-25457	ADHESIVE, SILICONE	
			AR	13	1010718	PRIMER, ADHESIVE	
			6	12	MS16633-4015	RING, RETAINING "E"	
			2	11	MS35489-22	GROMMET, RUBBER	
			4	10	2900580-003	GASKET	
			2	9	2900711-003	CLAMP, MOVABLE	
			12	8	1004546-3	WASHER, FLAT	
			6	7	2900676-002	SCREW, EXT. RELIEVED BODY	
			3	6	1006783-19	SCREW, BUTTON HD.	
			4	5	2901022-004	SCREW, SHOULDERED	
			8	4	1017418-11	SCREW, SOC. HD.	
			1	3	2901161	SHELL-CLAMP (INSEP ASSY)	
			1	2	2901160	SHELL (INSEP ASSY)	
			1	1	2901159	BASE (INSEP ASSY)	
			011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS			

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

-011		2901044-011
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R.H. Becker DATE 10 FEB 66
CHECKED Jaylew 16 FEB 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR, RECEPTACLE, ELECTRICAL
-228 PINS

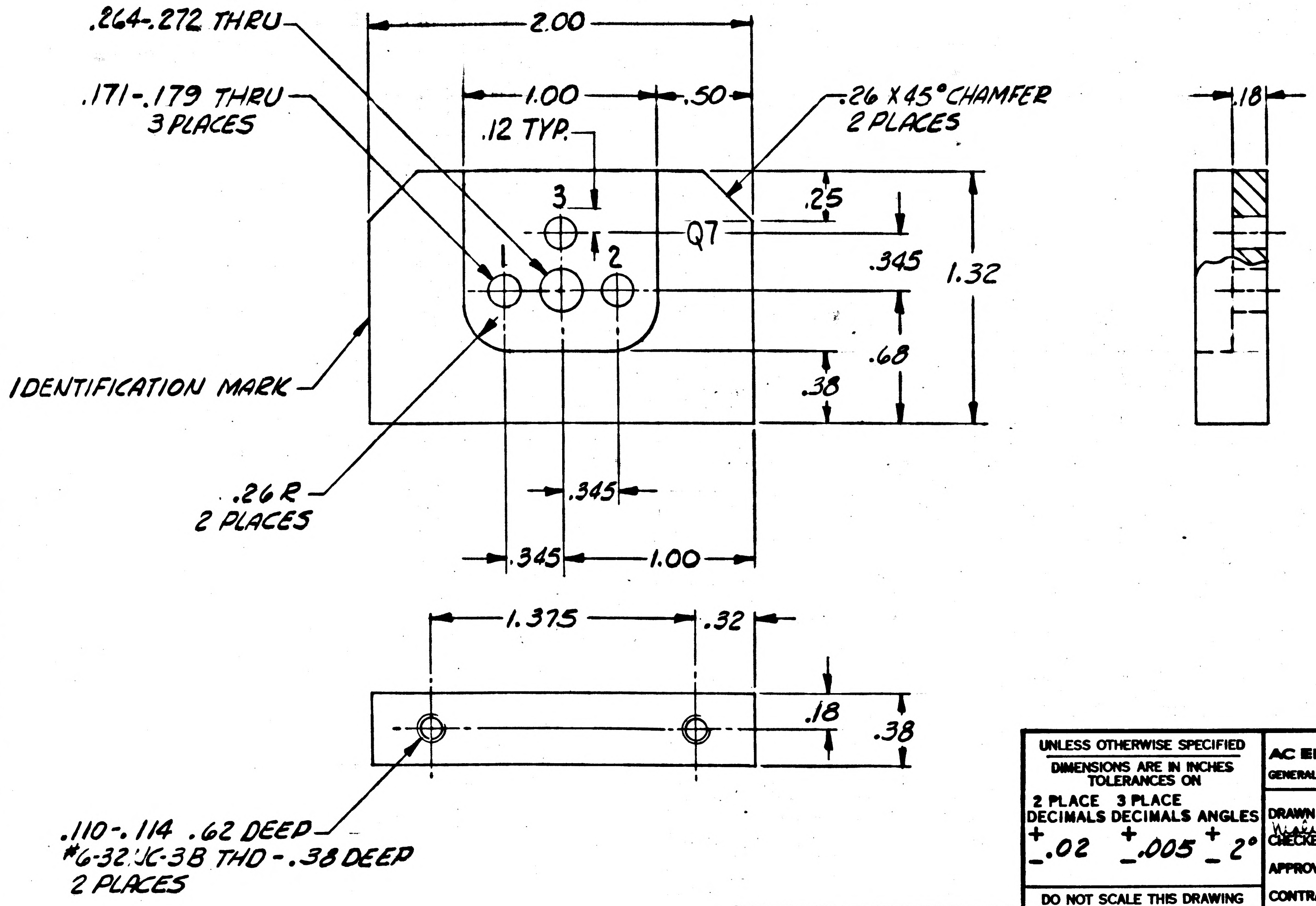
SIZE D
CODE IDENT NO. 99974
2901162
SCALE FULL
SHEET 1 OF 1

16 FEB 66

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 26974		4 FEB 66	WK

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: AL ALY PER QQ-A-250/8 TEMPER F (ES-2105, TEMPER F)
3. FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).
4. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
5. MUST BE FREE FROM BURRS AND SHARP CORNERS.
6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES-267).
7. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.


.264-.272 THRU
.171-.179 THRU
3 PLACES
2.00
1.00
.50
.12 TYP.
.26 X 45° CHAMFER
2 PLACES
3
1
2
Q7
.25
.345
1.32
.68
.38
IDENTIFICATION MARK
.26 R
2 PLACES
.345
.345
1.00
.18
1.375
.32
.18
.38
.110-.114 .62 DEEP
#6-32 UC-3B THD - .38 DEEP
2 PLACES

2900835-011	2900060-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
± .02	± .005	± 2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN A. J. Fischer DATE 21-JAN-66
CHECKED Kausen 25 JAN 66
APPROVAL 3-7-66
CONTRACT NAS 9-497
NASA APPROVAL C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

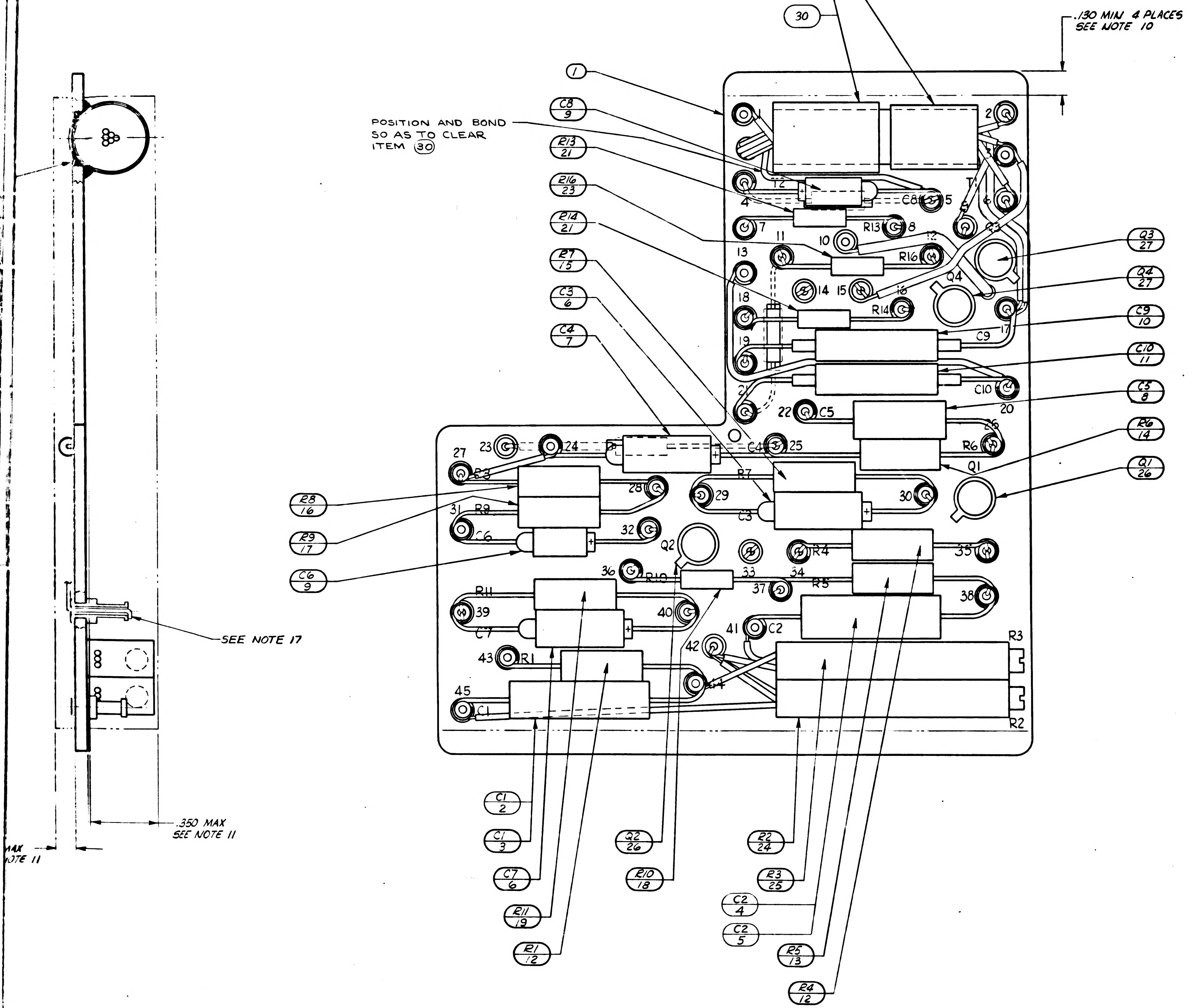
HEAT SINK

SIZE	CODE IDENT NO.	
C	99974	2901165

SCALE 2:1 SHEET 1 OF 1

T1 LEAD TERMINATION		T2 LEAD TERMINATION	
LEAD	TERM. NO.	LEAD	TERM. NO.
BLK	17	BLK	53
BLU	9	BLU	1
BRN	2	BLU/YEL	58
GRN	6	BRN	5
WHT	17	GRN	54
YEL	3	WHT	61

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
B		REPLACES REV (A) WITH CHANGE PER MXC-210449		28 JAN 66	B. JAS
C		REVISED PER MXC-211302	—	10 APR 66	
D		REVISED PER MXC 211313		20 APR 66	HG EF
E		INITIAL RELEASE CLASS A PER TDRR		3 MAY 66	EF



.130 MIN 4 PLACES
SEE NOTE 10
POSITION AND BOND SO AS TO CLEAR ITEM (30)
T1 28
T2 29
30
1
C8 9
R13 21
R16 23
R14 21
R7 15
C3 6
C4 7
Q3 27
Q4 27
C9 10
C10 11
C5 8
R6 14
Q1 26
R8 16
R9 17
C6 9
C1 2
C1 3
C7 6
R11 19
R1 12
Q2 26
R10 18
R2 24
R3 25
C2 4
C2 5
R5 13
R4 12
T2
T1
C8
R13
R16
R14
Q3
Q4
C9
C10
C5
C4
R6
Q1
R7
C3
R8
R9
C6
Q2
R4
R10
R5
R11
C7
C2
R1
C1
R3
R2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45
SEE NOTE 17
.350 MAX
SEE NOTE 11
MAX
NOTE 11

			021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			☒			41	PS2016117	PROCUREMENT SPECIFICATION
			AR	AR		40	1016198-1	PAINT, INSULATING (BLUE)
				☒		39	PS2901176	PROCUREMENT SPECIFICATION
			☒			38	2901228	SCHEMATIC DIAGRAM, ELEC.
				☒		37	2901227	SCHEMATIC DIAGRAM, ELEC.
			AR	AR		36	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
			AR	AR		35	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
			AR	AR		34	SN60WS	SOLDER QQ-S-571 (ES2175-1)
SEE NOTE 12			AR	AR		33	1006776-20	INSULATION, SLEEVING
SEE NOTE 12			AR	AR		32	1006776-22	INSULATION, SLEEVING
			1	1		31	2901234	LEAD SET A A, ELECTRICAL
SEE NOTES 4&12			1	1		30	1016094-001	ENCLOSURE, ELECTROMAGNETIC SHIELDING
SEE NOTES 4&12			1	1		29	1897388-038	[illegible]
SEE NOTE 12			1	1		28	1897388-034	TRANSFORMER
SEE NOTES 3,5&12			2	2		27	1897392	TRANSISTOR INTEGRATED CHOPPER
SEE NOTES 3,5&12			2	2		26	1015935-001	TRANSISTOR
SEE NOTE 3			1	1		25	RT 12C2L 203	[illegible]9696[illegible] RESISTOR, VAR MIL-R-27208/8
SEE NOTES 3&12			1	1		24	1015989-009	RESISTOR, VARIABLE
SEE NOTE 3			2	2		23	RC 07GF 152J	(1896985-[illegible]3)RESISTOR, MIL-R-11/8
SEE NOTE 3			1	1		22	RC 07GF 822J	(1896985-071)RESISTOR, MIL-R-11/8
SEE NOTE 3			2	2		21	RC 07GF 102J	(1896985-049)RESISTOR, MIL-R-11/8
			1	1		20	RC 07GF 201J	(1896985-032)RESISTOR, MIL-R-11/8
			1	1		19	RN 60D 5491F	(1896915-360)RESISTOR, MIL-R-10509/1
			1	1		18	RC 07GF 151J	(1896985-029)RESISTOR, MIL-R-11/8
			1	1		17	RN 60D 2672F	(1896915-426)RESISTOR, MIL-R-10509/1
			1	1		16	RN 60D 2000F	(1896915-222)RESISTOR, MIL-R-10509/1
			1	1		15	RN 60D 7501F	(1896915-373)RESISTOR, MIL-R-10509/1
			1	1		14	RN 60D 3012F	(1896915-431)RESISTOR, MIL-R-10509/1
			1	1		13	RN 60D 2373F	(1896915-517)RESISTOR, MIL-R-10509/1
			2	2		12	RN 60D 4993F	(1896915-548)RESISTOR, MIL-R-10509/1
SEE NOTES 3&12			1	1		11	1897409-004	CAPACITOR
SEE NOTES 3&12			1	1		10	1897409-006	CAPACITOR
SEE NOTE 3			2	2		9	CS 13 BF 105K	(1896954-126) CAPACITOR, MIL-C-26655/2
			1	1		8	CTM 332 VBJ	(1896957-228)CAPACITOR, MIL-C-27287/1
SEE NOTE 3			1	1		7	CS 13 BF 685K	(1896954-141)CAPACITOR, MIL-C-26655/2
SEE NOTE 3			2	2		6	CS 13 BC 396K	(1896954-073)CAPACITOR, MIL-C-26655/2
			1	—		5	CTM 102 VDJ	(1896957-277)CAPACITOR, MIL-C-27287/1
			—	1		4	CTM 472 VCJ	(1896957-258)CAPACITOR, MIL-C-27287/1
			1	—		3	CTM 182 VDJ	(1896957-280)CAPACITOR, MIL-C-27287/1
			—	1		2	CTM 562 VBJ	(1896957-231)CAPACITOR, MIL-C-27287/1
			1	1		1	2901226	TERMINAL BOARD (INSEP ASSY)
	QUANTITY REQUIRED						LIST OF PARTS AND MATERIALS	

011 & 021	2901143-011	2901143-011
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

DRAWN John A. Kidwell DATE 29 JAN 66
CHECKED 14 MAR 66
APPROVAL Gehman 5/9/66
CONTRACT NAS 9-497
NASA APPROVAL 5/5/66
MIT APPROVAL 5/10/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR,
PHASE SENSITIVE

SIZE J2 | CODE IDENT NO. 99974 | 2901176

SCALE 5:1 | SHEET 1 OF 1

2901176

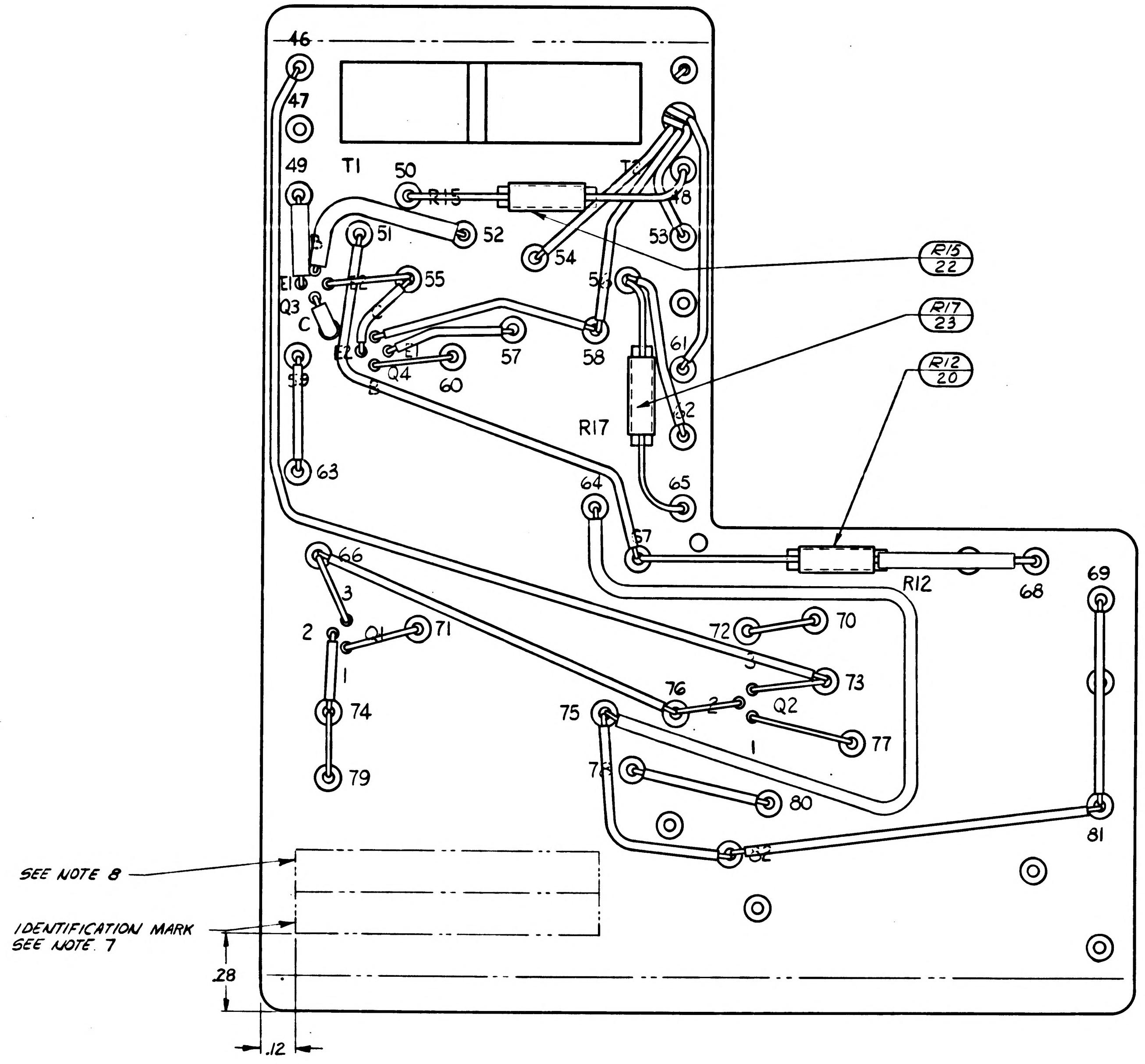
2729011176

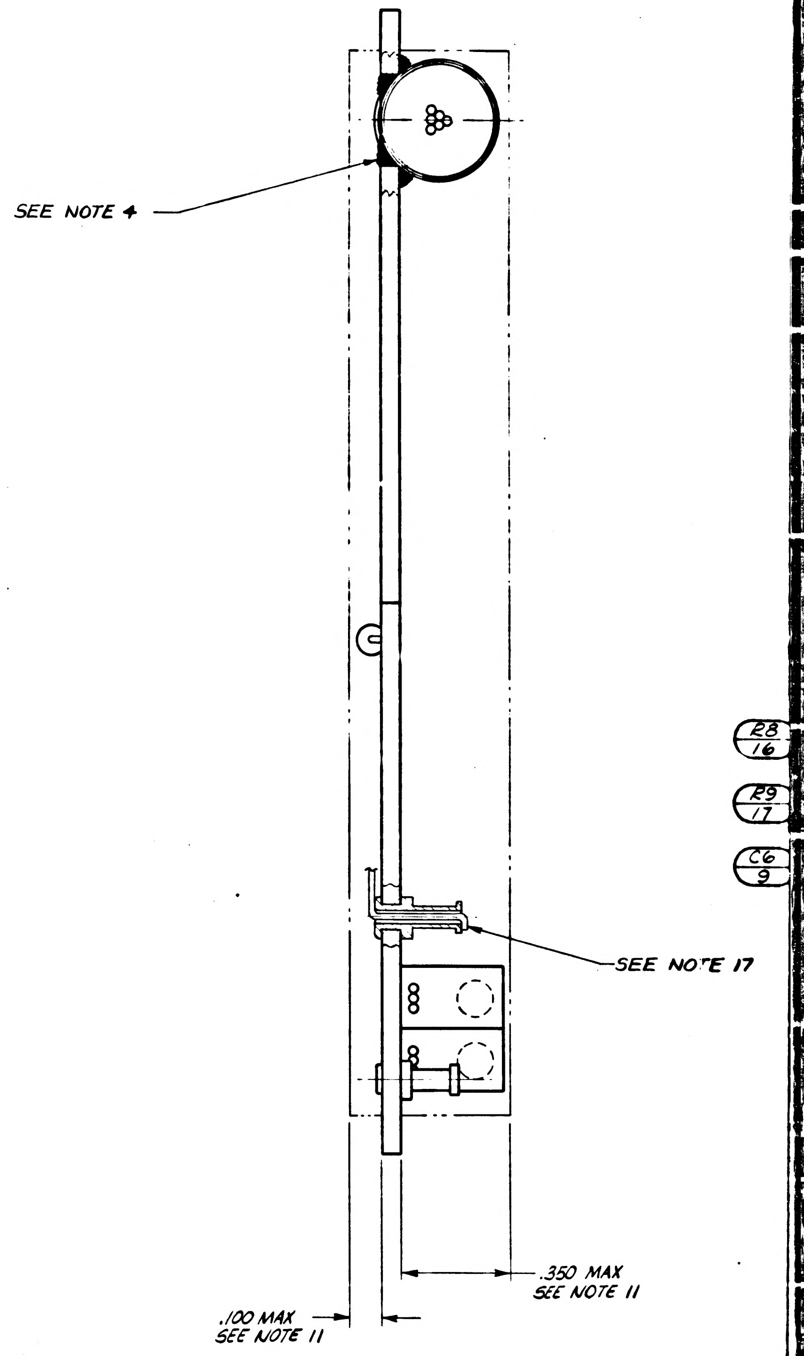
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEMS (34) AND (35) OR ITEM (36).
3. BOND ITEMS ⑥, ⑦, ⑨, ⑩, ⑪, ⑳, (22), (23)(R17), (24), (25), (26), AND (27) TO ITEM ① PER ND 1002203.
4. ASSEMBLE AND BOND ITEM (29) TO ITEM (30). BOND ITEMS (28) AND (30) TO BOTH SIDES OF ITEM ① TO MEET STRUCTURAL REQUIREMENTS PER ND 1002203.
5. USE INSULATING SLEEVE ITEM (32) AS REQUIRED ON LEADS OF ITEMS (26) AND (27).
6. USE INSULATING SLEEVE ITEM (33) AS REQUIRED ON LEADS OF ITEM ⑳.
7. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
8. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .09 HIGH, COLOR BLACK.
9. SERIALIZE PER ND 1002023.
10. INDICATED AREAS MUST BE FREE OF WIRE LEADS, COMPONENTS AND BONDING MATERIAL.
11. BOND WIRES TO ITEM ① AS REQUIRED PER ND 1002203 TO MAINTAIN MAXIMUM DIMENSIONS SHOWN.
12. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
13. CAPACITOR POLARIZATION IS SHOWN FOR REFERENCE ONLY.
14. THE FOLLOWING ARE PART OF THIS ASSEMBLY
    LEAD SET AA, ELECTRICAL ITEM (31)
15. DRAWINGS FOR REFERENCE:
    SCHEMATIC DIAGRAM, ELECTRICAL ITEMS (37) AND (38)
16. CUT UNUSED LEADS OF ITEMS (28) AND (29) .16 MAX LENGTH AND COAT ENDS WITH ITEM (40).
17. TYPICAL TERMINATION OF LEADS.

R2 LEAD TERMINATION		R3 LEAD TERMINATION	
LEAD	TERM. NO.	LEAD	TERM. NO.
YEL	45	YEL	42
GRN	42	GRN	44
RED	42	RED	41

T1 LEAD TERMINATION		T2
LEAD	TERM. NO.	L
BLK	17	
BLU	9	
BRN	2	BL
GRN	6	
WHT	17	
YEL	3	


46
47
49
T1
50
R15
T2
48
51
52
53
54
E1
E2
Q3
C
B
55
56
E2
E1
Q4
57
58
60
61
59
R17
62
63
64
65
67
R12
68
69
66
3
2
Q1
71
1
72
70
73
76
Q2
74
75
77
78
79
80
81
82
R15 22
R17 23
R12 20
SEE NOTE 8
IDENTIFICATION MARK SEE NOTE 7
.28
.12


SEE NOTE 4
SEE NOTE 17
R8 16
R9 17
C6 9
.350 MAX SEE NOTE 11
.100 MAX SEE NOTE 11

2901176

1729011 76

NOTES:

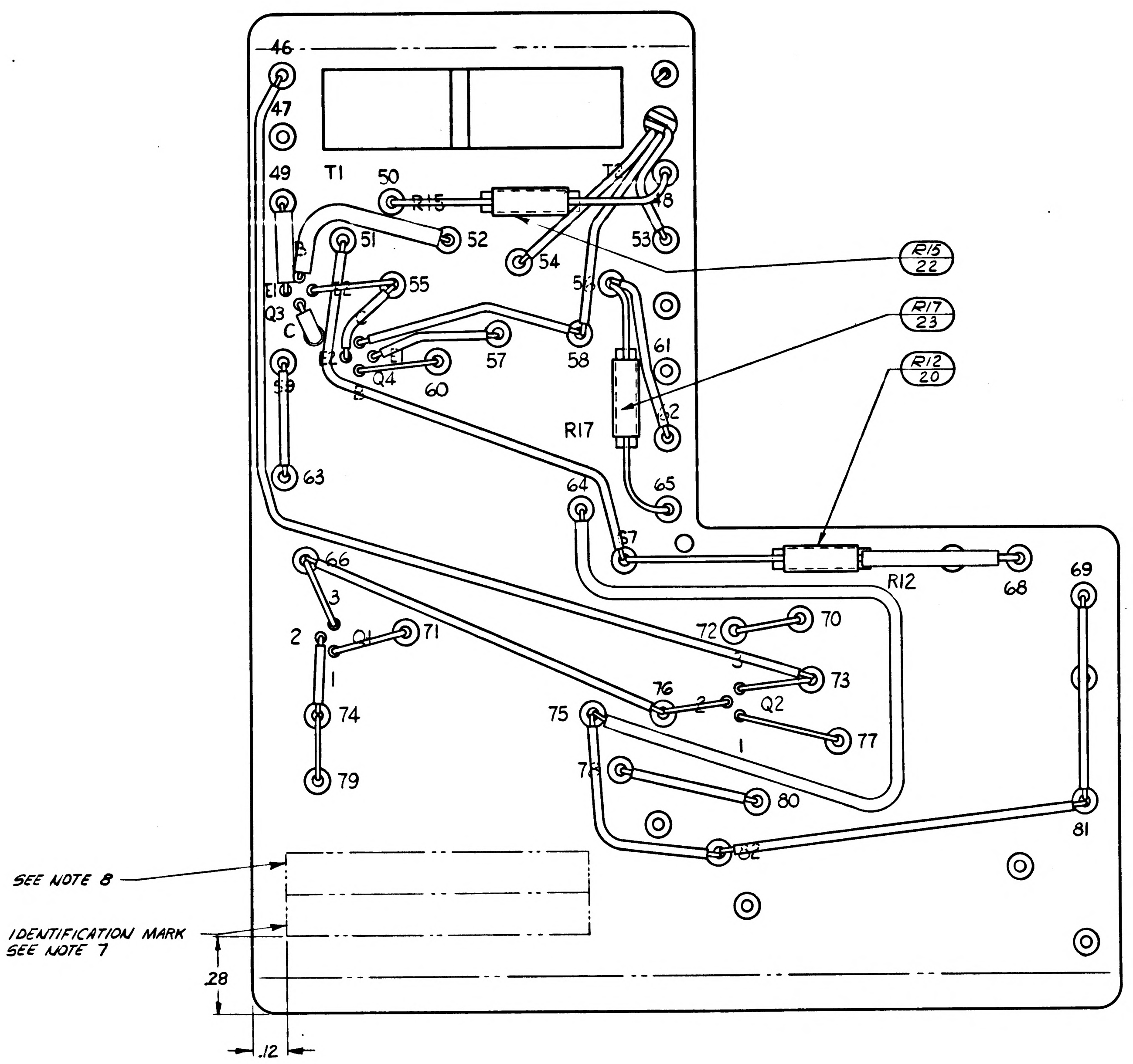
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEMS ㉞ AND ㉟ OR ITEM ㊱.
3. BOND ITEMS ⑥, ⑦, ⑨, ⑩, ⑪, ⑳, ㉒, ㉓(R17), ㉔, ㉕, ㉖, AND ㉗ TO ITEM ⑦ PER ND 1002203.
4. ASSEMBLE AND BOND ITEM ㉙ TO ITEM ㉚. BOND ITEMS ㉘ AND ㉚ TO BOTH SIDES OF ITEM ① TO MEET STRUCTURAL REQUIREMENTS PER ND 1002203.
5. USE INSULATING SLEEVE ITEM ㉜ AS REQUIRED ON LEADS OF ITEMS ㉖ AND ㉗.
6. USE INSULATING SLEEVE ITEM ㉝ AS REQUIRED ON LEADS OF ITEM ⑳.
7. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
8. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER PER ND1002019, .09 HIGH, COLOR BLACK.
9. SERIALIZE PER ND 1002023.
10. INDICATED AREAS MUST BE FREE OF WIRE LEADS, COMPONENTS AND BONDING MATERIAL.
11. BOND WIRES TO ITEM ① AS REQUIRED PER ND 1002203 TO MAINTAIN MAXIMUM DIMENSIONS SHOWN.
12. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
13. CAPACITOR POLARIZATION IS SHOWN FOR REFERENCE ONLY.
14. THE FOLLOWING ARE PART OF THIS ASSEMBLY
    LEAD SET AA, ELECTRICAL ITEM ㉛

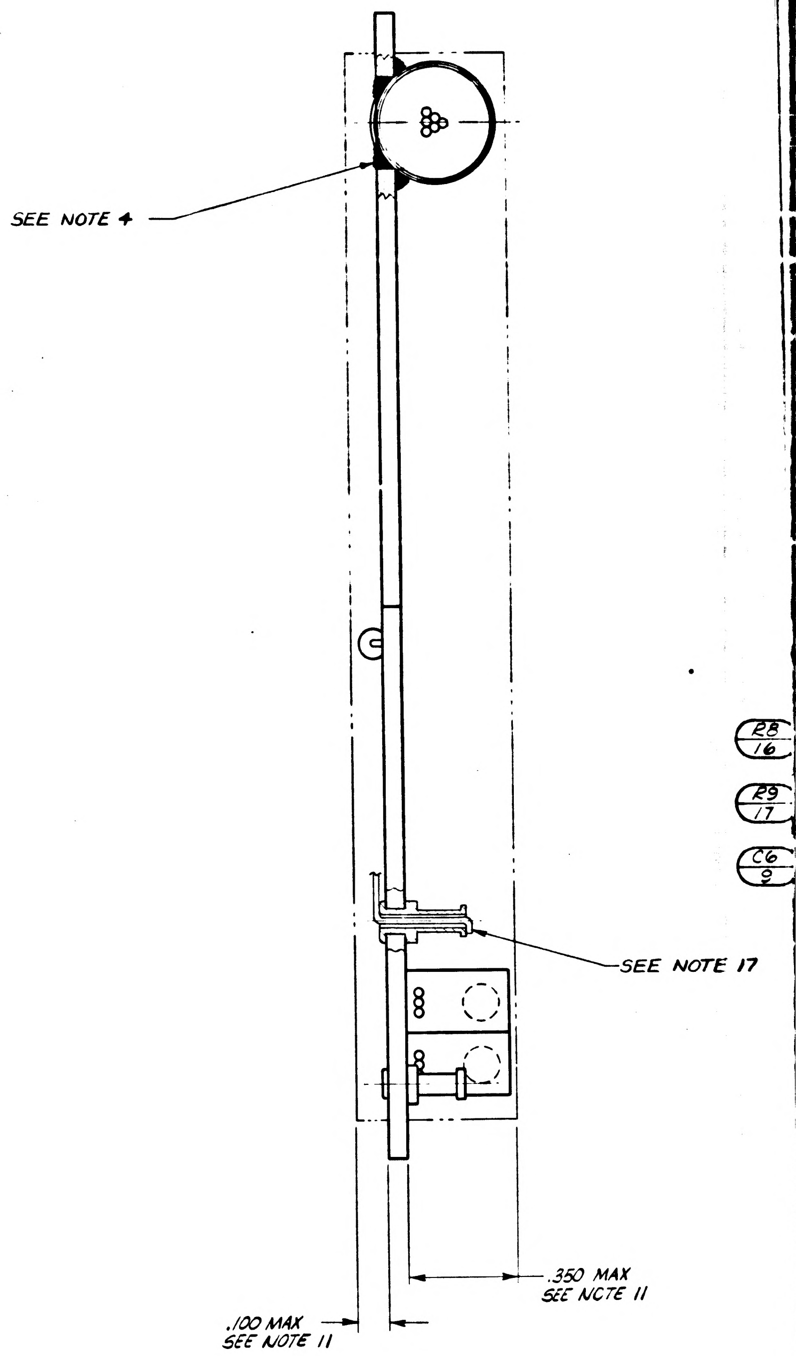
15. DRAWINGS FOR REFERENCE:
    SCHEMATIC DIAGRAM, ELECTRICAL ITEMS ㊲ AND ㊳
16. CUT UNUSED LEADS OF ITEMS ㉘ AND ㉙ .16 MAX LENGTH AND COAT ENDS WITH ITEM ㊵.
17. TYPICAL TERMINATION OF LEADS.

R2 LEAD TERMINATION	
LEAD	TERM. NO.
YEL	45
GRN	42
RED	42

R3 LEAD TERMINATION	
LEAD	TERM. NO.
YEL	42
GRN	44
RED	41

T1 LEAD TERMINATION	
LEAD	TERM. NO.
BLK	17
BLU	9
BRN	2
GRN	6
WHT	17
YEL	3

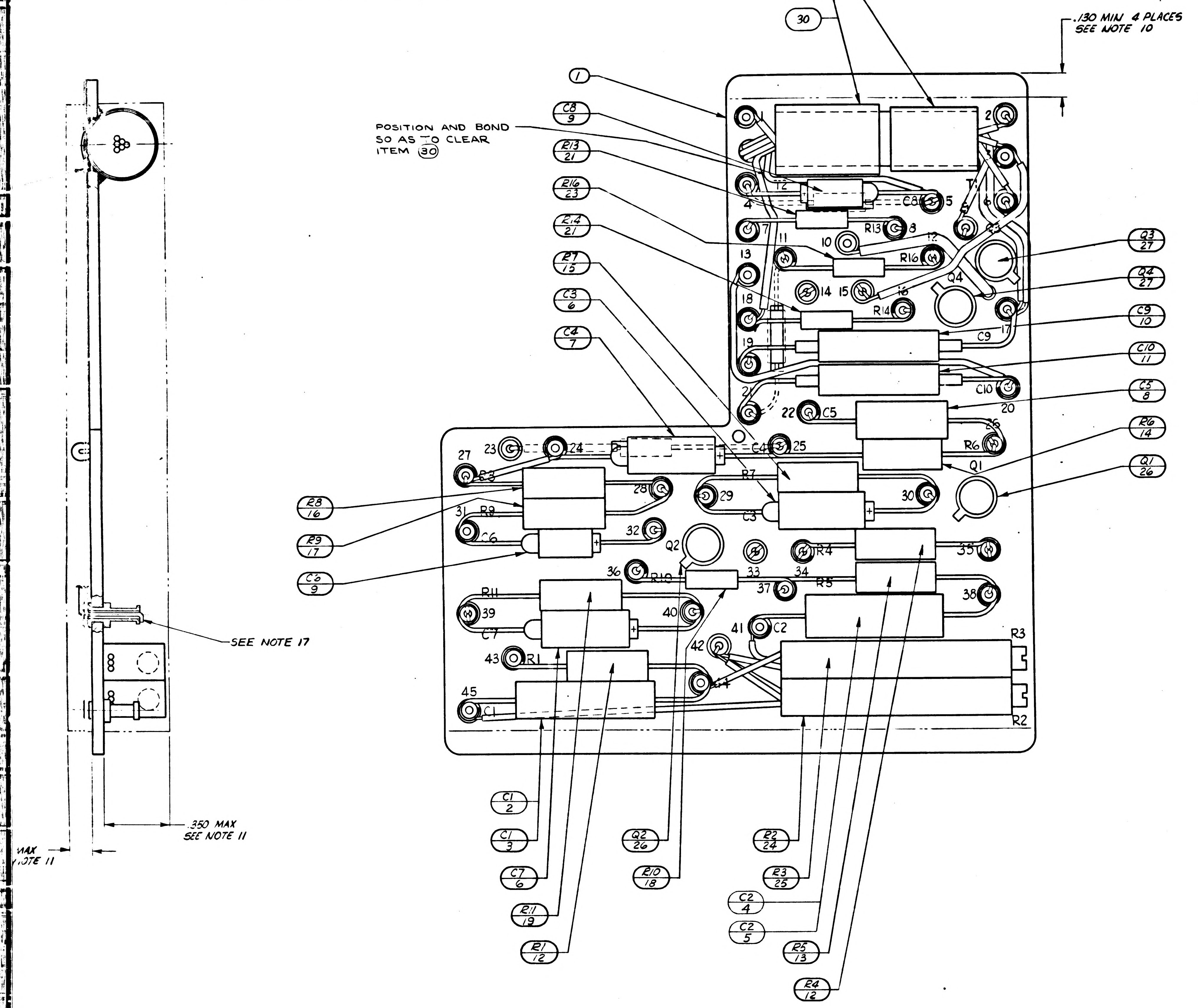

46
47
49
T1
50
R15
T2
48
51
52
53
54
55
56
B
E1
Q3
C
E2
E1
Q4
B
57
58
60
59
61
62
R17
63
64
65
66
67
R12
68
69
3
2
Q1
71
1
72
70
3
73
74
76
2
Q2
75
77
1
78
79
80
81
82
R15 22
R17 23
R12 20
SEE NOTE 8
IDENTIFICATION MARK SEE NOTE 7
.28
.12


SEE NOTE 4
R28 16
R29 17
C6 9
SEE NOTE 17
.350 MAX SEE NOTE 11
.100 MAX SEE NOTE 11

2901176

T1 LEAD TERMINATION		T2 LEAD TERMINATION	
LEAD	TERM. NO.	LEAD	TERM. NO.
BLK	17	BLK	53
BLU	9	BLU	1
BRN	2	BLU/YEL	58
GRN	6	BRN	5
WHT	17	GRN	54
YEL	3	WHT	18

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
B		REPLACES REV (A) WITH CHANGE PER MXC-210449		[illegible]	B.
C		REVISED PER MXC-211302	—	APR	[illegible]
D		REVISED PER MXC 211313		[illegible]	HG EF
E		INITIAL RELEASE CLASS A PER TDRR		[illegible]	EF
F		REVISED PER TDRR 30482		11 AUG 66	[illegible]


T1 28
T2 29
30
.130 MIN 4 PLACES SEE NOTE 10
1
C8 9
POSITION AND BOND SO AS TO CLEAR ITEM 30
R13 21
R16 23
R14 21
R7 15
C3 6
C4 7
Q3 27
Q4 27
C9 10
C10 11
C5 8
R6 14
Q1 26
R8 16
R9 17
C6 9
SEE NOTE 17
.350 MAX SEE NOTE 11
MAX NOTE 11
C1 2
C1 3
C7 6
R11 19
R1 12
Q2 26
R10 18
R2 24
R3 25
C2 4
C2 5
R5 13
R4 12
T2
T1
C8
R13
R16
R14
Q4
Q3
C9
C10
C5
R6
Q1
C4
R7
C3
R8
R9
C6
Q2
R4
R10
R5
R11
C7
C2
R1
C1
R3
R2
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						ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			☒			41	PS 2016117	PROCUREMENT SPECIFICATION
			AR	AR		40	1016198-1	PAINT, INSULATING (BLUE)
				☒		39	PS 2901176	PROCUREMENT SPECIFICATION
			☒			38	2901228	SCHEMATIC DIAGRAM, ELEC.
				☒		37	2901227	SCHEMATIC DIAGRAM, ELEC.
			AR	AR		36	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
			AR	AR		35	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
			AR	AR		34	SN60WS	SOLDER QQ-S-571 (ES 2175-1)
SEE NOTE 12			AR	AR		33	1006776-20	INSULATION, SLEEVING
SEE NOTE 12			AR	AR		32	1006776-22	INSULATION, SLEEVING
			1	1		31	2901234	LEAD SET AA, ELECTRICAL
SEE NOTES 4&12			1	1		30	1016094-001	ENCLOSURE, ELECTROMAGNETIC SHIELDING
SEE NOTES 4&12			1	1		29	1897388-038	TRANSFORMER
SEE NOTE 12			1	1		28	1897388-034	TRANSFORMER
SEE NOTES 3,5&12			2	2		27	1897392	TRANSISTOR, INTEGRATED CHOPPER
SEE NOTES 3,5&12			2	2		26	1015935-001	TRANSISTOR
SEE NOTE 3			1	1		25	RT 12C2L 203	(1896967-011) RESISTOR, VAR MIL-R-27208/8
SEE NOTES 3&12			1	1		24	1015989-009	RESISTOR-VARIABLE
SEE NOTE 3			2	2		23	RC 07GF 152J	(1896985-053) RESISTOR, MIL-R-11/8
SEE NOTE 3			1	1		22	RC 07GF 822J	(1896985-071) RESISTOR, MIL-R-11/8
SEE NOTE 3			2	2		21	RC 07GF 102J	(1896985-049) RESISTOR, MIL-R-11/8
			1	1		20	RC 07GF 201J	(1896985-032) RESISTOR, MIL-R-11/8
			1	1		19	RN 60D 5491F	(1896915-360) RESISTOR, MIL-R-10509/1
			1	1		18	RC 07GF 151J	(1896985-029) RESISTOR, MIL-R-11/8
			1	1		17	RN 60D 2672F	(1896915-426) RESISTOR, MIL-R-10509/1
			1	1		16	RN 60D 2000F	(1896915-222) RESISTOR, MIL-R-10509/1
			1	1		15	RN 60D 7501F	(1896915-373) RESISTOR, MIL-R-10509/1
			1	1		14	RN 60D 3012F	(1896915-431) RESISTOR, MIL-R-10509/1
			1	1		13	RN 60D 2373F	(1896915-517) RESISTOR, MIL-R-10509/1
			2	2		12	RN 60D 499 3F	(1896915-548) RESISTOR, MIL-R-10509/1
SEE NOTES 3&12			1	1		11	1897409-004	CAPACITOR
SEE NOTES 3&12			1	1		10	1897409-006	CAPACITOR
SEE NOTE 3			2	2		9	CS 13 BF 105K	(1896954-126) CAPACITOR, MIL-C-26655/2
			1	1		8	CTM 332 VBJ	(1896957-228) CAPACITOR, MIL-C-
SEE NOTE 3			1	1		7	CS 13 BF 685K	(1896954-141) CAPACITOR, MIL-C-26655/2
SEE NOTE 3			2	2		6	CS 13 BC 396K	(1896954-073) CAPACITOR, MIL-C-26655/2
			1	—		5	CTM 102 VDJ	(1896957-277) CAPACITOR, MIL-C-27287/1
			—	1		4	CTM 472 VCJ	(1896957-258) CAPACITOR, MIL-C-27287/1
			1	—		3	CTM 182 VDJ	(1896957-280) CAPACITOR, MIL-C-27287/1
			—	1		2	CTM 562 VBJ	(1896957-231) CAPACITOR, MIL-C-27287/1
			1	1		1	2901226	TERMINAL BOARD (INSEP ASSY)
			021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011 & 021	2901143-011	2901143-011
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 29 JAN 66
CHECKED 14 MAR 66
APPROVAL 5/9/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOP,
PHASE SENSITIVE

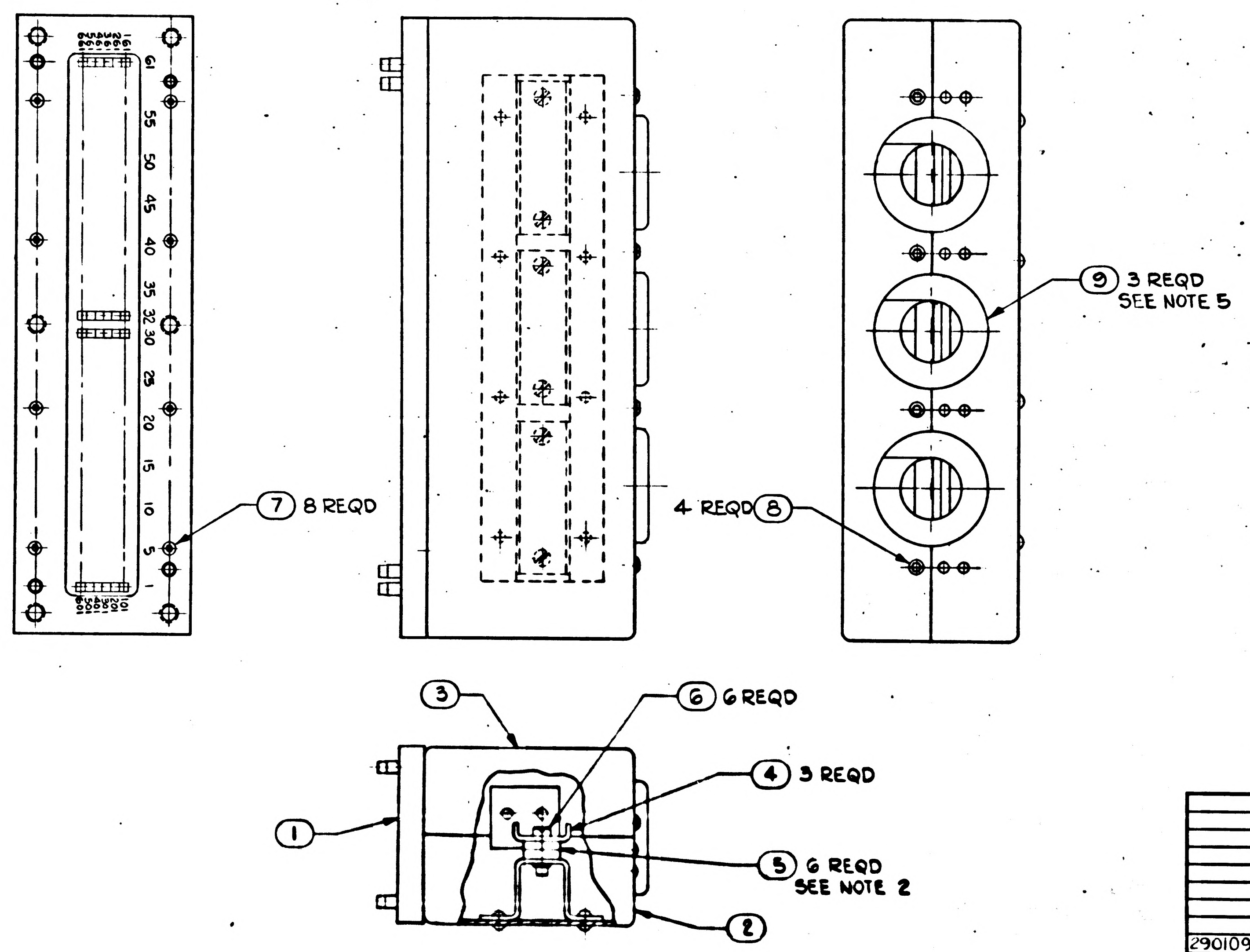
SIZE J2 | CODE IDENT NO. 99974 | 2901176
SCALE 5:1 | SHEET 1 OF 1

2901176 E

2/2901176

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND 3 EACH OF ITEM ⑤ TO ITEMS ② AND ④ PER ND1002151 USING ITEMS ⑩ AND ⑪.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
5. SPLIT ITEM ⑨ PER MS35489.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 33277		17 [illegible] 67	[illegible] 16 Jan 67



	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				ON				
				AR		11	MIL-A-25457	ADHESIVE, SILICONE
SEE NOTE 3				AR		10	1010718	PRIMER, ADHESIVE
				3		9	MS 35489-22	GROMMET, RUBBER
SEE NOTE 3				4		8	1006783-19	SCREW, BUTTON HD, HEX. SOC.
SEE NOTE 3				8		7	1017418-11	SCREW, CAP, SOC. HD.
				6		6	2901022-004	SCREW, SHOULDER
				6		5	2900580-003	GASKET
				3		4	2900711-003	CLAMP, MOVABLE
				1		3	2901180	SHELL, COVER (INSEP ASSY)
				1		2	2901179	SHELL, CLAMP (INSEP ASSY)
				1		1	2901181	BASE, CONNECTOR

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901090	2901075-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL [illegible] 8 MAR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN [illegible] DATE 1 MAR 66
CHECKED [illegible] 8 MAR 66
APPROVAL [illegible] 8 MAR 66
CONTRACT NAS 9-497
NASA APPROVAL [illegible]
APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

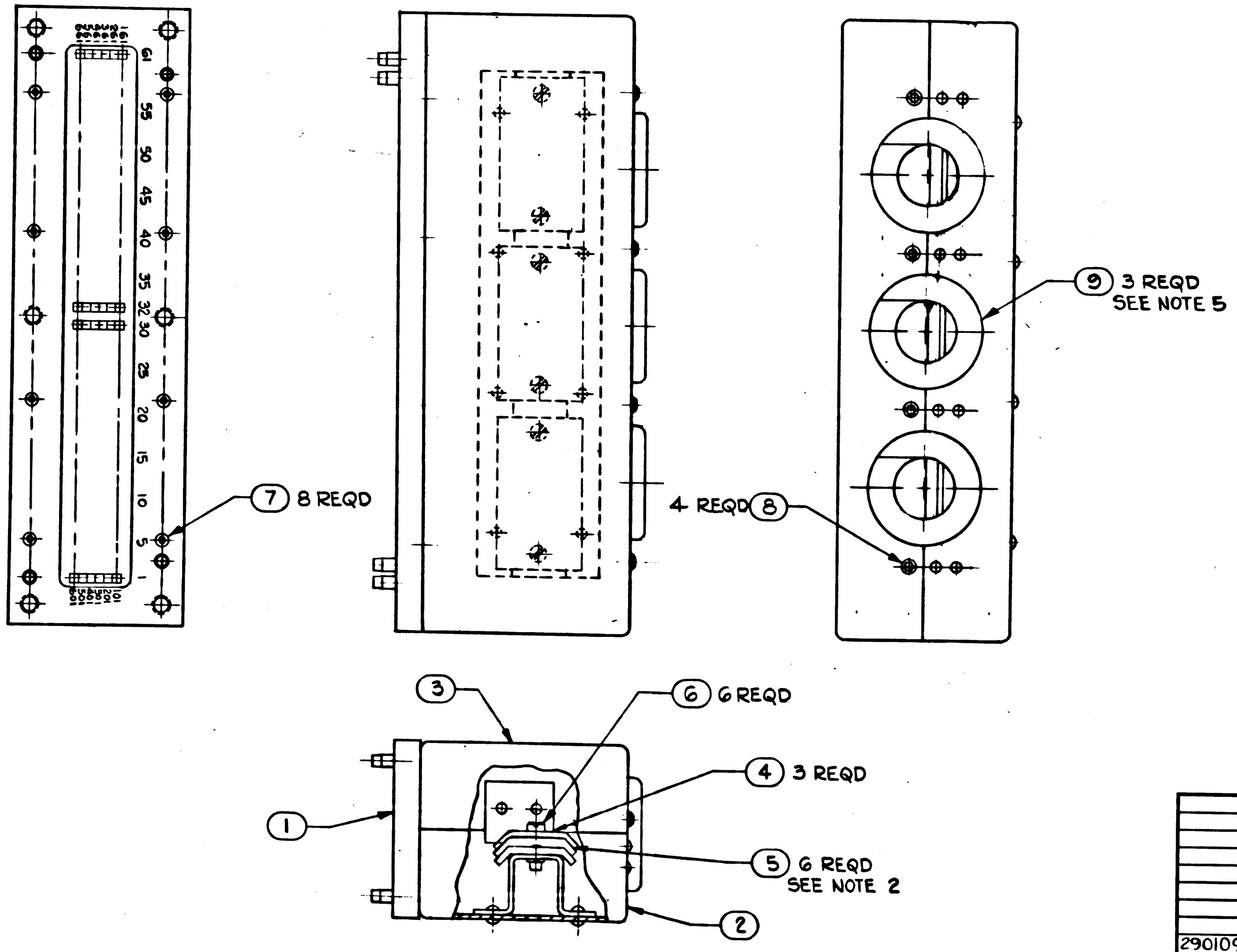
CONNECTOR, PLUG
ELECTRICAL - 360 PIN

SIZE D
CODE IDENT NO 99974
2901182
SCALE FULL
SHEET 1 OF 1

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 33277		17 MAR 67	Day 16 JAN 67 Gott
B		REVISED PER TDRR 33268		24 MAR 67	WRG RCD

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND 3 EACH OF ITEM ⑤ TO ITEMS ② AND ④ PER ND1002151 USING ITEM ⑩.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
5. SPLIT ITEM ⑨ PER MS35489.



				~~AR~~		~~11~~	~~MIL-A-25457~~	~~ADHESIVE, SILICONE~~
SEE NOTE 3				AR		10	MIL-A-5092	ADHESIVE, TYPE II
				3		9	MS 35489-22	GROMMET, RUBBER
SEE NOTE 3				4		8	1006783-19	SCREW, BUTTON HD, HEX. SOC.
SEE NOTE 3				8		7	1017418-11	SCREW, CAP, SOC. HD.
				6		6	2901022-004	SCREW, SHOULDER
				6		5	2901590-003	GASKET
				3		4	2901591-003	CLAMP, MOVABLE
				1		3	2901180	SHELL, COVER (INSEP ASSY)
				1		2	2901179	SHELL, CLAMP (INSEP ASSY)
				1		1	2901181	BASE, CONNECTOR
				011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON
2901090	2901075-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − | 3 PLACE DECIMALS + — − | ANGLES + — −
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL Charleston 8 MAR 66

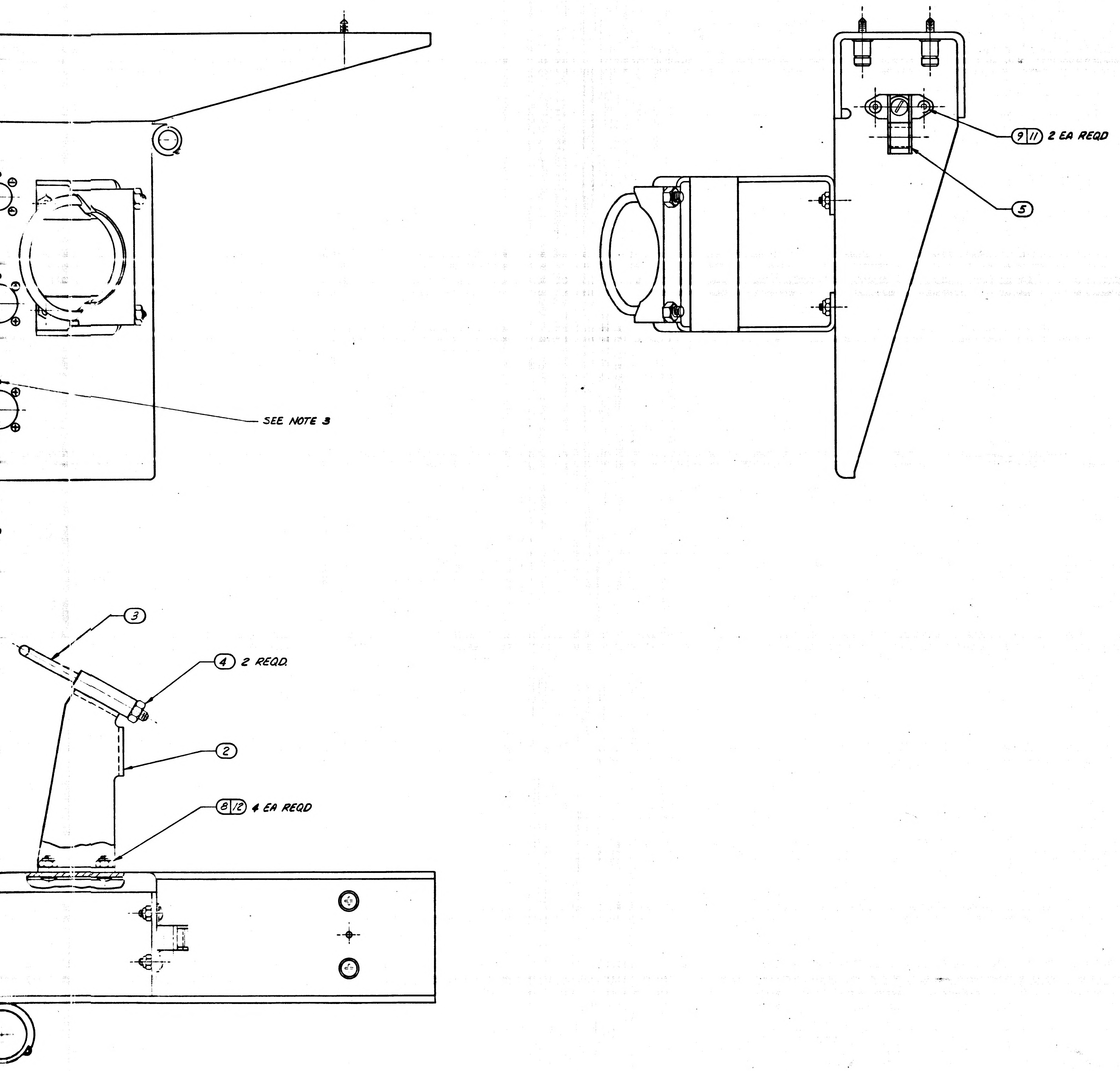
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Gezel DATE 1 MAR 66
CHECKED Udovich 8 MAR 66
APPROVAL R. Fosa 8 MAR 66
CONTRACT NAS 9-497
NASA APPROVAL
CCB APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR, PLUG
ELECTRICAL - 360 PIN

SIZE D
CODE IDENT NO. 99974
2901182
SCALE FULL
SHEET 1 OF 1

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 28557		23 MAR 66	



3H

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 2	4		12	IC16151-010	NUT, SELF LOCKING
SEE NOTE 2	6		11	IC16151-008	NUT, SELF LOCKING
	24		10	MS51957-13	SCREW, PAN HD.
	6		9	MS51957-45	SCREW, PAN HD.
	8		8	MS51958-63	SCREW, PAN HD.
SEE NOTE 2	1		7	1010400-010	CLAMP, LOOP, HINGED
SEE NOTE 2	1		6	1010400-008	CLAMP, LOOP, HINGED
SEE NOTE 2	1		5	1010400-001	CLAMP, LOOP, HINGED
	2		4	MS35690-430	NUT, HEX
	1		3	2901214-164	BOLT-U
	1		2	2901186	SUPPORT, ELEC. CABLE (INSEP ASSY
	1		1	2901187	BRACKET, MTG, ELEC. CONN. (INSEP ASSY

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
-011	2900066-021	2900056-021

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN T. Kanno DATE 14 Feb 66
CHECKED 17 FEB 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL A. G. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

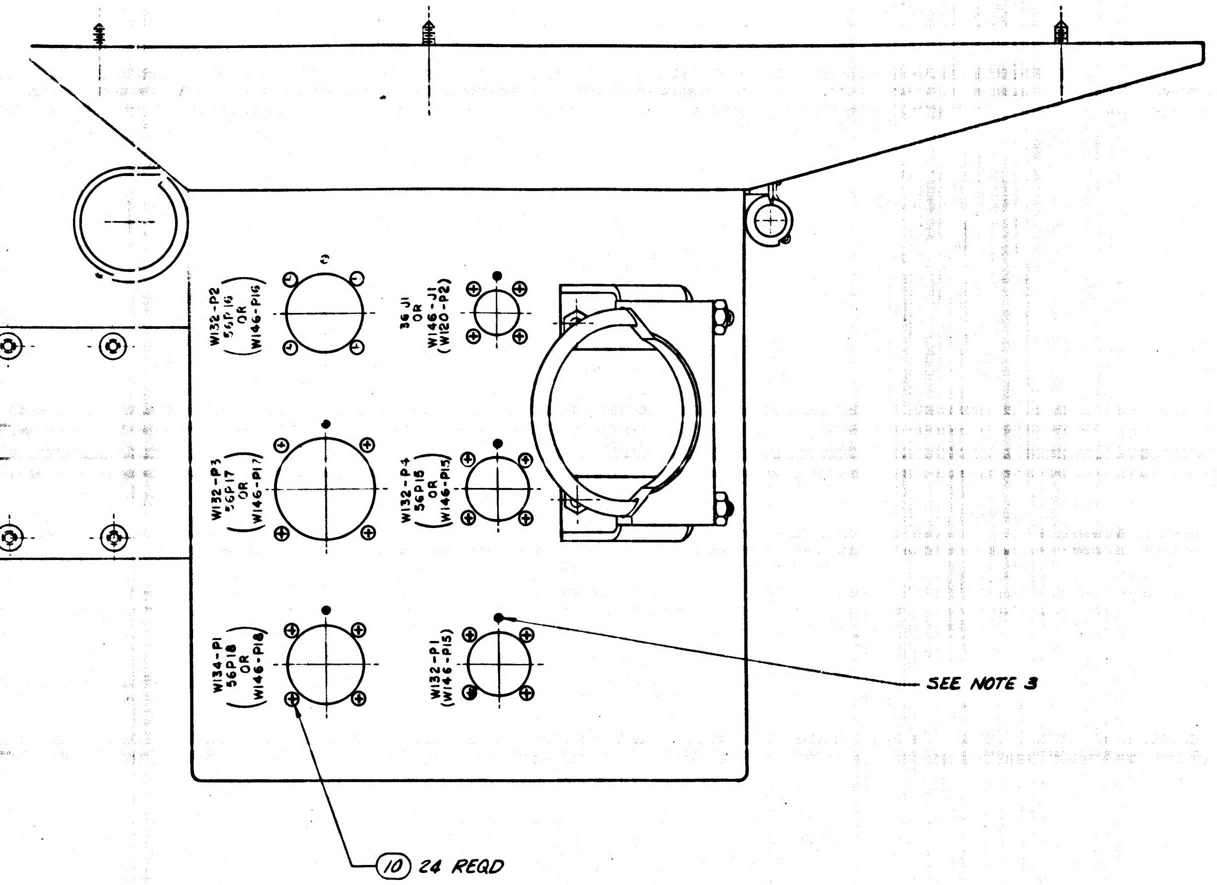
PTA-PEA CONNECTOR BRACKET ASSEMBLY

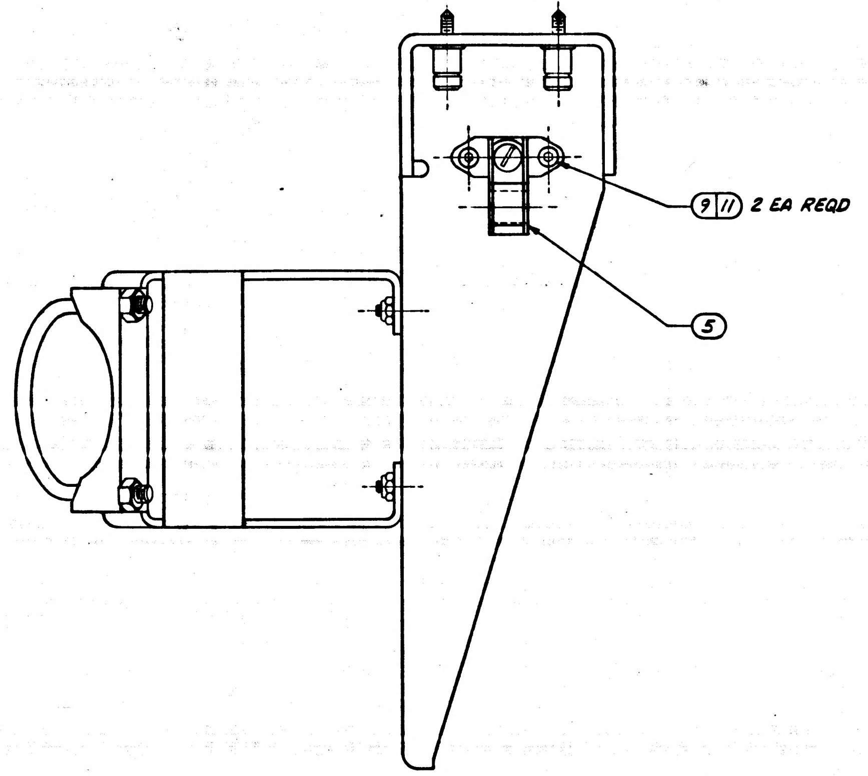
SIZE J
CODE IDENT NO. 99974
2901185
SCALE FULL
SHEET 1 OF 1

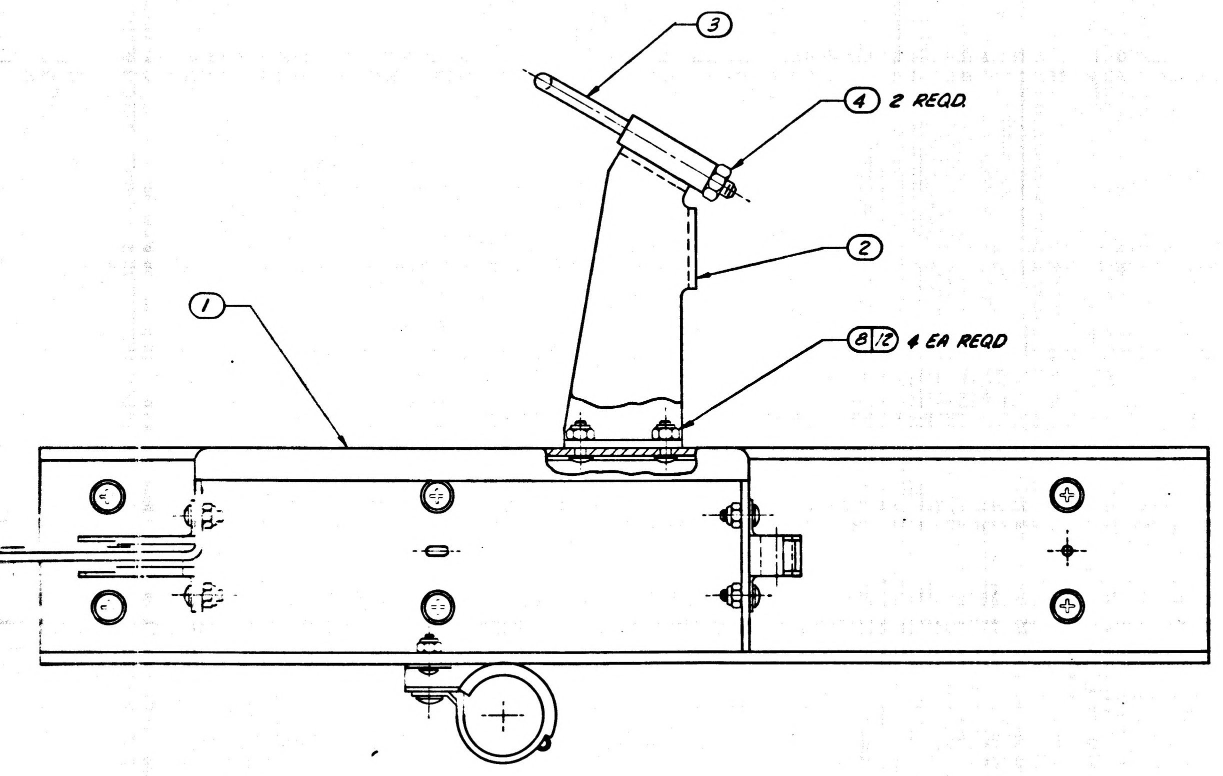
2901185 A SH 1 of 1

Charleston

SYM	ZONE	REVISIONS DESCRIPTION
A		INITIAL RELEASE CLASS A PER TDRR 28.5


W132-P2 (56P16 OR W146-P16)
36 J1 OR W146-J1 (W120-P2)
W132-P3 (56P17 OR W146-P17)
W132-P4 (56P15 OR W146-P15)
W134-P1 (56P18 OR W146-P18)
W132-P1 (W146-P15)
SEE NOTE 3
⑩ 24 REQD


⑨⑪ 2 EA REQD
⑤


③
④ 2 REQD.
②
①
⑧⑫ 4 EA REQD

	QUANTITY REQUIRED -011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 2	2		12	[illegible]	[illegible] SELF LO
SEE NOTE 2	6		11	[illegible]-003	[illegible] SELF LO
	24		10	MS5[illegible]-3	SCREW, [illegible]
	6		9	MS5[illegible]	SCREW, [illegible]
	3		8	MS5[illegible]-[illegible]	SCREW, PAN [illegible]
SEE NOTE 2	1		7	[illegible]	[illegible]
SEE NOTE 2	1		6	1010200-003	[illegible]
SEE NOTE 2	1		5	1010200-00[illegible]	[illegible]
	2		4	MS35[illegible]-[illegible]	[illegible]
	1		3	290124-6[illegible]	[illegible]
	1		2	290118[illegible]	SUPPORT [illegible]
	1		1	290118[illegible]	BRACKET [illegible]

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
-011	2900066-021	2900066-021

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN F. Kaymowski DATE 14 FEB 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANN
SPACECRAFT
HOUSTON, TE

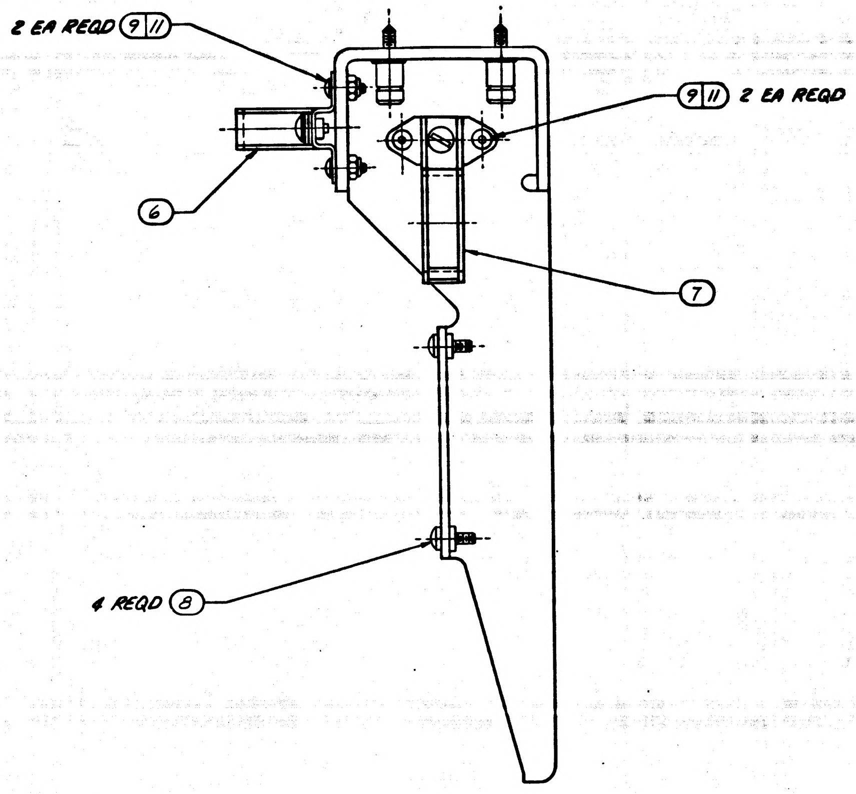
PIA-PEA CONNE
ASSEMB

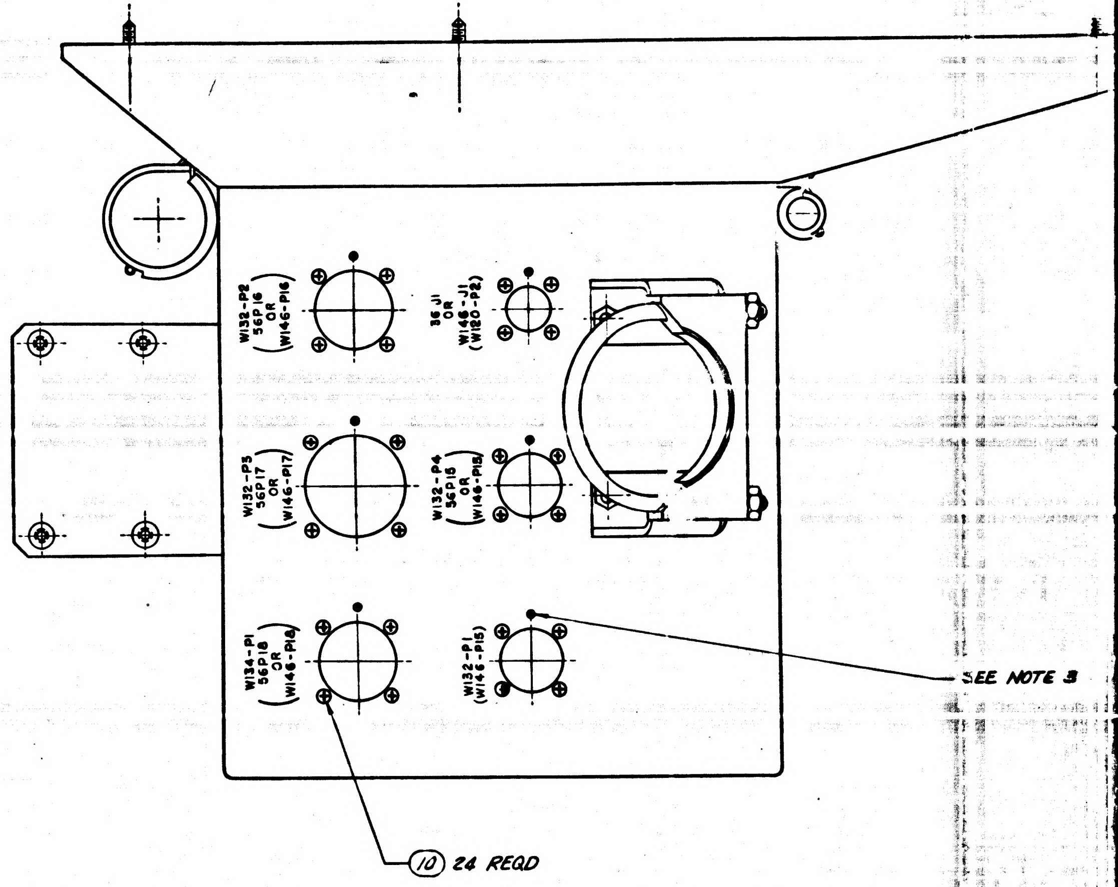
SIZE J2 CODE IDENT NO. 19974 2
SCALE

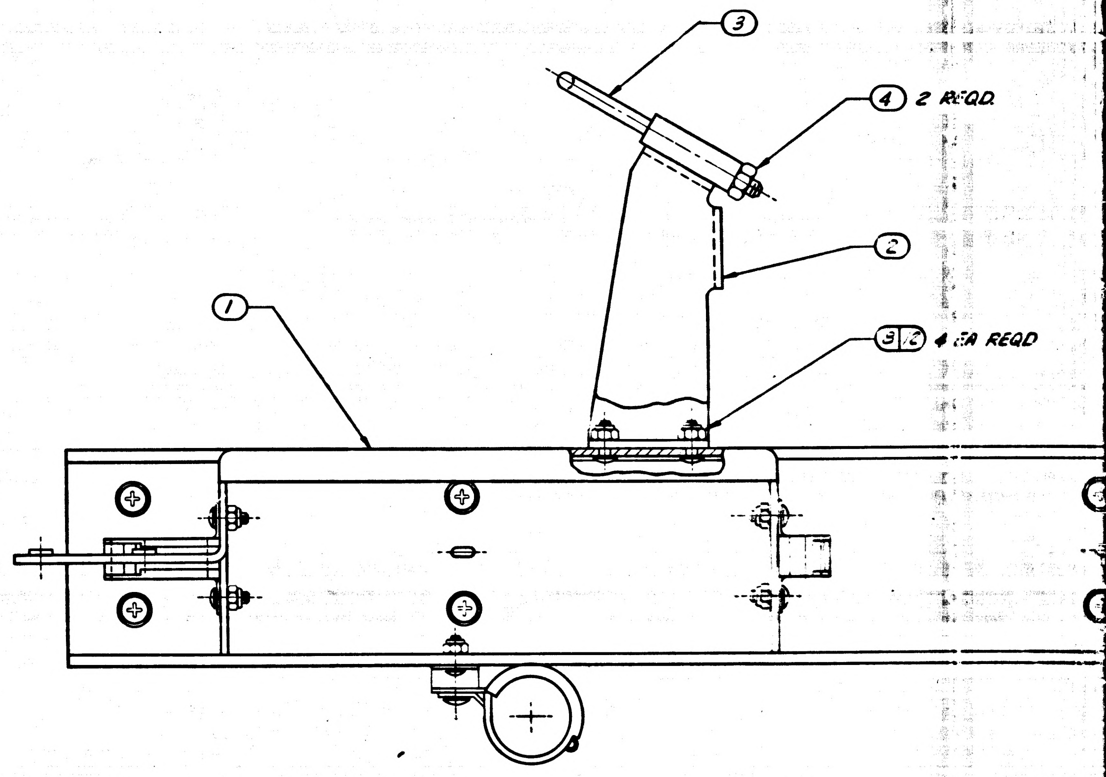
2901185 A SH 1 of 1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. THE .12 DIA MARKS ARE ON THE FAR SIDE AND ARE FOR LOCATING CONNECTOR KEY POSITIONS.

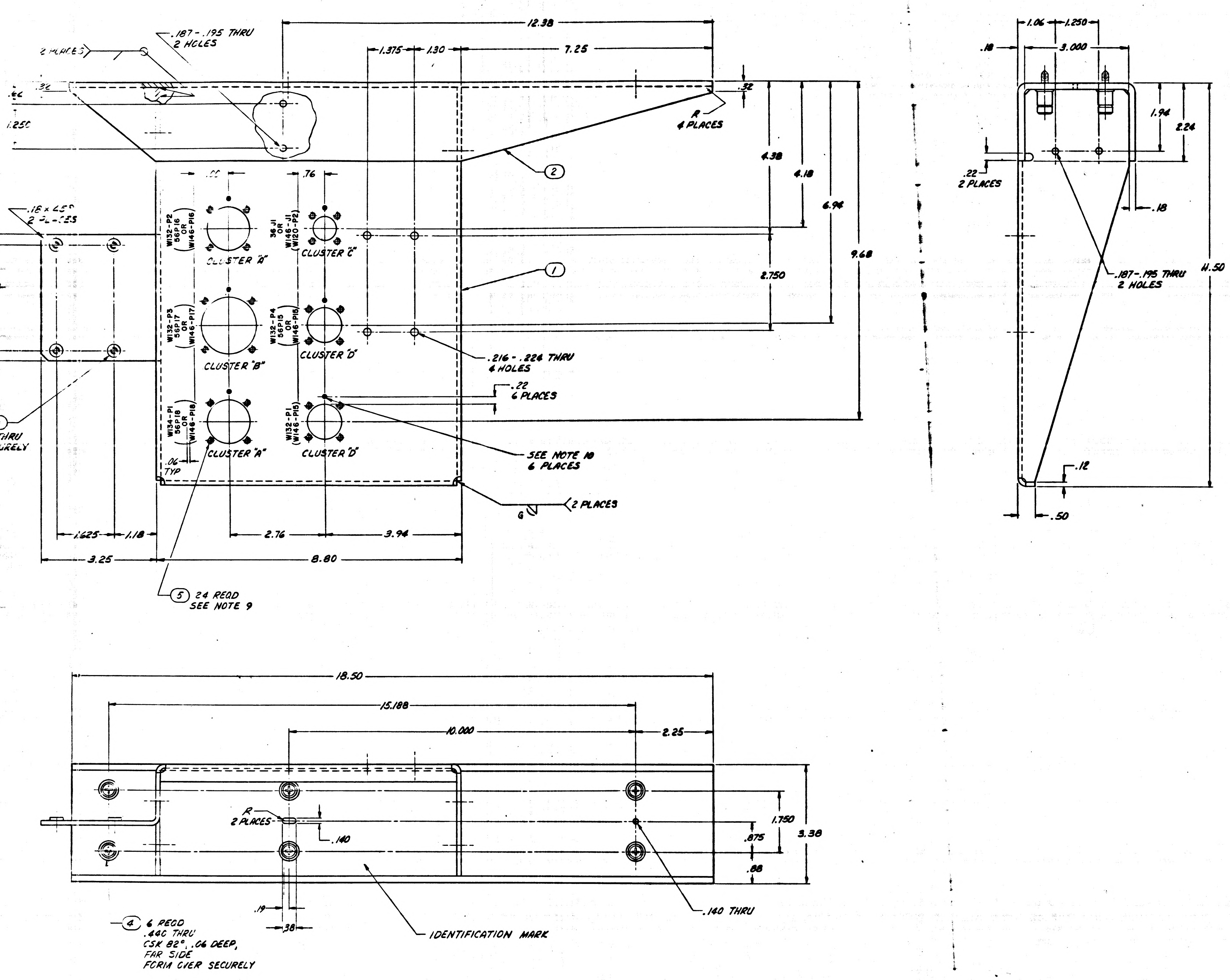

2 EA REQD 9 11
9 11 2 EA REQD
6
7
4 REQD 8


W132-P2 56P16 OR (W146-P16)
36 J1 OR W146-J1 (W120-P2)
W132-P3 56P17 OR (W146-P17)
W132-P4 36P15 OR (W146-P15)
W134-P1 56P18 OR (W146-P18)
W132-P1 (W146-P15)
SEE NOTE 3
10 24 REQD


3
4 2 REQD.
2
1
3 2 4 EA REQD

2901185 | A | SH 1of1

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 28557		24 MAR 66	



12.38
.187-.195 THRU
2 HOLES
2 PLACES
1.375
1.30
7.25
.32
1.250
R
4 PLACES
2
4.38
4.18
6.94
9.68
2.750
.18 x 45°
2 PLACES
.66
.76
W132-P2 56P16 OR (W146-P16)
CLUSTER "A"
36 J1 OR W146-J1 (W120-P2)
CLUSTER "C"
1
W132-P3 56P17 OR (W146-P17)
CLUSTER "B"
W132-P4 56P15 OR (W146-P15)
CLUSTER "D"
.216-.224 THRU
4 HOLES
.22
6 PLACES
W134-P1 56P18 OR (W146-P18)
CLUSTER "A"
W132-P1 (W146-P15)
CLUSTER "D"
SEE NOTE 10
6 PLACES
.06 TYP
G
2 PLACES
THRU
SECURELY
1.625
1.18
2.76
3.94
3.25
8.80
5
24 REQD
SEE NOTE 9
1.06
1.250
.18
3.000
1.94
2.24
.22
2 PLACES
.18
.187-.195 THRU
2 HOLES
4.50
.12
.50
18.50
15.188
10.000
2.25
R
2 PLACES
.140
1.750
.875
3.38
.88
.19
.38
.140 THRU
IDENTIFICATION MARK
4
6 REQD
.440 THRU
CSK 82°, .06 DEEP,
FAR SIDE
FORM OVER SECURELY
3H

SEE NOTE 8
8
2
SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
8	AR	MIL-S-22473 GR-HV	COMPOUND, SEALING (ES[illegible]-6)
7	AR	TT-E-529 CLASS B	ENAMEL SEMI-GLOSS DARK GRAY COLOR 26 25 OF FED-STD-595
6	AR	MIL-P-8585	PRIMER
5	24	MS21208C0410	(1897110-004) INSERT, SCREW THD
4	6	1016122-001	FASTENER, SPRING EJECTED
3	4	1006989-24	NUT, PLAIN, SELF-CLINCHING
2	1	2901187-002	CHANNEL, BRACKET MOUNTING
1	1	2901187-001	BRACKET, CONNECTOR MOUNTING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901186-011	2900066-021

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL
18 FEB 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN F. Kowalski DATE 10 FEB 66
CHECKED 17 FEB 66
APPROVAL 2/21/66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

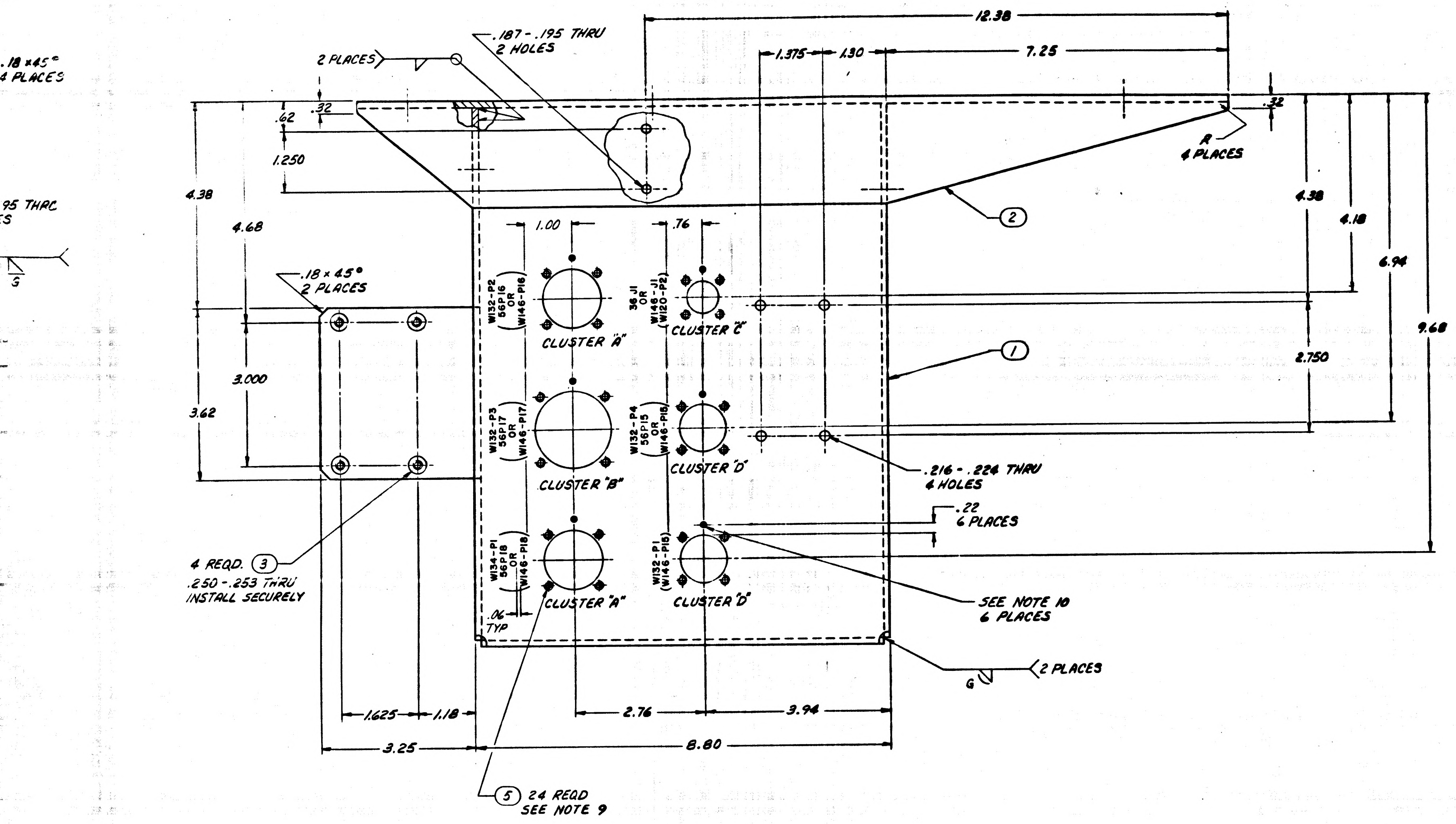
BRACKET, MTG, ELECTRICAL CONNECTOR
(INSEPARABLE ASSEMBLY)

SIZE J2
CODE IDENT NO. 99974
2901187
SCALE FULL
SHEET 1 OF 1

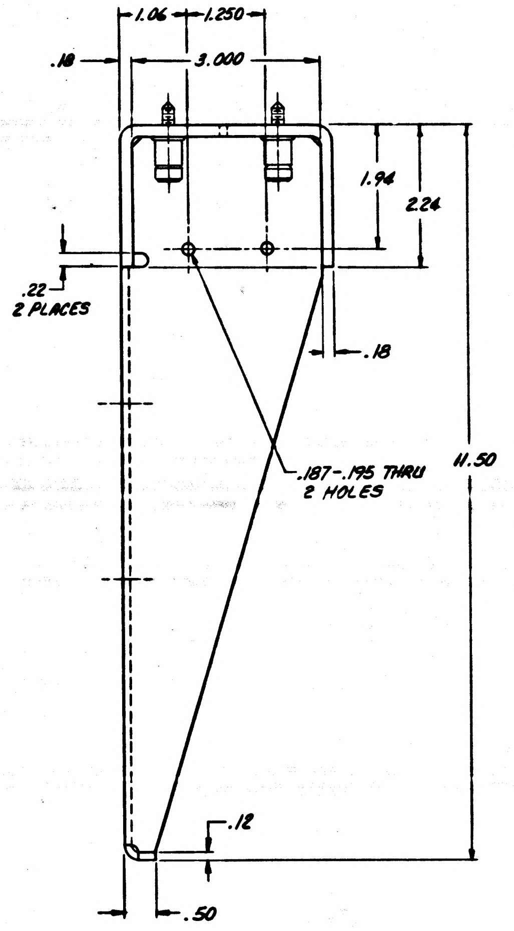
2901187 A

2901187 - SH 1 of 1

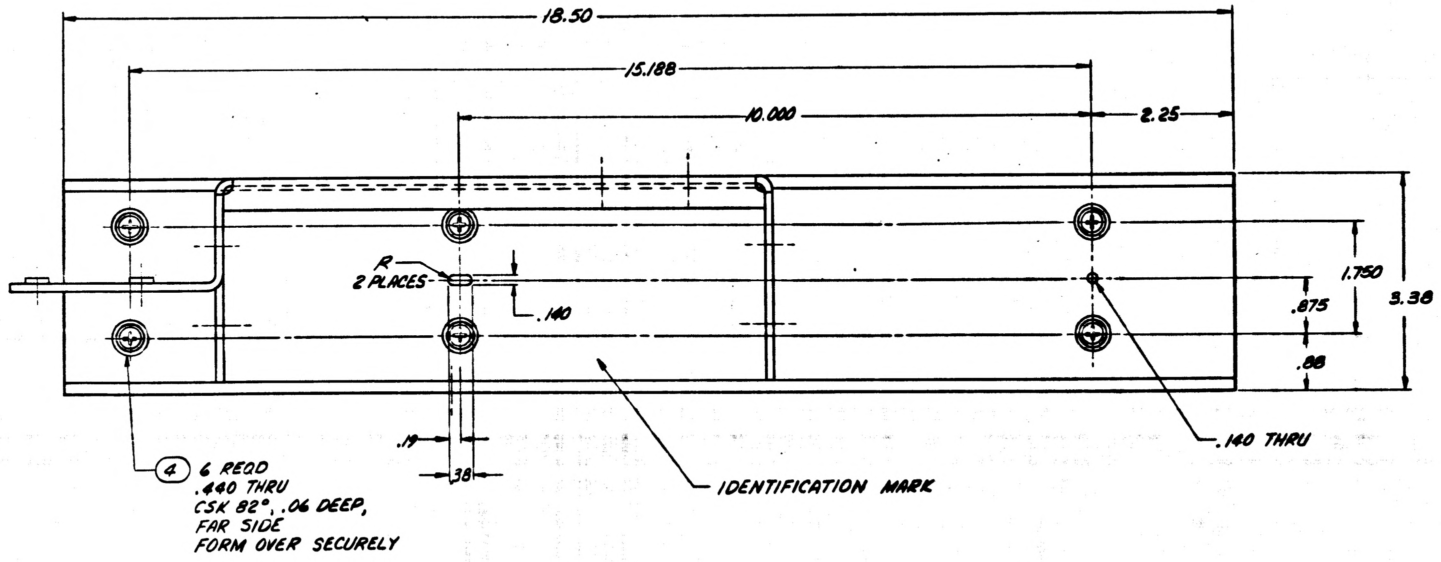
REVISIONS				
SYM	ZONE	DESCRIPTION		DATE
A		INITIAL RELEASE CLASS A PER TDRR	CHG NO	24 MAR 66



.18 x 45°
4 PLACES
.95 THRU
S
G
12.38
.187 - .195 THRU
2 HOLES
2 PLACES
1.375
.130
7.25
.32
.32
.62
1.250
R
4 PLACES
4.38
4.68
2
1.00
.76
W132-P2 56P16 OR W146-P16
36 J1 OR W146-J1 (W120-P2)
CLUSTER "A"
CLUSTER "C"
4.38
4.18
6.94
9.68
2.750
.18 x 45°
2 PLACES
3.000
3.62
1
W132-P3 56P17 OR W146-P17
W132-P4 56P15 OR W146-P15
CLUSTER "B"
CLUSTER "D"
.216 - .224 THRU
4 HOLES
.22
6 PLACES
W134-P1 56P18 OR W146-P18
W132-P1 OR W146-P18
CLUSTER "A"
CLUSTER "D"
SEE NOTE 10
6 PLACES
4 REQD. 3
.250 - .253 THRU
INSTALL SECURELY
.06
TYP
G
2 PLACES
1.625
1.18
2.76
3.94
3.25
8.80
5 24 REQD
SEE NOTE 9



1.06
1.250
.18
3.000
1.94
2.24
.22
2 PLACES
.18
.187 - .195 THRU
2 HOLES
11.50
.12
.50



18.50
15.188
10.000
2.25
R
2 PLACES
.140
1.750
3.38
.875
.88
.19
.38
.140 THRU
4 6 REQD
.440 THRU
CSK 82°, .06 DEEP,
FAR SIDE
FORM OVER SECURELY
IDENTIFICATION MARK

SEE NOTE 8
8
2
SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
8	AR	MIL-S-22473 GR	COMPOUND SEALING
7	AR	TT-E-529 CLASS B	ENAMEL SEMI-GLOSS COLOR CODE
6	AR	MIL-P-8585	PRIMER
5	24	MS20	SCREW
4	6	1016 22-00	FASTENER, SPRING ELECTED
3	4	006989-22	NUT, PLAIN, SELF-LOCKING
2	1	2901187-002	CHANNEL, BRACKET MOUNTING
1	1	2901187-001	BRACKET CONNECTOR MOUNT

LIST OF PARTS AND MATERIALS

2901185-011	2900066-021
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 1°

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN F. Kamutz DATE 10 FEB 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
A. C. METZLER
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

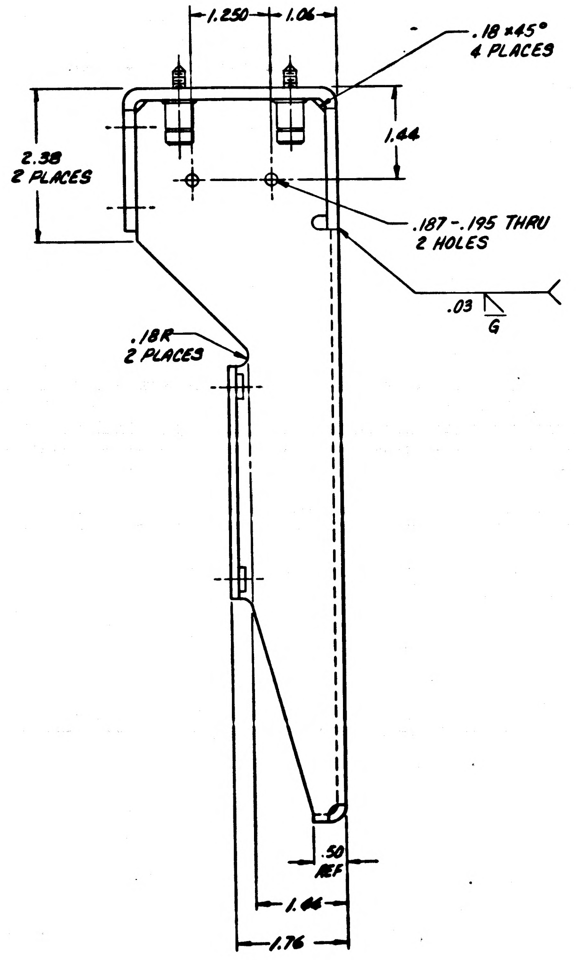
BRACKET, MTG, ELECTRICAL CONNEC
(INSEPARABLE ASSEMBLY)

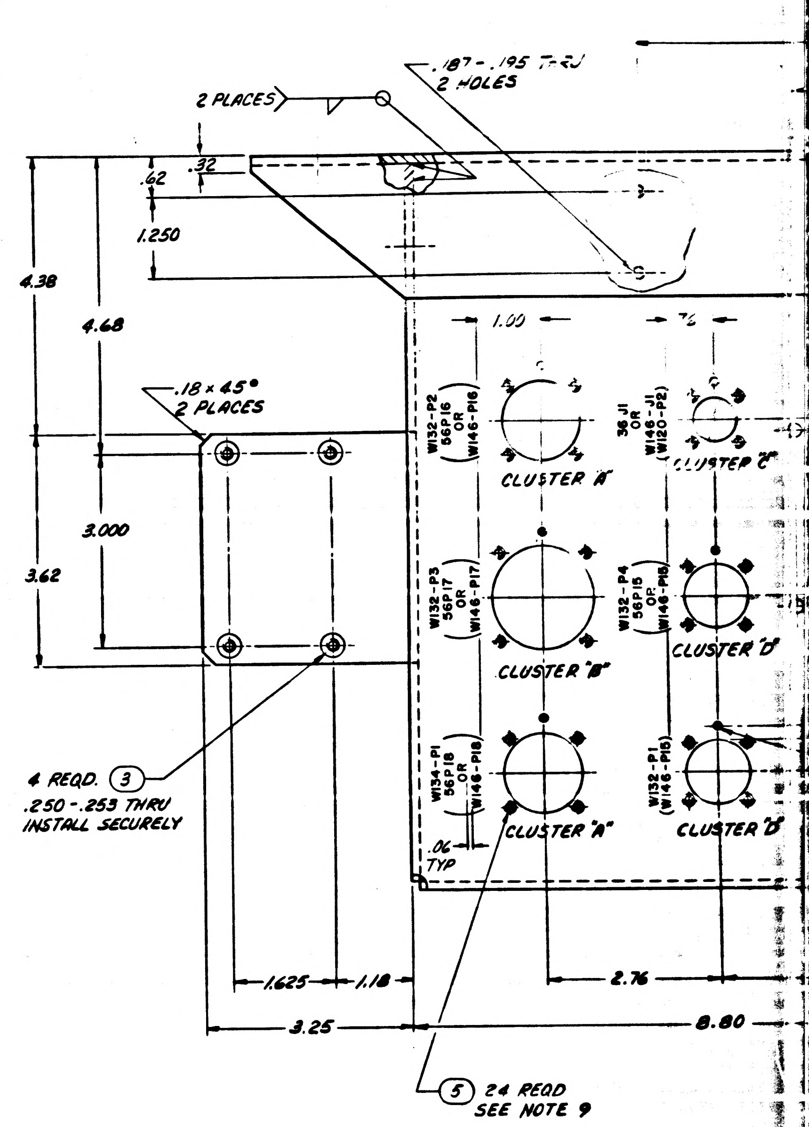
SIZE J2 | CODE IDENT NO. 99974 | 2901187
SCALE FULL

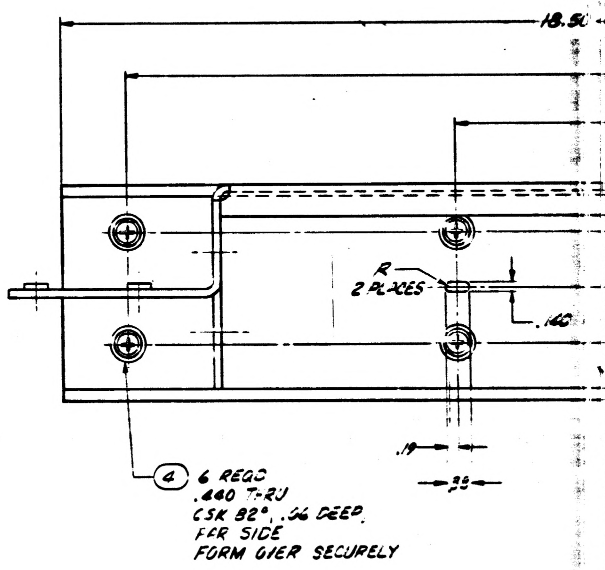
2901187 A SH 1-1

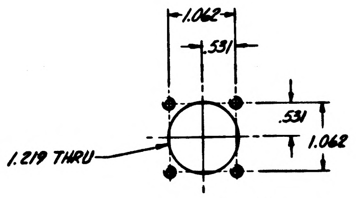
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM ALLOY PER QQ-A-250/8, TEMPER H32, (ES 2105, 5052-H32).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. WELD PER MIL-W-8604.
5. FINISH: APPLY FINISH P513 OF MIL-F-14072. APPLY ITEM ⑥ AND TWO COATS OF ITEM ⑦ TO ITEMS ① AND ②.
6. MARK CHARACTERS .12 HIGH PER ND1002019, COLOR WHITE, CENTRALIZE AS SHOWN.
7. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES 267).
8. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
9. INSTALL ITEM ⑤ IN ITEM ① PER MS33646 USING ITEM ⑧ AND AS FOLLOWS:
    - A. HOLE CLUSTERS A, B AND D, CSK OUTSIDE TO .160 DIA, INSTALL FROM OUTSIDE, REMOVE TANGS.
    - B. HOLE CLUSTER C, CSK INSIDE TO .160 DIA. INSTALL FROM INSIDE, REMOVE TANGS.
10. .12 DIA MARK, FAR SIDE, 6 PLACES - LOCATING CONNECTOR KEY POSITION.

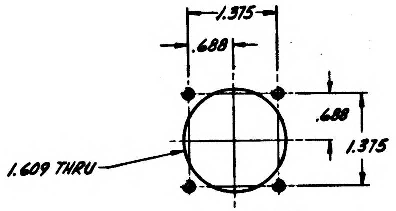

1.250
1.06
.18 × 45°
4 PLACES
2.38
2 PLACES
1.44
.187 - .195 THRU
2 HOLES
.03
G
.18R
2 PLACES
.50
REF
1.64
1.76


.187 - .195 THRU
2 HOLES
2 PLACES
.32
.62
1.250
4.38
4.68
1.00
.18 × 45°
2 PLACES
3.000
3.62
W132-P2 56P16 OR (W146-P16)
CLUSTER "A"
36J1 OR W146-J1 (W120-P2)
CLUSTER "C"
W132-P3 56P17 OR (W146-P17)
CLUSTER "B"
W132-P4 56P15 OR (W146-P15)
CLUSTER "D"
W134-P1 56P18 OR (W146-P18)
CLUSTER "A"
W132-P1 (W146-P15)
CLUSTER "D"
4 REQD. ③
.250 - .253 THRU
INSTALL SECURELY
.06
TYP
1.625
1.18
2.76
3.25
8.80
⑤ 24 REQD
SEE NOTE 9

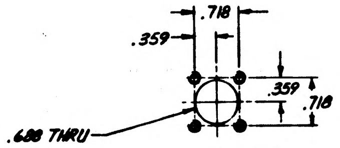

18.50
R
2 PLACES
.160
.19
.38
④ 6 REQD
.440 THRU
CSK 82°, .06 DEEP.
FAR SIDE
FORM OVER SECURELY


1.062
.531
.531
1.062
1.219 THRU

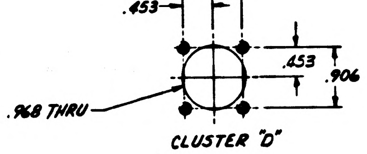
CLUSTER "A"


1.375
.688
.688
1.375
1.609 THRU

CLUSTER "B"


.718
.359
.359
.718
.688 THRU

CLUSTER "C"


.906
.453
.453
.906
.968 THRU

CLUSTER "D"

2901187 A

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 31	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 31B	1		E138-B SHLD E31	69				.25 .25	NO NO			2U 2U
E 31L			P10-Z J4-E	25 31				.22 .22	NO NO		15 15	72 72
E 31R			P10-Y J4-D	25 31				.22 .22	NO NO		15 15	71 71
E 32	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 32B	1		E103-B SHLD E32	40				.25 .25	NO NO			2U 2U
→ E 32L			P10-X* P101B-24	25 2				.22 .12	NO NO		15 11	136 ← 136
E 32R			P10-W* P101B-23	25 2				.22 .12	NO NO		15 11	135 135
E 33	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 33B	1		E103-B SHLD E33	40				.25 .25	NO NO			2U 2U
E 33L			P10-Z* P101B-18	25 2				.22 .12	NO NO		15 11	306 306
E 33R			P10-Y* P101B-17	25 2				.22 .12	NO NO		15 11	305A 305A

SIZE A
CODE IDENT NO. 99974
2901198
SCALE-NONE
REV LTR B
SHEET 19 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 34	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 34B	1		E103-B SHLD E34	40				.25 .25	NO NO			2U 2U
F 34L			P10-CC P101B-16	25 2				.22 .12	NO NO		15 11	308 308
E 34R			P10-BB P101B-15	25 2				.22 .12	NO NO		15 11	307 307
E 35	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 35B	1		E103-B SHLD E35	40				.25 .25	NO NO			2U 2U
→ E 35L			P10-EE P101B-30	25 2				.22 .12	NO NO		15 11	128 ← 128
E 35R			P10-DD P101B-29	25 2				.22 .12	NO NO		15 11	127 127
E 36	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 36B	1		E101-B SHLD E36	39				.25 .25	NO NO			2U 2U
E 36L			P10-JJ P100B-30	25 1				.22 .12	NO NO		15 11	1415 1415
E 36R			P10-HH P100B-29	25 1				.22 .12	NO NO		15 11	845 845

SIZE A
CODE IDENT NO. 99974
2901198
SCALE-NONE
REV LTR B
SHEET 20 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 37	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 37B	1		E101-B SHLD E37	39				.25 .25	NO NO			2U 2U
E 37L			P10-GG P100B-24	25 1				.22 .12	NO NO		15 11	1416 1416
E 37R			P10-FF P100B-23	25 1				.22 .12	NO NO		15 11	844 844
E 38	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 38B	1		E110-B SHLD E38	44				.25 .25	NO NO			2U 2U
→ E 38L			P10-E* P105B-28	25 6				.22 .12	NO NO		15 11	481A ← 481A
E 38R			P10-D* P105B-27	25 6				.22 .12	NO NO		15 11	480A 480A
E 39	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 39B	1		E105-B SHLD E39	41				.25 .25	NO NO			2U 2U
E 39L			P10-G* P102B-28	25 3				.22 .12	NO NO		15	1262 1262
E 39R			P10-F* P102B-27	25 3				.22 .12	NO NO		15	1261 1261

SIZE A
CODE IDENT NO. 99974
2901198
SCALE-NONE
REV LTR B
SHEET 21 OF 74

M 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 40	2				2.25 4.00	2.00 3.75				A,7 B,6B	18 10, 9	
E 40B	1		P102B-32 SHLD E40	3				.12 .25	NO NO		40	2U 2U
E 40L			P10-J* P102B-28	25 3				.22 .12	NO NO		15 11	1262 1262
E 40R			P10-H* P102B-27	25 3				.22 .12	NO NO		15 11	1261 1261
E 41	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 41B	1		E116-B SHLD E41	51				.25 .25	NO NO			2U 2U
→ E 41L			P10-R* P108B-16	25 9				.22 .12	NO NO		15 11	158 ← 158
E 41R			P10-P* P108B-15	25 9				.22 .12	NO NO		15 11	157 157
E 42	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 42B	1		E106-B SHLD E42	42				.25 .25	NO NO			2U 2U
E 42L			P10-T* P103B-2	25 4				.22 .12	NO NO		15 11	841 841
E 42R			P10-S* P103B-1	25 4				.22 .12	NO NO		15 11	840 840

SIZE A
CODE IDENT NO. 99974
2901198
SCALE-NONE
REV LTR B
SHEET 22 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 55	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 55B	1		E116-B SHLD E55	51				.25 .25	NO NO			2L 2L
E 55L			P10-N* P108B-6	25 9				.22 .12	NO NO		15 11	473 473
E 55R			P10-M* P108B-5	25 9				.22 .12	NO NO		15 11	472 472
E 56	1		P82-S* P115B-25	24 16				.22 .12	NO NO		15 11	538 538
E 57	1		P82-T* P115B-26	24 16				.22 .12	NO NO		15 11	1 1
E 58	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 58B	1		E129-B SHLD E58	63				.25 .25	NO NO			1H 1H
E 58L			P82-J P116B-12	24 17				.22 .12	NO NO		15 11	969 969
E 58R			P82-H P116B-11	24 17				.22 .12	NO NO		15 11	968 968
E 59	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 59B	1		E129-B SHLD E59	63				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 27 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 59L			P82-L P116B-18	24 17				.22 .12	NO NO		15 11	1281 1281
E 59R			P82-K P116B-17	24 17				.22 .12	NO NO		15 11	1280 1280
E 60	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 60B	1		E129-B SHLD E60	63				.25 .25	NO NO			1H 1H
E 60L			P82-C* P116B-28	24 17				.22 .12	NO NO		15 11	967 967
E 60R			P82-B* P116B-27	24 17				.22 .12	NO NO		15 11	966 966
E 61	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 61B	1		E 29-B SHLD E61	63				.25 .25	NO NO			1H 1H
E 61L			P82-E* P116B-30	24 17				.22 .12	NO NO		15 11	1283A 1283A
E 61R			P82-D* P116B-29	24 17				.22 .12	NO NO		15 11	1282 1282
E 62	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 62B	1		E128-B SHLD E62	62				.25 .25	NO NO			2L 2L

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 28 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 62L			P82-G* P116B-24	24 17				.22 .12	NO NO		15 11	1200 1200
E 62R			P82-F* P116B-23	24 17				.22 .12	NO NO		15 11	1192 1192
E 63	17		P82-A P131-1	24 33				.25 .19	NO NO		22 21	1 1
E 64	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 64B	1		E128-B SHLD E64	62				.25 .25	NO NO			2L 2L
E 64L			P82-J* P116B-16	24 17				.22 .12	NO NO		15 11	912 912
E 64R			P82-H* P116B-15	24 17				.22 .12	NO NO		15 11	911 911
E 65	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 65B	1		E128-B SHLD E65	62				.25 .25	NO NO			2L 2L
E 65L			P82-X* P116B-22	24 17				.22 .12	NO NO		15 11	1199 1199
E 65R			P82-W* P116B-21	24 17				.22 .12	NO NO		15 11	1191 1191
E 66	1		P82-Q* E128-B	24 62				.22 .25	NO NO		15	2 2

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 29 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 67	1		P105B-1 P82-U*	6 24				.12 .22	NO NO		11 15		1328 1328
E 68	2				2.25 4.00	2.00. 3.75				A,7 B,6A	18 10, 9		
E 68B	1		E100-B SHLD E68	38				.25 .25	NO NO				1H 1H
E 68L			P82-D P100B-10	24 1				.22 .12	NO NO		15 11		185A 185A
E 68R			P82-E P100B-9	24 1				.22 .12	NO NO		15 11		184A 184A
E 69	1		P82-HH P114B-7	24 15				.22 .12	NO NO		15 11		274A 274A
E 70	1		P82-JJ P114B-8	24 15				.22 .12	NO NO		15 11		1J 1J
E 71	1		P82-KK P114B-13	24 15				.22 .12	NO NO		15 11		273A 273A
E 72	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 72B	1		E109-B SHLD E72	45				.25 .25	NO NO				2L 2L
E 72L			P82-F P104B-8	24 5				.22 .12	NO NO		15 11		179D 179D
E 72R			P82-G P104B-7	24 5				.22 .12	NO NO		15 11		178A 178A

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 30 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 118	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 118B	1		E103-B SHLD E118	40				.25 .25	NO NO			2 2
E 118L			P84-X* P101B-22	28 2				.22 .12	NO NO		15 11	342 342
E 118R			P84-W* P101B-21	28 2				.22 .12	NO NO		15 11	341 341
E 119	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 119B	1		E107-B SHLD E119	43				.25 .25	NO NO			1H 1H
E 119L			P84-N P103B-24	28 4				.22 .12	NO NO		15 11	1279 1279
E 119R			P84-M P103B-23	28 4				.22 .12	NO NO		15 11	1278 1278
E 120	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 120B	1		E101-B SHLD E120	39				.25 .25	NO NO			2 2
E 120L			P84-Z* P100B-22	28 1				.22 .12	NO NO		15 11	152 152
E 120R			P84-Y* P100B-21	28 1				.22 .12	NO NO		15 11	151 151

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 43 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 121	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 121B	1		E126-B SHLD E121	60				.25 .25	NO NO				1H 1H
E 121L			P84-CC P114B-4	28 15				.22 .12	NO NO		15 11		1 1
E 121R			P84-BB P114B-3	28 15				.22 .12	NO NO		15 11		274 274
E 122	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 122B	1		E129-B SHLD E122	63				.25 .25	NO NO				1H 1H
E 122L			P84-R* P116B-20	28 17				.22 .12	NO NO		15 11		790A 790A
E 122R			P84-P* P116B-19	28 17				.22 .12	NO NO		15 11		763A 763A
E 123	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 123B	1		E122-B SHLD E123	57				.25 .25	NO NO				1H 1H
E 123L			P84-T P111B-10	28 12				.22 .12	NO NO		15 11		195 195
E 123R			P84-S P111B-9	28 12				.22 .12	NO NO		15 11		222 222

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 44 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 124	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 124B	1		E128-B SHLD E124	62				.25 .25	NO NO			2 2
E 124L			P84-N* P116B-2	28 17				.22 .12	NO NO		15 11	322 322
E 124R			P84-M* P116B-1	28 17				.22 .12	NO NO		15 11	321 321
E 125	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 125B	1		E120-B SHLD E125	55				.25 .25	NO NO			2 2
E 125L			P84-G P110B-22	28 11				.22 .12	NO NO		15 11	298 298
E 125R			P84-F P110B-21	28 11				.22 .12	NO NO		15 11	297 297
E 126	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 126B	1		E108-B SHLD E126	44				.25 .25	NO NO			1 1
E 126L			P84-X P104B-30	28 5				.22 .12	NO NO		15 11	280 280
E 126R			P84-W P104B-29	28 5				.22 .12	NO NO		15 11	279 279

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 45 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 127	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 127B	1		E120-B SHLD E127	55				.25 .25	NO NO			2 2
E 127L			P84-C P110B-18	28 11				.22 .12	NO NO		15 11	144 144
E 127R			P84-B P110B-17	28 11				.22 .12	NO NO		15 11	143 143
E 128	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 128B	1		E114-B SHLD E128	49				.25 .25	NO NO			2 2
E 128L			P84-C* P107B-30	28 8				.22 .12	NO NO		15 11	465 465
E 128R			P84-B* P107B-29	28 8				.22 .12	NO NO		15 11	464 464
E 129	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 129B	1		E127-B SHLD E129	61				.25 .25	NO NO			1 1
E 129L			P84-EE P115B-20	28 16				.22 .12	NO NO		15 11	656 656
E 129R			P84-DD P115B-19	28 16				.22 .12	NO NO		15 11	655 655

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 46 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 169	1		P85-Z P1228-11	29 23				.22 .12	NO NO		15 11	1403 1403
E 170	1		P85-Y P1228-12	29 23				.22 .12	NO NO		15 11	1404 1404
E 171	1		P85-K* P1228-13	29 23				.22 .12	NO NO		15 11	1405 1405
E 172	1		P85-I* P1228-14	29 23				.22 .12	NO NO		15 11	1406 1406
E 173	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 173B	1		E137-B SHLD E173	70				.25 .25	NO NO			2 2
E 173L			P86-V* J3-T	27 32				.22 .22	NO NO		15 15	52 52
E 173R			P86-U* J3-S	27 32				.22 .22	NO NO		15 15	51 51
E 174	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 174B	1		E135-B SHLD E174	67				.25 .25	NO NO			1H 1H
E 174L			P86-LL P1218-16	27 22				.22 .12	NO NO		15 11	1370 1370
E 174R			P86-KK P1218-15	27 22				.22 .12	NO NO		15 11	1369 1369

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 59 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 175	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 175B	1		E135-B SHLD E175	67				.25 .25	NO NO			1 1
E 175L			P86-NN P1218-20	27 22				.22 .12	NO NO		15 11	1372 1372
E 175R			P86-MM P1218-19	27 22				.22 .12	NO NO		15 11	1371 1371
E 176	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 176B	1		E138-B SHLD E176	69				.25 .25	NO NO			2 2
E 176L			P86-GG J4-T	27 31				.22 .22	NO NO		15 15	80 80
E 176R			P86-FF J4-S	27 31				.22 .22	NO NO		15 15	79 79
E 177	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 177B	1		E127-B SHLD E177	61				.25 .25	NO NO			1 1
E 177L			P86-CC P115B-28	27 16				.22 .12	NO NO		15 11	1 1
E 177R			P86-BB P115B-27	27 16				.22 .12	NO NO		15 11	538 538

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 60 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 178	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 178B	1		E103-B SHLD E178	40				.25 .25	NO NO			2 2
E 178L			P86-Z* P101B-10	27 2				.22 .12	NO NO		15 11	146 146
E 178R			P86-Y* P101B-9	27 2				.22 .12	NO NO		15 11	145 145
E 179	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 179B	1		E103-B SHLD E179	40				.25 .25	NO NO			2 2
E 179L			P86-X* P101B-6	27 2				.22 .12	NO NO		15 11	312 312
E 179R			P86-W* P101B-5	27 2				.22 .12	NO NO		15 11	311 311
E 180	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 180B	1		E107-B SHLD E180	43				.25 .25	NO NO			1 1H
E 180L			P86-G* P103B-28	27 4				.22 .12	NO NO		15 11	191 191
E 180R			P86-F* P103B-27	27 4				.22 .12	NO NO		15 11	190 190

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 61 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 181	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 181B	1		E100-B SHLD E181	38				.25 .25	NO NO			1 1
E 181L			P86-JJ P100B-26	27 1				.22 .12	NO NO		15 11	185 185
E 181R			P86-HH P100B-25	27 1				.22 .12	NO NO		15 11	184 184
E 182	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 182B	1		E100-B SHLD E182	38				.25 .25	NO NO			1 1
E 182L			P86-T* P100B-8	27 1				.22 .12	NO NO		15 11	212 212
E 182R			P86-S* P100B-7	27 1				.22 .12	NO NO		15 11	720 720
E 183	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 183B	1		E111-B SHLD E183	47				.25 .25	NO NO			1 1
E 183L			P86-X P105B-12	27 6				.22 .12	NO NO		15 11	278 278
E 183R			P86-W P105B-11	27 6				.22 .12	NO NO		15 11	277 277

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 62 OF 74

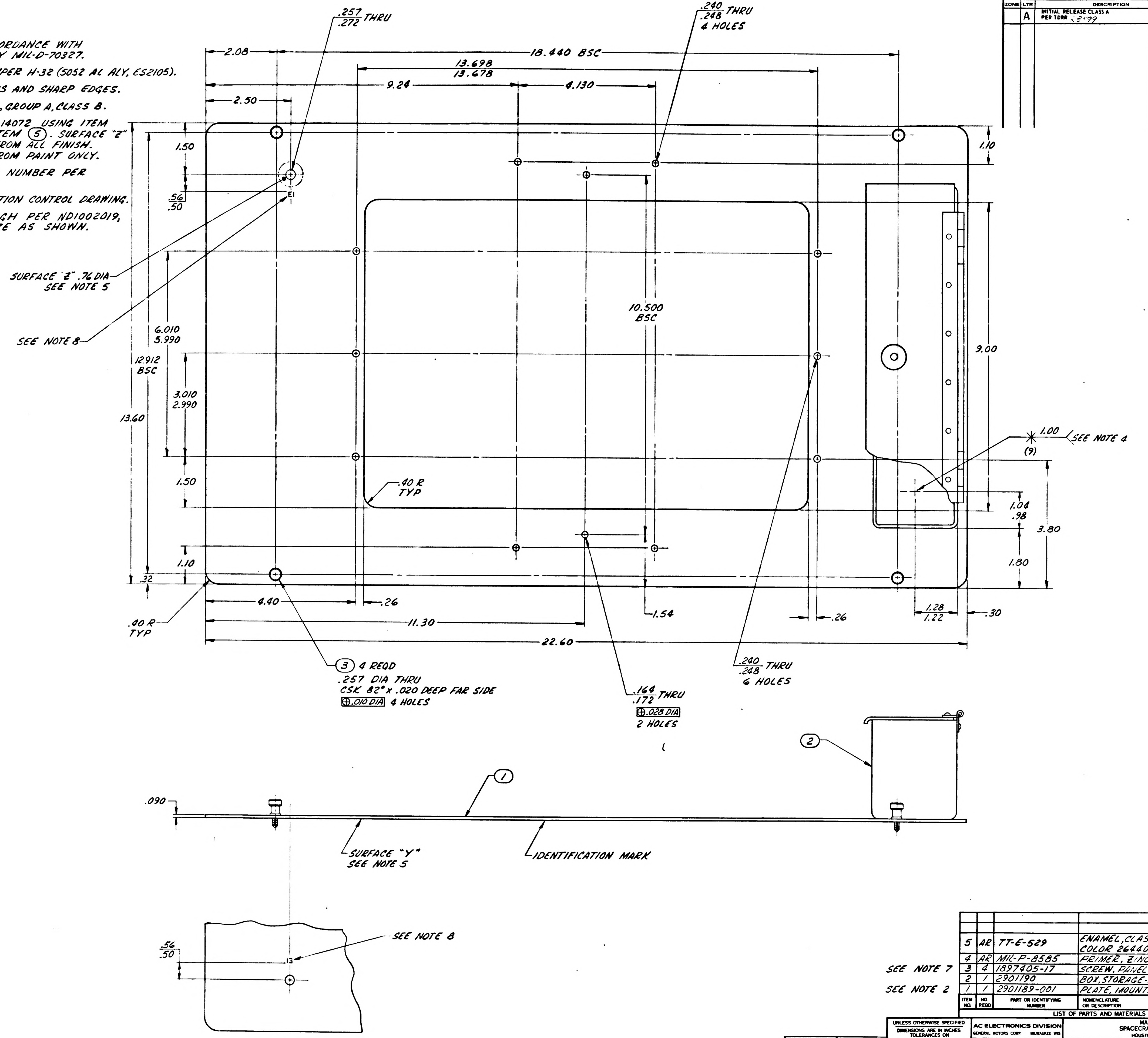
MIL 2084 9-65

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-250/8 TEMPER H-32 (5052 AL ALY, ES2105).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. SPOTWELD PER MIL-W-6858, GROUP A, CLASS B.
5. FINISH PER P513 OF MIL-F-14072 USING ITEM ④ AND TWO COATS OF ITEM ⑤. SURFACE "Z" AND ITEM ③ TO BE FREE FROM ALL FINISH. SURFACE "Y" TO BE FREE FROM PAINT ONLY.
6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.
8. MARK CHARACTERS .12 HIGH PER ND1002019, COLOR BLACK. CENTRALIZE AS SHOWN.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 23599		2 MAY 66	RLP / EF



.257
.272 THRU
.240
.248 THRU
4 HOLES
2.08
18.440 BSC
13.698
13.678
9.24
4.130
2.50
1.50
1.10
.56
.50
E1
SURFACE "Z" .76 DIA
SEE NOTE 5
SEE NOTE 8
6.010
5.990
12.912
BSC
3.010
2.990
13.60
10.500
BSC
9.00
1.00
SEE NOTE 4
(9)
.40 R
TYP
1.50
1.04
.98
3.80
1.10
1.80
.32
4.40
.26
11.30
1.54
.26
1.28
1.22
.30
22.60
.40 R
TYP
③ 4 REQD
.257 DIA THRU
CSK 82° x .020 DEEP FAR SIDE
⊕ .010 DIA 4 HOLES
.164
.172 THRU
⊕ .028 DIA
2 HOLES
.240
.248 THRU
6 HOLES
②
①
.090
SURFACE "Y"
SEE NOTE 5
IDENTIFICATION MARK
.56
.50
SEE NOTE 8
13

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
5	AR	TT-E-529	ENAMEL, CLASS B, SEMI-GLOSS. COLOR 26440 OF FED-STD-595	
4	AR	MIL-P-8585	PRIMER, ZINC CHROMATE	
3	4	1897405-17	SCREW, PANEL FASTENER, CAPTIVE	SEE NOTE 7
2	1	2901190	BOX, STORAGE-SHUNT (INSEP ASSY)	
1	1	2901189-001	PLATE, MOUNTING-PATCHBOARD	SEE NOTE 2

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901011-011	2901011-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN C. Mikulfa DATE 16 MAR 66
CHECKED
APPROVAL L. Dickman 5-6-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, MOUNTING,
PATCHBOARD
(INSEPARABLE ASSEMBLY)

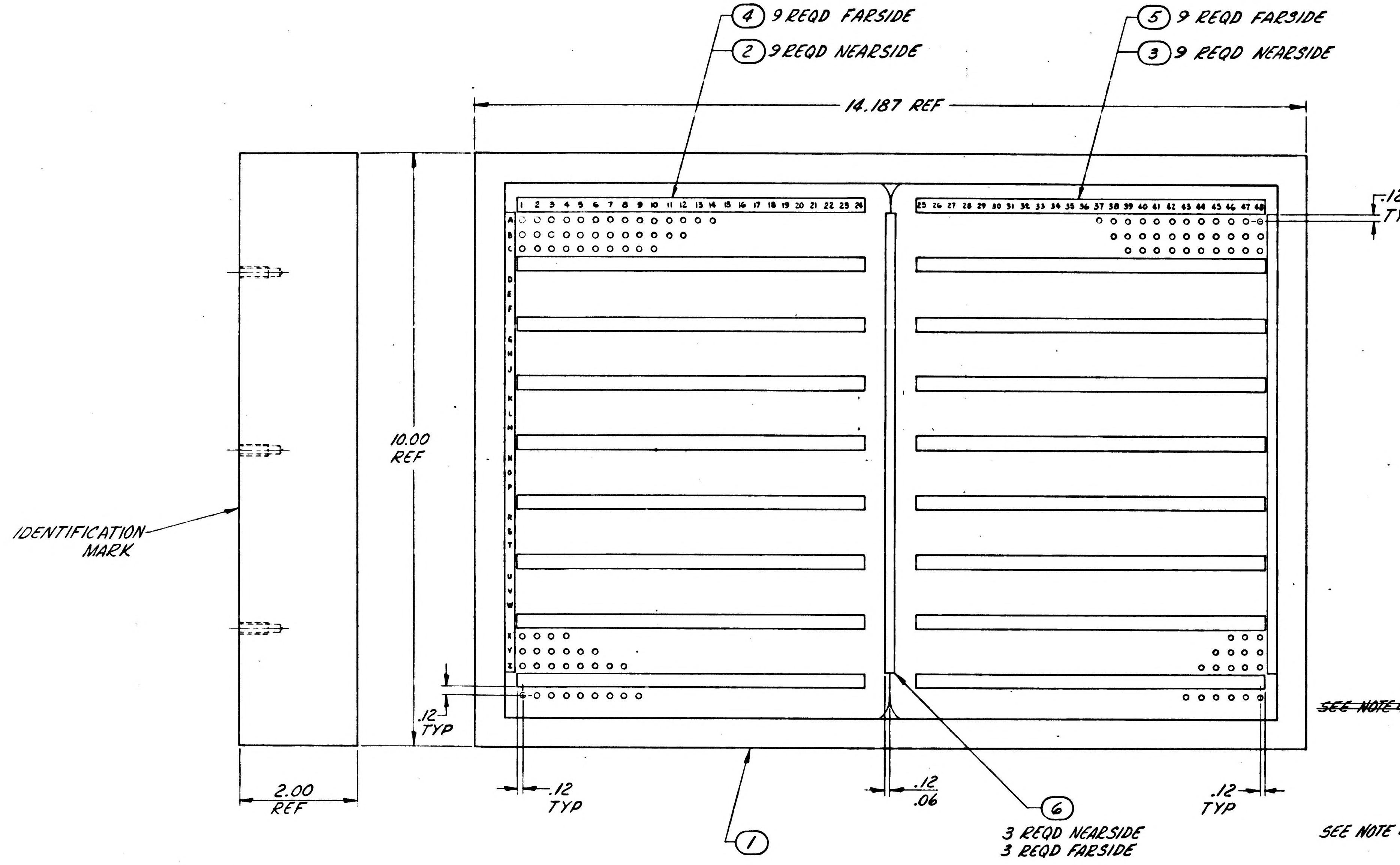
SIZE E
CODE IDENT NO. 99974
2901189
SCALE FULL
SHEET

B 2901191

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND ITEMS ②, ③, ④, ⑤ AND ⑥ TO ITEM ① USING ITEM ⑦ PER ND1002219 METHOD II.
3. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES 267).
4. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 211721		25 APR 66	JMP RWH
	B	INITIAL RELEASE CLASS A PER TDRR 28599		2-MAY 66	B.


④ 9 REQD FARSIDE
② 9 REQD NEARSIDE
⑤ 9 REQD FARSIDE
③ 9 REQD NEARSIDE
14.187 REF
.12 TYP
10.00 REF
.12 TYP
IDENTIFICATION MARK
2.00 REF
.12 TYP
.12
.06
.12 TYP
①
⑥
3 REQD NEARSIDE
3 REQD FARSIDE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
A B C D E F G H J K L M N O P R S T U V W X Y Z

	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
~~SEE NOTE 4~~	8	~~AR~~	~~1010679~~	~~ADHESIVE ACTIVATOR~~
	7	AR	1011541	EPOXY RESIN
	6	6	2901193	PLATE, DESIGNATION
	5	9	2901192-004	
	4	9	2901192-003	
	3	9	2901192-002	
	2	9	2901192-001	PLATE, DESIGNATION
SEE NOTE 4	1	1	1897404-001	PATCHBOARD

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901011-011	2901011-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES. TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN C.M. Kulp DATE 25 MAR 66
CHECKED Molina 2 APR 66
APPROVAL Johnson 5/4/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PATCHBOARD
(INSEPARABLE ASSEMBLY)

SIZE D
CODE IDENT NO. 99974
2901191
SCALE FULL
SHEET 1 OF 1

2901191

9 APR 66

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2900058-031	2900023-031	A	REVISED PER D.O. 61964	5-2-66	VM / CP
		B	INITIAL RELEASE CLASS A PER TDRR 28759	4 MAY 66	JIMP / CP

[illegible] 19 APR 66

REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
REV STATUS OF SHEETS — REV							B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
REV STATUS OF SHEETS — SHEET							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN	13 APR 66
DAY MO YR	
CHECKER J. GRIEB	18 APR 66
ENGINEER	19 APR 66
APPROVAL	5-5-66
CONTR NO.	NAS 9-497
NASA APPROVAL	
MIT APPROVAL	5-12-66

WIRING HARNESS E

SIZE	CODE IDENT. NO	
A	99974	2901198
SCALE NONE		SHEET 1 OF 74

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
47	B																
48	B																
49	B																
50	B																
51	B																
52	B																
53	B																
54	B																
55	B																
56	B																
57	B																
58	B																
59	B																
60	B																
61	B																
62	B																
63	B																
64	B																
65	B																
66	B																
67	B																
68	B																
69	B																
70	B																
71	B																
72	B																
73	B																
74	B																

SIZE	CODE IDENT. NO.	
A	99974	2901198
SCALE NONE	REV LTR B	SHEET 2 OF 74

MIL 1377A3 8-65

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 31.

4 INSTALL ITEM 9 ADJACENT TO ITEM 10 OR 29 ACCORDING TO LEAD CHART DATA.

5 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 31.

6 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

7 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED. HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

8 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

9 APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.

10 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS- COLOR BLACK.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 SPACING OF LEAD IDENTIFICATION SHALL BE EVERY 1.2 INCHES.

SIZE A	CODE IDENT NO. 99974	2901198
SCALE-NONE	REV LTR B	SHEET 3 OF 74

NOTE NUMBER — GENERAL NOTES DESCRIPTION

14 SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.

15 ASSEMBLE PER ND1002032.

16 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - FROM END SHIELD
B - TO END SHIELD
E - GRAY
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER.
X - COAX OUTER CONDUCTOR

17 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .19 INCH HIGH CHARACTERS, COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019.

18 USE ITEM 30 AS REQUIRED TO PROVIDE CLAMPING

19 MARK IDENTIFICATION SLEEVE WITH REFERENCE DESIGNATION AS NOTED .12 INCH HIGH CHARACTERS, COLOR BLACK, HOT IMPRESSION STAMP PER ND1002019. CUT AS REQUIRED FOR INSTALLATION.

20 CONNECTORS MUST HAVE A MINIMUM OF 3 CONTACT POSITIONS FILLED IN HOLES 1 THRU 10 AND 23 THRU 32. TO MEET THIS REQUIREMENT USE CRIMPED UNWIRED CONTACTS IN HOLES 1,2,3 AND 30,31,32.

SIZE A	CODE IDENT NO. 99974	2901198
SCALE-NONE	REV LTR B	SHEET 4 OF 74

NOTE NUMBER — GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901198
SCALE-NONE	REV LTR B	SHEET 5 OF 74

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901198-001	WIRE, ND1002181 TYPE 1, CLASS 1, 22 AWG WHT
	2	1	2901198-002	WIRE, ND1002181 TYPE 2, CLASS 4, WHT JACKET 24 AWG WHT/BLU, WHT/RED
	3	1	2901198-003	CABLE, RF, COAXIAL MIL-C-17 RG-188/U
11	4	2	MS3126F24-61S	(1897048-610) CONNECTOR-PLUG, ELEC
11	5	1	MS3126F24-61SW	(1897048-611) CONNECTOR-PLUG, ELEC
11	6	2	MS3126F24-61SX	(1897048-612) CONNECTOR-PLUG, ELEC
11	7	1	MS3126F24-61SY	(1897048-613) CONNECTOR-PLUG, ELEC
11	8	1	MS3126F24-61SZ	(1897048-614) CONNECTOR-PLUG, ELEC
8	9	190	1010490-228	INSULATION-SLEEVING, ELECTRICAL
8	10	172	1010763- 2	SLEEVE, SOLDER
8	11	389	1897266-001	CONTACT, RECEPTACLE, ELEC
8	12	23	1897267-001	CONNECTOR, RECEPTACLE, ELECTRICAL
11	13	1	MS3127E22-55S	(1897054-550) CONNECTOR-RECEPTACLE, ELEC
11	14	1	MS3127E20-41SW	(1897052-411) CONNECTOR-RECEPTACLE, ELEC
	15		MS3193A20A	(1896877-020) CONTACT, ELECTRICAL (FURNISHED WITH ITEMS 4,5,6,7,8,13 AND 14)
	16	1	2901198-004	WIRE, ND1002181 TYPE 1, CLASS 1, 20 AWG WHT
	17	1	2901198-005	WIRE, ND1002181 TYPE 1, CLASS 1, 16 AWG WHT

SIZE A	CODE IDENT NO. 99974	2901198
SCALE-NONE	REV LTR B	SHEET 6 OF 74

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
8	18	171	1010490-196	INSULATION-SLEEVING, ELECTRICAL
8	19	12	1010490-226	INSULATION-SLEEVING,ELECTRICAL
8	20	5	1016006-003	SPLICE-REDUCER
8	21	1	1016369-720	MALE CONTACT,PIN
8	22	1	1016281-181	CONTACT, SOCKET
8	23	5	1897356-001	RETAINER ELEC. CONN.-COAXIAL PIN
8	27	7	1016282- 24	GROMMET,CONNECTOR STRAIN RELIEF
8	28	8	1016128-001	BAND-IDENTIFICATION BLANK
	30	AR	2901136-006	INSULATION ELEC,MIL-I-631 TYPE F,FORM T .62 INCH WIDE X .040 INCH THICK,GRADE A,CLASS I BLACK
	31	AR	MIL-T-713B	LACING TAPE,TYPE P,CLASS2,BLACK(ES2732-1,NO.18)
8	32	1	1015902- 49	TERMINAL-LUG
	33	4	1016369-388	CONTACT, INNER FEMALE
	34	4	1016369-288	CONTACT, OUTER MALE
	35	4	1016369-588	HYRING
	36	6	1010490-224	INSULATION-SLEEVING, ELEC
	37	12	1016006-002	SPLICE-REDUCER
	38	15	1016006-001	SPLICE-REDUCER

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 7 OF 74

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	39	28	1015864-462	SLEEVE
	40	2	1897266-004	CONTACT, RECEPTACLE, ELECTRICAL
	41	1	1900448-021	CABLE CLAMP BRACKET
	42	2	1006783- 45	SCREW, BUTTON HEAD
	43	2	1016151-010	NUT, SELF LOCKING
	44	2	AN960C10L	(1897006-019) WASHER, FLAT
	45	2	MS21919-WDG9 MS21919-WDG13	(1897073-209) THRU CLAMP, CUSHIONED (1897073-213)

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 8 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 1	2				2.25 2.25	2.00 2.00				A,7 8,6A	18 10, 9	
E 1B	1		E137-B SHLD E1	70				.25 .25	NO NO			2 2
E 1L			P9-V* J3-P	26 32				.22 .22	NO NO		15 15	50 50
E 1R			P9-U* J3-N	26 32				.22 .22	NO NO		15 15	49 49
E 2	2				2.25 4.00	2.00 3.75				A,7 8,6A	18 10, 9	
E 2B	1		E100-B SHLD E2	38				.25 .25	NO NO			1 1
E 2L			P9-LL P1008-20	26 1				.22 .12	NO NO		15 11	823 823
E 2R			P9-KK P1008-19	26 1				.22 .12	NO NO		15 11	822 822
E 3	2				2.25 4.00	2.00 3.75				A,7 8,6A	18 10, 9	
E 3B	1		P1018-31 SHLD E3	2				.12 .25	NO NO		11	1 1
E 3L			P9-NN P1018-2	26 2				.22 .12	NO NO		15 11	825 825
E 3R			P9-MM P1018-1	26 2				.22 .12	NO NO		15 11	824 824

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 9 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 4	2				2.25 2.25	2.00 2.00				A,7 3,6A	18 10, 9	
E 4B	1		E138-B SHLD E4	69				.25 .25	NO NO			2 2
E 4L			P9-GG J4-P	26 31				.22 .22	NO NO		15 15	78 78
E 4R			P9-FF J4-N	26 31				.22 .22	NO NO		15 15	77 77
E 5	2				2.25 4.00	2.00 3.75				A,7 8,6A	18 10, 9	
E 5B	1		E127-B SHLD E5	61				.25 .25	NO NO			1 1
E 5L			P9-CC P1158-12	26 16				.22 .12	NO NO		15 11	821 821
E 5R			P9-BB P1158-11	26 16				.22 .12	NO NO		15 11	820 820
E 6	2				2.25 4.00	2.00 3.75				A,7 8,6A	18 10, 9	
E 6B	1		E136-B SHLD E6	68				.25 .25	NO NO			2 2
E 6L			P9-R P1228-26	26 23				.22 .12	NO NO		15 11	811 811
E 6R			P9-P P1228-25	26 23				.22 .12	NO NO		15 11	810 810

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 10 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E	7	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	7B	1	E127-B SHLD E7	61				.25 .25	NO NO				1H 1H
E	7L		P9-N P115B-10	26 16				.22 .12	NO NO		15 11		809A 809A
E	7R		P9-M P115B-9	26 16				.22 .12	NO NO		15 11		808A 808A
E	8	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	8B	1	E103-B SHLD E8	40				.25 .25	NO NO				2L 2L
E	8L		P9-X* P101B-4	26 2				.22 .12	NO NO		15 11		148B 148B
E	8R		P9-W* P101B-3	26 2				.22 .12	NO NO		15 11		147A 147A
E	9	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	9B	1	E103-B SHLD E9	40				.25 .25	NO NO				2L 2L
E	9L		P9-Z* P101B-12	26 2				.22 .12	NO NO		15 11		310B 310B
E	9R		P9-Y* P101B-11	26 2				.22 .12	NO NO		15 11		309A 309A

SIZE	CODE IDENT NO.			
A	99974	2901198		
SCALE-NONE	REV LTR	B	SHEET 11 OF 74	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E	10	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	10B	1	E105-B SHLD E10	41				.25 .25	NO NO				2L 2L
E	10L		P9-J* P102B-16	26 3				.22 .12	NO NO		15 11		1254B 1254B
E	10R		P9-H* P102B-15	26 3				.22 .12	NO NO		15 11		1253B 1253B
E	11	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	11B	1	E100-B SHLD E11	38				.25 .25	NO NO				1H 1H
E	11L		P9-JJ P100B-12	26 1				.22 .12	NO NO		15 11		183B 183B
E	11R		P9-HH P100B-11	26 1				.22 .12	NO NO		15 11		182B 182B
E	12	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	12B	1	E119-B SHLD E12	54				.25 .25	NO NO				1H 1H
E	12L		P9-V P110B-30	26 11				.22 .12	NO NO		15 11		195B 195B
E	12R		P9-U P110B-29	26 11				.22 .12	NO NO		15 11		224B 224B

SIZE	CODE IDENT NO.			
A	99974	2901198		
SCALE-NONE	REV LTR	B	SHEET 12 OF 74	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E	13	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	13B	1	E103-B SHLD E13	40				.25 .25	NO NO				2L 2L
E	13L		P9-N* P101B-20	26 2				.22 .12	NO NO		15 11		320B 320B
E	13R		P9-M* P101B-19	26 2				.22 .12	NO NO		15 11		319A 319A
E	14	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	14B	1	E120-B SHLD E14	55				.25 .25	NO NO				2L 2L
E	14L		P9-G P110B-24	26 11				.22 .12	NO NO		15 11		296B 296B
E	14R		P9-F P110B-23	26 11				.22 .12	NO NO		15 11		295B 295B
E	15	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	15B	1	E111-B SHLD E15	47				.25 .25	NO NO				1H 1H
E	15L		P9-X P105B-8	26 6				.22 .12	NO NO		15 11		1741 1741
E	15R		P9-W P105B-7	26 6				.22 .12	NO NO		15 11		1740 1740

SIZE	CODE IDENT NO.			
A	99974	2901198		
SCALE-NONE	REV LTR	B	SHEET 13 OF 74	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E	16	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	16B	1	E134-B SHLD E16	66				.25 .25	NO NO				2L 2L
E	16L		P9-R* P120B-28	26 21				.22 .12	NO NO		15 11		336B 336B
E	16R		P9-P* P120B-27	26 21				.22 .12	NO NO		15 11		335B 335B
E	17	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	17B	1	E120-B SHLD E17	55				.25 .25	NO NO				2L 2L
E	17L		P9-C P110B-16	26 11				.22 .12	NO NO		15 11		142B 142B
E	17R		P9-B P110B-15	26 11				.22 .12	NO NO		15 11		141B 141B
E	18	2			2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E	18B	1	E114-B SHLD E18	49				.25 .25	NO NO				2L 2L
E	18L		P9-C* P107B-28	26 8				.22 .12	NO NO		15 11		463B 463B
E	18R		P9-B* P107B-27	26 8				.22 .12	NO NO		15 11		462B 462B

SIZE	CODE IDENT NO.			
A	99974	2901198		
SCALE-NONE	REV LTR	B	SHEET 14 OF 74	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 43	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 43B	1		E110-B SHLD E43	44				.25 .25	NO NO			2U 2U
E 43L			P10-L P105B-30	25 6				.22 .12	NO NO		15 11	350 350
E 43R			P10-K P105B-29	25 6				.22 .12	NO NO		15 11	349 349
E 44	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 44B	1		E110-B SHLD E44	44				.25 .25	NO NO			2U 2U
→ E 44L			P10-X P105B-24	25 6				.22 .12	NO NO		15 11	348 ← 348
E 44R			P10-W P105B-23	25 6				.22 .12	NO NO		15 11	347 347
E 45	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 45B	1		E119-B SHLD E45	54				.25 .25	NO NO			1 1
E 45L			P10-C P110B-10	25 11				.22 .12	NO NO		15 11	827 827
E 45R			P10-B P110B-9	25 11				.22 .12	NO NO		15 11	826 826

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 23 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 46	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 46B	1		E114-B SHLD E46	49				.25 .25	NO NO			2U 2U
E 46L			P10-E P107B-4	25 8				.22 .12	NO NO		15 11	122 122
E 46R			P10-D P107B-3	25 8				.22 .12	NO NO		15 11	121 121
E 47	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 47B	1		E112-B SHLD E47	48				.25 .25	NO NO			2U 2U
→ E 47L			P10-N P106B-24	25 7				.22 .12	NO NO		15 11	120 ← 120
E 47R			P10-M P106B-23	25 7				.22 .12	NO NO		15 11	119 119
E 48	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 48B	1		E112-B SHLD E48	48				.25 .25	NO NO			2U 2U
E 48L			P10-R P106B-28	25 7				.22 .12	NO NO		15 11	172 172
E 48R			P10-P P106B-27	25 7				.22 .12	NO NO		15 11	171 171

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 24 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 49	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 49B	1		E112-B SHLD E49	48				.25 .25	NO NO			2U 2U
E 49L			P10-G P106B-4	25 7				.22 .12	NO NO		15 11	94 94
E 49R			P10-F P106B-3	25 7				.22 .12	NO NO		15 11	93 93
E 50	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 50B	1		E112-B SHLD E50	48				.25 .25	NO NO			2U 2U
→ E 50L			P10-J P106B-12	25 7				.22 .12	NO NO		15 11	160 ← 160
E 50R			P10-H P106B-11	25 7				.22 .12	NO NO		15 11	159 159
E 51	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 51B	1		E112-B SHLD E51	48				.25 .25	NO NO			2U 2U
E 51L			P10-T P106B-16	25 7				.22 .12	NO NO		15 11	98 98
E 51R			P10-S P106B-15	25 7				.22 .12	NO NO		15 11	97 97

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 25 OF 74

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 52	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 52B	1		E112-B SHLD E52	48				.25 .25	NO NO			2U 2U
E 52L			P10-V P106B-6	25 7				.22 .12	NO NO		15 11	154 154
E 52R			P10-U P106B-5	25 7				.22 .12	NO NO		15 11	153 153
E 53	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 53B	1		E106-B SHLD E53	42				.25 .25	NO NO			2U 2U
→ E 53L			P10-V* P103B-20	25 4				.22 .12	NO NO		15 11	843 ← 843
E 53R			P10-U* P103B-19	25 4				.22 .12	NO NO		15 11	842 842
E 54	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 54B	1		E116-B SHLD E54	51				.25 .25	NO NO			2U 2U
E 54L			P10-C* P108B-4	25 9				.22 .12	NO NO		15 11	471 471
E 54R			P10-B* P108B-3	25 9				.22 .12	NO NO		15 11	470 470

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 26 OF 4

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 73	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 73B	1		E108-B SHLD E73	44				.25 .25	NO NO				1H 1H
E 73L			P82-B P104B-10	24 5				.22 .12	NO NO		15 11		189A 189A
E 73R			P82-C P104B-9	24 5				.22 .12	NO NO		15 11		188A 188A
E 74	1		P82-P J3-M*	24 32				.22 .22	NO NO		15 15		57 57
E 75	1		P82-R J3-Z*	24 32				.22 .22	NO NO		15 15		65 65
E 76	1		P82-S J3-Y*	24 32				.22 .22	NO NO		15 15		64 64
E 77	1		P82-T J3-X*	24 32				.22 .22	NO NO		15 15		63 63
E 78	1		P82-U J3-J*	24 32				.22 .22	NO NO		15 15		56 56
E 79	1		P82-V J3-I*	24 32				.22 .22	NO NO		15 15		55 55
E 80	1		P82-W J3-H*	24 32				.22 .22	NO NO		15 15		54 54
E 81	1		P82-X J3-G*	24 32				.22 .22	NO NO		15 15		53 53

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 31 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E 82	3				4.00 .52	3.75 .23				B,6B A,10	9, 29 34, 35		
E 82A	1		SHLD E82 P82-BB	28				.25 .22	NO NO		15		1160 1160
E 82E			P82-AA P133-1	28 35				.44 .11	NO NO		15 33		1159 1159
E 82X			SHLD E82 P133-2	35									1160 1160
E 83	3				4.00 .52	3.75 .23				B,6B A,10	9, 29 34, 35		
E 83A	1		SHLD E83 P82-Z*	24				.25 .22	NO NO		15		1158 1158
E 83E			P82-Y* P132-1	24 34				.44 .11	NO NO		15 33		1157 1157
E 83X			SHLD E83 P132-2	34									1158 1158
E 84	1		P82-M* J3-EE	24 32				.22 .22	NO NO		15 15		66 66
E 85	1		P82-N* J3-W*	24 32				.22 .22	NO NO		15 15		62 62
E 86	1		P82-P* J3-FF	24 32				.22 .22	NO NO		15 15		67 67
E 87	1		P82-R* J3-GG	24 32				.22 .22	NO NO		15 15		68 68

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 32 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E 88	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9		
E 88B	1		E137-B SHLD E88	70				.25 .25	NO NO				2L 2L
E 88L			P83-Z* J3-Q*	30 32				.22 .22	NO NO		15 15		59 59
E 88R			P83-Y* J3-P*	30 32				.22 .22	NO NO		15 15		58 58
E 89	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9		
E 89B	1		E137-B SHLD E89	70				.25 .25	NO NO				2L 2L
E 89L			P83-V* J3-T*	30 32				.22 .22	NO NO		15 15		61 61
E 89R			P83-U* J3-S*	30 32				.22 .22	NO NO		15 15		60 60
E 90	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 90B	1		P106B-31 SHLD E90	7				.12 .25	NO NO		11		1H 1H
E 90L			P83-LL P106B-20	30 7				.22 .12	NO NO		15 11		1330 1330
E 90R			P83-KK P106B-19	30 7				.22 .12	NO NO		15 11		1329 1329

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 33 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
E 91	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 91B	1		E115-B SHLD E91	50				.25 .25	NO NO				1H 1H
E 91L			P83-NN P107B-20	30 8				.22 .12	NO NO		15 11		1332 1332
E 91R			P83-MM P107B-19	30 8				.22 .12	NO NO		15 11		1331 1331
E 92	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9		
E 92B	1		E138-B SHLD E92	69				.25 .25	NO NO				2L 2L
E 92L			P83-J* J4-J*	30 31				.22 .22	NO NO		15 15		82 82
E 92R			P83-H* J4-V	30 31				.22 .22	NO NO		15 15		81 81
E 93	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9		
E 93B	1		E138-B SHLD E93	69				.25 .25	NO NO				2L 2L
E 93L			P83-GG J4-N*	30 31				.22 .22	NO NO		15 15		84 84
E 93R			P83-FF J4-M*	30 31				.22 .22	NO NO		15 15		83 83

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 34 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 94	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 94B	1		E116-B SHLD E94	51				.25 .25	NO NO			2L 2L
E 94L			P83-T* P108B-2	30 9				.22 .12	NC NO		15 11	1E 1E
E 94R			P83-S* P108B-1	30 9				.22 .12	NO NO		15 11	498B 498B
E 95	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 95B	1		E126-B SHLD E95	60				.25 .25	NO NO			1H 1H
E 95L			P83-CC P114B-10	30 15				.22 .12	NO NO		15 11	1428A 1428A
E 95R			P83-BB P1143-9	30 15				.22 .12	NO NO		15 11	1427A 1427A
E 96	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 96B	1		E119-B SHLD E96	54				.25 .25	NO NO			1H 1H
E 96L			P83-G* P110B-2	30 11				.22 .12	NO NO		15 11	1C 1C
E 96R			P83-F* P110B-1	30 11				.22 .12	NO NO		15 11	1042A 1042A

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 35 OF 74

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 97	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 97B	1		E121-B SHLD E97	56				.25 .25	NO NO			2L 2L
E 97L			P83-C* P111B-20	30 12				.22 .12	NO NO		15 11	316A 316A
E 97R			P83-B* P111B-19	30 12				.22 .12	NO NO		15 11	315A 315A
E 98	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 98B	1		E121-B SHLD E98	56				.25 .25	NO NO			2L 2L
E 98L			P83-N* P111B-2	30 12				.22 .12	NO NO		15 11	314A 314A
E 98R			P83-M* P111B-1	30 12				.22 .12	NO NO		15 11	313A 313A
E 99	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 99B	1		E119-B SHLD E99	54				.25 .25	NO NO			1H 1H
E 99L			P83-X P110B-20	30 11				.22 .12	NO NO		15 11	1C 1C
E 99R			P83-W P110B-19	30 11				.22 .12	NO NO		15 11	1425B 1425B

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 36 OF 74

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 100	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 100B	1		E117-B SHLD E100	52				.25 .25	NO NO				1H 1H
E 100L			P83-EE P109B-26	30 10				.22 .12	NO NO		15 11		660A 660A
E 100R			P83-DD P109B-25	30 10				.22 .12	NO NO		15 11		659A 659A
E 101	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 101B	1		E115-B SHLD E101	50				.25 .25	NO NO				1H 1H
E 101L			P83-C P107B-24	30 8				.22 .12	NO NO		15 11		270C 270C
E 101R			P83-B P107B-23	30 8				.22 .12	NO NO		15 11		598C 598C
E 102	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 102B	1		E115-B SHLD E102	50				.25 .25	NO NO				1H 1H
E 102L			P83-N P107B-22	30 8				.22 .12	NO NO		15 11		206C 206C
E 102R			P83-M P107B-21	30 8				.22 .12	NO NO		15 11		205C 205C

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 37 OF 74

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 103	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 103B	1		E117-B SHLD E103	52				.25 .25	NO NO				1H 1H
E 103L			P83-JJ P109B-2	30 10				.22 .12	NO NO		15 11		662A 662A
E 103R			P83-HH P109B-1	30 10				.22 .12	NO NO		15 11		661A 661A
E 104	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 104B	1		E115-B SHLD E104	50				.25 .25	NO NO				1H 1H
E 104L			P83-E P107B-16	30 8				.22 .12	NO NO		15 11		208C 208C
E 104R			P83-D P107B-15	30 8				.22 .12	NO NO		 11		207C 207C
E 105	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 105B	1		E115-B SHLD E105	50				.25 .25	NO NO				1H 1H
E 105L			P83-T P107B-12	30 8				.22 .12	NO NO		15 11		270F 270F
E 105R			P83-S P107B-11	30 8				.22 .12	NO NO		15 11		594C 594C

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 38 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 106	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 106B	1		E117-B SHLD E106	52				.25 .25	NO NO			1H 1H
E 106L			P83-J P109B-20	30 10				.22 .12	NO NO		15 11	959A 959A
E 106R			P83-H P109B-19	30 10				.22 .12	NO NO		15 11	958A 958A
E 107	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 107B	1		E108-B SHLD E107	44				.25 .25	NO NO			1H 1H
E 107L			P83-X* P104B-4	30 5				.22 .12	NO NO		15 11	204 204
E 107R			P83-W* P104B-3	30 5				.22 .12	NO NO		15 11	202A 202A
E 108	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 108B	1		E126B SHLD E108	60				.25 .25	NO NO			1H 1H
E 108L			P83-V P114B-12	30 15				.22 .12	NO NO		15 11	1235 1235
E 108R			P83-U P114B-11	30 15				.22 .12	NO NO		15 11	1234 1234

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 109	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 109B	1		E117-B SHLD E109	52				.25 .25	NO NO			1H 1H
E 109L			P83-G P109B-4	30 10				.22 .12	NO NO		15 11	584 584
E 109R			P83-F P109B-3	30 10				.22 .12	NO NO		15 11	583 583
E 110	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 110B	1		E110-B SHLD E110	44				.25 .25	NO NO			2 2
E 110L			P83-L P105B-4	30 6				.22 .12	NO NO		15 11	302 302
E 110R			P83-K P105B-3	30 6				.22 .12	NO NO		15 11	301 301
E 111	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 111B	1		E117-B SHLD E111	52				.25 .25	NO NO			1H 1H
E 111L			P83-R P109B-10	30 10				.22 .12	NO NO		15 11	617A 617A
E 111R			P83-P P109B-9	30 10				.22 .12	NO NO		15 11	616A 616A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 112	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 112B	1		E123-B SHLD E112	58				.25 .25	NO NO			2 2
E 112L			P83-E* P112B-20	30 13				.22 .12	NO NO		15 11	332 332
E 112R			P83-D* P112B-19	30 13				.22 .12	NO NO		15 11	331 331
E 113	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 113B	1		E123-B SHLD E113	58				.25 .25	NO NO			2 2
E 113L			P83-R* P112B-2	30 13				.22 .12	NO NO		15 11	330A 330A
E 113R			P83-P* P112B-1	30 13				.22 .12	NO NO		15 11	329 329
E 114	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 114B	1		E137-B SHLD E114	70				.25 .25	NO NO			2 2
E 114L			P84-V* J3-L	28 32				.22 .22	NO NO		15 15	48 48
E 114R			P84-U* J3-K	28 32				.22 .22	NO NO		15 15	47 47

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 115	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 115B	1		E125-B SHLD E115	59				.25 .25	NO NO			2 2
E 115L			P84-LL P114B-20	28 15				.22 .12	NO NO		15 11	1344 1344
E 115R			P84-KK P114B-19	28 15				.22 .12	NO NO		15 11	1343 1343
E 116	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 116B	1		E127-B SHLD E116	61				.25 .25	NO NO			1H 1H
E 116L			P84-NN P115B-2	28 16				.22 .12	NO NO		15 11	1346 1346
E 116R			P84-MM P115B-1	28 16				.22 .12	NO NO		15 11	1345 1345
E 117	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 117B	1		E138-B SHLD E117	69				.25 .25	NO NO			2 2
E 117L			P84-GG J4-L	28 31				.22 .22	NO NO		15 15	76 76
E 117R			P84-FF J4-K	28 31				.22 .22	NO NO		15 15	75 75

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 145	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 145B	1		E135-B SHLD E145	67				.25 .25	NO NO			1H 1H
F 145L			P85-NN P121B-10	29 22				.22 .12	NO NO		15 11	1366 1366
E 145R			P85-MM P121B-9	29 22				.22 .12	NO NO		15 11	1365 1365
E 146	2				2.25 2.25	2.00 2.00				A,7 B,6A	18 10, 9	
E 146B	1		E138-B SHLD E146	69				.25 .25	NO NO			2L 2L
E 146L			P85-GG J4-H	29 31				.22 .22	NO NO		15 15	74 74
E 146R			P85-FF J4-G	29 31				.22 .22	NO NO		15 15	73 73
E 147	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 147B	1		E103-B SHLD E147	40				.25 .25	NO NO			2L 2L
E 147L			P85-Z* P101B-28	29 2				.22 .12	NO NO		15 11	3440 3440
E 147R			P85-Y* P101B-27	29 2				.22 .12	NO NO		15 11	3430 3430

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR 3B	SHEET 51 OF 74

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 148	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 148B	1		E132-B SHLD E148	64				.25 .25	NO NO			1H 1H
E 148L			P85-R P118B-2	29 19				.22 .12	NO NO		15 11	1350 1350
E 148R			P85-P P118B-1	29 19				.22 .12	NO NO		15 11	1349 1349
E 149	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 149B	1		E132-B SHLD E149	64				.25 .25	NO NO			1H 1H
E 149L			P85-X P118B-20	29 19				.22 .12	NO NO		15 11	1352 1352
E 149R			P85-W P118B-19	29 19				.22 .12	NO NO		15 11	1351 1351
E 150	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 150B	1		E133-B SHLD E150	65				.25 .25	NO NO			2L 2L
E 150L			P85-J* P119B-20	29 20				.22 .12	NO NO		15 11	1358 1358
E 150R			P85-H* P119B-19	29 20				.22 .12	NO NO		15 11	1357 1357

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR 3B	SHEET 52 OF 74

WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 151	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 151B	1		E101-B SHLD E151	39				.25 .25	NO NO				2L 2L
E 151L			P85-X* P100B-28	29 1				.22 .12	NO NO		15 11		1500 1500
E 151R			P85-W* P100B-27	29 1				.22 .12	NO NO		15 11		1490 1490
E 152	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 152B	1		E126-B SHLD E152	60				.25 .25	NO NO				1H 1H
E 152L			P85-CC P114B-6	29 15				.22 .12	NO NO		15 11		1N 1N
E 152R			P85-BB P114B-5	29 15				.22 .12	NO NO		15 11		2730 2730
E 153	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 153B	1		E136-B SHLD E153	68				.25 .25	NO NO				2L 2L
E 153L			P85-T* P122B-28	29 23				.22 .12	NO NO		15 11		1362A 1362A
E 153R			P85-S* P122B-27	29 23				.22 .12	NO NO		15 11		1361A 1361A

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR 3B	SHEET 53 OF 74

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 154	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 154B	1		E110-B SHLD E154	44				.25 .25	NO NO			2L 2L
E 154L			P85-L P105B-18	29 6				.22 .12	NO NO		15 11	346 346
E 154R			P85-K P105B-17	29 6				.22 .12	NO NO		15 11	345 345
E 155	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 155B	1		E122-B SHLD E155	57				.25 .25	NO NO			1H 1H
E 155L			P85-T P111B-6	29 12				.22 .12	NO NO		15 11	195H 195H
E 155R			P85-S P111B-5	29 12				.22 .12	NO NO		15 11	221A 221A
E 156	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 156B	1		P117B-32 SHLD E156	18				.12 .25	NO NO		11	2L 2L
E 156L			P85-N* P117B-2	29 18				.22 .12	NO NO		15 11	328 328
E 156R			P85-M* P117B-1	29 18				.22 .12	NO NO		15 11	327 327

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR 3B	SHEET OF 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 157	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 157B	1		E108-B SHLD E157	44				.25 .25	NO NO			1 1
E 157L			P85-V P104B-28	29 5				.22 .12	NO NO		15 11	276 276
E 157R			P85-U P104B-27	29 5				.22 .12	NO NO		15 11	275 275
E 158	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 158B	1		P111B-31 SHLD E158	12				.12 .25	NO NO			1 1
→ E 158L			P85-N P111B-24	29 12				.22 .12	NO NO		15 11	1242 ← 1242
E 158R			P85-M P111B-23	29 12				.22 .12	NO NO		15 11	1241 1241
E 159	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 159B	1		E116-B SHLD E159	51				.25 .25	NO NO			2 2
E 159L			P85-E* P108B-22	29 9				.22 .12	NO NO		15 11	164 164
E 159R			P85-D* P108B-21	29 9				.22 .12	NO NO		15 11	163 163

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 55 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 160	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 160B	1		E105-B SHLD E160	41				.25 .25	NO NO			2 2
E 160L			P85-G* P102B-22	29 3				.22 .12	NO NO		15 11	346 346
E 160R			P85-F* P102B-21	29 3				.22 .12	NO NO		15 11	345 345
E 161	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 161B	1		E135-B SHLD E161	67				.25 .25	NO NO			1 1
→ E 161L			P85-EE P121B-4	29 22				.22 .12	NO NO		15 11	658 ← 658
E 161R			P85-DD P121B-3	29 22				.22 .12	NO NO		15 11	657 657
E 162	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 162B	1		E112-B SHLD E162	48				.25 .25	NO NO			2 2
E 162L			P85-C P106B-30	29 7				.22 .12	NO NO		15 11	130 130
E 162R			P85-B P106B-29	29 7				.22 .12	NO NO		15 11	129 129

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 56 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 163	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 163B	1		E112-B SHLD E163	48				.25 .25	NO NO			2 2
E 163L			P85-E P106B-22	29 7				.22 .12	NO NO		15 11	134 134
E 163R			P85-D P106B-21	29 7				.22 .12	NO NO		15 11	133 133
E 164	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 164B	1		E112-B SHLD E164	48				.25 .25	NO NO			2 2
→ E 164L			P85-G P106B-10	29 7				.22 .12	NO NO		15 11	96 ← 96
E 164R			P85-F P106B-9	29 7				.22 .12	NO NO		15 11	95 95
E 165	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 165B	1		E112-B SHLD E165	48				.25 .25	NO NO			2 2
E 165L			P85-J P106B-18	29 7				.22 .12	NO NO		15 11	166 166
E 165R			P85-H P106B-17	29 7				.22 .12	NO NO		15 11	165 165

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 57 OF 74

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 166	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 166B	1		E116-B SHLD E166	51				.25 .25	NO NO			2 2
E 166L			P85-C* P108B-10	29 9				.22 .12	NO NO		15 11	479 479
E 166R			P85-B* P108B-9	29 9				.22 .12	NO NO		15 11	478 478
E 167	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 167B	1		E135-B SHLD E167	67				.25 .25	NO NO			1 1
→ E 167L			P85-LL P121B-8	29 22				.22 .12	NO NO		15 11	1364 ← 1364
E 167R			P85-KK P121B-7	29 22				.22 .12	NO NO		15 11	1363 1363
E 168	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 168B	1		E105-B SHLD E168	41				.25 .25	NO NO			2 2
E 168L			P85-JJ P102B-4	29 3				.22 .12	NO NO		15 11	138 138
E 168R			P85-HH P102B-3	29 3				.22 .12	NO NO		15 11	137 137

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 58 OF 74

WIRING HARNESS E 2901198 +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 184	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 184B	1		E120-B SHLD E184	55				.25 .25	NO NO			2L 2L
E 184L			P86-G P110B-28	27 11				.22 .12	NO NO		15 11	294C 294C
E 184R			P86-F P110B-27	27 11				.22 .12	NO NO		15 11	293C 293C
E 185	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 185B	1		E122-B SHLD E185	57				.25 .25	NO NO			1H 1H
→ E 185L			P86-V P111B-4	27 12				.22 .12	NO NO		15 11	195 ← 195F
E 185R			P86-U P111B-3	27 12				.22 .12	NO NO		15 11	223C 223C
E 186	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 186B	1		E134-B SHLD E186	66				.25 .25	NO NO			2L 2L
E 186L			P86-V* P120B-22	27 21				.22 .12	NO NO		15 11	318E 318E
E 186R			P86-M* P120B-21	27 21				.22 .12	NO NO		15 11	317A 317A

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 63 OF 74

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WIRING HARNESS E 2901198 +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 187	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 187B	1		E120-B SHLD E187	55				.25 .25	NO NO			2L 2L
E 187L			P86-C P110B-12	27 11				.22 .12	NO NO		15 11	140C 140C
E 187R			P86-B P110B-11	27 11				.22 .12	NO NO		15 11	139C 139C
E 188	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 188B	1		E120-B SHLD E188	55				.25 .25	NO NO			2L 2L
→ E 188L			P86-J P110B-4	27 11				.22 .12	NO NO		15 11	108C ← 108C
E 188R			P86-H P110B-3	27 11				.22 .12	NO NO		15 11	107C 107C
E 189	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 189B	1		E108-B SHLD E189	44				.25 .25	NO NO			1H 1H
E 189L			P86-C* P104B-14	27 5				.22 .12	NO NO		15 11	189C 189C
E 189R			P86-B* P104B-13	27 5				.22 .12	NO NO		15 11	188C 188C

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 64 OF 74

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WIRING HARNESS E 2901198 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
E 190	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 190B	1		E108-B SHLD E190	44				.25 .25	NO NO				1H 1H
E 190L			P86-E* P104B-16	27 5				.22 .12	NO NO		15 11		194D 194D
E 190R			P86-D* P104B-15	27 5				.22 .12	NO NO		15 11		192C 192C
E 191	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 191B	1		E135-B SHLD E191	67				.25 .25	NO NO				1H 1H
→ E 191L			P86-EE P121B-14	27 22				.22 .12	NO NO		15 11		652B ← 652B
E 191R			P86-DD P121B-13	27 22				.22 .12	NO NO		15 11		651B 651B
E 192	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9		
E 192B	1		E115-B SHLD E192	50				.25 .25	NO NO				1H 1H
E 192L			P86-R P107B-18	27 8				.22 .12	NO NO		15 11		270D 270D
E 192R			P86-P P107B-17	27 8				.22 .12	NO NO		15 11		596C 596C

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 65 OF 74

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WIRING HARNESS E 2901198 +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 193	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 193B	1		E115-B SHLD E193	50				.25 .25	NO NO			1H 1H
E 193L			P86-T P107B-10	27 8				.22 .12	NO NO		15 11	210C 210C
E 193R			P86-S P107B-9	27 8				.22 .12	NO NO		15 11	209C 209C
E 194	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 194B	1		E134-B SHLD E194	66				.25 .25	NO NO			2L 2L
→ E 194L			P86-R* P120B-26	27 21				.22 .12	NO NO		15 11	334B ← 334B
E 194R			P86-P* P120B-25	27 21				.22 .12	NO NO		15 11	333E 333E
E 195	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 195B	1		E118-B SHLD E195	53				.25 .25	NO NO			2L 2L
E 195L			P86-E P109B-12	27 10				.22 .12	NO NO		15 11	284A 284A
E 195R			P86-D P109B-11	27 10				.22 .12	NO NO		15 11	283A 283A

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR ~~3~~ B	SHEET 66 OF 74

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WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 196	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 196B	1		E117-B SHLD E196	52				.25 .25	NO NO			1 1
E 196L			P86-N P1098-16	27 10				.22 .12	NO NO		15 11	611 611
E 196R			P86-M P1098-15	27 10				.22 .12	NO NO		15 11	610 610
E 197	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 197B	1		E105-B SHLD E197	41				.25 .25	NO NO			2 2
E 197L			P86-J* P1028-18	27 3				.22 .12	NO NO		15 11	1256 1256
E 197R			P86-H* P1028-17	27 3				.22 .12	NO NO		15 11	1255 1255
E 198	1		P86-Z P1228-19	27 23				.22 .12	NO NO		15 11	1411 1411
E 199	1		P86-Y P1228-20	27 23				.22 .12	NO NO		15 11	1412 1412
E 200	1		P86-K* P1228-21	27 23				.22 .12	NO NO		15 11	1413 1413
E 201	1		P86-I* P1228-22	27 23				.22 .12	NO NO		15 11	1414 1414

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 67 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 202	2				2.25 4.00	2.00 3.75				A,7 B,6A	18 10, 9	
E 202B	1		E101-B SHLD E202	39				.25 .25	NO NO			2 2
E 202L			P86-L P1008-18	27 1				.22 .12	NO NO		15 11	1327 1327
E 202R			P86-K P1008-17	27 1				.22 .12	NO NO		15 11	1326 1326
E 210	16		E100-BB P1008-31	38 1				.25 .12	NO NO		 11	1 1
E 211	16		E101-BB P1008-32	39 1				.25 .12	NO NO		 11	2 2
E 213	16		E103-BB P1018-32	40 2				.25 .12	NO NO		 11	2 2
E 215	16		E105-BB P1028-32	41 3				.25 .12	NO NO			2 2
E 216	16		E106-BB P1038-32	42 4				.25 .12	NO NO		 11	2 2
E 217	16		E107-BB P1038-31	43 4				.25 .12	NO NO		 11	1 1
E 218	16		E108-BB P1048-31	44 5				.25 .12	NO NO		 11	1 1
E 219	16		E109-BB P1048-32	45 5				.25 .12	NO NO		 11	2 2

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 68 OF 74

MIL 2084 9-65

WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 220	16		E110-BB P1058-32	44 6				.25 .12	NO NO		 11	2 2
E 221	16		E111-BB P1058-31	47 6				.25 .12	NO NO		 11	1 1
E 222	16		E112-BB P1063-32	48 7				.25 .12	NO NO		 11	2 2
E 224	16		E114-BB P1078-32	49 8				.25 .12	NO NO		 11	2 2
E 225	16		E115-BB P1078-31	50 8				.25 .12	NO NO		 11	1 1
E 226	16		E116-BB P1088-32	51 9				.25 .12	NO NO		 11	2 2
E 227	16		E117-BB P1098-31	52 10				.25 .12	NO NO		 11	1 1
E 228	16		E118-BB P1098-32	53 10				.25 .12	NO NO		 11	2 2
E 229	16		E119-BB P1108-31	54 11				.25 .12	NO NO		 11	1 1
E 230	16		E120-BB P1108-32	55 11				.25 .12	NO NO		 11	2 2
E 231	16		E121-BB P1118-32	56 12				.25 .12	NO NO		 11	2 2
E 232	16		E122-BB P1118-31	57 12				.25 .12	NO NO		 40	1 1

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 69 OF 74

MIL 2084 9-65

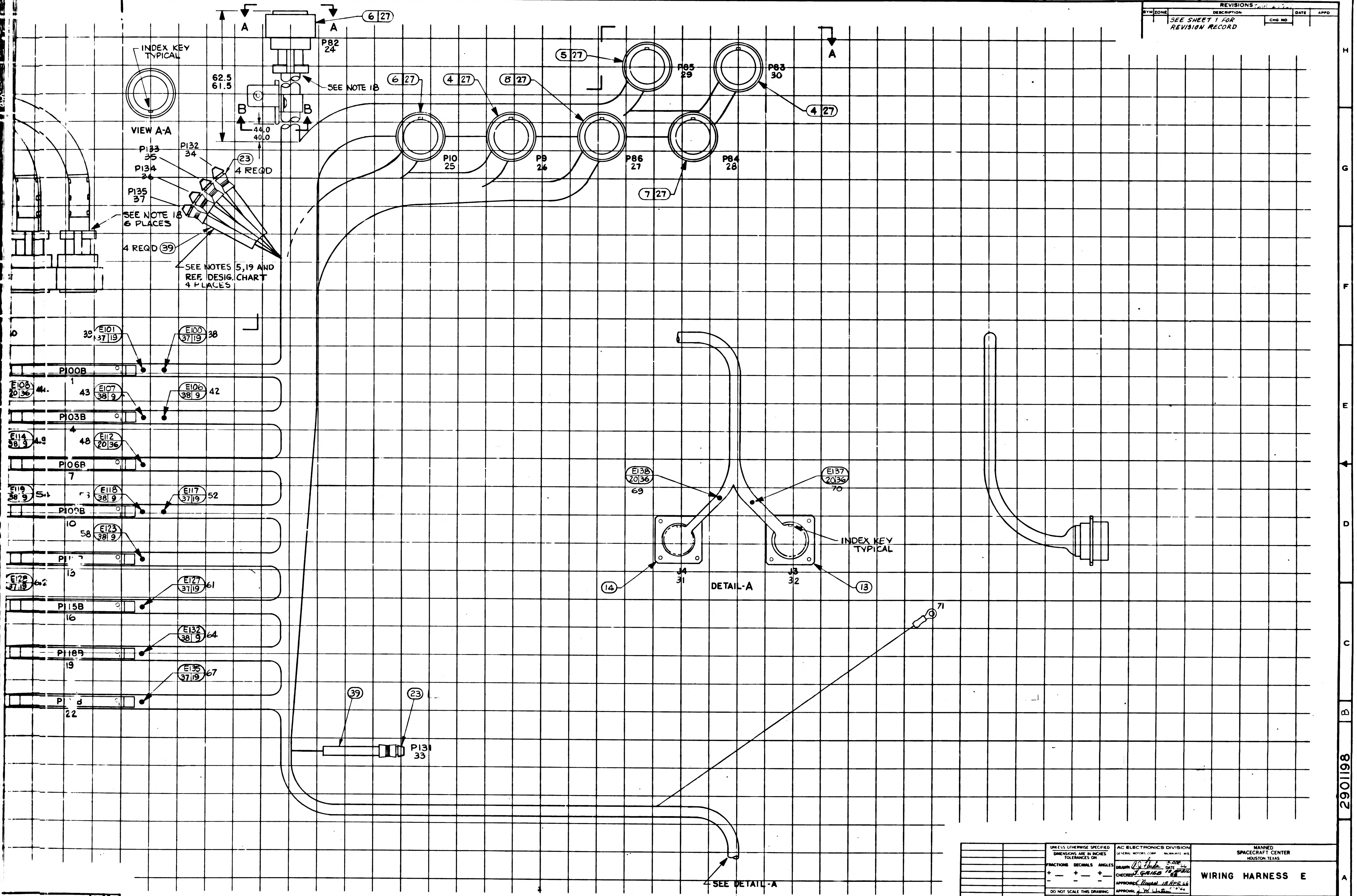
WIRING HARNESS E 2901198

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 233	16		E123-BB P1128-32	58 13				.25 .12	NO NO		 11	2 2
E 235	16		E125-BB P1148-32	59 15				.25 .12	NO NO		 11	2 2
E 236	16		E126-BB P1148-31	60 15				.25 .12	NO NO		 11	1 1
E 237	16		E127-BB P1158-31	61 16				.25 .12	NO NJ		 11	1 1
E 238	16		E128-BB P1168-32	62 17				.25 .12	NO NO		 11	2 2
E 239	16		E129-BB P1168-31	63 17				.25 .12	NO NO		 11	1 1
E 242	16		E132-BB P1188-31	64 19				.25 .12	NO NO		 11	1 1
E 243	16		E133-BB P1198-32	65 20				.25 .12	NO NO		 11	2 2
E 244	16		E134-BB P1208-32	66 21				.25 .12	NO NO		 11	2 2
E 245	16		E135-BB P1218-31	67 22				.25 .12	NO NO		 11	1 1
E 246	16		E136-BB P1228-32	68 23				.25 .12	NO NO		 11	2 2
E 247	16		E137-BB E123-BB	70 58				.25 .25	NO NO			2 2

SIZE	CODE IDENT NO.	
A	99974	2901198
SCALE-NONE	REV LTR B	SHEET 70 OF 74

MIL 2084 9-65

SYM	ZONE	REVISIONS DESCRIPTION		DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD	CHG NO		



8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
INDEX KEY TYPICAL
VIEW A-A
A
A
6 27
P82
24
62.5
61.5
SEE NOTE 18
B
B
44.0
40.0
P132
34
P133
35
P134
36
P135
37
23
4 REQD
SEE NOTE 18
6 PLACES
4 REQD 39
SEE NOTES 5,19 AND REF. DESIG. CHART 4 PLACES
5 27
P85
29
P83
30
A
6 27
4 27
8 27
4 27
P10
25
P9
26
P86
27
P84
28
7 27
39 E101 37 19
E100 37 19 38
P100B
1
E108 20 36 44
43 E107 38 9
E106 38 9 42
P103B
4
E114 38 9 49
48 E112 20 36
P106B
7
E119 38 9 54
53 E118 38 9
E117 37 19 52
P109B
10
58 E123 38 9
P112B
13
E128 37 19 62
E127 37 19 61
P115B
16
E132 38 9 64
P118B
19
E135 37 19 67
P121B
22
E138 20 36
69
E137 20 36
70
INDEX KEY TYPICAL
14
J4
31
DETAIL-A
J3
32
13
71
39
23
P131
33
SEE DETAIL-A
2901198

2901198 REV LTR SH 74

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS9-497

NEXT ASSY | USED ON
APPLICATION

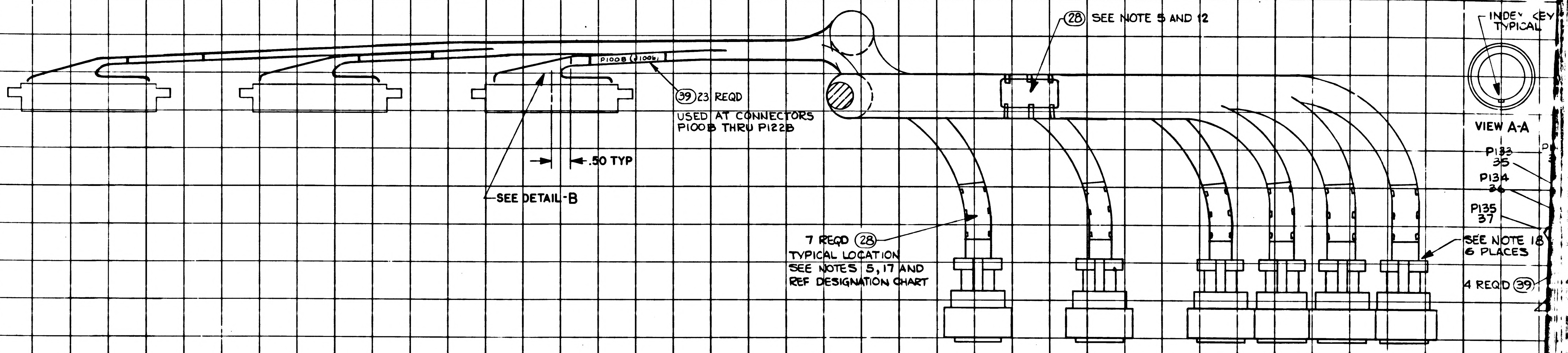
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN D.J. Fluder DATE 5 APR. 66
CHECKED J. GRIEB 18 APRIL 66
APPROVAL L. Noyes 18 APR 66
APPROVAL J. M. Watson 5-6-66
NASA APPROVAL
MIT APPROVAL 5.2.66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS E

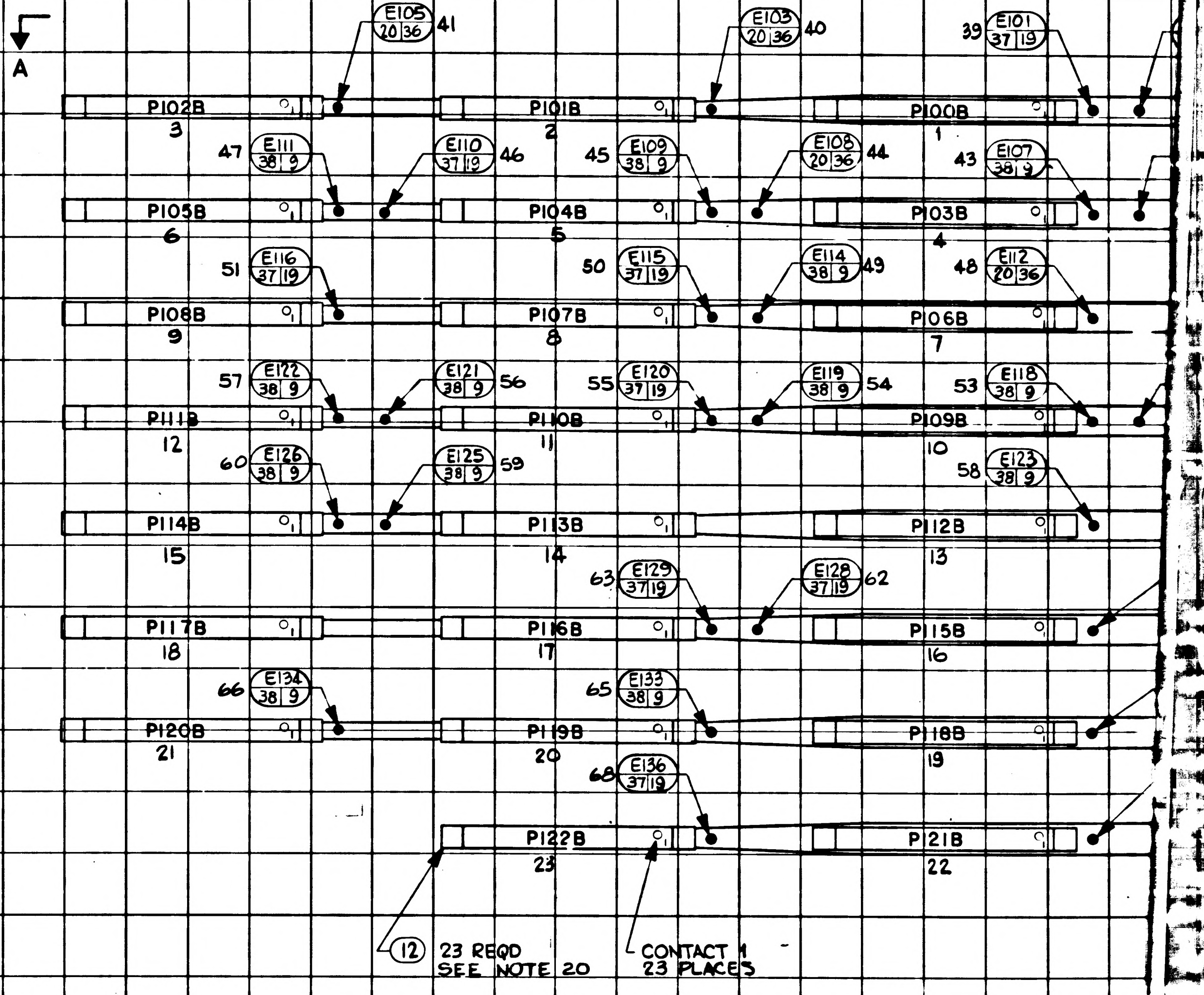
CODE IDENT NO 99974
SIZE J2
2901198
SCALE FULL
SHEET 74 OF 74

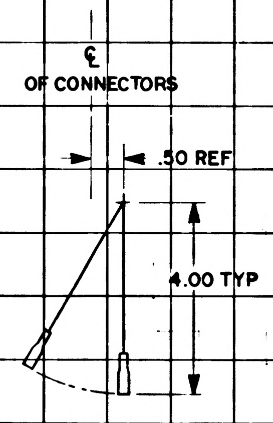
27 2901198


P100B (J100B)
(39) 23 REQD
USED AT CONNECTORS
P100B THRU P122B
.50 TYP
SEE DETAIL-B
(28) SEE NOTE 5 AND 12
7 REQD (28)
TYPICAL LOCATION
SEE NOTES 5, 17 AND
REF DESIGNATION CHART
INDEX KEY
TYPICAL
P133
35
P134
36
P135
37
SEE NOTE 18
6 PLACES
4 REQD (39)

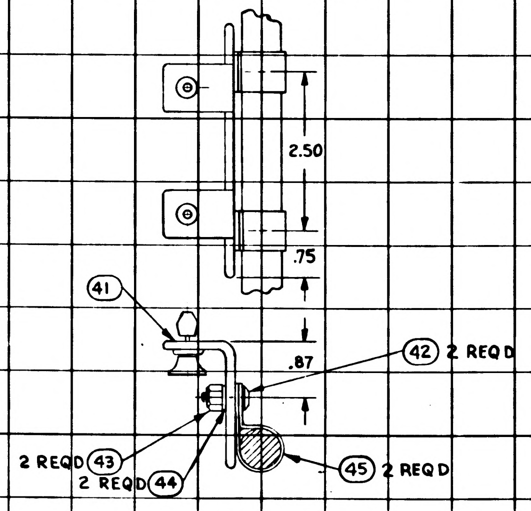
VIEW A-A

SECTION A-A


A
E105 20 36 41
E103 20 36 40
39 E101 37 19
P102B
3
P101B
2
P100B
1
47 E111 38 9
E110 37 19 46
45 E109 38 9
E108 20 36 44
43 E107 38 9
P105B
6
P104B
5
P103B
4
51 E116 37 19
50 E115 37 19
E114 38 9 49
48 E112 20 36
P108B
9
P107B
8
P106B
7
57 E122 38 9
E121 38 9 56
55 E120 37 19
E119 38 9 54
53 E118 38 9
P111B
12
P110B
11
P109B
10
60 E126 38 9
E125 38 9 59
58 E123 38 9
P114B
15
P113B
14
P112B
13
63 E129 37 19
E128 37 19 62
P117B
18
P116B
17
P115B
16
66 E134 38 9
65 E133 38 9
P120B
21
P119B
20
P118B
19
68 E136 37 19
P122B
23
P121B
22
(12) 23 REQD
SEE NOTE 20
CONTACT 1
23 PLACES


℄
OF CONNECTORS
.50 REF
4.00 TYP

DETAIL-B


2.50
.75
.87
(41)
(42) 2 REQD
2 REQD (43)
2 REQD (44)
(45) 2 REQD

SECTION B-B

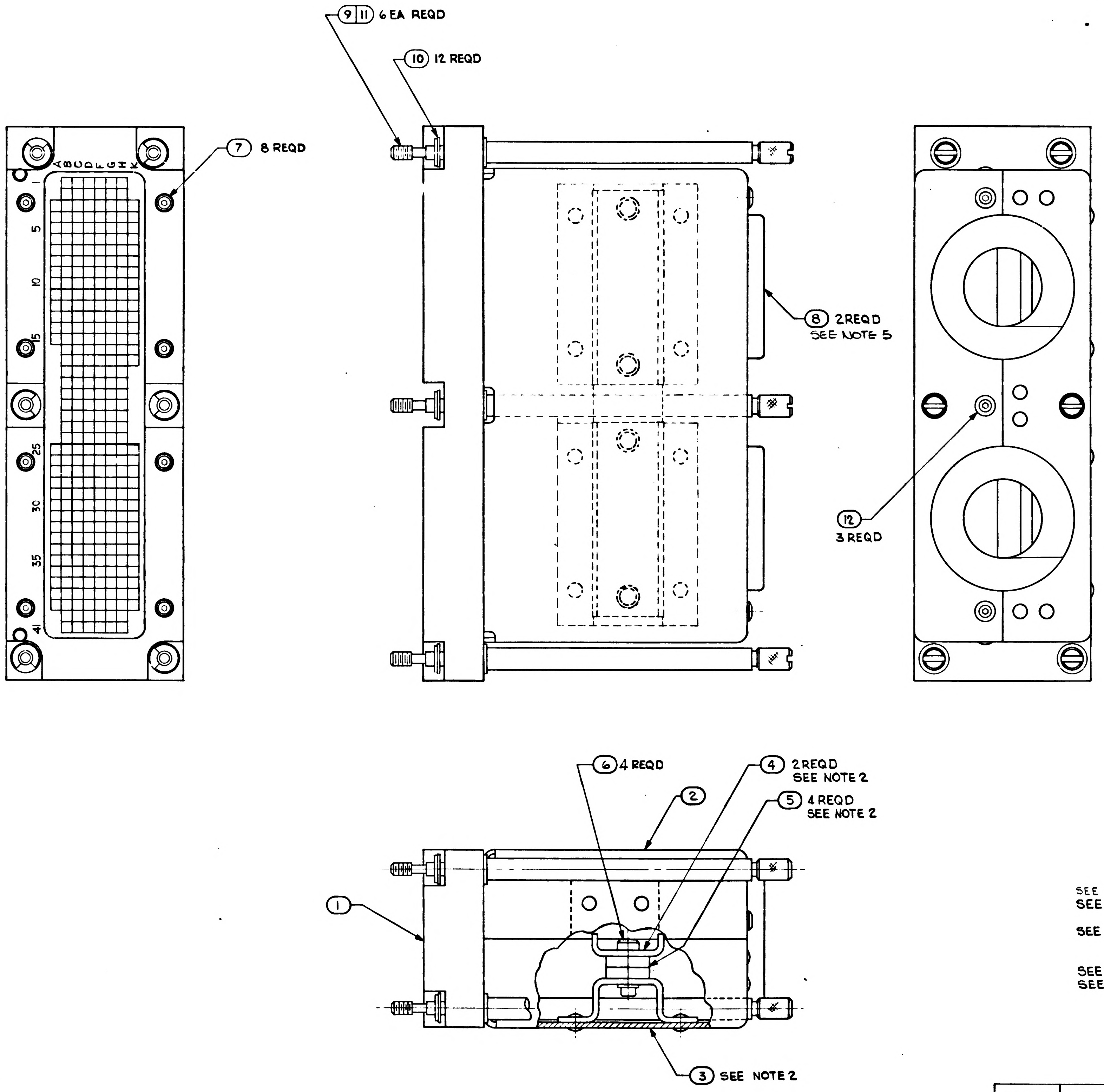
REFERENCE DESIGNATION CHART

CONNECTOR	MARKING DATA
P9	P9 (A26J6)
P10	P10 (A26J7)
P82	P82 (A26J1)
P83	P83 (A26J2)
P84	P84 (A26J3)
P85	P85 (A26J4)
P86	P86 (A26J5)
P100B	P100B (J100B)
P101B	P101B (J101B)
P102B	P102B (J102B)
P103B	P103B (J103B)
P104B	P104B (J104B)
P105B	P105B (J105B)
P106B	P106B (J106B)
P107B	P107B (J107B)
P108B	P108B (J108B)
P109B	P109B (J109B)
P110B	P110B (J110B)
P111B	P111B (J111B)
P112B	P112B (J112B)
P113B	P113B (J113B)
P114B	P114B (J114B)
P115B	P115B (J115B)
P116B	P116B (J116B)
P117B	P117B (J117B)
P118B	P118B (J118B)
P119B	P119B (J119B)
P120B	P120B (J120B)
P121B	P121B (J121B)
P122B	P122B (J122B)
P131	P131 (J131)
P132	P132 (J132)
P133	P133 (J133)
P134	P134 (J134)
P135	P135 (J135)

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND 2 EACH OF ITEM ⑤ TO ITEMS ③ AND ④ PER ND 1002151, USING ITEMS ⑬ ⑭
3. VENDOR ITEM – SEE SPECIFICATION CONTROL DRAWING.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (E8267).
5. SPLIT ITEM ⑧ PER MS 35489.

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	REVISED PER MXC-209668	8-MAR-66	B CW
	B	REVISED PER MXC-210067	16-MAR-66	B
	C	INITIAL RELEASE CLASS A PER TDRR 28004	2 MAY 66	RP EF



	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	AR		14	MIL-A-25457	ADHESIVE, SILICONE
SEE NOTE 3	AR		13	1010718	PRIMER ADHESIVE
SEE NOTE 3	3		12	1006783-19	SCREW, BUTTON HEAD
	6		11	MS16633-4015	RING, RETAINING "E"
SEE NOTE 3	12		10	1897324-002	WASHER, FLAT
	6		9	2900676-002	SCREW, JACK
	2		8	MS35489-22	GROMMET, RUBBER
SEE NOTE 3	8		7	1017418-11	SCREW, CAP, SOC. HD.
SEE NOTE 3	4		6	2901022-004	SCREW, SHOULDER
	4		5	2900580-003	GASKET
	2		4	2900711-003	CLAMP, MOVABLE
	1		3	2900852	SHELL, CLAMP (INSEP ASSY)
	1		2	2900853	SHELL, COVER (INSEP ASSY)
	1		1	2901201	BASE, CONNECTOR

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901060	2901076-011	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
Contract NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN R. W. Turner DATE 9 FEB 66
CHECKED 10 FEB 66
APPROVAL R. Foss 11 FEB 66
APPROVAL L. Yedman 5/3/66
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR, PLUG, ELECTRICAL - 304 PIN

CODE IDENT NO. 99974
SIZE E
2901200
SCALE 2:1
SHEET OF

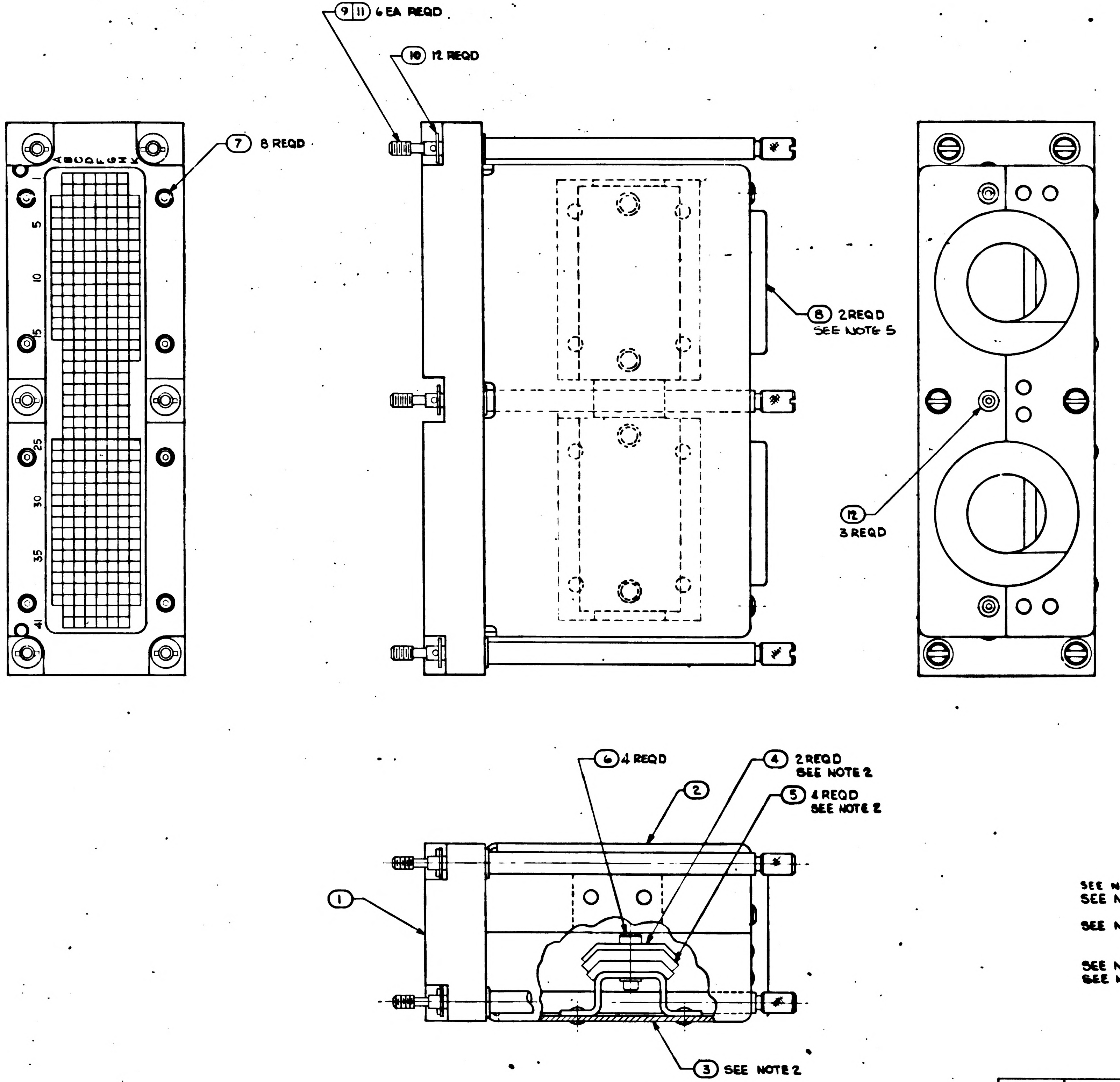
11 FEB 66

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	REVISED PER MXC-209668	8-MAR-66	B. CW
	B	REVISED PER MXC-210067	16-MAR-66	B. CW
	C	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	RP CF
	D	REVISED PER TDRR 33264	28 MAR 67	WRG RCB

Ⓜ

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. BOND 2 EACH OF ITEM ⑤ TO ITEMS ③ AND ④ PER ND 1002151, USING ITEM ⑬.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (E8267).
5. SPLIT ITEM ⑧ PER MS35489.



	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
				~~AR~~		~~14~~	~~MIL-A-25457~~	~~ADHESIVE, SILICONE~~
SEE NOTE 3				AR		13	MIL-A-5092	TYPE II, ADHESIVE
SEE NOTE 3				3		12	1006783-19	SCREW, BUTTON HEAD
				6		11	MS171433	PIN
SEE NOTE 3				12		10	1897324-002	WASHER, FLAT
				6		9	2901508	SCREW, EXT. RELIEVED BODY
				2		8	MS35489-22	GROMMET, RUBBER
SEE NOTE 3				8		7	1017418-11	SCREW, CAP, SOC. HD.
SEE NOTE 3				4		6	2901022-004	SCREW, SHOULDER
				4		5	2901590-003	GASKET
				2		4	2901591-003	CLAMP, MOVABLE
				1		3	2900852	SHELL, CLAMP (INSEP ASSY)
				1		2	2900853	SHELL, COVER (INSEP ASSY)
				1		1	2901201	BASE, CONNECTOR

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901060	2901076-011	-011
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
Contract NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN R. W. Turner DATE 9 FEB 66
CHECKED J. Kum 10 FEB 66
APPROVAL R. Fong 11 FEB 66
APPROVAL L. Wiseman
NASA APPROVAL A. E. M
MIT APPROVAL McMurdy 6-10-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR, PLUG,
ELECTRICAL - 304 PIN

CODE IDENT NO. 99974
SIZE E
2901200
SCALE 2:1
SHEET OF

11 FEB 66

S801500

2901200

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2900712-031	2900712-031	A	INITIAL RELEASE CLASS A PER TDRR 28757	4 MAY 66	LK CP

Charleston 22FEB66

REV																
SHEET																
REV STATUS	REV			A	A	A	A	A	A	A	A	A	A	A	A	A	A
OF SHEETS	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Hetchler DATE 14 FEB 66
CHECKED RwHogue 22 FEB 66
APPROVAL C W. Wise 22 FEB 66
APPROVAL J. M. Walson 5-5-66

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL-W148

NASA APPROVAL
MIT APPROVAL 5/2-66

CODE IDENT NO. 99974

SIZE A

2901212

REV A

CONTRACT NAS9-497

SCALE —

SHEET 1 OF 14

NOTE NUMBER GENERAL NOTES DESCRIPTION

NOTE NUMBER	DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER A - ND1002071 B - ND1002032
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND 1002019.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 11 OR ITEMS 12 AND 13.
7	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019
8	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
9	SECURE TO CABLE USING ITEM 10, MARKING TO READ AWAY FROM CONNECTOR
10	SERIALIZE PER ND 1002023.
11	MARK IDENTIFICATION BANDS AS NOTED ON DRAWING, PER ND1002019. CENTRALIZE.
12	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 9 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.
13	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER. A - FROM END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER
14	ASSEMBLE PER ND1002032

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 2 OF 14

NOTE NUMBER GENERAL NOTES DESCRIPTION

15 E POINTS MAY BE IN RANDOM ORDER AND STAGGERED WITHIN THIS AREA TO REDUCE BULK.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FEET	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 3 OF 14

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901212-001	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG, WHT., 204 FT. TOTAL LENGTH
	2	1	2901212-002	WIRE, ND1002181, TYPE 1, CLASS 1, 20AWG, WHT., 23 FT. TOTAL LENGTH
	3	1	1897232-231	CONNECTOR, PLUG
5	4	2	1016006-002	SPLICE REDUCER
5	5	7	1010490-258	INSULATION SLEEVING
5	6	2	1016128-041	BAND, IDENTIFICATION
5	7	1	1016128-011	BAND, IDENTIFICATION
5	8	49	1015864-232	INSULATION SLEEVING
	9	AR	MIL-I-631	FILLER TAPE, TYPE F FORM T (BLACK), GRADE A CLASS 2 .62 WIDE, .02 THICK.
	10	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK (ES2732 NO. 18)
	11	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	12	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	13	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	14	1	2901212-003	ZIPPER TUBING, ND1002155, TYPE I, GRAY, 1.00 DIA., 6 FT. TOTAL LENGTH
5	15	4	1016006-003	SPLICE REDUCER

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 4 OF 14

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	6	1010490-256	INSULATION SLEEVE
5	17	49	1897300-001	MINIATURE SPRING SOCKET
	23	1	2900877-011	CONNECTOR, PLUG, ELECTRICAL
5	26	1	1016006-004	SPLICE REDUCER
5	27	2	1010490-342	INSULATION SLEEVING
	28	1	2901212-004	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 20AWG, WHT/BLU,WHT/RED, 5 FT 6 IN. TOTAL LENGTH
	29	1	2901212-005	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 12 INCHES TOTAL LENGTH
5	30	2	1010763- 2	SOLDER SLEEVE
5	31	2	1010490-226	INSULATION SLEEVING, ELEC
5	32	2	1010490-228	INSULATION SLEEVING, ELEC
5	33	3	1016006-001	SPLICE REDUCER
5	34	1	1016006-006	SPLICE REDUCER
5	35	1	1016282- 24	GROMMET

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 5 OF 14

CABLE ASSEMBLY W148 2901212 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-A E1-B					.28 .38	YES NO			
A 2	1		P1-E E1-B					.28 .38	YES NO			
A 3	2		E1-B P2-A6					.38 .18	NO NO		17	
A 4	1		P1-B E2-B					.28 .50	YES NO			
A 5	1		P1-G E2-B					.28 .50	YES NO			
A 6	1		P1-J E2-B					.28 .50	YES NO			
A 7	1		P1-E* E2-B					.28 .50	YES NO			
A 8	1		P1-Y* E2-B					.28 .50	YES NO			
A 9	2		E2-BB P2-B8					.50 .18	NO NO		17	
A 10	2		E2-BB P2-B9					.50 .18	NO NO		17	
A 11	2		E2-BB P2-C8					.50 .18	NO NO		17	
A 12	2		E2-BB P2-C9					.50 .18	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 6 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W148 2901212 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-H E3-B					.28 .38	YES NO			
A 14	1		P1-F E3-B					.28 .38	YES NO			
A 15	2		E3-BB P2-F7					.38 .18	NO NO		17	
A 16	1		P1-C E1-B					.28 .38	YES NO			
A 17	1		P1-D E2-B					.28 .50	YES NO			
A 18	1		P1-Q E4-B					.28 .38	YES NO			
A 19	1		P1-S E4-B					.28 .38	YES NO			
A 20	2		E4-B P2-B3					.38 .18	NO NO		17	
A 21	1		P1-R E5-B					.28 .38	YES NO			
A 22	1		P1-T E5-B					.28 .38	YES NO			
A 23	1		P1-N* E5-B					.28 .38	YES NO			
A 24	2		E5-B P2-B1					.38 .18	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 7 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W148 2901212 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	2		E5-BB P2-C1					.38 .18	NO NO		17	
A 26	2		E1-B P2-A7					.38 .18	YES NO		17	
A 27	2		E1-B P2-B6					.38 .18	NO NO		17	
A 28	1		P1-N E2-B					.28 .50	YES NO			
A 29	2		E1-B P2-B7					.38 .18	NO NO		17	
A 30	2		E1-BB P2-C6					.38 .18	YES NO		17	
A 31	1		P1-J* E2-B					.28 .38	NO NO			
A 32	1		P1-A* E7-B					.28 .50	YES NO			
A 33	1		P1-F* E7-B					.28 .50	YES NO			
A 34	2		E7-B P2-A4					.50 .18	NO NO		17	
A 35	1		P1-D* E7-B					.28 .50	YES NO			
A 36	2		E7-BB P2-A5					.50 .18	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 8 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W148 2901212 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-B* E2-B					.28 .50	YES NO			
A 38	2		E7-BB P2-A3					.50 .18	NO NO		17	
A 39	1		P1-H* E8-B					.28 .38	YES NO			
A 40	1		P1-G* E8-B					.28 .38	YES NO			
A 41	2		E8-B P2-F8					.38 .18	NO NO		17	
A 42	1		P1-M* E6-B					.28 .38	YES NO			
A 43	1		P1-P* E6-B					.28 .38	YES NO			
A 44	2		E6-B P2-B2					.38 .18	NO NO		17	
A 45	2		E1-BB P2-C7					.38 .18	NO NO		17	
A 46	2		E1-BB P2-D6					.38 .18	NO NO		17	
A 47	2		E2-BB P2-D7					.50 .18	NO NO		17	
A 48	2		E2-BB P2-D8					.50 .18	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901212
SCALE-NONE	REV LTR A	SHEET 9 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W148 2901212 ≠A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P1-C* P1-X*					.28 .28	YES YES			
A 50	1		P1-Z E11					.28 .38	YES NO			
A 51	2		E2-BB P2-D9					.50 .18	NO NO		17	
A 52	1		P1-Z* E12					.28 .38	YES NO			
A 53	2		E2-BB P2-F9					.50 .18	NO NO		17	
A 54	2		E3-BB P2-G7					.38 .18	NO NO		17	
A 55	2		E3-BB P2-H7					.38 .18	NO NO		17	
A 56	28				5.30 5.30	5.00 5.00				A,6A B,7	30, 32 31	
A 56A	29		SHLD A56 E10					.25 .38	NO NO			
A 56L			P1-W E13-B					.28 .18	NO NO			
A 56R			P1-V E14-B					.28 .18	NO NO			
A 57	2		E4-BB P2-C3					.38 .18	NO NO		17	

SIZE A | CODE IDENT NO. 99974 | 2901212
SCALE-NONE | REV LTR ≠A | SHEET 10 OF 14

CABLE ASSEMBLY W148 2901212 ≠A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 58	2		E4-BB P2-D3					.38 .18	NO NO		17	
A 59	2		E4-BB P2-F3					.38 .18	NO NO		17	
A 60	2		E5-BB P2-D1					.38 .18	NO NO		17	
A 61	2		E5-BB P2-F1					.38 .18	NO NO		17	
A 62	2		E6-BB P2-D2					.38 .18	NO NO		17	
A 63	2		E6-BB P2-C2					.38 .18	NO NO		17	
A 64	2		E6-BB P2-F2					.38 .18	NO NO		17	
A 65	28				3.30 3.30	3.00 3.00				A,6A B,7	30, 32 31	
A 65A	29		SHLD A65 E10-B					.25 .38	NO NO			
A 65L			P1-R* E15-B					.28 .18	NO NO			
A 65R			P1-Q* E16-B					.28 .18	NO NO			
A 66	1		E10-B P1-X					.38 .28	NO NO			

SIZE A | CODE IDENT NO. 99974 | 2901212
SCALE-NONE | REV LTR ≠A | SHEET 11 OF 14

CABLE ASSEMBLY W148 2901212 ≠A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67	2		E7-BB P2-B4					.50 .18	NO NO		17	
A 68	2		E7-BB P2-B5					.50 .18	NO NO		17	
A 69	2		E7-BB P2-C4					.50 .18	NO NO		17	
A 70	2		E7-BB P2-C5					.50 .18	NO NO		17	
A 71	2		E8-BB P2-G8					.38 .18	NO NO		17	
A 72	2		E8-BB P2-H8					.38 .18	NO NO		17	
A 73	2		E2-B P2-G9					.38 .18	NO NO		17	
A 74	2		E2-B P2-H9					.38 .18	NO NO		17	
A 75	2		E11 P2-F4					.38 .18	NO NO		17	
A 76	2		E12 P2-G3					.38 .18	NO NO		17	
A 77	2		E13-BB P2-H3					.38 .18	NO NO		17	
A 78	2		E14-BB P2-K3					.38 .18	NO NO		17	

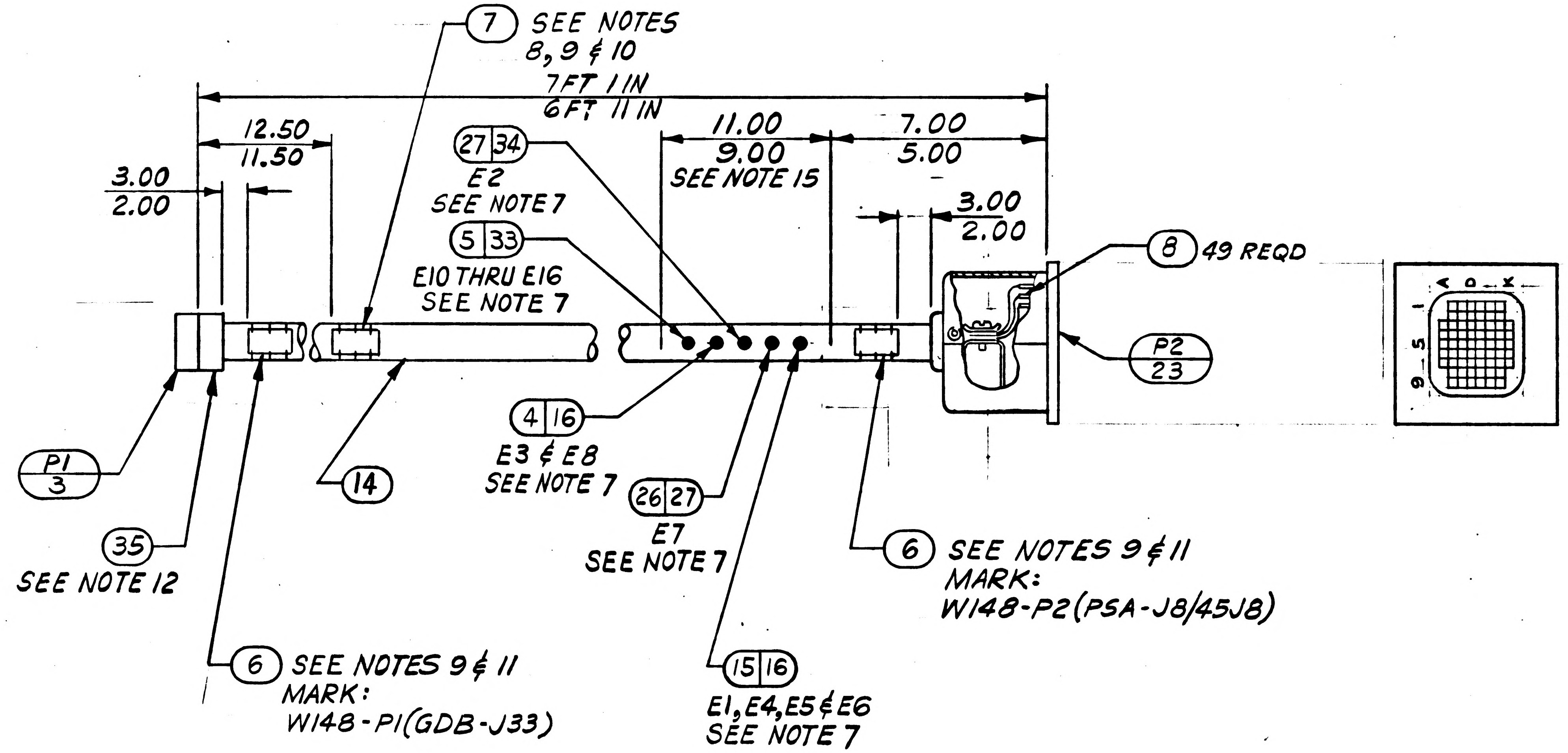
SIZE A | CODE IDENT NO. 99974 | 2901212
SCALE-NONE | REV LTR ≠A | SHEET 12 OF 14

CABLE ASSEMBLY W148 2901212 ≠A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79	2		E15-BB P2-K7					.38 .18	NO NO		17	
A 80	2		E16-BB P2-K6					.38 .18	NO NO		17	
A 81	2		P1-S* P2-F6					.28 .18	YES NO		17	

SIZE A | CODE IDENT NO. 99974 | 2901212
SCALE-NONE | REV LTR ≠A | SHEET 13 OF 14

REVISIONS TDRR 28759					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHT 1 FOR REVISION RECORD			


7
7FT 1IN
6FT 11IN
12.50
11.50
3.00
2.00
27 34
E2
5 33
E10 THRU E16
11.00
9.00
7.00
5.00
3.00
2.00
8
49 REQD
P2
23
P1
3
35
14
4 16
E3 & E8
26 27
E7
6
15 16
E1, E4, E5 & E6

7 SEE NOTES 8, 9 & 10

SEE NOTE 7

SEE NOTE 15

8 49 REQD

35 SEE NOTE 12

6 SEE NOTES 9 & 11 MARK: W148-P1(GDB-J33)

6 SEE NOTES 9 & 11 MARK: W148-P2(PSA-J8/45J8)

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

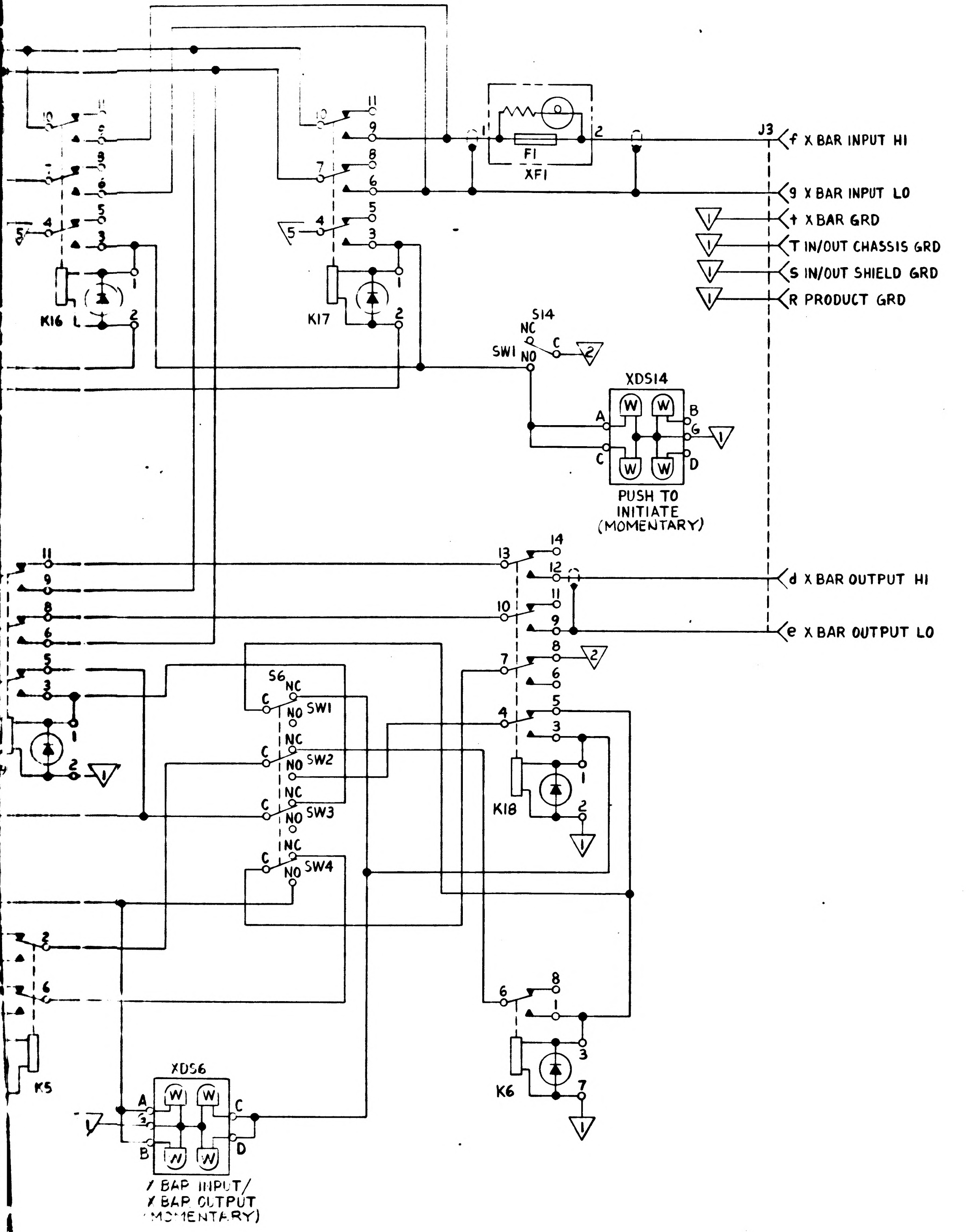
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Hitchler DATE 14 FEB 66
CHECKED R. W. Hogue 22 FEB 66
APPROVAL J. McWilliams 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5-12-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL - W148

SIZE C
CODE IDENT NO. 99974
2901212
SCALE NONE
SHEET 14 OF 14

MIL-10830 D



SH ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
1,B12	K8	1015802-004	RELAY	
2,F13	K9	1015802-004		
1,F10	K10	1015837-002		
1,F13	K11			
1,F12	K12			
1,F11	K13			
1,F14	K14	1015837-002		
2,F14	K15	1015914-001		
1,F9	K16	1015837-002		
1,F8	K17			
1,D8	K18			
1,D9	K19			
1▷	K20	1015837-002		
2,B13	K21	1015802-004		
2,B14	K22	1015837-002		
1,E14	K23	1015837-002	RELAY	
2,G15	PS1	1897211-005	POWER MODULE	
2,F15	PS2	1897396-001	POWER MODULE	
2,C10	R1	1015945-001	RESISTOR, VARIABLE	1K, 5W
1 G13	R2	1015945-001	RESISTOR, VARIABLE	1K, 5W
2,F15	R3	1897419-009	RESISTOR, VARIABLE	20K, 2W
1,D13	R4	RC32GF621J (1896953-058)	RESISTOR	620 Ω, 1W
2,F14	R5	RC20GF102J (1896952-049)	RESISTOR	1K, 1/2W
2,G7	S1	1015825-016	SWITCH, ROTARY	
2,D8	S2	1015825-016	SWITCH, ROTARY	
1,E10	S3	1897337-753	LIGHT-IND SWITCH ASSY	
1,D10	S4	-755		
2,E11	S5	-756		
1,D8	S6	-702		
1,E12	S7	-310		
1,D14	S8	-754		
2,D13	S9	-752		
2,B7	S10	-757		
2,B5	S11	-758		
2 B3	S12	-759		
2,B11	S13	-505		
1,F7	S14	1897337-308		
2,G11	S15	1015869-336		
2,E14	S16	1897337-309	LIGHT-IND SWITCH ASSY	
2,C2	T1	1897385	TRANSFORMER	
2,D6	XDS1	1015844-001	DIGITAL READOUT	
	XDS3	SEE S3		
	XDS4	SEE S4		
	XDS5	SEE S5		
	XDS6	SEE S6		
	XDS7	SEE S7		
	XDS8	SEE S8		
	XDS9	SEE S9		
	XDS10	SEE S10		
	XDS11	SEE S11		
	XDS12	SEE S12		
	XDS13	SEE S13		
	XDS14	SEE S14		
	XDS15	SEE S15		
	XDS16	SEE S16		
1,G8	XF1	1015873-001	FUSEHOLDER	
2,G14	XF2			
2,F14	XF3			
2,D15	XF4			
2,D15	XF5	1015873-001	FUSEHOLDER	

SH ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
1▷	A1	2901045-011	DC DETECTOR & AC AMP ASSY	2900953
2,C9	A2	2901046-011	AC AMPLIFIER ASSY	2900955
2,C12	B1	1897380	PHASE GENERATOR	800 CPS
2,B12	B2	1897381	PHASE GENERATOR	3200 CPS
1,D13	C1	CP09A1KB224K3 (1896960-012)	CAPACITOR	.22 uf ±10% 100V
2,G3	CR1	IN645 (1896966-004)	SEMICONDUCTOR	
2,G3	CR2			
2,G3	CR3			
2,F3	CR4			
2,F3	CR5			
2,F3	CR6			
2,F3	CR7			
2,F3	CR8			
2,F3	CR9			
2,F3	CR10			
2,E3	CR11			
2,E3	CR12			
2,E3	CR13			
2,E3	CR14			
2,E3	CR15			
2,E3	CR16			
2,D3	CR17			
2,D3	CR18			
2,D3	CR19			
2,D3	CR20			
2,F13	CR21	IN645 (1896966-004)	SEMICONDUCTOR	
2,D6	DS1	(20) MS25237-327	LAMP	
1,D11	DS3	(4) MS25237-327		
1,C11	DS4			
2,F11	DS5			
1,C9	DS6			
1,C12	DS7			
1,C13	DS8			
2,D14	DS9			
2,B8	DS10			
2,B6	DS11			
2,B4	DS12			
1 F7	DS14			
2,G11	DS15			
2,E12	DS16	(4) MS25237-327	LAMP	
1,G8	F1	F02A250V1A (1897099-009)	FUSE	1AMP
2,G14	F2	F02A250V3A (1897099-012)		3 AMP
2,F14	F3	F02A250V3A (1897099-012)		3 AMP
2,D15	F4	F02A250V1A (1897099-009)		1 AMP
2,D15	F5	F02A250V1A (1897099-009)	FUSE	1 AMP
1▷	J1	1015957-177	CONNECTOR, RECP	21 CONTACT
2,B9	J2	1015957-178	CONNECTOR, RECP	21 CONTACT
1▷	J3	MS3127E24-61SW (1897056-611)	CONNECTOR, RECP	61 SOCKET
2,G15	J4	MS3127E12-3P (1897119-030)	CONNECTOR, RECP	3 PIN
2,D15	J5	1897302-001	JACK, TIP-BANANA	
2,D15	J6	1897302-002	JACK, TIP-BANANA	
2,D15	J7	1897302-001	JACK, TIP-BANANA	
2,D15	J8	1897302-002	JACK, TIP-BANANA	
2,D15	J9	MS35180-909B (1896917-001)	CONNECTOR, RECP	2 CONTACT
2,C15	J10	1897302-001	JACK, TIP-BANANA	
2,C15	J11	-002		
2,C15	J12	-002		
2,C15	J13	-001		
2,C15	J14	-002		
2,C15	J15	-002		
2,C15	J16	-001		
2,C15	J17	-002		
2,B15	J18	-001		
2,B15	J19	1897302-002	JACK, TIP-BANANA	
2,F10	K1	1015802-004	RELAY	
2,F9	K2			
2,D10	K3			
2,D9	K4			
1,C9	K5			
1,C8	K6			
1,C12	K7	1015802-004	RELAY	

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER D.O. [illegible]		[illegible] 66	[illegible]
B		REVISED PER MXC 211982		2 MAY 66	JRC
C		INITIAL RELEASE CLASS A PER TDRR 28657		3 MAY 66	JHF

2901216
C

2900896-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN L Krahn DATE 14 MAR 66
CHECKED [illegible] 18 MAR 66
APPROVAL [illegible] 5/5/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
CONTROL PANEL ASSEMBLY

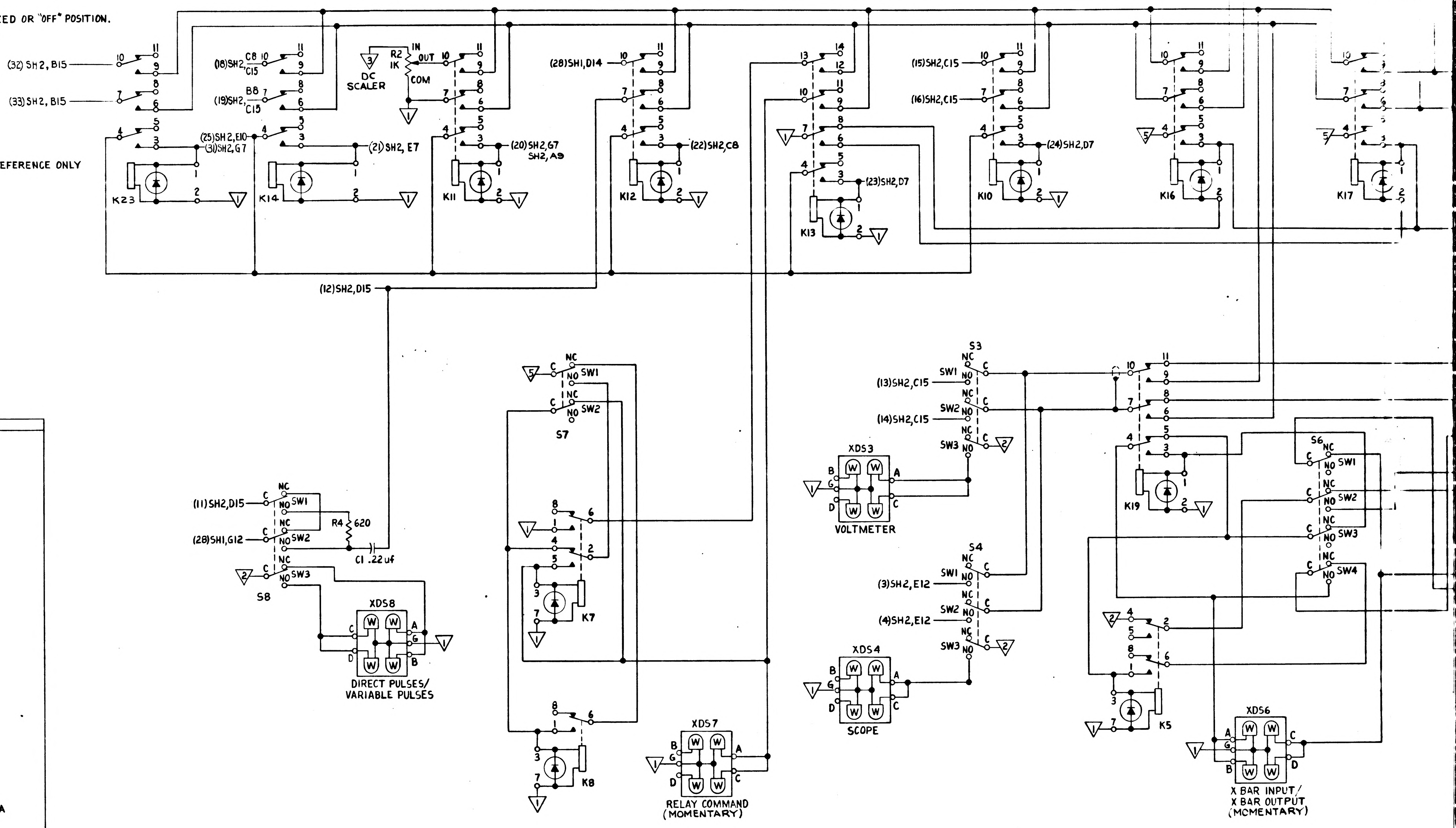
SIZE J2
CODE IDENT NO. 99974
2901216
SCALE —
SHEET 1 OF 2

2901216 C

27 2901216

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   2900896 ASSEMBLY
4. LAST NUMBER USED: ▽=5, ( )=33.
5. SPECIAL ABBREVIATIONS AND CODES:
   SHEET AND ZONE NUMBERS ARE ABBREVIATED SH__,___.
6. UNLESS OTHERWISE SPECIFIED:
   A. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   B. VALUES ARE IN OHMS & MICROFARADS.
7. SIGNAL DESCRIPTIONS:
   - ▽2 RELAY & LAMP POWER (HI)
   - ▽3 DC SCALER EXCITATION (HI)
   - ▽4 SHIELD GRD
   - ▽5 RELAY INTERLOCK
8. BARS PLACED OVER LETTERS ARE FOR REFERENCE ONLY AND SIGNIFY LOWER CASE.


(32) SH2, B15
(33) SH2, B15
K23
(18)SH2, C8 C15
(19)SH2, B8 C15
(25)SH2,E10
(31)SH2,G7
K14
(21) SH2, E7
R2 1K
IN OUT COM
DC SCALER
K11
(20)SH2,G7 SH2,A9
(28)SH1,D14
K12
(22)SH2,C8
K13
(23)SH2,D7
(15)SH2,C15
(16)SH2,C15
K10
(24)SH2,D7
K16
K17
(12)SH2,D15
(11)SH2,D15
(28)SH1,G12
S8
SW1 SW2 SW3
NC NO C
R4 620
C1 .22uf
XDS8
DIRECT PULSES/ VARIABLE PULSES
S7
K7
K8
XDS7
RELAY COMMAND (MOMENTARY)
S3
(13)SH2,C15
(14)SH2,C15
XDS3
VOLTMETER
S4
(3)SH2,E12
(4)SH2,E12
XDS4
SCOPE
K19
K5
S6
XDS6
X BAR INPUT/ X BAR OUTPUT (MOMENTARY)

▷1 SEPARATED SYMBOL LOCATION

REF DES	SHEET, ZONE
A1A, B	SH2-B10, SH2-F12
K20A,B,C	SH2-B14, SH2-C11, SH2-C8

UNUSED TERMINALS

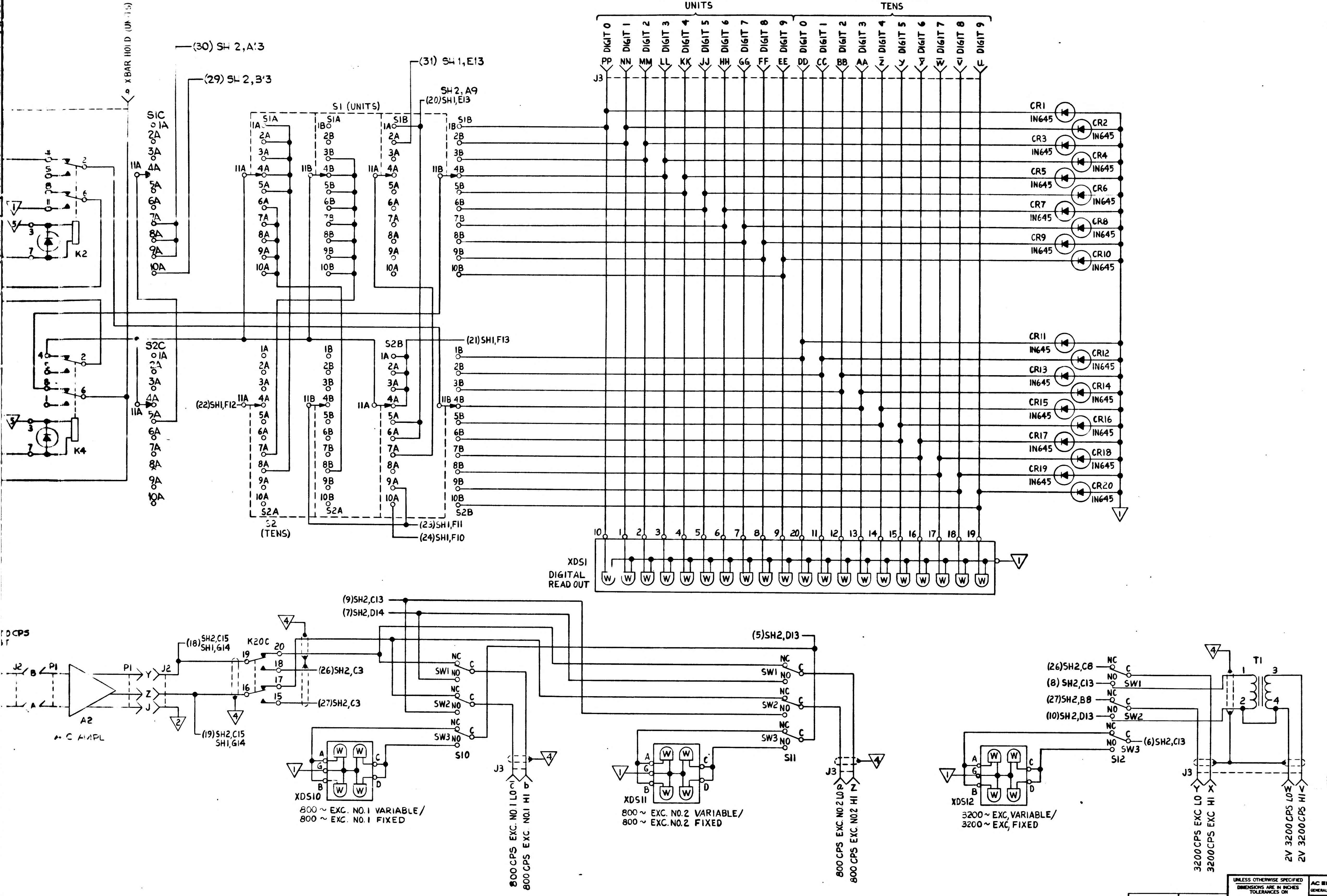
REF DES	TERMINAL NO.
DS3	B,D
DS4	B,D
DS7	B,D
DS14	B,D
DS15	B,D
DS16	B,D
J1	T,U,V,W,X
J2	C,D,E,F,H,K,L,M,P,R THRU X
J3	A THRU H
K1	2,4,5,8
K2	5,8
K3	4,8
K4	1,5
K5	5,8
K6	2,4,5,8
K7	8
K8	2,4,5,8
K9	2,4,5,8
K10	5,8, 11 THRU 20
K11	5,8, 11 THRU 20
K12	5,8, 11 THRU 20
K13	5,11,14 THRU 20
K14	5,8, 11 THRU 20
K15	7,8,14
K16	5,8, 11 THRU 20
K17	5,8, 11 THRU 20
K18	6,11,14 THRU 20
K19	12 THRU 20
K21	4
K22	12 THRU 20
K23	12 THRU 20
S1	S1A-1B & 2B, S1B-3A THRU 10A
S2	S2A-1A THRU 6A, 9A, 10A S2A-1B THRU 7B, 9B, 10B S2B-8A
S3	SW1 NC, SW2 NC, SW3 NC, SW4-C,NC,NO
S4	SW1 NC, SW2 NC, SW3 NC, SW4-C,NC,NO
S5	SW4-C, NC, NO
S6	SW1 NC, SW3 NO
S7	SW2 NO
S8	SW4-C, NC, NO
S9	SW4-C, NC, NO
S10	SW4-C, NC, NO
S	SW4-C, NC, NO
S12	SW4-C, NC, NO
S13	SW2-C, NC, NO
S14	SW1 NC, SW2-C, NC, NO
S15	SW1 NO, SW2-C, NC, NO
S18	SW2 NO

MIL 1077J

2901216 REV LTR C SHT 1

172901216

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER D.O. 61860		[illegible]	[illegible]
3		REVISED PER MXC 2,1982		[illegible]	[illegible]
C		INITIAL RELEASE CLASS A PER TDRR 28657		[illegible]	[illegible]


X BAR CONTROL UNITS
X BAR CONTROL TENS
DIGIT 0
DIGIT 1
DIGIT 2
DIGIT 3
DIGIT 4
DIGIT 5
DIGIT 6
DIGIT 7
DIGIT 8
DIGIT 9
PP
NN
MM
LL
KK
JJ
HH
GG
FF
EE
DD
CC
BB
AA
Z
Y
X
W
V
U
J3
X BAR 1101 D (UNITS)
(30) SH 2, A'3
(29) SH 2, 3'3
(31) SH 1, E13
SH 2, A9
(20) SH1, E13
S1 (UNITS)
S1C
S1A
S1B
S2C
S2A
S2B
S2 (TENS)
(21) SH1, F13
(22) SH1, F12
(23) SH1, F11
(24) SH1, F10
K2
K4
CR1 IN645
CR2 IN645
CR3 IN645
CR4 IN645
CR5 IN645
CR6 IN645
CR7 IN645
CR8 IN645
CR9 IN645
CR10 IN645
CR11 IN645
CR12 IN645
CR13 IN645
CR14 IN645
CR15 IN645
CR16 IN645
CR17 IN645
CR18 IN645
CR19 IN645
CR20 IN645
XDS1 DIGITAL READ OUT
(9) SH2, C13
(7) SH2, D14
(5) SH2, D13
(18) SH2, C15 SH1, G14
(19) SH2, C15 SH1, G14
K20C
(26) SH2, C3
(27) SH2, C3
A2
A-C AMPL
J2
P1
SW1
SW2
SW3
S10
S11
S12
XDS10
800 ~ EXC. NO. 1 VARIABLE/ 800 ~ EXC. NO. 1 FIXED
XDS11
800 ~ EXC. NO. 2 VARIABLE/ 800 ~ EXC. NO. 2 FIXED
XDS12
3200 ~ EXC. VARIABLE/ 3200 ~ EXC. FIXED
800 CPS EXC. NO 1 LO
800 CPS EXC NO 1 HI
800 CPS EXC. NO 2 LO
800 CPS EXC. NO 2 HI
(26) SH2, C8
(8) SH2, C13
(27) SH2, B8
(10) SH2, D13
(6) SH2, C13
T1
3200 CPS EXC LO
3200 CPS EXC HI
2V 3200 CPS LO
2V 3200 CPS HI

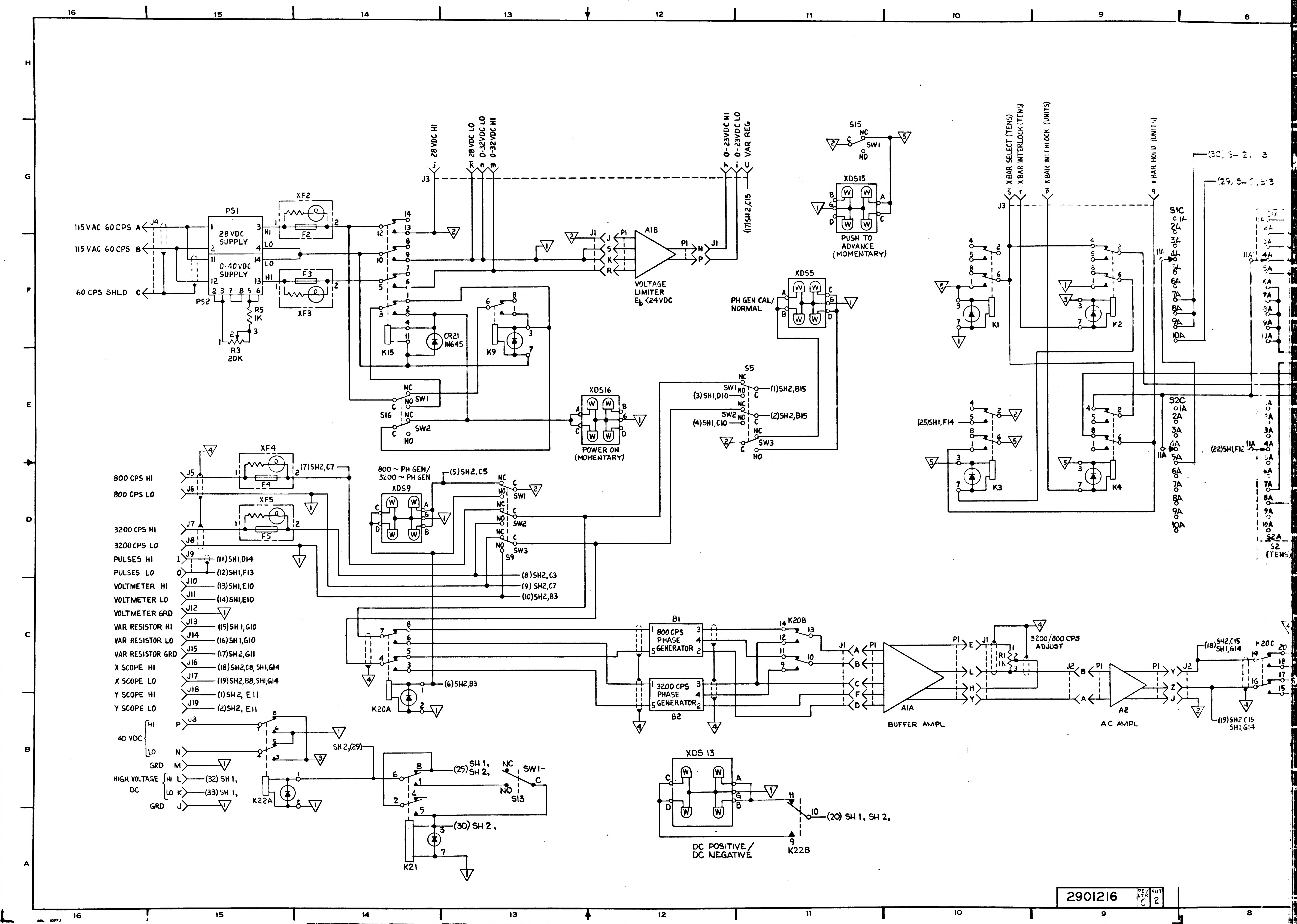
2901216
C

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	DRAWN L. Krahn DATE 14 MAR 66 CHECKED Wendrick 18 MAR 66 APPROVAL [illegible] CONTRACT NAS9-497	SCHEMATIC DIAGRAM, ELECTRICAL CONTROL PANEL ASSEMBLY
DO NOT SCALE THIS DRAWING MATERIAL — APPROVAL	NASA APPROVAL MIT APPROVAL	SIZE J2 CODE IDENT NO. 99974 2901216 SCALE — SHEET 2 OF 2

2900896-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

2901216 C SHT 2

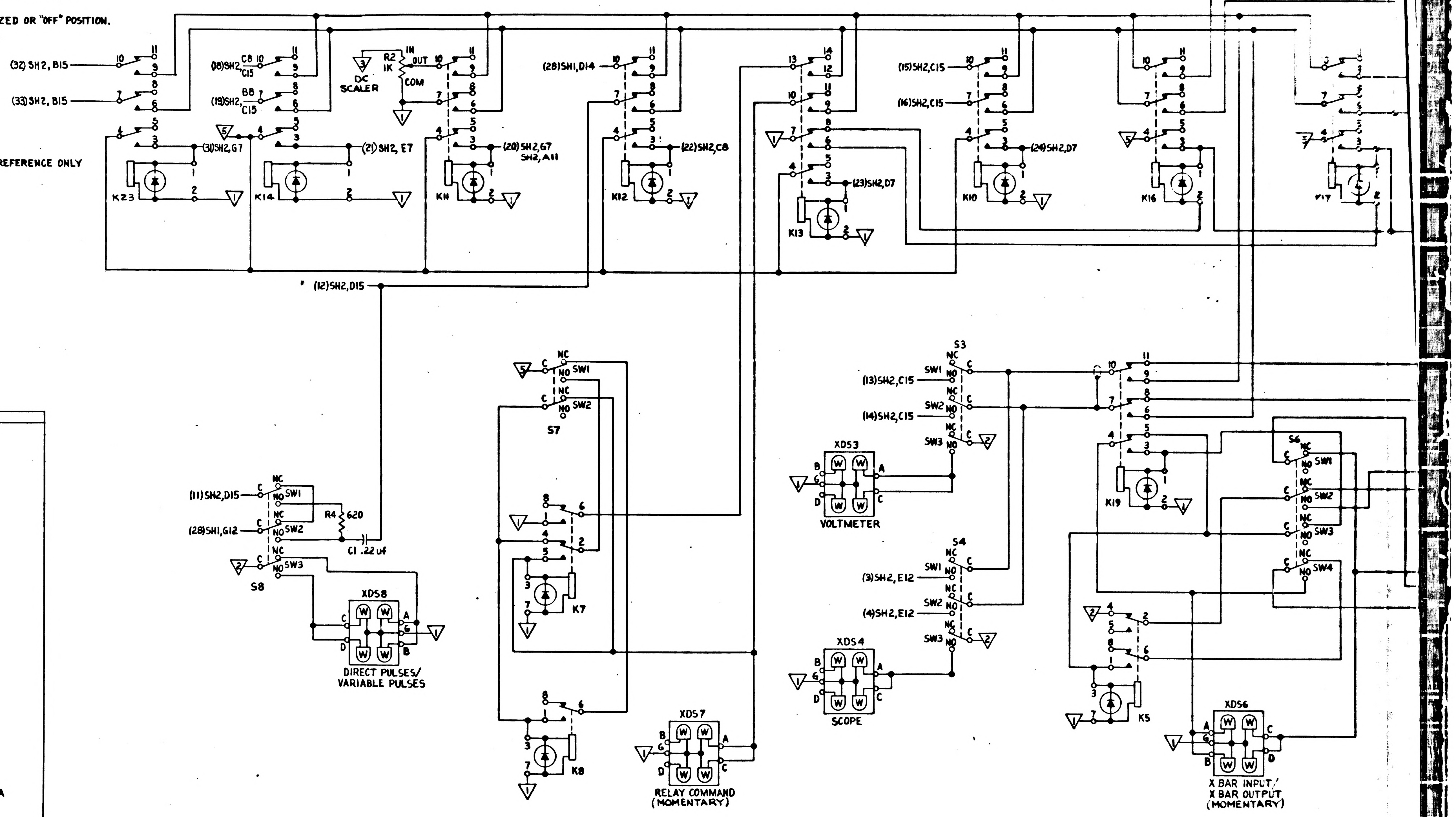
27290P216


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
115VAC 60CPS A
115VAC 60CPS B
60 CPS SHLD C
J4
PS1
28VDC SUPPLY
0-40VDC SUPPLY
HI
LO
PS2
R5 1K
R3 20K
XF2
F2
XF3
F3
J3
28VDC HI
28VDC LO
0-32VDC LO
0-32VDC HI
0-23VDC HI
0-23VDC LO
VAR REG
(17)SH2,C15
K15
CR21 1N645
K9
A1B
VOLTAGE LIMITER E_b <24VDC
J1
P1
S16
SW1
SW2
NC
NO
C
XDS16
POWER ON (MOMENTARY)
S15
XDS15
PUSH TO ADVANCE (MOMENTARY)
XDS5
PH GEN CAL/ NORMAL
S5
SW3
(1)SH2,B15
(2)SH2,B15
(3)SH1,D10
(4)SH1,C10
XBAR SELECT (TENS)
XBAR INTERLOCK (TENS)
XBAR INTERLOCK (UNITS)
XBAR HOLD (UNITS)
K1
K2
K3
K4
(25)SH1,F14
(22)SH1,F12
S1C
S2C
S2A
S2 (TENS)
(30) S- 2, 3
(29) S- 2, B-3
800 CPS HI
800 CPS LO
3200 CPS HI
3200 CPS LO
PULSES HI
PULSES LO
VOLTMETER HI
VOLTMETER LO
VOLTMETER GRD
VAR RESISTOR HI
VAR RESISTOR LO
VAR RESISTOR GRD
X SCOPE HI
X SCOPE LO
Y SCOPE HI
Y SCOPE LO
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J18
J19
XF4
F4
XF5
F5
(7)SH2,C7
800 ~ PH GEN/ 3200 ~ PH GEN
XDS9
S9
(5)SH2,C5
(11)SH1,D14
(12)SH1,F13
(13)SH1,E10
(14)SH1,E10
(15)SH1,G10
(16)SH1,G10
(17)SH2,G11
(18)SH2,C8,SH1,G14
(19)SH2,B8,SH1,G14
(1)SH2,E11
(2)SH2,E11
(8)SH2,C3
(9)SH2,C7
(10)SH2,B3
(6)SH2,B3
K20A
K20B
B1
800 CPS PHASE GENERATOR
B2
3200 CPS PHASE GENERATOR
A1A
BUFFER AMPL
R1 1K
3200/800 CPS ADJUST
J2
A2
AC AMPL
K20C
(18)SH2,C15 SH1,G14
(19)SH2,C15 SH1,G14
40 VDC HI
LO
GRD
HIGH VOLTAGE DC HI
LO
GRD
(32) SH 1,
(33) SH 1,
K22A
SH2,(29)
(25) SH 1, SH 2,
S13
SW1-
K21
(30) SH 2,
XDS 13
DC POSITIVE/ DC NEGATIVE
K22B
(20) SH 1, SH 2,
2901216
REV LTR C
SHT 2

1/2901216

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   2900896 ASSEMBLY
4. LAST NUMBER USED: ▽=5, ( )=34.
5. SPECIAL ABBREVIATIONS AND CODES:
   SHEET AND ZONE NUMBERS ARE ABBREVIATED SH__,___.
6. UNLESS OTHERWISE SPECIFIED:
   A. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   B. VALUES ARE IN OHMS & MICROFARADS.
7. SIGNAL DESCRIPTIONS:
   ▽2 RELAY & LAMP POWER (HI)
   ▽3 DC SCALER EXCITATION (HI)
   ▽4 SHIELD GRD
   ▽5 RELAY INTERLOCK
8. BARS PLACED OVER LETTERS ARE FOR REFERENCE ONLY AND SIGNIFY LOWER CASE.


(32) SH2, B15
(33) SH2, B15
(31)SH2,G7
K23
(18)SH2, C15
C8
(19)SH2, C15
B8
K14
(21) SH2, E7
R2
1K
IN
OUT
COM
DC SCALER
K11
(20) SH2,G7 SH2,A11
(28)SH1,D14
K12
(22)SH2,C8
K13
(23)SH2,D7
(15)SH2,C15
(16)SH2,C15
K10
(24)SH2,D7
K16
K17
(12)SH2,D15
S7
SW1
SW2
NC
NO
K7
K8
XDS7
RELAY COMMAND (MOMENTARY)
(11)SH2,D15
(28)SH1,G12
S8
SW3
R4 620
C1 .22uf
XDS8
DIRECT PULSES/ VARIABLE PULSES
S3
(13)SH2,C15
(14)SH2,C15
XDS3
VOLTMETER
S4
(3)SH2,E12
(4)SH2,E12
XDS4
SCOPE
K19
K5
S6
SW4
XDS6
X BAR INPUT/ X BAR OUTPUT (MOMENTARY)

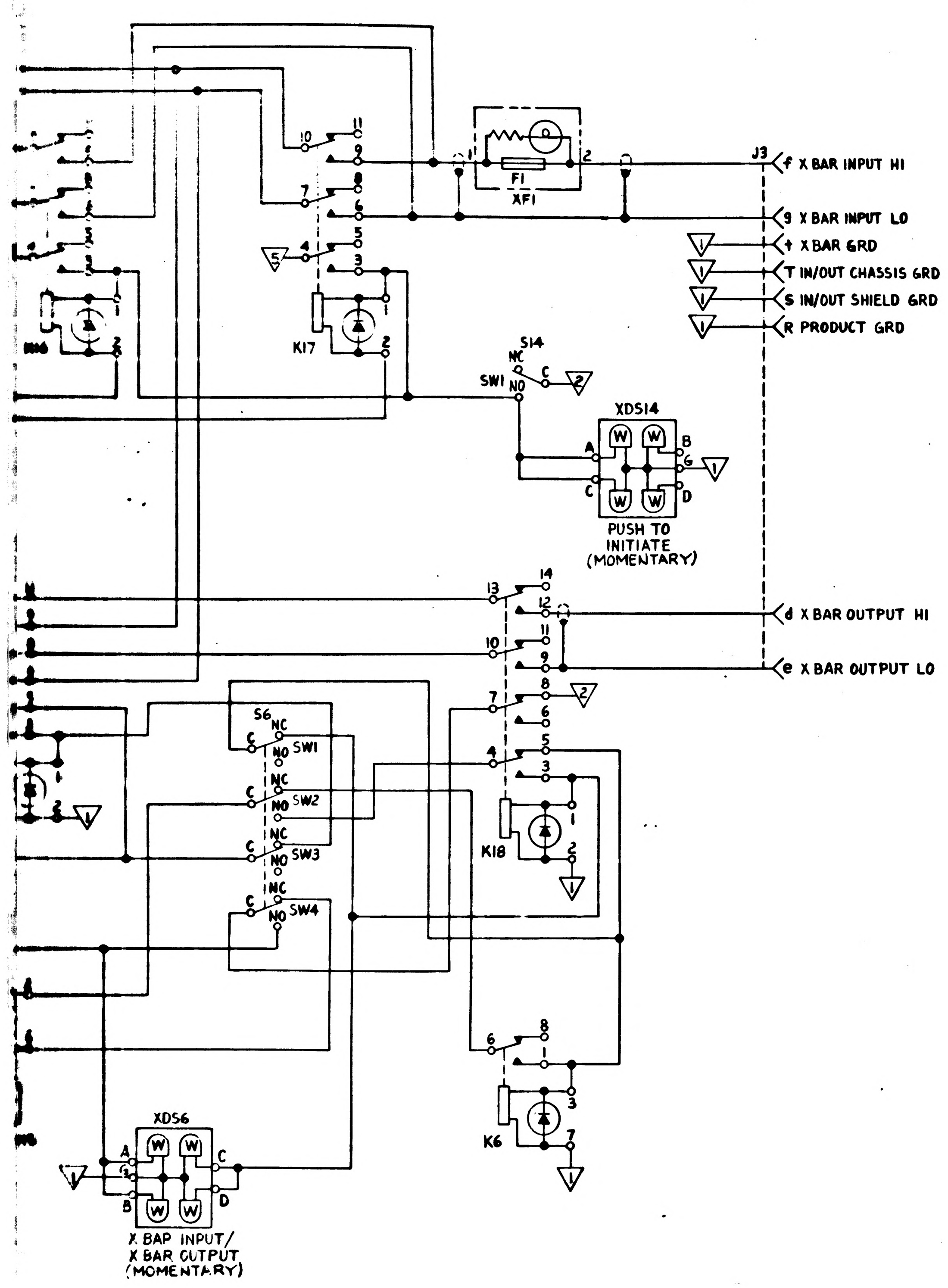
▷1 SEPARATED SYMBOL LOCATION

REF DES	SHEET, ZONE
A1A, B	SH2-B10, SH2-F12
K20A,B,C	SH2-B14, SH2-C11, SH2-C8

UNUSED TERMINALS

REF DES	TERMINAL NO.
DS3	B,D
DS4	B,D
DS7	B,D
DS14	B,D
DS15	B,D
DS16	B,D
J1	T,U,V,W,X
J2	C,D,E,F,H,K,L,M,P,R THRU X
J3	A THRU H
K1	4,8
K2	5,8
K3	5,8
K4	1,5
K5	5,8
K6	2,4,5,8
K7	8
K8	2,4,5,8
K9	2,4,5,8
K10	5,8,11 THRU 20
K11	5,8,11 THRU 20
K12	5,8,11 THRU 20
K13	5,11,14 THRU 20
K14	5,8,11 THRU 20
K15	7,8,14
K16	5,8,11 THRU 20
K17	5,8,11 THRU 20
K18	6,11,14 THRU 20
K19	12 THRU 20
K21	4
K22	14 THRU 20
K23	12 THRU 20
S1	S1A-1B & 2B, S1B-3A THRU 10A
S2	S2A-1A THRU 6A, 9A, 10A S2A-1B THRU 7B, 9B, 10B S2B-8A
S3	SW1 NC, SW2 NC, SW3 NC, SW4-C, NC, NO
S4	SW1 NC, SW2 NC, SW3 NC, SW4-C, NC, NO
S5	SW4-C, NC, NO
S6	SW1 NO, SW3 NO
S7	SW2 NO
S8	SW4-C, NC, NO
S9	SW4-C, NC, NO
S10	SW4-C, NC, NO
S[illegible]	SW4-C, NC, NO
S12	SW4-C, NC, NO
S13	SW2-C, NC, NO
S14	SW1 NC, SW2-C, NC, NO
S15	SW1 NO, SW2-C, NC, NO
S16	SW2 NO

2901216	REV LTR D	SHT 1



SH ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
1,B12	K8	1015802-004	RELAY	
2,F13	K9	1015802-004		
1,F10	K10	1015837-002		
1,F13	K11			
1,F12	K12			
1,F11	K13			
1,F14	K14	1015837-002		
2,F14	K15	1015914-001		
1,F9	K16	1015837-002		
1,F8	K17			
1,D8	K18			
1,D9	K19			
1▷	K20	1015837-002		
2,B13	K21	1015802-004		
2,B14	K22	1015837-002		
1,E14	K23	1015837-002	RELAY	
2,G15	PS1	1897211-005	POWER MODULE	
2,F15	PS2	1897396-001	POWER MODULE	
2,C10	R1	1015945-001	RESISTOR, VARIABLE	1K, 5W
1,G13	R2	1015945-001	RESISTOR, VARIABLE	1K, 5W
2,F15	R3	1897419-009	RESISTOR, VARIABLE	20K, 2W
1,D13	R4	RC32GF621J (1896953-058)	RESISTOR	620 Ω, 1W
2,F14	R5	RC20GF102J (1896952-049)	RESISTOR	1K, 1/2W
2,G7	S1	1015825-016	SWITCH, ROTARY	
2,D8	S2	1015825-016	SWITCH, ROTARY	
1,E10	S3	1897337-753	LIGHT-IND SWITCH ASSY	
1,D10	S4	-755		
2,E11	S5	-756		
1,D8	S6	-702		
1,E12	S7	-310		
1,D14	S8	-754		
2,D13	S9	-752		
2,B7	S10	-757		
2,B5	S11	-758		
2,B3	S12	-759		
2,B11	S13	-505		
1,F7	S14	1897337-308		
2,G11	S15	1015869-336		
2,E14	S16	1897337-309	LIGHT-IND SWITCH ASSY	
2,C2	T1	1897385	TRANSFORMER	
2,D6	XDS1	1015844-001	DIGITAL READOUT	
	XDS3	SEE S3		
	XDS4	SEE S4		
	XDS5	SEE S5		
	XDS6	SEE S6		
	XDS7	SEE S7		
	XDS8	SEE S8		
	XDS9	SEE S9		
	XDS10	SEE S10		
	XDS11	SEE S11		
	XDS12	SEE S12		
	XDS13	SEE S13		
	XDS14	SEE S14		
	XDS15	SEE S15		
	XDS16	SEE S16		
1,G8	XF1	1015873-001	FUSEHOLDER	
2,G14	XF2			
2,F14	XF3			
2,D15	XF4			
2,D15	XF5	1015873-001	FUSEHOLDER	

SH ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
1▷	A1	2901045-011	DC DETECTOR & AC AMP ASSY	2900953
2,C9	A2	2901046-011	AC AMPLIFIER ASSY	2900955
2,C12	B1	1897380	PHASE GENERATOR	800 CPS
2,B12	B2	1897381	PHASE GENERATOR	3200 CPS
1,D13	C1	CP09A1KB224K3 (1896960-012)	CAPACITOR	.22 uf ±10% 100V
2,G3	CR1	1N645 (1896966-004)	SEMICONDUCTOR	
2,G3	CR2			
2,G3	CR3			
2,F3	CR4			
2,F3	CR5			
2,F3	CR6			
2,F3	CR7			
2,F3	CR8			
2,F3	CR9			
2,F3	CR10			
2,E3	CR11			
2,E3	CR12			
2,E3	CR13			
2,E3	CR14			
2,E3	CR15			
2,E3	CR16			
2,D3	CR17			
2,D3	CR18			
2,D3	CR19			
2,D3	CR20			
2,F13	CR21	1N645 (1896966-004)	SEMICONDUCTOR	
2,D6	DS1	(20) MS25237-327	LAMP	
1,D11	DS3	(4) MS25237-327		
1,C11	DS4			
2,F11	DS5			
1,C9	DS6			
1,C12	DS7			
1,C13	DS8			
2,D14	DS9			
2,B8	DS10			
2,B6	DS11			
2,B4	DS12			
1,F7	DS14			
2,G11	DS15			
2,E12	DS16	(4) MS25237-327	LAMP	
1,G8	F1	F02A250V1A (1897099-009)	FUSE	1 AMP
2,G14	F2	F02A250V3A (1897099-012)		3 AMP
2,F14	F3	F02A250V3A (1897099-012)		3 AMP
2,D15	F4	F02A250V1A (1897099-009)		1 AMP
2,D15	F5	F02A250V1A (1897099-009)	FUSE	1 AMP
1▷	J1	1015957-177	CONNECTOR, RECP	21 CONTACT
2,B9	J2	1015957-178	CONNECTOR, RECP	21 CONTACT
1▷	J3	MS3127E24-61SW (1897056-611)	CONNECTOR, RECP	61 SOCKET
2,G15	J4	MS3127E12-3P (1897119-030)	CONNECTOR, RECP	3 PIN
2,D15	J5	1897302-001	JACK, TIP-BANANA	
2,D15	J6	1897302-002	JACK, TIP-BANANA	
2,D15	J7	1897302-001	JACK, TIP-BANANA	
2,D15	J8	1897302-002	JACK, TIP-BANANA	
2,D15	J9	MS35180-909B (1896917-001)	CONNECTOR, RECP	2 CONTACT
2,C15	J10	1897302-001	JACK, TIP-BANANA	
2,C15	J11	-002		
2,C15	J12	-002		
2,C15	J13	-001		
2,C15	J14	-002		
2,C15	J15	-002		
2,C15	J16	-001		
2,C15	J17	-002		
2,B15	J18	-001		
2,B15	J19	1897302-002	JACK, TIP-BANANA	
2,F10	K1	1015802-004	RELAY	
2,F9	K2			
2,D10	K3			
2,D9	K4			
1,C9	K5			
1,C8	K6			
1,C12	K7	1015802-004	RELAY	

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER D.O. 61860		30 MAR 66	A.J.F. PJ
B		REVISED PER MXC 211482		3 MAY 66	JRC
C		INITIAL RELEASE CLASS A PER TDRR 28657		5 MAY 66	JHF EF
		REVISED PER TDRR 33216	—	28-Mar 66	

2901216
D

2900896-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN L Krahn DATE 14 MAR 66
CHECKED [illegible] 18 MAR 66
APPROVAL [illegible] 5/5/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

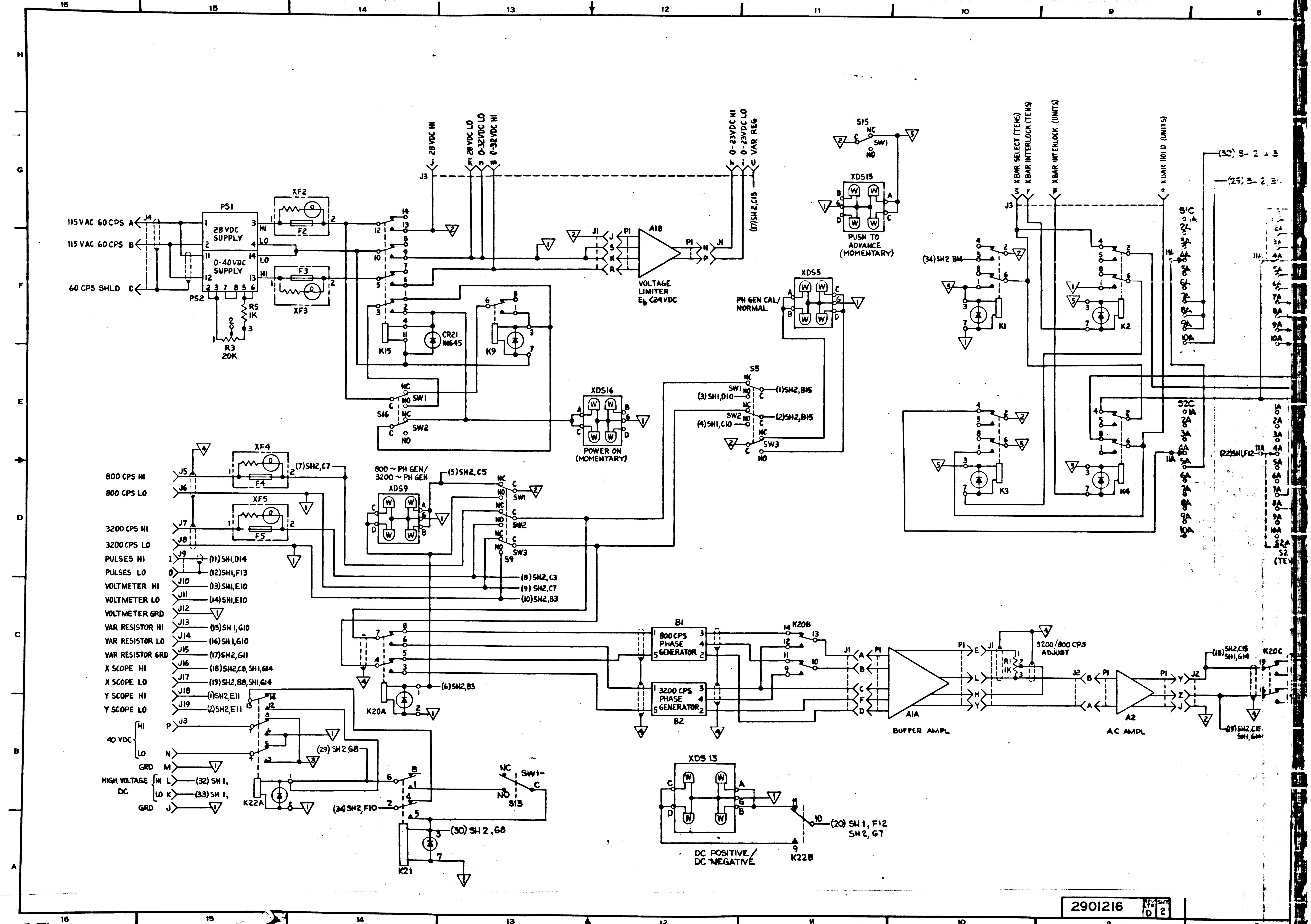
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
CONTROL PANEL ASSEMBLY

SIZE J2 CODE IDENT NO. 99974 2901216
SCALE — SHEET OF 2

01216

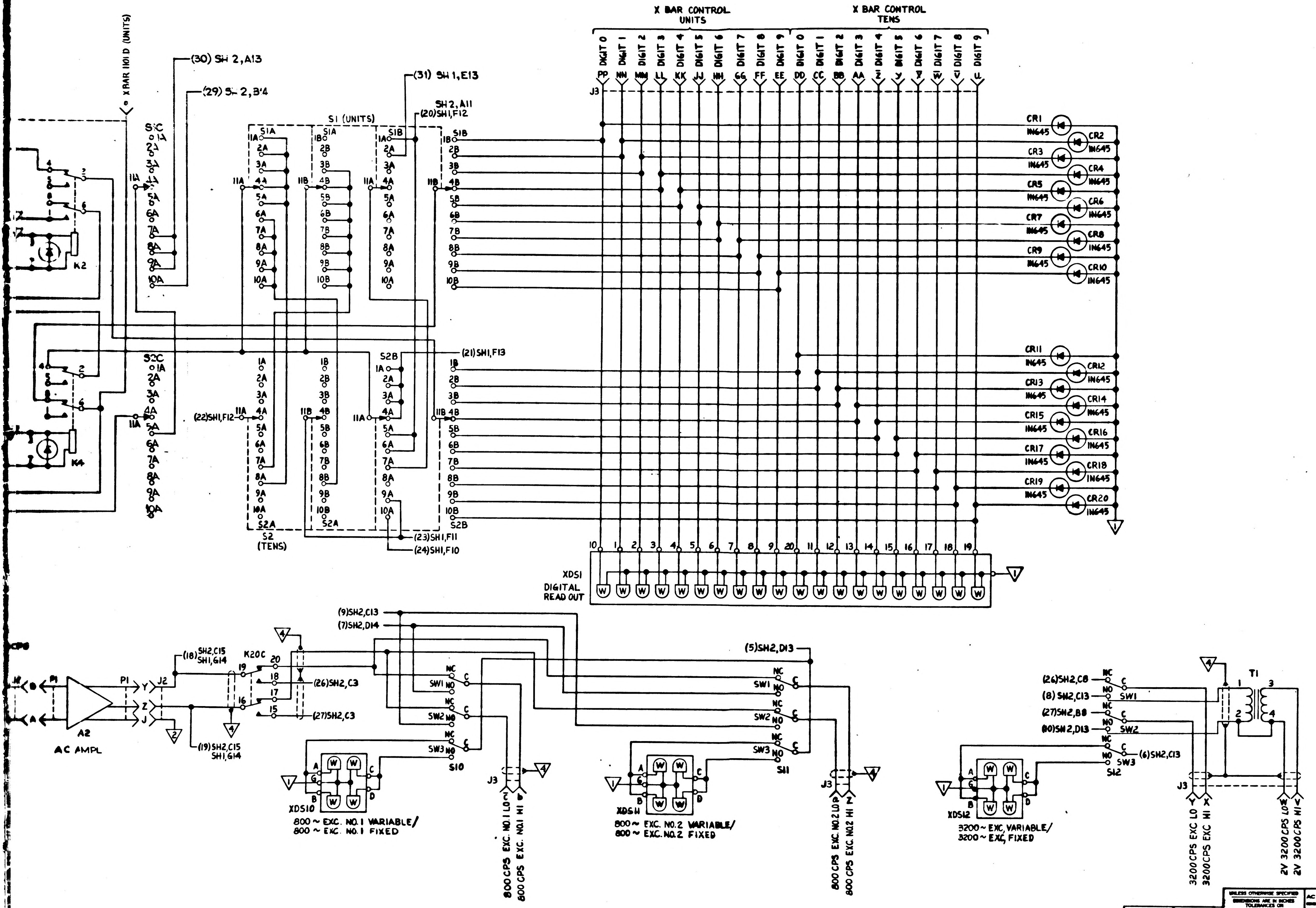
2/2901216


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
115 VAC 60 CPS A
115 VAC 60 CPS B
60 CPS SHLD C
J4
PS1
28 VDC SUPPLY
0-40 VDC SUPPLY
HI
LO
PS2
R5 1K
R3 20K
XF2
F2
F3
XF3
J3
28 VDC HI
28 VDC LO
0-32 VDC LO
0-32 VDC HI
0-23 VDC HI
0-23 VDC LO
VAR REG
(17)SH2,C15
A18
VOLTAGE LIMITER E₀ ≤24 VDC
J1
P1
K15
CR21 IN645
K9
S16
SW1
SW2
NC
NO
C
XDS16
POWER ON (MOMENTARY)
S15
XDS15
PUSH TO ADVANCE (MOMENTARY)
XDS5
PH GEN CAL/ NORMAL
S5
(1)SH2,B15
(2)SH2,B15
(3)SH1,D10
(4)SH1,C10
SW3
XBAR SELECT (TENS)
XBAR INTERLOCK (TENS)
XBAR INTERLOCK (UNITS)
X1AR 1101 D (UNITS)
(32) S-2 A 3
(25) S-2, B
(34)SH2 B14
K1
K2
K3
K4
S1C
S2C
S2
(22)SH1,F12
800 CPS HI
800 CPS LO
3200 CPS HI
3200 CPS LO
PULSES HI
PULSES LO
VOLTMETER HI
VOLTMETER LO
VOLTMETER GRD
VAR RESISTOR HI
VAR RESISTOR LO
VAR RESISTOR GRD
X SCOPE HI
X SCOPE LO
Y SCOPE HI
Y SCOPE LO
40 VDC
GRD
HIGH VOLTAGE DC
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J18
J19
XF4
F4
XF5
F5
(7)SH2,C7
800 ~ PH GEN/ 3200 ~ PH GEN
(5)SH2,C5
XDS9
S9
(11)SH1,D14
(12)SH1,F13
(13)SH1,E10
(14)SH1,E10
(15)SH1,G10
(16)SH1,G10
(17)SH2,G11
(18)SH2,C8,SH1,G14
(19)SH2,B8,SH1,G14
(1)SH2,E11
(2)SH2,E11
(8)SH2,C3
(9) SH2,C7
(10)SH2,B3
(32) SH 1,
(33) SH 1,
(6)SH2,B3
K20A
(29) SH 2,G8
K22A
(34)SH2,F10
SW1-
S13
(30) SH 2,G8
K21
B1
800 CPS PHASE GENERATOR
3200 CPS PHASE GENERATOR
B2
K20B
A1A
BUFFER AMPL
R1 1K
3200/800 CPS ADJUST
J2
A2
AC AMPL
(18)SH2,C15 SH1,G14
K20C
(19)SH2,C15 SH1,G14
XDS 13
DC POSITIVE/ DC NEGATIVE
K22B
(20) SH 1, F12 SH 2, G7

2901216 D 2

1/2901216

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER D.O. 6660		[illegible]	[illegible]
B		REVISED PER MXC 21082		[illegible]	[illegible]
C		INITIAL RELEASE CLASS A PER TDRR 28657		[illegible]	[illegible]
D		REVISED PER T-22 332.6		[illegible]	[illegible]



X BAR CONTROL UNITS
X BAR CONTROL TENS
DIGIT 0
DIGIT 1
DIGIT 2
DIGIT 3
DIGIT 4
DIGIT 5
DIGIT 6
DIGIT 7
DIGIT 8
DIGIT 9
PP NN MM LL KK JJ HH GG FF EE DD CC BB AA Z Y W U T F
J3
XBAR 1101 D (UNITS)
(30) SH 2, A13
(29) SH 2, B14
(31) SH 1, E13
SH2, A11
(20) SH1, F12
S1 (UNITS)
S1C
S1A
S1B
K2
K4
S2C
S2A
S2B
S2 (TENS)
(21) SH1, F13
(22) SH1, F12
(23) SH1, F11
(24) SH1, F10
CR1 ... CR20
IN645
XDS1 DIGITAL READ OUT
(9) SH2, C13
(7) SH2, D14
(5) SH2, D13
(18) SH2, C15 SH1, G14
(19) SH2, C15 SH1, G14
K20C
(26) SH2, C3
(27) SH2, C3
P1
J2
A2 AC AMPL
SW1
SW2
SW3
NC
NO
S10
S11
S12
XDS10
800 ~ EXC. NO. 1 VARIABLE/ 800 ~ EXC. NO. 1 FIXED
XDS11
800 ~ EXC. NO. 2 VARIABLE/ 800 ~ EXC. NO. 2 FIXED
XDS12
3200 ~ EXC. VARIABLE/ 3200 ~ EXC. FIXED
800 CPS EXC. NO. 1 LO
800 CPS EXC. NO. 1 HI
800 CPS EXC. NO. 2 LO
800 CPS EXC. NO. 2 HI
(26) SH2, C8
(8) SH2, C13
(27) SH2, B8
(30) SH2, D13
(6) SH2, C13
T1
3200 CPS EXC LO
3200 CPS EXC HI
2V 3200 CPS LO
2V 3200 CPS HI

2901216 D

2900896-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN E. Kracke DATE 14 MAR 64
CHECKED [illegible] 18 MAR 64
APPROVAL [illegible] 5/5/64
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL CONTROL PANEL ASSEMBLY

SIZE J2 CODE IDENT NO. 99974 2901216
SCALE —
SHEET 2 OF 2

2901216 2

2/2901216

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O. 61798	3-16-66	E.L.
B	REVISED PER D.O. 61847	29 MAR 66	LGC
C	REVISED PER MXC 211819	28 APR 66	GM W.D.
D	REVISED PER MXC 211974	29 APR 66	JRS
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	PG EF

Charleston
4 MAR 66

REV STATUS OF SHEETS	REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Bob Carling DATE 28 FEB 66
CHECKED M. Manning 3 MAR 66
APPROVAL R Pierini 8 MAR 66
APPROVAL

NASA APPROVAL
MIT APPROVAL

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" SCA

CODE IDENT NO. 99974
SIZE A
2901217
REV E

CONTRACT NAS9-497
SCALE —
SHEET 1 OF 19

CABLE ASSEMBLY SCA 2901217 E

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		E2 E6					.37 .37	NO NO			
A	2	1		E4 P1-84					.37 .10	NO NO		 8	
A	3	1		E1 P1-32					.37 .10	NO NO		 8	
A	4	1		E2 E5					.37 .37	NO NO			
A	5	1		E2 J1-71					.37 .10	NO NO		 8	
A	6	1		E6 E3					.37 .37	NO NO			
A	7	1		P2-A J1-60					.22 .10	NO NO		13 8	
A	8	1		P2-C P1-20					.22 .10	NO NO		13 8	
A	9	1		P2-D E1					.22 .37	NO NO		13	
A	10	1		P2-E J1-59					.22 .10	NO NO		13 8	
A	11	1		P2-F E2					.22 .37	NO NO		13	
A	12	1		P2-G P1-19					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 6 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		P2-H E1					.22 .37	NO NO		13	
A	14	1		P2-J J1-62					.22 .10	NO NO		13 8	
A	15	1		P2-K E2					.22 .37	NO NO		13	
A	16	1		P2-L P1-4					.22 .10	NO NO		13 8	
A	17	1		P2-M P1-18					.22 .10	NO NO		13 8	
A	18	1		P2-N P1-9					.22 .10	NO NO		13 8	
A	19	1		P2-P P1-8					.22 .10	NO NO		13 8	
A	20	1		P2-T P1-59					.22 .10	NO NO		13 8	
A	21	1		P2-U P1-58					.22 .10	NO NO		13 8	
A	22	1		P2-Z P1-5					.22 .10	NO NO		13 8	
A	23	1		P2-A* P1-6					.22 .10	NO NO		13 8	
A	24	1		P2-B* ~~[illegible]~~ J1-87					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 7 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		P2-C* E2					.22 .37	NO NO		13	
A	26	1		P2-D* ~~P1-11~~ P1-106					.22 .10	NO NO		13 8	
A	27	1		P2-E* ~~[illegible]~~ P1-93					.22 .10	NO NO		13 8	
A	28	1		P2-J* J1-61					.22 .10	NO NO		13 8	
A	29	1		P2-K* E2					.22 .37	NO NO		13	
A	30	1		P2-V* J1-44					.22 .10	NO NO		13 8	
A	31	1		P2-W* E2					.22 .37	NO NO		13	
A	32	1		P2-X* P1-12					.22 .10	NO NO		13 8	
A	33	1		P2-Y* P1-26					.22 .10	NO NO		13 8	
A	34	1		P2-Z* P1-65					.22 .10	NO NO		13 8	
A	35	1		P2-AA P1-66					.22 .10	NO NO		13 8	
A	36	1		P2-GG J1-45					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 8 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1		P2-HH E2					.22 .37	NO NO		13	
A	38	1		P2-JJ P1-10					.22 .10	NO NO		13 8	
A	39	1		P2-KK P1-23					.22 .10	NO NO		13 8	
A	40	1		P3-A J1-90					.22 .10	NO NO		13 8	
A	41	1		P3-B E6					.22 .37	NO NO		13	
A	42	1		P3-C P1-14					.22 .10	NO NO		13 8	
A	43	1		P3-D P1-1					.22 .10	NO NO		13 8	
A	44	1		P3-E J1-131					.22 .10	NO NO		13 8	
A	45	1		P3-F E6					.22 .37	NO NO		13	
A	46	1		P3-G P1-3					.22 .10	NO NO		13 8	
A	47	1		P3-H P1-2					.22 .10	NO NO		13 8	
A	48	1		P3-J J1-91					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR E	SHEET 9 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~8~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-K E6					.22 .37	NO NO		13	
A 50	1		P3-L P1-~~15~~29					.22 .10	NO NO		13 8	
A 51	1		P3-M P1-~~24~~15					.22 .10	NO NO		13 8	
A 52	1		P3-N J1-130					.22 .10	NO NO		13 8	
A 53	1		P3-P E6					.22 .37	NO NO		13	
A 54	1		P3-R P1-28					.22 .10	NO NO		13 8	
A 55	1		P3-S P1-40					.22 .10	NO NO		13 8	
A 56	1		P3-T J1-108					.22 .10	NO NO		13 8	
A 57	1		P3-U E6					.22 .37	NO NO		13	
A 58	1		P3-V P1-17					.22 .10	NO NO		13 8	
A 59	1		P3-W P1-16					.22 .10	NO NO		13 8	
A 60	1		P3-X J1-110					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~8~~ ~~D~~ E | SHEET 10 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~8~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-Y E6					.22 .37	NO NO		13	
A 62	1		P3-Z P1-30					.22 .10	NO NO		13 8	
A 63	1		P3-A* P1-31					.22 .10	NO NO		13 8	
A 64	1		P3-B* J1-88					.22 .10	NO NO		13 8	
A 65	1		P3-C* E6					.22 .37	NO NO		13	
A 66	1		P3-D* P1-96					.22 .10	NO NO		13 8	
A 67	1		P3-E* P1-82					.22 .10	NO NO		13 8	
A 68	1		P3-F* J1-107					.22 .10	NO NO		13 8	
A 69	1		P3-G* E6					.22 .37	NO NO		13	
A 70	1		P3-H* P1-70					.22 .10	NO NO		13 8	
A 71	1		P3-I* P1-71					.22 .10	NO NO		13 8	
A 72	1		P3-J* J1-128					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~8~~ E | SHEET 11 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~8~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-K* E6					.22 .37	NO NO		13	
A 74	1		P3-M* P1-72					.22 .10	NO NO		13 8	
A 75	1		P3-N* P1-83					.22 .10	NO NO		13 8	
A 76	1		P6-B* J1-17					.22 .10	NO NO		13 8	
A 77	1		P6-C* E5					.22 .37	NO NO		13	
A 78	1		P6-D* P1-61					.22 .10	NO NO		13 8	
A 79	1		P6-E* P1-51					.22 .10	NO NO		13 8	
A 80	1		P6-F* J1-18					.22 .10	NO NO		13 8	
A 81	1		P6-G* E5					.22 .37	NO NO		13	
A 82	1		P6-H* P1-60					.22 .10	NO NO		13 8	
A 83	1		P6-J* J1-35					.22 .10	NO NO		13 8	
A 84	1		P6-K* E5					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~8~~ E | SHEET 12 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~8~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P6-M* P1-50					.22 .10	NO NO		13 8	
A 86	1		P6-X* J1-37					.22 .10	NO NO		13 8	
A 87	1		P6-Y* E5					.22 .37	NO NO		13	
A 88	1		P6-Z* P1-33					.22 .10	NO NO		13 8	
A 89	1		P6-AA E1					.22 .37	NO NO		13	
A 90	1		P6-BB J1-53					.22 .10	NO NO		13 8	
A 91	1		P6-CC E5					.22 .37	NO NO		13	
A 92	1		P6-DD P1-43					.22 .10	NO NO		13 8	
A 93	1		P6-FF J1-54					.22 .10	NO NO		13 8	
A 94	1		P6-GG E5					.22 .37	NO NO		13	
A 95	1		P6-HH P1-44					.22 .10	NO NO		13 8	
A 96	1		P8-A [illegible] J1-105					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~8~~ E | SHEET 13 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P8-B E3					.22 .37	NO NO		13	
A 98	1		P8-C ~~[illegible]~~ P1-108					.22 .10 ~~.18~~	NO NO		13 8	
A 99	1		P8-D ~~[illegible]~~ P1-107					.22 .10	NO NO		13 8	
A 100	1		P8-E ~~[illegible]~~ J1-127					.22 .10	NO NO		13 8	
A 101	1		P8-F E3					.22 .37	NO NO		13	
A 102	1		P8-G ~~[illegible]~~ P1-95					.22 .10	NO NO		13 8	
A 103	1		P8-H ~~[illegible]~~ P1-94					.22 .10	NO NO		13 8	
A 104	1		~~[illegible]~~ P8-T* J1-55					.22 .10	NO NO		13 8	
A 105	1		~~[illegible]~~ P8-U* E3					.22 .37	NO NO		13	
A 106	1		~~[illegible]~~ P8-V* P1-42					.22 .10	NO NO		13 8	
A 107	1		~~[illegible]~~ P8-W* P1-53					.22 .10	NO NO		13 8	
A 108	1		P8-N ~~[illegible]~~ J1-79					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~D~~ E | SHEET 14 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P8-P E3					.22 .37	NO NO		13	
A 110	1		P8-R ~~[illegible]~~ P1-11					.22 .10	NO NO		13 8	
A 111	1		P8-S ~~[illegible]~~ P1-25					.22 .10	NO NO		13 8	
A 112	1		P8-T ~~[illegible]~~ J1-63					.22 .10	NO NO		13 8	
A 113	1		P8-U E3					.22 .37	NO NO		13	
A 114	1		P8-V ~~[illegible]~~ P1-46					.22 .10	NO NO		13 8	
A 115	1		P8-W ~~[illegible]~~ P1-36					.22 .10	NO NO		13 8	
A 116	1		P8-X ~~[illegible]~~ J1-46					.22 .10	NO NO		13 8	
A 117	1		P8-Y E3					.22 .37	NO NO		13	
A 118	1		P8-Z ~~[illegible]~~ P1-13					.22 .10	NO NO		13 8	
A 119	1		P8-A* ~~[illegible]~~ P1-27					.22 .10	NO NO		13 8	
A 120	1		P8-B* J1-86					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~D~~ E | SHEET 15 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P8-C* E3					.22 .37	NO NO		13	
A 122	1		P8-D* P1-98					.22 .10	NO NO		13 8	
A 123	1		P8-E* E4					.22 .37	NO NO		13	
A 124	1		P8-F* J1-69					.22 .10	NO NO		13 8	
A 125	1		P8-G* E3					.22 .37	NO NO		13	
A 126	1		P8-H* P1-85					.22 .10	NO NO		13 8	
A 127	1		P8-I* E4					.22 .37	NO NO		13	
A 128	1		P8-J* J1-68					.22 .10	NO NO		13 8	
A 129	1		P8-K* E3					.22 .37	NO NO		13	
A 130	1		P8-M* P1-97					.22 .10	NO NO		13 8	
A 131	1		P8-N* E4					.22 .37	NO NO		13	
A 132	1		P8-P* J1-52					.22 .10	NO NO		13 8	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~D~~ E | SHEET 16 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P8-Q* E3					.22 .37	NO NO		13	
A 134	1		P8-R* P1-73					.22 .10	NO NO		13 8	
A 135	1		P8-S* E4					.22 .37	NO NO		13	
A 136	1		P8-BB J1-72					.22 .10	NO NO		13 8	
A 137	1		P8-CC E3					.22 .37	NO NO		13	
A 138	1		P8-DD P1-7					.22 .10	NO NO		13 8	
A 139	1		P8-EE P1-21					.22 .10	NO NO		13 8	
A 140	19		P6-A P2-N					.22 .22	NO NO		13	
A 141	19		P6-B P2-P					.22 .22	NO NO		13	
A 142	19		P6-E P2-T					.22 .22	NO NO		13	
A 143	19		P6-F P2-U					.22 .22	NO NO		13	
A 144	19		P6-FF P2-Z					.22 .22	NO NO		~~13~~	

SIZE A | CODE IDENT NO. 99974 | 2901217

SCALE-NONE | REV LTR ~~D~~ E | SHEET 17 OF 19

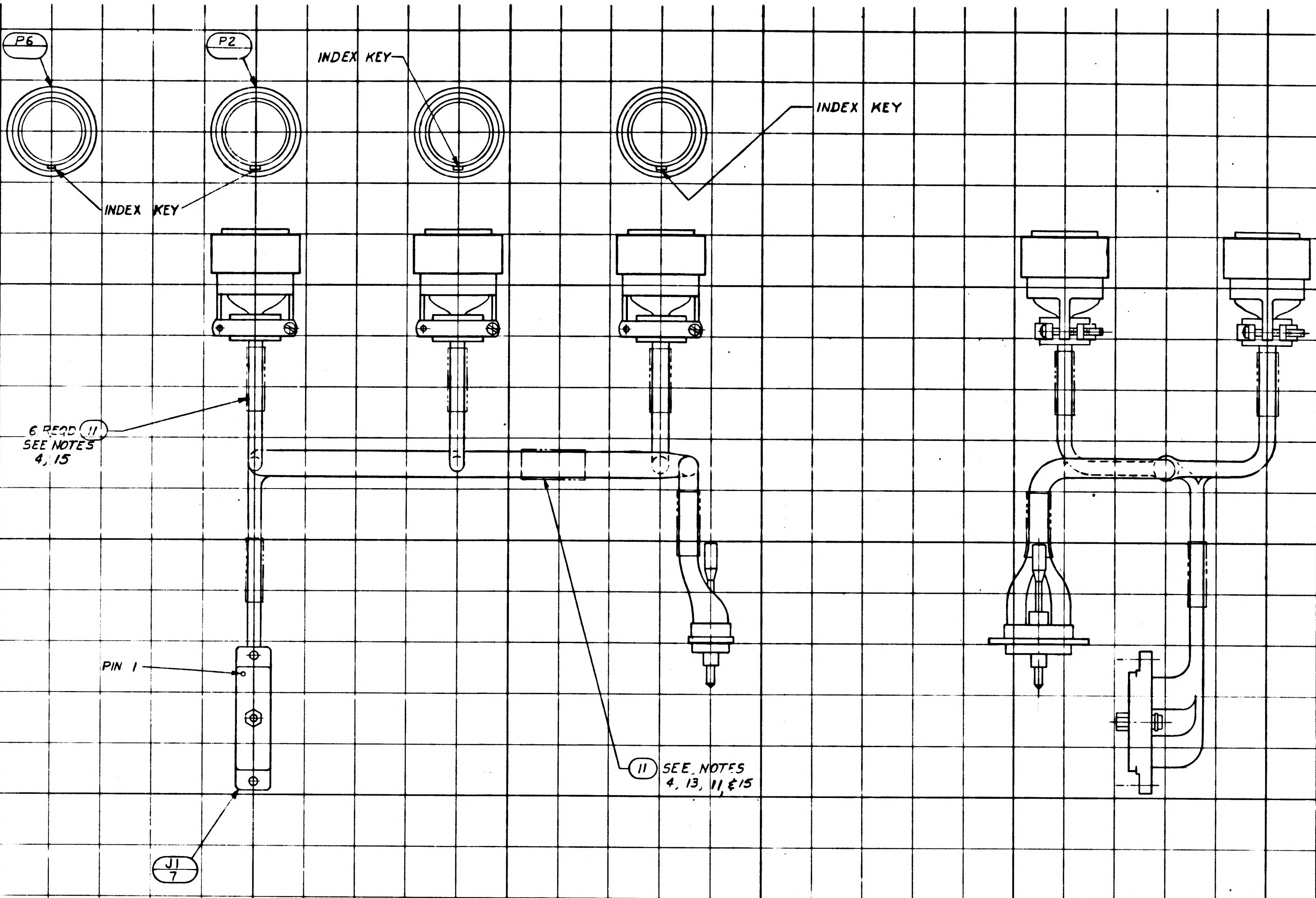
MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	19		P6-GG					.22	NO		13	
			P2-A*					.22	NO			

SIZE	CODE IDENT NO.		
A	99974	2901217	
SCALE-NONE	REV LTR	E	SHEET 18 OF 19

MIL 2064 9-65

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
6 REQD (11)
SEE NOTES
4, 15
PIN 1
(11) SEE NOTES
4, 13, 11, & 15
J1
7

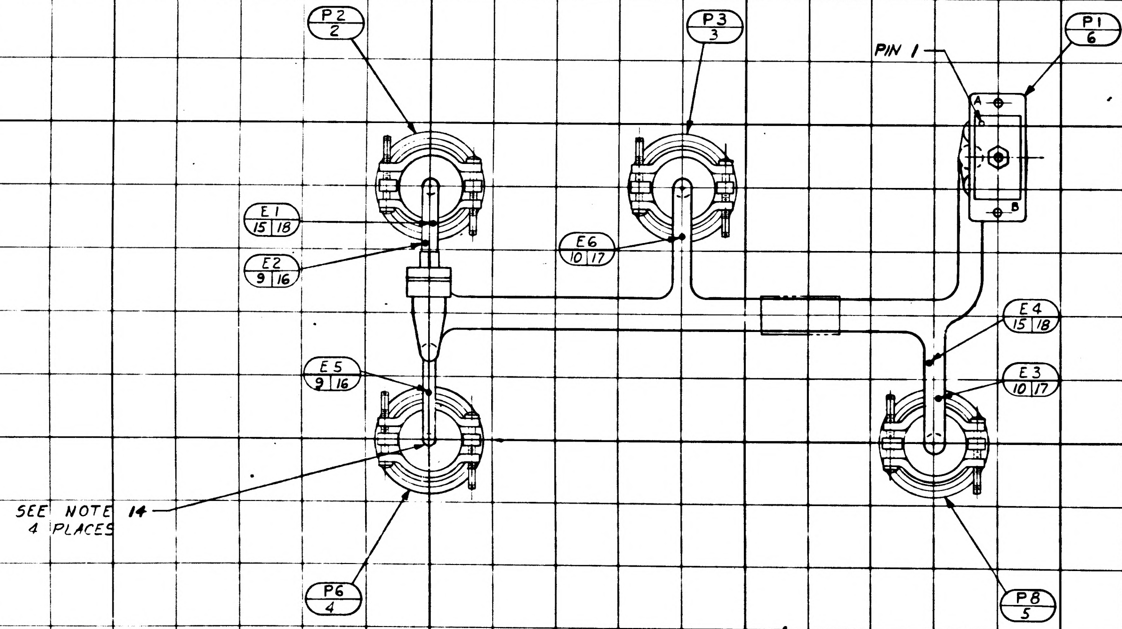

P2
2
P3
3
PIN 1
P1
6
A
B
E1
15 18
E2
9 16
E6
10 17
E4
15 18
E5
9 16
E3
10 17
SEE NOTE 14
4 PLACES
P6
4
P8
5

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
J1	J1 (P1 - SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 4
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 3
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "O" SCA

SIZE E
CODE IDENT NO. 99974
2901217
SCALE 1:1
SHEET 13 OF 13

MX-109891

2901217
2901217

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

(M)

REVISIONS				
SYM	DESCRIPTION	DATE	APPROVAL	
A	REVISED PER D.O. 61798	3-16-66	E.L.	
B	REVISED PER D.O. 61847	29 MAR 66	LGC	
C	REVISED PER MXC 211819	28 APR 66	GM	W.S.
D	REVISED PER MXC 211974	29 APR 66		JRS
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	PG	EF
F	REVISED PER TDRR 30811	1 SEPT 66	JJB	JI

Charleston
4 MAR 66

REV STATUS OF SHEETS	REV	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Bob Karling DATE 28 FEB 66
CHECKED M. Manning 3 MAR 66
APPROVAL R. Pierini 8 MAR 66
APPROVAL

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS9-497

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" SCA

CODE IDENT NO. 99974
SIZE A
2901217
REV F
SCALE —
SHEET 1 OF 19

CABLE ASSEMBLY SCA 2901217 ~~D~~ E

NOTE NUMBER GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 12.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 12.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK

10 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES. EXCEPT ITEMS 6 AND 7.

11 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

12 ASSEMBLE PER ND1002032.

13 SERIALIZE PER ND1002023.

14 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 14 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 2 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~D~~ E

NOTE NUMBER GENERAL NOTES DESCRIPTION

15 MARK ITEM 11 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 Continuity test per conductor chart. Resistance shall be less than 2 Ohms.

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ ~~C~~ E	SHEET 3 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~D~~ E

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	AR	2901217-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 135 FT TOTAL LENGTH
	2	1	1897047-614	CONNECTOR, ELECTRICAL 61P2
	3	1	1897047-611	CONNECTOR, ELECTRICAL 61PW
	4	1	1897047-610	CONNECTOR, ELECTRICAL 61P
	5	1	1897047-613	CONNECTOR, ELECTRICAL 61PY
7	6	1	1897398-001	CONNECTOR, ELECTRICAL
7	7	1	1897171- 3	CONNECTOR, ELECTRICAL
7	8	97	1010738-006	CONTACT, SOCKET
7	9	2	1010490-258	INSULATION SLEEVING
7	10	2	1010490-256	INSULATION SLEEVING
7	11	7	1016128-011	BAND, IDENTIFICATION
7	12	AR	1012507-004	TAPE, LACING AND TYING
	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP (FURNISHED WITH ITEMS 2 THRU 5)
14	14	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
7	15	2	1016006-001	SPLICE REDUCER
7	16	2	1016006-002	SPLICE REDUCER
7	17	2	1016006-003	SPLICE REDUCER

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 4 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 ~~D~~ E

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	2	1010490-228	INSULATION SLEEVING
	19	1	2901217-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT 6 FT TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 5 OF 19

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E2					.37	NO			
			E6					.37	NO			
A 2	1		E4					.37	NO			
			P1-84					.10	NO		8	
A 3	1		E1					.37	NO			
			P1-32					.10	NO		8	
A 4	1		E2					.37	NO			
			E5					.37	NO			
A 5	1		E2					.37	NO			
			J1-71					.10	NO		8	
A 6	1		E6					.37	NO			
			E3					.37	NO			
A 7	1		P2-A					.22	NO		13	
			J1-60					.10	NO		8	
A 8	1		P2-C					.22	NO		13	
			P1-20					.10	NO		8	
A 9	1		P2-D					.22	NO		13	
			E1					.37	NO			
A 10	1		P2-E					.22	NO		13	
			J1-59					.10	NO		8	
A 11	1		P2-F					.22	NO		13	
			E2					.37	NO			
A 12	1		P2-G					.22	NO		13	
			P1-19					.10	NO		8	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-H					.22	NO		13	
			E1					.37	NO			
A 14	1		P2-J					.22	NO		13	
			J1-62					.10	NO		8	
A 15	1		P2-K					.22	NO		13	
			E2					.37	NO			
A 16	1		P2-L					.22	NO		13	
			P1-4					.10	NO		8	
A 17	1		P2-M					.22	NO		13	
			P1-18					.10	NO		8	
A 18	1		P2-N					.22	NO		13	
			P1-9					.10	NO		8	
A 19	1		P2-P					.22	NO		13	
			P1-8					.10	NO		8	
A 20	1		P2-T					.22	NO		13	
			P1-59					.10	NO		8	
A 21	1		P2-U					.22	NO		13	
			P1-58					.10	NO		8	
A 22	1		P2-Z					.22	NO		13	
			P1-5					.10	NO		8	
A 23	1		P2-A*					.22	NO		13	
			P1-6					.10	NO		8	
A 24	1		P2-B*					.22	NO		13	
			~~[illegible]~~ J1-87					.10	NO		8	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-C*					.22	NO		13	
			E2					.37	NO			
A 26	1		P2-D*					.22	NO		13	
			~~[illegible]~~ P1-106					.10	NO		8	
A 27	1		P2-E*					.22	NO		13	
			~~[illegible]~~ P1-93					.10	NO		8	
A 28	1		P2-J*					.22	NO		13	
			J1-61					.10	NO		8	
A 29	1		P2-K*					.22	NO		13	
			E2					.37	NO			
A 30	1		P2-V*					.22	NO		13	
			J1-44					.10	NO		8	
A 31	1		P2-W*					.22	NO		13	
			E2					.37	NO			
A 32	1		P2-X*					.22	NO		13	
			P1-12					.10	NO		8	
A 33	1		P2-Y*					.22	NO		13	
			P1-26					.10	NO		8	
A 34	1		P2-Z*					.22	NO		13	
			P1-65					.10	NO		8	
A 35	1		P2-AA					.22	NO		13	
			P1-66					.10	NO		8	
A 36	1		P2-GG					.22	NO		13	
			J1-45					.10	NO		8	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-HH					.22	NO		13	
			E2					.37	NO			
A 38	1		P2-JJ					.22	NO		13	
			P1-10					.10	NO		8	
A 39	1		P2-KK					.22	NO		13	
			P1-23					.10	NO		8	
A 40	1		P3-A					.22	NO		13	
			J1-90					.10	NO		8	
A 41	1		P3-B					.22	NO		13	
			E6					.37	NO			
A 42	1		P3-C					.22	NO		13	
			P1-14					.10	NO		8	
A 43	1		P3-D					.22	NO		13	
			P1-1					.10	NO		8	
A 44	1		P3-E					.22	NO		13	
			J1-131					.10	NO		8	
A 45	1		P3-F					.22	NO		13	
			E6					.37	NO			
A 46	1		P3-G					.22	NO		13	
			P1-3					.10	NO		8	
A 47	1		P3-H					.22	NO		13	
			P1-2					.10	NO		8	
A 48	1		P3-J					.22	NO		13	
			J1-91					.10	NO		8	

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P8-B E3					.22 .37	NO NO		13	
A 98	1		P8-C ~~[illegible]~~ P1-108					.22 .10 ~~.18~~	NO NO		13 8	
A 99	1		P8-D ~~[illegible]~~ P1-107					.22 .10	NO NO		13 8	
A 100	1		P8-E ~~[illegible]~~ J1-127					.22 .10	NO NO		13 8	
A 101	1		P8-F E3					.22 .37	NO NO		13	
A 102	1		P8-G ~~[illegible]~~ P1-95					.22 .10	NO NO		13 8	
A 103	1		P8-H ~~[illegible]~~ P1-94					.22 .10	NO NO		13 8	
A 104	1		~~[illegible]~~ P8-T* J1-55					.22 .10	NO NO		13 8	
A 105	1		~~[illegible]~~ P8-U* E3					.22 .37	NO NO		13	
A 106	1		~~[illegible]~~ P8-V* P1-42					.22 .10	NO NO		13 8	
A 107	1		~~[illegible]~~ P8-W* P1-53					.22 .10	NO NO		13 8	
A 108	1		P8-N ~~[illegible]~~ J1-79					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P8-P E3					.22 .37	NO NO		13	
A 110	1		P8-R ~~[illegible]~~ P1-11					.22 .10	NO NO		13 8	
A 111	1		P8-S ~~[illegible]~~ P1-25					.22 .10	NO NO		13 8	
A 112	1		P8-T ~~[illegible]~~ J1-63					.22 .10	NO NO		13 8	
A 113	1		P8-U E3					.22 .37	NO NO		13	
A 114	1		P8-V ~~[illegible]~~ P1-46					.22 .10	NO NO		13 8	
A 115	1		P8-W ~~[illegible]~~ P1-36					.22 .10	NO NO		13 8	
A 116	1		P8-X ~~[illegible]~~ J1-46					.22 .10	NO NO		13 8	
A 117	1		P8-Y E3					.22 .37	NO NO		13	
A 118	1		P8-Z ~~[illegible]~~ P1-13					.22 .10	NO NO		13 8	
A 119	1		P8-A* ~~[illegible]~~ P1-27					.22 .10	NO NO		13 8	
A 120	1		P8-B* J1-86					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 15 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P8-C* E3					.22 .37	NO NO		13	
A 122	1		P8-D* P1-98					.22 .10	NO NO		13 8	
A 123	1		P8-E* E4					.22 .37	NO NO		13	
A 124	1		P8-F* J1-69					.22 .10	NO NO		13 8	
A 125	1		P8-G* E3					.22 .37	NO NO		13	
A 126	1		P8-H* P1-85					.22 .10	NO NO		13 8	
A 127	1		P8-I* E4					.22 .37	NO NO		13	
A 128	1		P8-J* J1-68					.22 .10	NO NO		13 8	
A 129	1		P8-K* E3					.22 .37	NO NO		13	
A 130	1		P8-M* P1-97					.22 .10	NO NO		13 8	
A 131	1		P8-N* E4					.22 .37	NO NO		13	
A 132	1		P8-P* J1-52					.22 .10	NO NO		13 8	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 16 OF 19

MIL 2084 9-65

CABLE ASSEMBLY SCA 2901217 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P8-Q* E3					.22 .37	NO NO		13	
A 134	1		P8-R* P1-73					.22 .10	NO NO		13 8	
A 135	1		P8-S* E4					.22 .37	NO NO		13	
A 136	1		P8-BB J1-72					.22 .10	NO NO		13 8	
A 137	1		P8-CC E3					.22 .37	NO NO		13	
A 138	1		P8-DD P1-7					.22 .10	NO NO		13 8	
A 139	1		P8-EE P1-21					.22 .10	NO NO		13 8	
A 140	19		P6-A P2-N					.22 .22	NO NO		13	
A 141	19		P6-B P2-P					.22 .22	NO NO		13	
A 142	19		P6-E P2-T					.22 .22	NO NO		13	
A 143	19		P6-F P2-U					.22 .22	NO NO		13	
A 144	19		P6-FF P2-Z					.22 .22	NO NO		~~13~~	

SIZE	CODE IDENT NO.	
A	99974	2901217
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF 19

MIL 2084 9-65

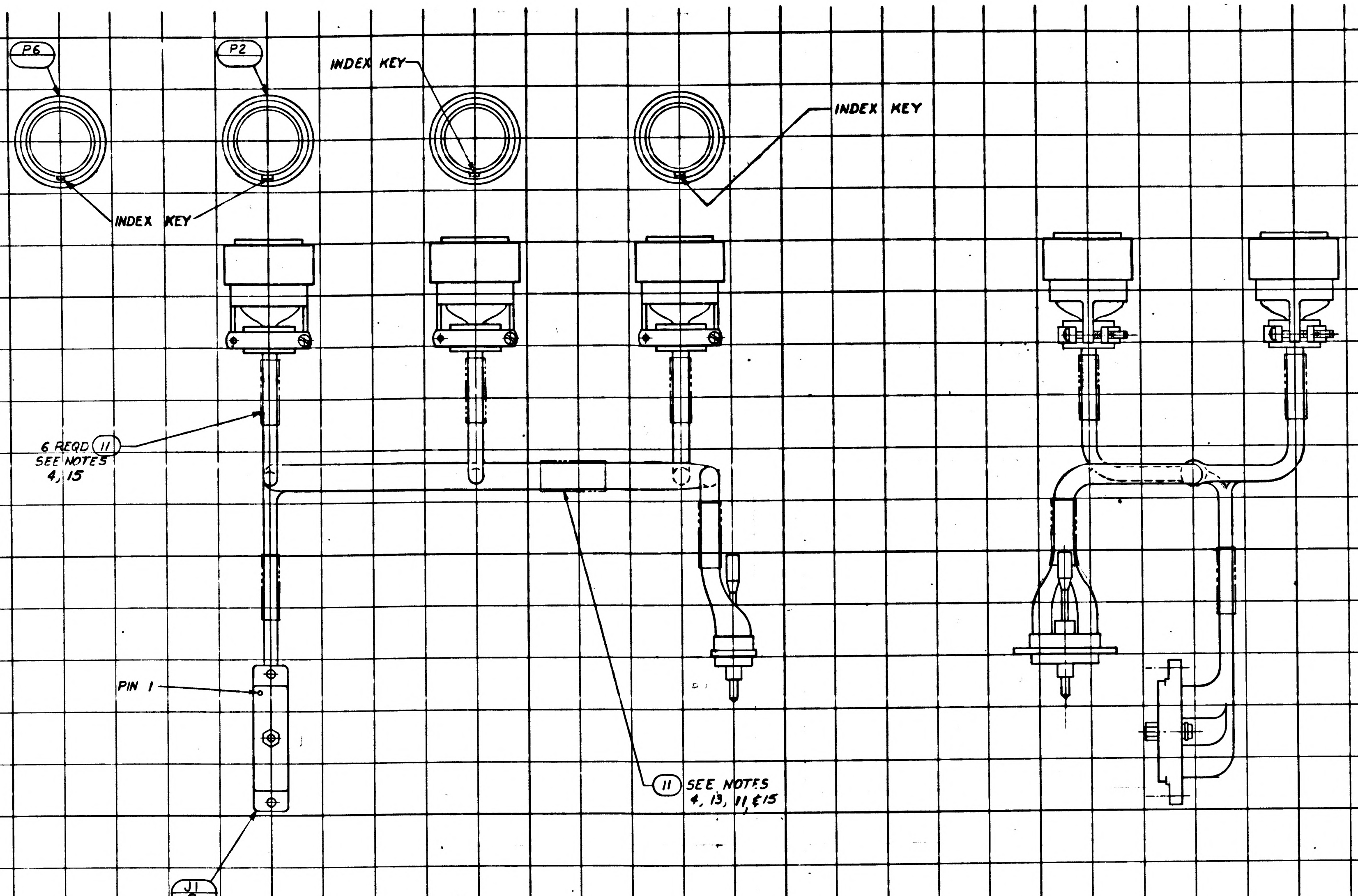
CABLE ASSEMBLY SCA 2901217 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	19		P6-GG					.22	NO		13	
			P2-A*					.22	NO			

SIZE A	CODE IDENT NO. 99974	2901217
SCALE-NONE	REV LTR E	SHEET 18 OF 19

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
6 REQD (11)
SEE NOTES 4, 15
PIN 1
(11) SEE NOTES 4, 13, 11, & 15
J1 6

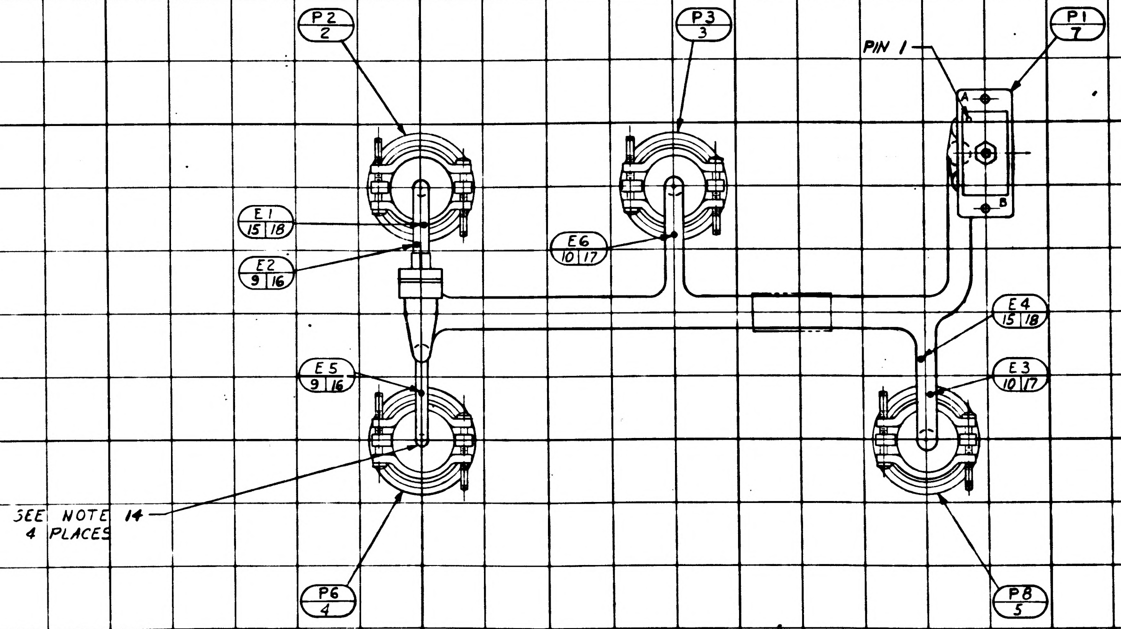

P2 2
P3 3
P1 7
PIN 1
A
B
E1 15 18
E2 9 16
E6 10 17
E4 15 18
E5 9 16
E3 10 17
SEE NOTE 14 4 PLACES
P6 4
P8 5

TABLE 1

PLUG	TERMINATION MARKING
P1	P1 (J1-SCA)
P2	P2 (J2-IN/OUT PANEL)
P3	P3 (J3-IN/OUT PANEL)
P6	P6 (J6-IN/OUT PANEL)
P8	P8 (J8-IN/OUT PANEL)
J1	J1 (P1-SCA)

2901044-011	2900895-011	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
NEXT ASSY	USED ON	DO NOT SCALE THIS DRAWING	DRAWN Mendum DATE 3 MAR 65 CHECKED APPROVAL CONTRACT NAS 9-497	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, SERIES "O" SCA	
APPLICATION		MATERIAL SEE SHEET 4	NASA APPROVAL	SIZE E	CODE IDENT NO. 99974
		APPROVAL	MIT APPROVAL	SCALE 1:1	2901217 SHEET 13 OF 13

2901217

2901217 REV F

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER DO 61845	29 MAR 66	HTO
B	REVISED PER DO.61884	5 APR 66	FRW
C	REVISED PER MXC 211535	21 APR 66	B. AU
D	REVISED PER MXC 211841	28 APR 66	JHP RWH
E	REVISED PER MXC 211975	29 APR 66	GM JRS
F	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF

Charleston
11 MAR. 66

REV	F	F	F	F	F
SHEET	21	22	23	24	25

REV STATUS OF SHEETS																					
REV	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. J. Eluda DATE 22-FEB-66
CHECKED M. [illegible] 10 MAR 66
APPROVAL R. Carini 22 Mar 66
APPROVAL

NASA APPROVAL
MIT APPROVAL 5-11-66

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-012)
SCA

CODE IDENT NO. 99974
SIZE A
2901218
REV F

CONTRACT NAS9-497
SCALE —
SHEET 1 OF 25

CABLE ASSEMBLY 2901218 D★F

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 16.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 8, 9 AND 10
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★D F	SHEET 2 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 D★F

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GRUMMET OR CABLE CLAMP USING ITEM 18 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP
15	MARK ITEM 15 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★D F	SHEET 3 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 D★F

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901218-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 205 FT TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR PLUG, ELECTRICAL
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG, ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
7	8	1	1897398-001	CONNECTOR, RECEPTACLE, ELECTRICAL
7	9	1	1897171- 4	CONNECTOR, RECEPTACLE, ELECTRICAL
7	10	1	1897250-013	CONNECTOR, PLUG, ELECTRICAL
7	11	123	1010738-006	CONTACT, SOCKET
7	12	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 10)
7	13	8	1010490-258	INSULATION SLEEVING
7	14	3	1010490-228	INSULATION SLEEVING
7	15	9	1016128-011	BAND, IDENTICATION
7	16	AR	1012507-004	TAPE, LACING AND TYING
	17	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 3 THRU 7)
14	18	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★D F	SHEET 4 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 F D★

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	19	1	1010933-101	CLAMP CABLE ELEC.
7	20	8	1016006-001	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
	22	1	2901218-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 14 FT TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★D F	SHEET 5 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 D★F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	E1 P1-84					.37 .10	NO NO		 11	
A	2	1	E11 P1-32					.37 .10	NO NO		 11	
A	3	1	E3 E4					.37 .37	NO NO			
A	4	1	E5 E6					.37 .37	NO NO			
A	5	1	E6 P1-23					.37 .10	NO NO		 11	
A	6	1	E3 E7					.37 .37	NO NO			
A	7	1	E3 E8					.37 .37	NO NO			
A	8	1	E8 J1-71					.37 .10	NO NO		 11	
A	9	1	E9 P1-48					.37 .10	NO NO		 11	
A	10	1	E4 E2					.37 .37	NO NO			
A	11	1	E10 P1-103					.37 .10	NO NO		 11	
A	12	1	P2-A J1-60					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★D F	SHEET 6 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 F ~~E~~ D★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	P2-B E4					.22 .37	NO NO		17	
A	14	1	P2-C P1-20					.22 .10	NO NO		17 11	
A	15	1	P2-D E5					.22 .37	NO NO		17	
A	16	1	P2-E J1-59					.22 .10	NO NO		17 11	
A	17	1	P2-F E4					.22 .37	NO NO		17	
A	18	1	P2-G P1-19					.22 .10	NO NO		17 11	
A	19	1	P2-H E5					.22 .37	NO NO		17	
A	20	1	P2-J J1-62					.22 .10	NO NO		17 11	
A	21	1	P2-K E4					.22 .37	NO NO		17	
A	22	1	P2-L P1-4					.22 .10	NO NO		17 11	
A	23	1	P2-M P1-18					.22 .10	NO NO		17 11	
A	24	1	P2-B* J1-87					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★DE F	SHEET 7 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 E D★F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1	P2-C* E4					.22 .37	NO NO		17	
A	26	1	P2-D* P1-106					.22 .10	NO NO		17 11	
A	27	1	P2-E* P1-93					.22 .10	NO NO		17 11	
A	28	1	P2-F* J1-20					.22 .10	NO NO		17 11	
A	29	1	P2-G* E4					.22 .37	NO NO		17	
A	30	1	P2-H* P1-102					.22 .10	NO NO		17 11	
A	31	1	P2-I* E10					.22 .37	NO NO		17	
A	32	1	P2-J* J1-61					.22 .10	NO NO		17 11	
A	33	1	P2-K* E4					.22 .37	NO NO		17	
A	34	1	P2-V* J1-44					.22 .10	NO NO		17 11	
A	35	1	P2-W* E4					.22 .37	NO NO		17	
A	36	1	P2-X* P1-12					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★DE F	SHEET 8 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 D★F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1	P2-Y* E5					.22 .37	NO NO		17	
A	38	1	P2-Y P1-66					.22 .10	NO NO		17 11	
A	39	1	P2-GG J1-45					.22 .10	NO NO		17 11	
A	40	1	P2-HH E4					.22 .37	NO NO		17	
A	41	1	P2-JJ P1-10					.22 .10	NO NO		17 11	
A	42	1	P2-KK E5					.22 .37	NO NO		17	
A	43	1	P2-LL J1-22					.22 .10	NO NO		17 11	
A	44	1	P2-MM E4					.22 .37	NO NO		17	
A	45	1	P2-NN P1-88					.22 .10	NO NO		17 11	
A	46	1	P2-PP E10					.22 .37	NO NO		17	
A	47	1	P2-X P1-65					.22 .10	NO NO		17 11	
A	48	1	P3-A J1-90					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ★F F	SHEET 9 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-B E3					.22 .37	NO NO		17	
A 50	1		P3-C P1-14					.22 .10	NO NO		17 11	
A 51	1		P3-D P1-1					.22 .10	NO NO		17 11	
A 52	1		P3-E J1-131					.22 .10	NO NO		17 11	
A 53	1		P3-F E3					.22 .37	NO NO		17	
A 54	1		P3-G P1-3					.22 .10	NO NO		17 11	
A 55	1		P3-H P1-2					.22 .10	NO NO		17 11	
A 56	1		P3-J J1-91					.22 .10	NO NO		17 11	
A 57	1		P3-K E3					.22 .37	NO NO		17	
A 58	1		P3-L P1-29					.22 .10	NO NO		17 11	
A 59	1		P3-M P1-15					.22 .10	NO NO		17 11	
A 60	1		P3-N J1-130					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~D~~ F	SHEET 10 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-P E3					.22 .37	NO NO		17	
A 62	1		P3-R P1-28					.22 .10	NO NO		17 11	
A 63	1		P3-S P1-40					.22 .10	NO NO		17 11	
A 64	1		P3-T J1-108					.22 .10	NO NO		17 11	
A 65	1		P3-U E3					.22 .37	NO NO		17	
A 66	1		P3-V P1-17					.22 .10	NO NO		17 11	
A 67	1		P3-W P1-16					.22 .10	NO NO		17 11	
A 68	1		P -X J1-110					.22 .10	NO NO		17 11	
A 69	1		P3-Y E3					.22 .37	NO NO		17	
A 70	1		P3-Z P1-30					.22 .10	NO NO		17 11	
A 71	1		P3-A* P1-31					.22 .10	NO NO		17 11	
A 72	1		P3-B* J1-88					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~D~~ F	SHEET 11 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-C* E3					.22 .37	NO NO		17	
A 74	1		P3-D* P1-96					.22 .10	NO NO		17 11	
A 75	1		P3-E* P1-82					.22 .10	NO NO		17 11	
A 76	1		P3-F* J1-107					.22 .10	NO NO		17 11	
A 77	1		P3-G* E3					.22 .37	NO NO		17	
A 78	1		P3-H* P1-70					.22 .10	NO NO		17 11	
A 79	1		P3-I* P1-71					.22 .10	NO NO		17 11	
A 80	1		P3-J* J1-128					.22 .10	NO NO		17 11	
A 81	1		P3-K* E3					.22 .37	NO NO		17	
A 82	1		P3-M* P1-72					.22 .10	NO NO		17 11	
A 83	1		P3-N* P1-83					.22 .10	NO NO		17 11	
A 84	1		P3-BB J1-34					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~D~~ F	SHEET 12 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-CC E3					.22 .37	NO NO		17	
A 86	1		P3-DD P1-47					.22 .10	NO NO		17 11	
A 87	1		P3-EE E9					.22 .37	NO NO		17	
A 88	1		P3-FF J1-~~[illegible]~~ 51					.22 .10	NO NO		17 11	
A 89	1		P3-GG E3					.22 .37	NO NO		17	
A 90	1		P3-HH P1-38					.22 .10	NO NO		17 11	
A 91	1		P3-JJ E9					.22 .37	NO NO		17	
A 92	1		P6-T J1-58					.22 .10	NO NO		17 11	
A 93	1		P6-U E2					.22 .37	NO NO		17	
A 94	1		P6-V P1-92					.22 .10	NO NO		17 11	
A 95	1		P6-X J1-56					.22 .10	NO NO		17 11	
A 96	1		P6-Y E2					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~D~~ F	SHEET 13 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-Z P1-90					.22 .10	NO NO		17 11	
A 98	1		P6-A* E10					.22 .37	NO NO		17	
A 99	1		P6-B* J1-17					.22 .10	NO NO		17 11	
A 100	1		P6-C* E2					.22 .37	NO NO		17	
A 101	1		P6-D* P1-61					.22 .10	NO NO		17 11	
A 102	1		P6-F* J1-18					.22 .10	NO NO		17 11	
A 103	1		P6-G* E2					.22 .37	NO NO		17	
A 104	1		P6-H* P1-60					.22 .10	NO NO		17 11	
A 105	1		P6-J* J1-35					.22 .10	NO NO		17 11	
A 106	1		P6-K* E2					.22 .37	NO NO		17	
A 107	1		P6-M* P1-50					.22 .10	NO NO		17 11	
A 108	1		P6-N* P1-51					.22 .10	NO NO		17 11	

SIZE A	CODE IDENT NO. 99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ F	SHEET 14 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-X* J2-16					.22 .15	NO NO		17 12	
A 110	1		P6-Y* J2-17					.22 .15	NO NO		17 12	
A 111	1		P6-Z* P1-33					.22 .10	NO NO		17 11	
A 112	1		P6-BB J2-14					.22 .15	NO NO		17 12	
A 113	1		P6-CC J2-15					.22 .15	NO NO		17 12	
A 114	1		P6-DD P1-43					.22 .10	NO NO		17 11	
A 115	1		P6-FF J2-18					.22 .15	NO NO		17 12	
A 116	1		P6-GG J2-19					.22 .15	NO NO		17 12	
A 117	1		P6-HH P1-44					.22 .10	NO NO		17 11	
A 118	1		P6-JJ E11					.22 .37	NO NO		17	
A 119	1		P7-E J1-39					.22 .10	NO NO		17 11	
A 120	1		P7-F E8					.22 .37	NO NO		17	

SIZE A	CODE IDENT NO. 99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ F	SHEET 15 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P7-G P1-105					.22 .10	NO NO		17 11	
A 122	1		P7-H E10					.22 .37	NO NO		17	
A 123	1		P7-J J1-83					.22 .10	NO NO		17 11	
A 124	1		P7-K J1-66					.22 .10	NO NO		17 11	
A 125	1		P7-L J2-1					.22 .15	NO NO		17 12	
A 126	1		P7-M J2-2					.22 .15	NO NO		17 12	
A 127	1		P7-N J1-101					.22 .10	NO NO		17 11	
A 128	1		P7-P J1-100					.22 .10	NO NO		17 11	
A 129	1		P7-R J2-4					.22 .15	NO NO		17 12	
A 130	1		P7-S J2-5					.22 .15	NO NO		17 12	
A 131	1		P7-T J1-119					.22 .10	NO NO		17 11	
A 132	1		P7-U J1-120					.22 .10	NO NO		17 11	

SIZE A	CODE IDENT NO. 99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ F	SHEET 16 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~B~~ ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-V J2-7					.22 .15	NO NO		17 12	
A 134	1		P7-W J2-8					.22 .15	NO NO		17 12	
A 135	1		P7-X J1-40					.22 .10	NO NO		17 11	
A 136	1		P7-Y E8					.22 .37	NO NO		17	
A 137	1		P7-Z P1-104					.22 .10	NO NO		17 11	
A 138	1		P7-A* E10					.22 .37	NO NO		17	
A 139	22		P6-A P2-T					.22 .22	NO NO		17 17	
A 140	22		P6-B P2-U					.22 .22	NO NO		17 17	
A 141	22		P6-E P2-N					.22 .22	NO NO		17 17	
A 142	22		P6-F P2-P					.22 .22	NO NO		17 17	
A 143	22		P8-FF P2-Z					.22 .22	NO NO		17 17	
A 144	22		P8-GG P2-A*					.22 .22	NO NO		17 17	

SIZE A	CODE IDENT NO. 99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ ~~E~~ F	SHEET 17 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~E D E~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	22		P6-J P2-R					.22 .22	NO NO		17 17	
A 146	22		P6-K P2-S					.22 .22	NO NO		17 17	
A 147	1		P2-R P1-45					.22 .10	NO NO		 11	
A 148	1		P2-S P1-55					.22 .10	NO NO		 11	
A 151	1		P7-FF J1-50					.22 .10	NO NO		17 11	
A 152	1		P7-GG E8					.22 .37	NO NO		17	
A 153	1		P7-HH P1-49					.22 .10	NO NO		17 11	
A 154	1		P7-JJ E9					.22 .37	NO NO		17	
A 155	1		P7-KK J1-15					.22 .10	NO NO		17 11	
A 156	1		P7-LL E8					.22 .37	NO NO		17	
A 157	1		P7-MM P1-37					.22 .10	NO NO		17 11	
A 158	1		P7-NN E9					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.		
A	99974	2901218	25
SCALE-NONE	REV LTR ~~B D E~~ F	SHEET 18 OF ~~24~~	

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~E D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 159	1		P8-A ~~[illegible]~~ J1-105					.22 .10	NO NO		17 11	
A 160	1		P8-B E7					.22 .37	NO NO		17	
A 161	1		P8-C ~~[illegible]~~ P1-108					.22 .10	NO NO		17 11	
A 162	1		P8-J [illegible] P1-107					.22 ~~.37~~ .10	NO NO		17 11	
A 163	1		P8-F ~~J1-~~ J1-127					.22 .10	NO NO		17 11	
A 164	1		P8-F E7					.22 .37	NO NO		17	
A 165	1		P8-G ~~P1-~~ P1-95					.22 .10	NO NO		17 11	
A 166	1		P8-H ~~E6~~ P1-94					.22 ~~.37~~ .10	NO NO		17 11	
A 167	1		P8-J ~~J1-~~ J1-89					.22 .10	NO NO		17 11	
A 168	1		P8-K E7					.22 .37	NO NO		17	
A 169	1		P8-L ~~P1-~~ P1-35					.22 .10	NO NO		17 11	
A 170	1		P8-M ~~P1-~~ E6					.22 ~~.10~~ .37	NO NO		17 ~~11~~	

SIZE	CODE IDENT NO.		
A	99974	2901218	25
SCALE-NONE	REV LTR ~~A D E~~ F	SHEET 19 OF ~~24~~	

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~E D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 171	1		P8-N ~~J1-~~ J1-79					.22 .10	NO NO		17 11	
A 172	1		P8-P E7					.22 .37	NO NO		17	
A 173	1		P8-R ~~P1-~~ P1-11					.22 .10	NO NO		17 11	
A 174	1		P8-S [illegible] E6					.22 ~~.10~~ .37	NO NO		17 ~~11~~	
A 175	1		P8-T ~~J1-105~~ J1-63					.22 .10	NO NO		17 11	
A 176	1		P8-U E7					.22 .37	NO NO		17	
A 177	1		P8-V ~~P1-100~~ P1-46					.22 .10	NO NO		17 11	
A 178	1		P8-W ~~J1-107~~ E6					.22 ~~.10~~ .37	NO NO		17 ~~11~~	
A 179	1		P8-X ~~J1-127~~ J1-46					.22 .10	NO NO		17 11	
A 180	1		P8-Y E7					.22 .37	NO NO		17	
A 181	1		P8-Z ~~P1-95~~ P1-13					.22 .10	NO NO		17 11	
A 182	1		P8-A* ~~P1-94~~ E6					.22 ~~.10~~ .37	NO NO		17 ~~11~~	

SIZE	CODE IDENT NO.		
A	99974	2901218	25
SCALE-NONE	REV LTR ~~A D E~~ F	SHEET 20 OF ~~24~~	

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 183	1		P8-B* J1-86					.22 .10	NO NO		17 11	
A 184	1		P8-C* E7					.22 .37	NO NO		17	
A 185	1		P8-D* P1-98					.22 .10	NO NO		17 11	
A 186	1		P8-E* E1					.22 .37	NO NO		17	
A 187	1		P8-F* J1-69					.22 .10	NO NO		17 11	
A 188	1		P8-G* E7					.22 .37	NO NO		17	
A 189	1		P8-H* P1-85					.22 .10	NO NO		17 11	
A 190	1		P8-I* E1					.22 .37	NO NO		17	
A 191	1		P8-J* J1-68					.22 .10	NO NO		17 11	
A 192	1		P8-K* E7					.22 .37	NO NO		17	
A 193	1		P8-M* P1-97					.22 .10	NO NO		17 11	
A 194	1		P8-N* E1					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.		
A	99974	2901218	25
SCALE-NONE	REV LTR ~~A D~~ F	SHEET 21 OF ~~24~~	

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~E~~ ~~D~~ ~~A~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	1		P8-P* J1-52					.22 .10	NO NO		17 11	
A 196	1		P8-Q* E7					.22 .37	NO NO		17	
A 197	1		P8-R* P1-73					.22 .10	NO NO		17 11	
A 198	1		P8-S* E1					.22 .37	NO NO		17	
A 199	1		P8-T* ~~[illegible]~~ J1-55					.22 .10	NO NO		17 11	
A 200	1		P8-U* E7					.22 .37	NO NO		17	
A 201	1		P8-V* ~~[illegible]~~ P1-42					.22 .10	NO NO		17 11	
A 202	1		P8-W* ~~[illegible]~~ P1-53					.22 ~~.37~~ .10	NO NO		17 11	
A 203	1		P8-X* J2-10					.22 .15	NO NO		17 12	
A 204	1		P8-Y* J2-11					.22 .15	NO NO		17 12	
A 205	22		P8-Z* P2-G					.22 .22	NO NO		17	
A 206	1		P8-AA E6					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ ~~E~~ F	SHEET 22 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 ~~E~~ ~~D~~ ~~A~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		P8-BB J1-72					.22 .10	NO NO		17 11	
A 208	1		P8-CC E7					.22 .37	NO NO		17	
A 209	1		P8-DD P1-7					.22 .10	NO NO		17 11	
A 210	1		P8-EE P1-21					.22 .10	NO NO		17 11	
A 211	1		P2-T P1-59					.22 .10	NO NO		~~17~~ 11	
A 212	1		P2-U P1-58					.22 .10	NO NO		~~17~~ 11	
A 213	1		P2-N P1-9					.22 .10	NO NO		~~17~~ 11	
A 214	1		P2-P P1-8					.22 .10	NO NO		~~17~~ 11	
A 215	1		P2-Z P1-5					.22 .10	NO NO		~~17~~ 11	
A 216	1		P2-A* P1-6					.22 .10	NO NO		~~17~~ 11	
A 217	1		J2-13 P2-U*					.15 .22	NO NO		12 17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~A~~ ~~D~~ ~~E~~ F	SHEET 23 OF ~~24~~ 25

MIL 2084 9-65

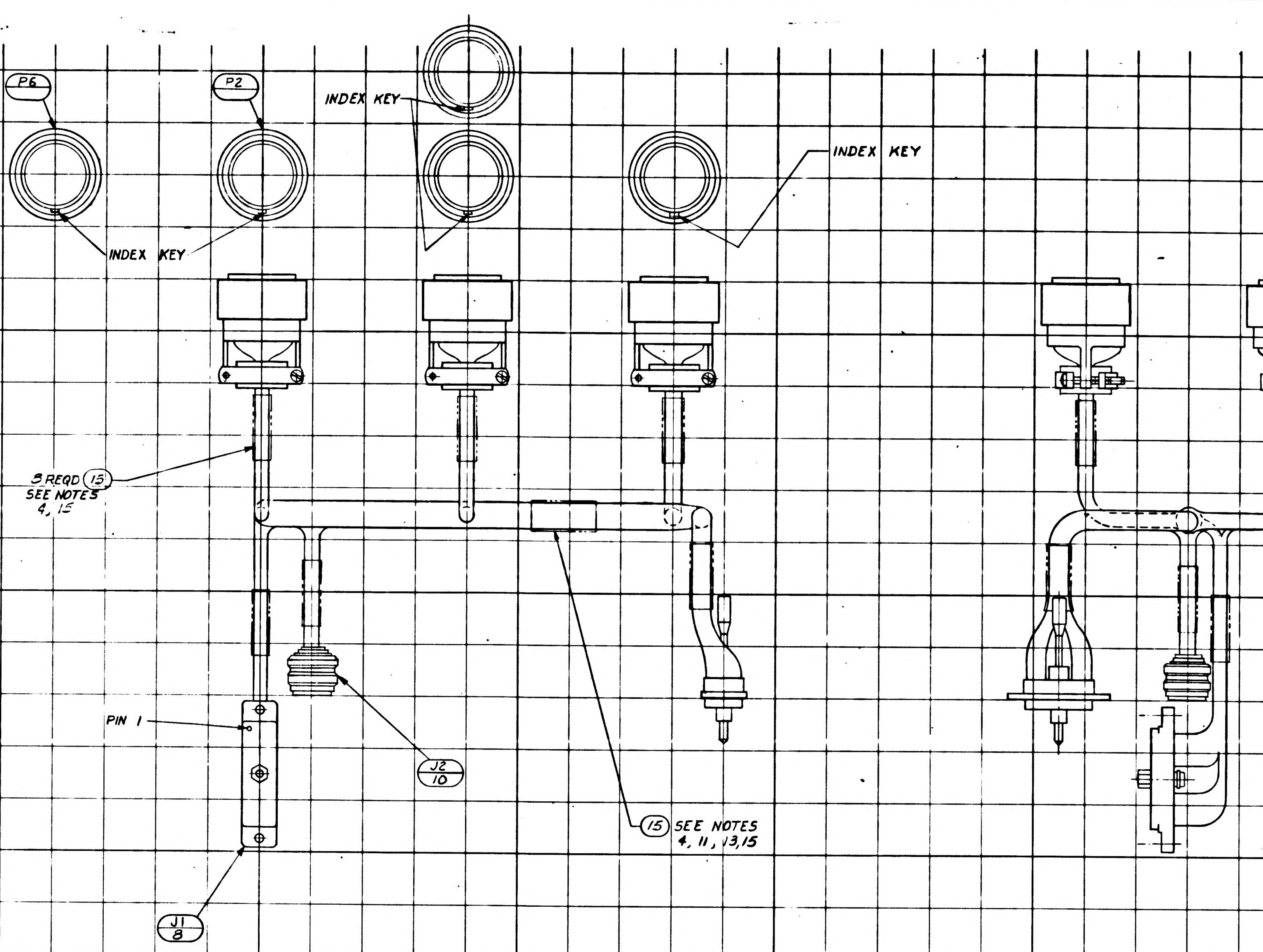
CABLE ASSEMBLY 2901218 ~~D~~ F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 218	2		P2-X P3-KK					.22 .22	NO NO		17	
A 219	2		P2-Y P3-LL					.22 .22	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR ~~D~~ F	SHEET 24 of 25

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REV. RECORD			


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
3 REQD (15)
SEE NOTES 4, 15
PIN 1
J2
10
(15) SEE NOTES 4, 11, 13, 15
J1
8

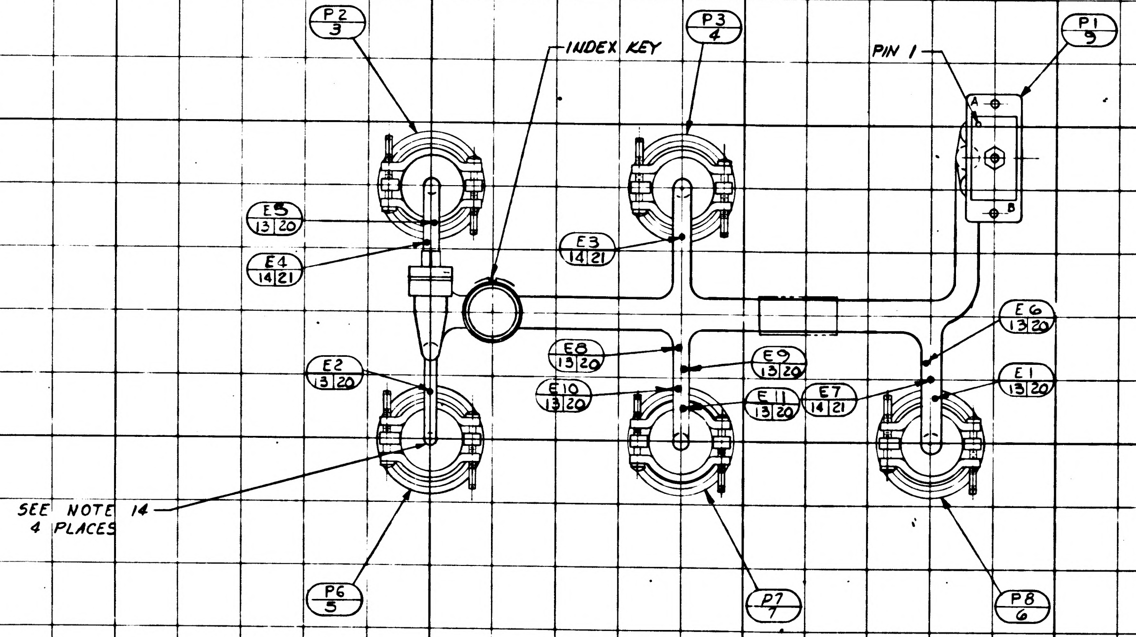

P2
3
INDEX KEY
P3
4
PIN 1
P1
9
A
B
E5
13 20
E4
14 21
E3
14 21
E6
13 20
E8
13 20
E9
13 20
E2
13 20
E10
13 20
E11
13 20
E7
14 21
E1
13 20
SEE NOTE 14
4 PLACES
P6
5
P7
7
P8
6

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL SEE SHEET 3

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN DATE 23 FEB 66
CHECKED 8 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50 (-012)
SCA

SIZE E
CODE IDENT NO. 99974
2901218
SCALE 1:1
SHEET 25 OF 25

2901218 REV F

2901218

MX-10006I

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER DO 61845	29 MAR 66	HTO
B	REVISED PER DO 61884	5 APR 66	FRW
C	REVISED PER MXC 211535	21 APR 66	B. AU
D	REVISED PER MXC 211841	28 APR 66	JHP RWH
E	REVISED PER MXC 211975	29 APR 66	GM JRS
F	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
G	REVISED PER TDRR 29419	14 JUN 66	

Charleston
11 MAR 66

REV		G	G	G	G	G															
SHEET		21	22	23	24	25															
REV STATUS	REV	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN A. J. Eluda DATE 22-FEB-66
CHECKED 10 MAR 66
APPROVAL 22 MAR 66
APPROVAL

NASA APPROVAL 5/6/66
MIT APPROVAL 5-11-66

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-012)
SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901218	G

CONTRACT NAS9-497

SCALE —

SHEET 1 OF 25

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 16.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 8, 9 AND 10
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 2 OF 25

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 18 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP
15	MARK ITEM 15 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR BLACK.
16	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 3 OF 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901218-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 205 FT TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR PLUG, ELECTRICAL
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG, ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
7	8	1	1897398-001	CONNECTOR, RECEPTACLE, ELECTRICAL
7	9	1	1897171- 4	CONNECTOR, RECEPTACLE, ELECTRICAL
7	10	1	1897250-013	CONNECTOR, PLUG, ELECTRICAL
7	11	123	1010738-006	CONTACT, SOCKET
7	12	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 10)
7	13	8	1010490-258	INSULATION SLEEVING
7	14	3	1010490-226	INSULATION SLEEVING
7	15	9	1016128-011	BAND, IDENTICATION
7	16	AR	1012507-004	TAPE, LACING AND TYING
	17	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 3 THRU 7)
14	18	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 4 OF 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	19	1	1010933-101	CLAMP CABLE ELEC.
7	20	8	1016006-001	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
	22	1	2901218-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 14 FT TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 5 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P1-84					.10	NO		11	
A 2	1		E11					.37	NO			
			P1-32					.10	NO		11	
A 3	1		E3					.37	NO			
			E4					.37	NO			
A 4	1		E5					.37	NO			
			E6					.37	NO			
A 5	1		E6					.37	NO			
			P1-23					.10	NO		11	
A 6	1		E3					.37	NO			
			E7					.37	NO			
A 7	1		E3					.37	NO			
			E8					.37	NO			
A 8	1		E8					.37	NO			
			J1-71					.10	NO		11	
A 9	1		E9					.37	NO			
			P1-48					.10	NO		11	
A 10	1		E4					.37	NO			
			E2					.37	NO			
A 11	1		E10					.37	NO			
			P1-103					.10	NO		11	
A 12	1		P2-A					.22	NO		17	
			J1-60					.10	NO		11	

SIZE A	CODE IDENT NO. 99974	2901218					
SCALE-NONE	REV LTR	G	SHEET	6 OF 25			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-B					.22	NO		17	
			E4					.37	NO			
A 14	1		P2-C					.22	NO		17	
			P1-20					.10	NO		11	
A 15	1		P2-D					.22	NO		17	
			E5					.37	NO			
A 16	1		P2-E					.22	NO		17	
			J1-59					.10	NO		11	
A 17	1		P2-F					.22	NO		17	
			E4					.37	NO			
A 18	1		P2-G					.22	NO		17	
			P1-19					.10	NO		11	
A 19	1		P2-H					.22	NO		17	
			E5					.37	NO			
A 20	1		P2-J					.22	NO		17	
			J1-62					.10	NO		11	
A 21	1		P2-K					.22	NO		17	
			E4					.37	NO			
A 22	1		P2-L					.22	NO		17	
			P1-4					.10	NO		11	
A 23	1		P2-M					.22	NO		17	
			P1-18					.10	NO		11	
A 24	1		P2-B*					.22	NO		17	
			J1-87					.10	NO		11	

SIZE A	CODE IDENT NO. 99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	7 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-C*					.22	NO		17	
			E4					.37	NO			
A 26	1		P2-D*					.22	NO		17	
			P1-106					.10	NO		11	
A 27	1		P2-E*					.22	NO		17	
			P1-93					.10	NO		11	
A 28	1		P2-F*					.22	NO		17	
			J1-20					.10	NO		11	
A 29	1		P2-G*					.22	NO		17	
			E4					.37	NO			
A 30	1		P2-H*					.22	NO		17	
			P1-102					.10	NO		11	
A 31	1		P2-I*					.22	NO		17	
			E10					.37	NO			
A 32	1		P2-J*					.22	NO		17	
			J1-61					.10	NO		11	
A 33	1		P2-K*					.22	NO		17	
			E4					.37	NO			
A 34	1		P2-V*					.22	NO		17	
			J1-44					.10	NO		11	
A 35	1		P2-W*					.22	NO		17	
			E4					.37	NO			
A 36	1		P2-X*					.22	NO		17	
			P1-12					.10	NO		11	

SIZE A	CODE IDENT NO. 99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	8 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-Y*					.22	NO		17	
			E5					.37	NO			
A 38	1		P2-N*					.22	NO		17	
			P1-66					.10	NO		11	
A 39	1		P2-GG					.22	NO		17	
			J1-45					.10	NO		11	
A 40	1		P2-HH					.22	NO		17	
			E4					.37	NO			
A 41	1		P2-JJ					.22	NO		17	
			P1-10					.10	NO		11	
A 42	1		P2-KK					.22	NO		17	
			E5					.37	NO			
A 43	1		P2-LL					.22	NO		17	
			J1-22					.10	NO		11	
A 44	1		P2-MM					.22	NO		17	
			E4					.37	NO			
A 45	1		P2-NN					.22	NO		17	
			P1-88					.10	NO		11	
A 46	1		P2-PP					.22	NO		17	
			E10					.37	NO			
A 47	1		P2-M*					.22	NO		17	
			P1-65					.10	NO		11	
A 48	1		P3-A					.22	NO		17	
			J1-90					.10	NO		11	

SIZE A	CODE IDENT NO. 99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	9 OF 25

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-B E3					.22 .37	NO NO		17	
A 50	1		P3-C P1-14					.22 .10	NO NO		17 11	
A 51	1		P3-D P1-1					.22 .10	NO NO		17 11	
A 52	1		P3-E J1-131					.22 .10	NO NO		17 11	
A 53	1		P3-F E3					.22 .37	NO NO		17	
A 54	1		P3-G P1-3					.22 .10	NO NO		17 11	
A 55	1		P3-H P1-2					.22 .10	NO NO		17 11	
A 56	1		P3-J J1-91					.22 .10	NO NO		17 11	
A 57	1		P3-K E3					.22 .37	NO NO		17	
A 58	1		P3-L P1-29					.22 .10	NO NO		17 11	
A 59	1		P3-M P1-15					.22 .10	NO NO		17 11	
A 60	1		P3-N J1-130					.22 .10	NO NO		17 11	

SIZE A
CODE IDENT NO. 99974
2901218
SCALE-NONE
REV LTR G
SHEET 10 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-P E3					.22 .37	NO NO		17	
A 62	1		P3-R P1-28					.22 .10	NO NO		17 11	
A 63	1		P3-S P1-40					.22 .10	NO NO		17 11	
A 64	1		P3-T J1-108					.22 .10	NO NO		17 11	
A 65	1		P3-U E3					.22 .37	NO NO		17	
A 66	1		P3-V P1-17					.22 .10	NO NO		17 11	
A 67	1		P3-W P1-16					.22 .10	NO NO		17 11	
A 68	1		P3-X J1-110					.22 .10	NO NO		17 11	
A 69	1		P3-Y F3					.22 .37	NO NO		17	
A 70	1		P3-Z P1-30					.22 .10	NO NO		17 11	
A 71	1		P3-A* P1-31					.22 .10	NO NO		17 11	
A 72	1		P3-B* J1-88					.22 .10	NO NO		17 11	

SIZE A
CODE IDENT NO. 99974
2901218
SCALE-NONE
REV LTR G
SHEET 11 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-C* E3					.22 .37	NO NO		17	
A 74	1		P3-D* P1-96					.22 .10	NO NO		17 11	
A 75	1		P3-E* P1-82					.22 .10	NO NO		17 11	
A 76	1		P3-F* J1-107					.22 .10	NO NO		17 11	
A 77	1		P3-G* E3					.22 .37	NO NO		17	
A 78	1		P3-H* P1-70					.22 .10	NO NO		17 11	
A 79	1		P3-I* P1-71					.22 .10	NO NO		17 11	
A 80	1		P3-J* J1-128					.22 .10	NO NO		17 11	
A 81	1		P3-K* E3					.22 .37	NO NO		17	
A 82	1		P3-M* P1-72					.22 .10	NO NO		17 11	
A 83	1		P3-N* P1-83					.22 .10	NO NO		17 11	
A 84	1		P3-BB J1-34					.22 .10	NO NO		17 11	

SIZE A
CODE IDENT NO. 99974
2901218
SCALE-NONE
REV LTR G
SHEET 12 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-CC E3					.22 .37	NO NO		17	
A 86	1		P3-DD P1-47					.22 .10	NO NO		17 11	
A 87	1		P3-EE E9					.22 .37	NO NO		17	
A 88	1		P3-FF J1-51					.22 .10	NO NO		17 11	
A 89	1		P3-GG E3					.22 .37	NO NO		17	
A 90	1		P3-HH P1-38					.22 .10	NO NO		17 11	
A 91	1		P3-JJ E9					.22 .37	NO NO		17	
A 92	1		P6-T J1-58					.22 .10	NO NO		17 11	
A 93	1		P6-U E2					.22 .37	NO NO		17	
A 94	1		P6-V P1-92					.22 .10	NO NO		17 11	
A 95	1		P6-X J1-56					.22 .10	NO NO		17 11	
A 96	1		P6-Y E2					.22 .37	NO NO		17	

SIZE A
CODE IDENT NO. 99974
2901218
SCALE-NONE
REV LTR G
SHEET 13 OF 25

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-Z P1-90					.22 .10	NO NO		17 11	
A 98	1		P6-A* E10					.22 .37	NO NO		17	
A 99	1		P6-B* J1-17					.22 .10	NO NO		17 11	
A 100	1		P6-C* E2					.22 .37	NO NO		17	
A 101	1		P6-D* P1-61					.22 .10	NO NO		17 11	
A 102	1		P6-F* J1-18					.22 .10	NO NO		17 11	
A 103	1		P6-G* E2					.22 .37	NO NO		17	
A 104	1		P6-H* P1-60					.22 .10	NO NO		17 11	
A 105	1		P6-J* J1-35					.22 .10	NO NO		17 11	
A 106	1		P6-K* E2					.22 .37	NO NO		17	
A 107	1		P6-M* P1-50					.22 .10	NO NO		17 11	
A 108	1		P6-N* P1-51					.22 .10	NO NO		17 11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-X* J2-16					.22 .15	NO NO		17 12	
A 110	1		P6-Y* J2-17					.22 .15	NO NO		17 12	
A 111	1		P6-Z* P1-33					.22 .10	NO NO		17 11	
A 112	1		P6-BB J2-14					.22 .15	NO NO		17 12	
A 113	1		P6-CC J2-15					.22 .15	NO NO		17 12	
A 114	1		P6-DD P1-43					.22 .10	NO NO		17 11	
A 115	1		P6-FF J2-18					.22 .15	NO NO		17 12	
A 116	1		P6-GG J2-19					.22 .15	NO NO		17 12	
A 117	1		P6-HH P1-44					.22 .10	NO NO		17 11	
A 118	1		P6-JJ E11					.22 .37	NO NO		17	
A 119	1		P7-E J1-39					.22 .10	NO NO		17 11	
A 120	1		P7-F E8					.22 .37	NO NO		17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P7-G P1-105					.22 .10	NO NO		17 11	
A 122	1		P7-H E10					.22 .37	NO NO		17	
A 123	1		P7-J J1-83					.22 .10	NO NO		17 11	
A 124	1		P7-K J1-66					.22 .10	NO NO		17 11	
A 125	1		P7-L J2-1					.22 .15	NO NO		17 12	
A 126	1		P7-M J2-2					.22 .15	NO NO		17 12	
A 127	1		P7-N J1-101					.22 .10	NO NO		17 11	
A 128	1		P7-P J1-100					.22 .10	NO NO		17 11	
A 129	1		P7-R J2-4					.22 .15	NO NO		17 12	
A 130	1		P7-S J2-5					.22 .15	NO NO		17 12	
A 131	1		P7-T J1-119					.22 .10	NO NO		17 11	
A 132	1		P7-U J1-120					.22 .10	NO NO		17 11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-V J2-7					.22 .15	NO NO		17 12	
A 134	1		P7-W J2-8					.22 .15	NO NO		17 12	
A 135	1		P7-X J1-40					.22 .10	NO NO		17 11	
A 136	1		P7-Y E8					.22 .37	NO NO		17	
A 137	1		P7-Z P1-104					.22 .10	NO NO		17 11	
A 138	1		P7-A* E10					.22 .37	NO NO		17	
A 139	22		P6-A P2-T					.22 .22	NO NO		17 17	
A 140	22		P6-B P2-U					.22 .22	NO NO		17 17	
A 141	22		P6-E P2-N					.22 .22	NO NO		17 17	
A 142	22		P6-F P2-P					.22 .22	NO NO		17 17	
A 143	22		P8-FF P2-Z					.22 .22	NO NO		17 17	
A 144	22		P8-GG P2-A*					.22 .22	NO NO		17 17	

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	22		P6-J					.22	NO		17	
			P2-R					.22	NO		17	
A 146	22		P6-K					.22	NO		17	
			P2-S					.22	NO		17	
A 147	1		P2-R					.22	NO			
			P1-45					.10	NO		11	
A 148	1		P2-S					.22	NO			
			P1-55					.10	NO		11	
A 151	1		P7-FF					.22	NO		17	
			J1-50					.10	NO		11	
A 152	1		P7-GG					.22	NO		17	
			E8					.37	NO			
A 153	1		P7-HH					.22	NO		17	
			P1-49					.10	NO		11	
A 154	1		P7-JJ					.22	NO		17	
			E9					.37	NO			
A 155	1		P7-KK					.22	NO		17	
			J1-15					.10	NO		11	
A 156	1		P7-LL					.22	NO		17	
			E8					.37	NO			
A 157	1		P7-MM					.22	NO		17	
			P1-37					.10	NO		11	
A 158	1		P7-NN					.22	NO		17	
			E9					.37	NO			

SIZE A | CODE IDENT NO. 99974 | 2901218

SCALE-NONE | REV LTR G | SHEET 18 OF 25

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CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 159	1		P8-A					.22	NO		17	
			J1-105					.10	NO		11	
A 160	1		P8-B					.22	NO		17	
			E7					.37	NO			
A 161	1		P8-C					.22	NO		17	
			P1-108					.10	NO		11	
A 162	1		P8-D					.22	NO		17	
			P1-107					.10	NO		11	
A 163	1		P8-E					.22	NO		17	
			J1-127					.10	NO		11	
A 164	1		P8-F					.22	NO		17	
			E7					.37	NO			
A 165	1		P8-G					.22	NO		17	
			P1-95					.10	NO		11	
A 166	1		P8-H					.22	NO		17	
			P1-94					.10	NO		11	
A 167	1		P8-J					.22	NO		17	
			J1-89					.10	NO		11	
A 168	1		P8-K					.22	NO		17	
			E7					.37	NO			
A 169	1		P8-L					.22	NO		17	
			P1-35					.10	NO		11	
A 170	1		P8-M					.22	NO		17	
			E6					.37	NO			

SIZE A | CODE IDENT NO. 99974 | 2901218

SCALE-NONE | REV LTR G | SHEET 19 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 171	1		P8-N					.22	NO		17	
			J1-79					.10	NO		11	
A 172	1		P8-P					.22	NO		17	
			E7					.37	NO			
A 173	1		P8-R					.22	NO		17	
			P1-11					.10	NO		11	
A 174	1		P8-S					.22	NO		17	
			E6					.37	NO			
A 175	1		P8-T					.22	NO		17	
			J1-63					.10	NO		11	
A 176	1		P8-U					.22	NO		17	
			E7					.37	NO			
A 177	1		P8-V					.22	NO		17	
			P1-46					.10	NO		11	
A 178	1		P8-W					.22	NO		17	
			E6					.37	NO			
A 179	1		P8-X					.22	NO		17	
			J1-46					.10	NO		11	
A 180	1		P8-Y					.22	NO		17	
			E7					.37	NO			
A 181	1		P8-Z					.22	NO		17	
			P1-13					.10	NO		11	
A 182	1		P8-A*					.22	NO		17	
			E6					.37	NO			

SIZE A | CODE IDENT NO. 99974 | 2901218

SCALE-NONE | REV LTR G | SHEET 20 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 183	1		P8-B*					.22	NO		17	
			J1-86					.10	NO		11	
A 184	1		P8-C*					.22	NO		17	
			E7					.37	NO			
A 185	1		P8-D*					.22	NO		17	
			P1-98					.10	NO		11	
A 186	1		P8-E*					.22	NO		17	
			E1					.37	NO			
A 187	1		P8-F*					.22	NO		17	
			J1-69					.10	NO		11	
A 188	1		P8-G*					.22	NO		17	
			E7					.37	NO			
A 189	1		P8-H*					.22	NO		17	
			P1-85					.10	NO		11	
A 190	1		P8-I*					.22	NO		17	
			E1					.37	NO			
A 191	1		P8-J*					.22	NO		17	
			J1-68					.10	NO		11	
A 192	1		P8-K*					.22	NO		17	
			E7					.37	NO			
A 193	1		P8-M*					.22	NO		17	
			P1-97					.10	NO		11	
A 194	1		P8-N*					.22	NO		17	
			E1					.37	NO			

SIZE A | CODE IDENT NO. 99974 | 2901218

SCALE-NONE | REV LTR G | SHEET 21 OF 25

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 195	1		P8-P*					.22	NO		17	
			J1-52					.10	NO		11	
A 196	1		P8-Q*					.22	NO		17	
			E7					.37	NO			
A 197	1		P8-R*					.22	NO		17	
			P1-73					.10	NO		11	
A 198	1		P8-S*					.22	NO		17	
			E1					.37	NO			
A 199	1		P8-T*					.22	NO		17	
			J1-55					.10	NO		11	
A 200	1		P8-U*					.22	NO		17	
			E7					.37	NO			
A 201	1		P8-V*					.22	NO		17	
			P1-42					.10	NO		11	
A 202	1		P8-W*					.22	NO		17	
			P1-53					.10	NO		11	
A 203	1		P8-X*					.22	NO		17	
			J2-10					.15	NO		12	
A 204	1		P8-Y*					.22	NO		17	
			J2-11					.15	NO		12	
A 205	22		P8-Z*					.22	NO		17	
			P2-G					.22	NO			
A 206	1		P8-AA					.22	NO		17	
			E6					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 22 OF 25

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	1		P8-BB					.22	NO		17	
			J1-72					.10	NO		11	
A 208	1		P8-CC					.22	NO		17	
			E7					.37	NO			
A 209	1		P8-DD					.22	NO		17	
			P1-7					.10	NO		11	
A 210	1		P8-EE					.22	NO		17	
			P1-21					.10	NO		11	
A 211	1		P2-T					.22	NO			
			P1-59					.10	NO		11	
A 212	1		P2-U					.22	NO			
			P1-58					.10	NO		11	
A 213	1		P2-N					.22	NO			
			P1-9					.10	NO		11	
A 214	1		P2-P					.22	NO			
			P1-8					.10	NO		11	
A 215	1		P2-Z					.22	NO			
			P1-5					.10	NO		11	
A 216	1		P2-A*					.22	NO			
			P1-6					.10	NO		11	
A 217	1		J2-13					.15	NO		12	
			P2-U*					.22	NO		17	
A 218	2		P2-M*					.22	NO			
			P3-KK								17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 23 OF 25

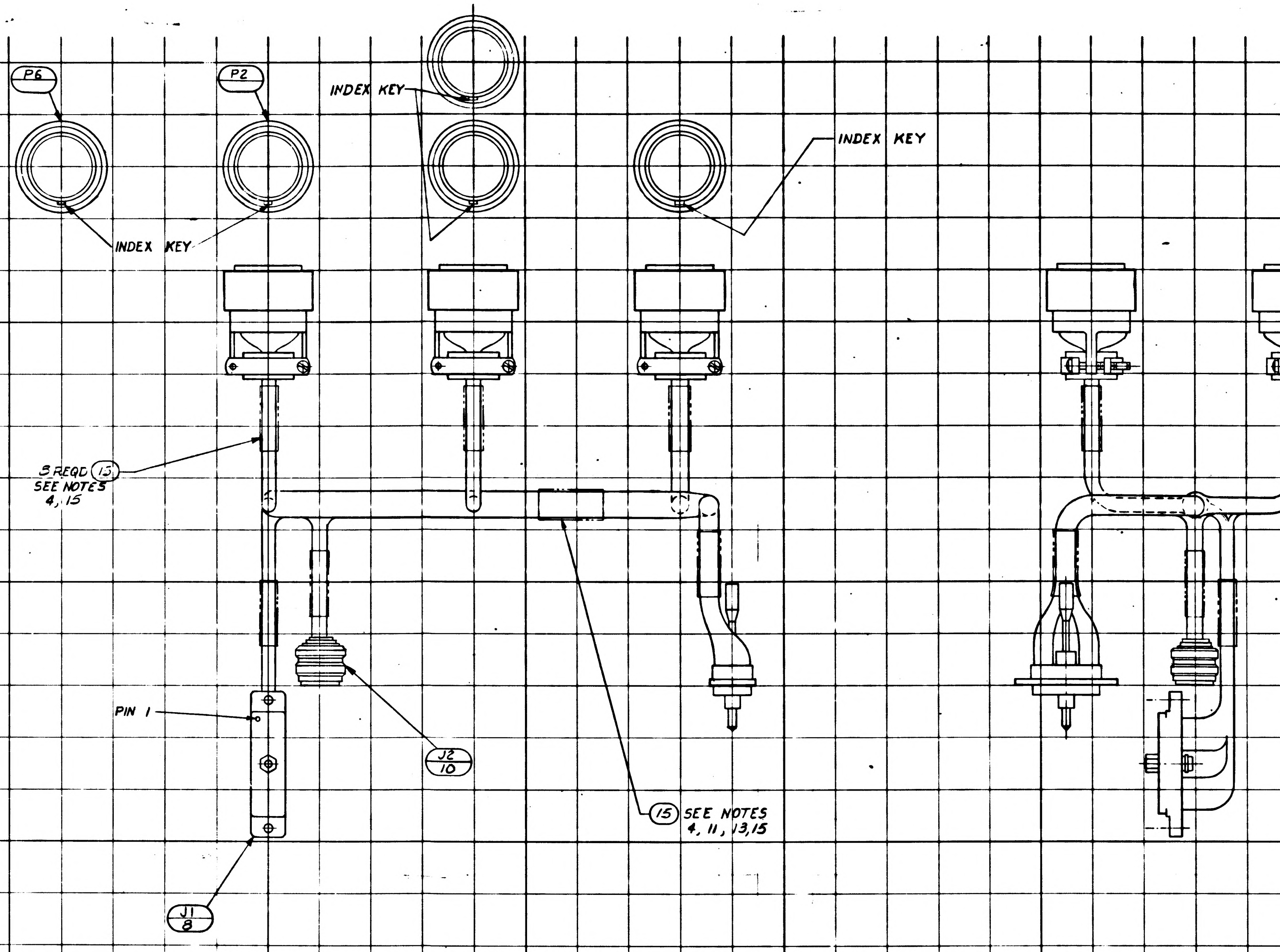
MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 219	2		P2-N*					.22	NO			
			P3-LL								17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 24 OF 25

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REV. RECORD		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P2
INDEX KEY
INDEX KEY
INDEX KEY
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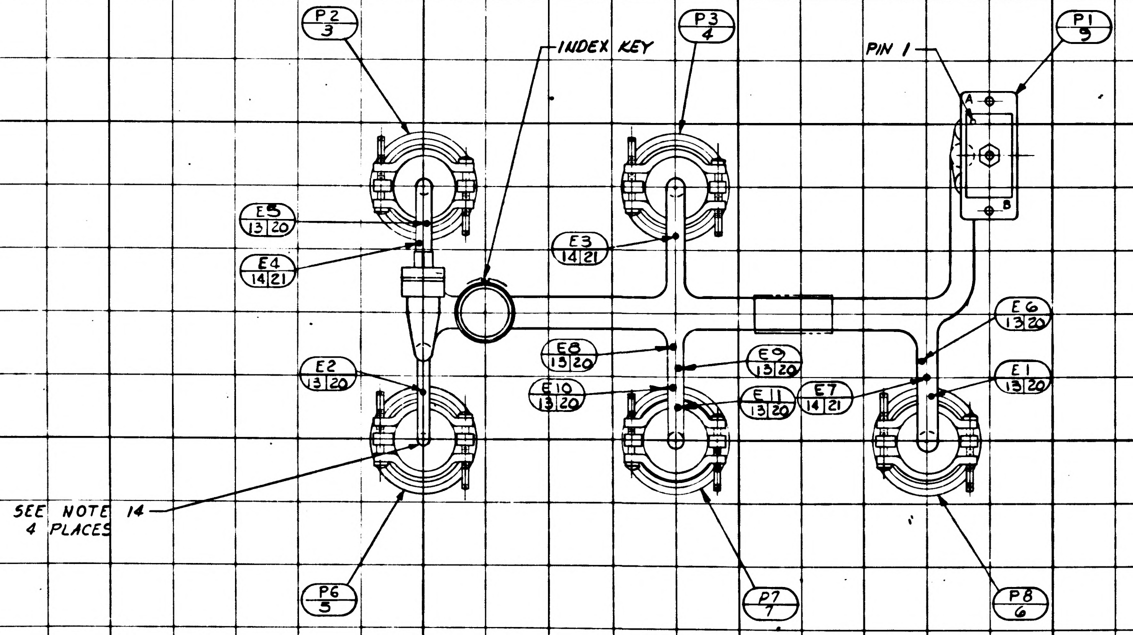
4, 15
PIN 1
J2
10
(15) SEE NOTES
4, 11, 13, 15
J1
8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P3
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PIN 1
P1
9
A
B
E5
13 20
E4
14 21
E3
14 21
E6
13 20
E8
13 20
E9
13 20
E10
13 20
E11
13 20
E7
14 21
E2
13 20
E1
13 20
SEE NOTE 14
4 PLACES
P6
5
P7
7
P8
6

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1-SCA)
P2	P2 (J2-IN/OUT PANEL)
P3	P3 (J3-IN/OUT PANEL)
P6	P6 (J6-IN/OUT PANEL)
P7	P7 (J7-IN/OUT PANEL)
P8	P8 (J8-IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 3 FEB 66
CHECKED 8 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-012)
SCA

SIZE E
CODE IDENT NO. 99974
2901218
SCALE 1:1
SHEET 25 OF 25

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900845-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER DO 61845	29 MAR 66	HTO
B	REVISED PER DO.61884	5 APR 66	FRW
C	REVISED PER MXC 211535	21 APR 66	B. AU
D	REVISED PER MXC 211841	28 APR 66	JHP RWH
E	REVISED PER MXC 211975	29 APR 66	GM JRS
F	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
G	REVISED PER TDRR 29419	14 JUN 66	
H	REVISED PER TDRR 29797	28 JUN 66	PHG EF

Charleston
11 MAR 66

REV		G	G	G	G	H																
SHEET		21	22	23	24	25																
REV STATUS	REV				H	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
OF SHEETS	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN A. J. Eluda DATE 22-FEB-66
CHECKED 10 MAR 66
APPROVAL 22 MAR 66
APPROVAL

NASA APPROVAL 5/6/66
MIT APPROVAL 5-11-66

CONTRACT NAS9-497

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-012)
SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901218	H
SCALE —		SHEET 1 OF 25	

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 16.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK

10 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 8, 9 AND 10

11 IDENTIFY PER MIL-STD-130C (ES267) USING PART NUMBER.

12 ASSEMBLE PER ND1002032.

13 SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.			
A	99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	2 OF 25

NOTE GENERAL NOTES

NUMBER DESCRIPTION

14 FILL THE SPACE BETWEEN WIRE BUNDLE AND GRUMMET OR CABLE CLAMP USING ITEM 18 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP

15 MARK ITEM 15 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR BLACK.

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.			
A	99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	3 OF 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901218-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 205 FT TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR PLUG, ELECTRICAL
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG, ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
7	8	1	1897398-001	CONNECTOR, RECEPTACLE, ELECTRICAL
7	9	1	1897171- 4	CONNECTOR, RECEPTACLE, ELECTRICAL
7	10	1	1897250-013	CONNECTOR, PLUG, ELECTRICAL
7	11	123	1010738-006	CONTACT, SOCKET
7	12	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 10)
7	13	8	1010490-258	INSULATION SLEEVING
7	14	3	1010490-228	INSULATION SLEEVING
7	15	9	1016128-011	BAND, IDENTICATION
7	16	AR	1012507-004	TAPE, LACING AND TYING
	17	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 3 THRU 7)
14	18	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.			
A	99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	4 OF 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	19	1	1010933-101	CLAMP CABLE ELEC.
7	20	8	1016006-001	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
	22	1	2901218-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 14 FT TOTAL LENGTH

SIZE	CODE IDENT NO.			
A	99974	2901218		
SCALE-NONE	REV LTR	G	SHEET	5 OF 25

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-84					.37 .10	NO NO		11	
A 2	1		E11 P1-32					.37 .10	NO NO		11	
A 3	1		E3 E4					.37 .37	NO NO			
A 4	1		E5 E6					.37 .37	NO NO			
A 5	1		E6 P1-23					.37 .10	NO NO		11	
A 6	1		E3 E7					.37 .37	NO NO			
A 7	1		E3 E8					.37 .37	NO NO			
A 8	1		E8 J1-71					.37 .10	NO NO		11	
A 9	1		F9 P1-48					.37 .10	NO NO		11	
A 10	1		E4 E2					.37 .37	NO NO			
A 11	1		E10 P1-103					.37 .10	NO NO		11	
A 12	1		P2-A J1-60					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 6 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-B E4					.22 .37	NO NO		17	
A 14	1		P2-C P1-20					.22 .10	NO NO		17 11	
A 15	1		P2-D E5					.22 .37	NO NO		17	
A 16	1		P2-E J1-59					.22 .10	NO NO		17 11	
A 17	1		P2-F E4					.22 .37	NO NO		17	
A 18	1		P2-G P1-19					.22 .10	NO NO		17 11	
A 19	1		P2-H E5					.22 .37	NO NO		17	
A 20	1		P2-J J1-62					.22 .10	NO NO		17 11	
A 21	1		P2-K E4					.22 .37	NO NO		17	
A 22	1		P2-L P1-4					.22 .10	NO NO		17 11	
A 23	1		P2-M P1-18					.22 .10	NO NO		17 11	
A 24	1		P2-B* J1-87					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 7 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-C* E4					.22 .37	NO NO		17	
A 26	1		P2-D* P1-106					.22 .10	NO NO		17 11	
A 27	1		P2-E* P1-93					.22 .10	NO NO		17 11	
A 28	1		P2-F* J1-20					.22 .10	NO NO		17 11	
A 29	1		P2-G* E4					.22 .37	NO NO		17	
A 30	1		P2-H* P1-102					.22 .10	NO NO		17 11	
A 31	1		P2-I* E10					.22 .37	NO NO		17	
A 32	1		P2-J* J1-61					.22 .10	NO NO		17 11	
A 33	1		P2-K* E4					.22 .37	NO NO		17	
A 34	1		P2-V* J1-44					.22 .10	NO NO		17 11	
A 35	1		P2-W* E4					.22 .37	NO NO		17	
A 36	1		P2-X* P1-12					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 8 OF 25

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-Y* E5					.22 .37	NO NO		17	
A 38	1		P2-N* P1-66					.22 .10	NO NO		17 11	
A 39	1		P2-GG J1-45					.22 .10	NO NO		17 11	
A 40	1		P2-HH E4					.22 .37	NO NO		17	
A 41	1		P2-JJ P1-10					.22 .10	NO NO		17 11	
A 42	1		P2-KK E5					.22 .37	NO NO		17	
A 43	1		P2-LL J1-22					.22 .10	NO NO		17 11	
A 44	1		P2-MM E4					.22 .37	NO NO		17	
A 45	1		P2-NN P1-88					.22 .10	NO NO		17 11	
A 46	1		P2-PP E10					.22 .37	NO NO		17	
A 47	1		P2-M* P1-65					.22 .10	NO NO		17 11	
A 48	1		P3-A J1-90					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 9 OF 25

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-B E3					.22 .37	NO NO		17	
A 50	1		P3-C P1-14					.22 .10	NO NO		17 11	
A 51	1		P3-D P1-1					.22 .10	NO NO		17 11	
A 52	1		P3-E J1-131					.22 .10	NO NO		17 11	
A 53	1		P3-F E3					.22 .37	NO NO		17	
A 54	1		P3-G P1-3					.22 .10	NO NO		17 11	
A 55	1		P3-H P1-2					.22 .10	NO NO		17 11	
A 56	1		P3-J J1-91					.22 .10	NO NO		17 11	
A 57	1		P3-K E3					.22 .37	NO NO		17	
A 58	1		P3-L P1-29					.22 .10	NO NO		17 11	
A 59	1		P3-M P1-15					.22 .10	NO NO		17 11	
A 60	1		P3-N J1-130					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 10 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-P E3					.22 .37	NO NO		17	
A 62	1		P3-R P1-28					.22 .10	NO NO		17 11	
A 63	1		P3-S P1-40					.22 .10	NO NO		17 11	
A 64	1		P3-T J1-108					.22 .10	NO NO		17 11	
A 65	1		P3-U E3					.22 .37	NO NO		17	
A 66	1		P3-V P1-17					.22 .10	NO NO		17 11	
A 67	1		P3-W P1-16					.22 .10	NO NO		17 11	
A 68	1		P3-X J1-110					.22 .10	NO NO		17 11	
A 69	1		P3-Y E3					.22 .37	NO NO		17	
A 70	1		P3-Z P1-30					.22 .10	NO NO		17 11	
A 71	1		P3-A* P1-31					.22 .10	NO NO		17 11	
A 72	1		P3-B* J1-88					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 11 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-C* E3					.22 .37	NO NO		17	
A 74	1		P3-D* P1-96					.22 .10	NO NO		17 11	
A 75	1		P3-E* P1-82					.22 .10	NO NO		17 11	
A 76	1		P3-F* J1-107					.22 .10	NO NO		17 11	
A 77	1		P3-G* E3					.22 .37	NO NO		17	
A 78	1		P3-H* P1-70					.22 .10	NO NO		17 11	
A 79	1		P3-I* P1-71					.22 .10	NO NO		17 11	
A 80	1		P3-J* J1-128					.22 .10	NO NO		17 11	
A 81	1		P3-K* E3					.22 .37	NO NO		17	
A 82	1		P3-M* P1-72					.22 .10	NO NO		17 11	
A 83	1		P3-N* P1-83					.22 .10	NO NO		17 11	
A 84	1		P3-BB J1-34					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 12 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-CC E3					.22 .37	NO NO		17	
A 86	1		P3-DD P1-47					.22 .10	NO NO		17 11	
A 87	1		P3-EE E9					.22 .37	NO NO		17	
A 88	1		P3-FF J1-51					.22 .10	NO NO		17 11	
A 89	1		P3-GG E3					.22 .37	NO NO		17	
A 90	1		P3-HH P1-38					.22 .10	NO NO		17 11	
A 91	1		P3-JJ E9					.22 .37	NO NO		17	
A 92	1		P6-T J1-58					.22 .10	NO NO		17 11	
A 93	1		P6-U E2					.22 .37	NO NO		17	
A 94	1		P6-V P1-92					.22 .10	NO NO		17 11	
A 95	1		P6-X J1-56					.22 .10	NO NO		17 11	
A 96	1		P6-Y E2					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 13 OF 25

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-Z P1-90					.22 .10	NO NO		17 11	
A 98	1		P6-A* E10					.22 .37	NO NO		17	
A 99	1		P6-B* J1-17					.22 .10	NO NO		17 11	
A 100	1		P6-C* E2					.22 .37	NO NO		17	
A 101	1		P6-D* P1-61					.22 .10	NO NO		17 11	
A 102	1		P6-F* J1-18					.22 .10	NO NO		17 11	
A 103	1		P6-G* F2					.22 .37	NO NO		17	
A 104	1		P6-H* P1-60					.22 .10	NO NO		17 11	
A 105	1		P6-J* J1-35					.22 .10	NO NO		17 11	
A 106	1		P6-K* E2					.22 .37	NO NO		17	
A 107	1		P6-M* P1-50					.22 .10	NO NO		17 11	
A 108	1		P6-N* P1-51					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 14 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-X* J2-16					.22 .15	NO NO		17 12	
A 110	1		P6-Y* J2-17					.22 .15	NO NO		17 12	
A 111	1		P6-Z* P1-33					.22 .10	NO NO		17 11	
A 112	1		P6-BB J2-14					.22 .15	NO NO		17 12	
A 113	1		P6-CC J2-15					.22 .15	NO NO		17 12	
A 114	1		P6-DD P1-43					.22 .10	NO NO		17 11	
A 115	1		P6-FF J2-18					.22 .15	NO NO		17 12	
A 116	1		P6-GG J2-19					.22 .15	NO NO		17 12	
A 117	1		P6-HH P1-44					.22 .10	NO NO		17 11	
A 118	1		P6-JJ E11					.22 .37	NO NO		17	
A 119	1		P7-E J1-39					.22 .10	NO NO		17 11	
A 120	1		P7-F E8					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 15 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P7-G P1-105					.22 .10	NO NO		17 11	
A 122	1		P7-H E10					.22 .37	NO NO		17	
A 123	1		P7-J J1-83					.22 .10	NO NO		17 11	
A 124	1		P7-K J1-66					.22 .10	NO NO		17 11	
A 125	1		P7-L J2-1					.22 .15	NO NO		17 12	
A 126	1		P7-M J2-2					.22 .15	NO NO		17 12	
A 127	1		P7-N J1-101					.22 .10	NO NO		17 11	
A 128	1		P7-P J1-100					.22 .10	NO NO		17 11	
A 129	1		P7-R J2-4					.22 .15	NO NO		17 12	
A 130	1		P7-S J2-5					.22 .15	NO NO		17 12	
A 131	1		P7-T J1-119					.22 .10	NO NO		17 11	
A 132	1		P7-U J1-120					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 16 OF 25

MIL 2084 9-65

CABLE ASSEMBLY 2901218 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-V J2-7					.22 .15	NO NO		17 12	
A 134	1		P7-W J2-8					.22 .15	NO NO		17 12	
A 135	1		P7-X J1-40					.22 .10	NO NO		17 11	
A 136	1		P7-Y E8					.22 .37	NO NO		17	
A 137	1		P7-Z P1-104					.22 .10	NO NO		17 11	
A 138	1		P7-A* E10					.22 .37	NO NO		17	
A 139	22		P6-A P2-T					.22 .22	NO NO		17 17	
A 140	22		P6-B P2-U					.22 .22	NO NO		17 17	
A 141	22		P6-E P2-N					.22 .22	NO NO		17 17	
A 142	22		P6-F P2-P					.22 .22	NO NO		17 17	
A 143	22		P8-FF P2-Z					.22 .22	NO NO		17 17	
A 144	22		P8-GG P2-A*					.22 .22	NO NO		17 17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 17 OF 25

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	22		P6-J P2-R					.22 .22	NO NO		17 17	
A 146	22		P6-K P2-S					.22 .22	NO NO		17 17	
A 147	1		P2-R P1-45					.22 .10	NO NO		11	
A 148	1		P2-S P1-55					.22 .10	NO NO		11	
A 151	1		P7-FF J1-50					.22 .10	NO NO		17 11	
A 152	1		P7-GG E8					.22 .37	NO NO		17	
A 153	1		P7-HH P1-49					.22 .10	NO NO		17 11	
A 154	1		P7-JJ E9					.22 .37	NO NO		17	
A 155	1		P7-KK J1-15					.22 .10	NO NO		17 11	
A 156	1		P7-LL E8					.22 .37	NO NO		17	
A 157	1		P7-MM P1-37					.22 .10	NO NO		17 11	
A 158	1		P7-NN E9					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 18 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 159	1		P8-A J1-105					.22 .10	NO NO		17 11	
A 160	1		P8-B E7					.22 .37	NO NO		17	
A 161	1		P8-C P1-108					.22 .10	NO NO		17 11	
A 162	1		P8-D P1-107					.22 .10	NO NO		17 11	
A 163	1		P8-E J1-127					.22 .10	NO NO		17 11	
A 164	1		P8-F E7					.22 .37	NO NO		17	
A 165	1		P8-G P1-95					.22 .10	NO NO		17 11	
A 166	1		P8-H P1-94					.22 .10	NO NO		17 11	
A 167	1		P8-J J1-89					.22 .10	NO NO		17 11	
A 168	1		P8-K E7					.22 .37	NO NO		17	
A 169	1		P8-L P1-35					.22 .10	NO NO		17 11	
A 170	1		P8-M E6					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 19 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 171	1		P8-N J1-79					.22 .10	NO NO		17 11	
A 172	1		P8-P E7					.22 .37	NO NO		17	
A 173	1		P8-R P1-11					.22 .10	NO NO		17 11	
A 174	1		P8-S E6					.22 .37	NO NO		17	
A 175	1		P8-T J1-63					.22 .10	NO NO		17 11	
A 176	1		P8-U E7					.22 .37	NO NO		17	
A 177	1		P8-V P1-46					.22 .10	NO NO		17 11	
A 178	1		P8-W E6					.22 .37	NO NO		17	
A 179	1		P8-X J1-46					.22 .10	NO NO		17 11	
A 180	1		P8-Y E7					.22 .37	NO NO		17	
A 181	1		P8-Z P1-13					.22 .10	NO NO		17 11	
A 182	1		P8-A* E6					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 20 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 183	1		P8-B* J1-86					.22 .10	NO NO		17 11	
A 184	1		P8-C* E7					.22 .37	NO NO		17	
A 185	1		P8-D* P1-98					.22 .10	NO NO		17 11	
A 186	1		P8-E* E1					.22 .37	NO NO		17	
A 187	1		P8-F* J1-69					.22 .10	NO NO		17 11	
A 188	1		P8-G* E7					.22 .37	NO NO		17	
A 189	1		P8-H* P1-85					.22 .10	NO NO		17 11	
A 190	1		P8-I* E1					.22 .37	NO NO		17	
A 191	1		P8-J* J1-68					.22 .10	NO NO		17 11	
A 192	1		P8-K* E7					.22 .37	NO NO		17	
A 193	1		P8-M* P1-97					.22 .10	NO NO		17 11	
A 194	1		P8-N* E1					.22 .37	NO NO		17	

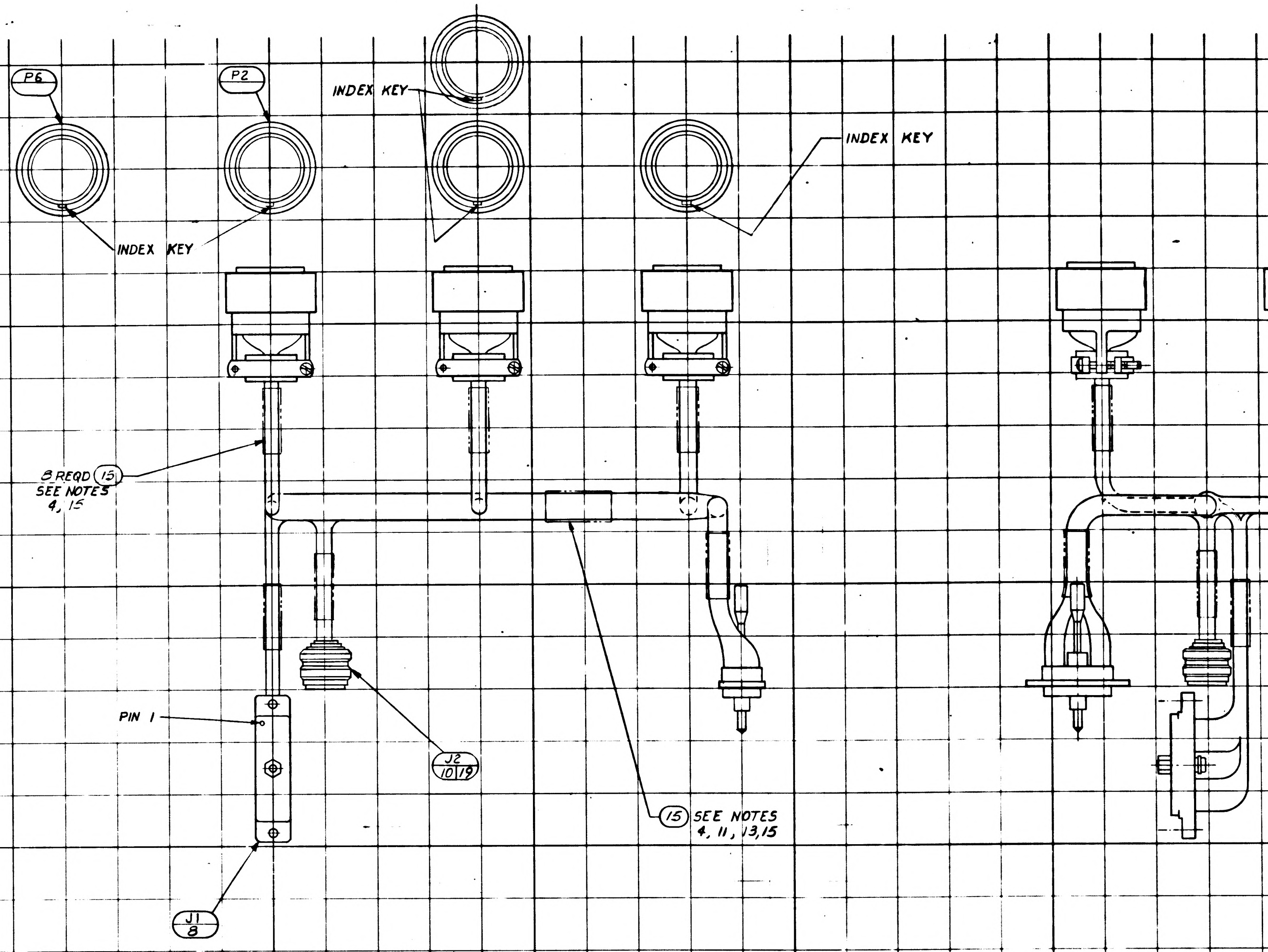
SIZE	CODE IDENT NO.	
A	99974	2901218
SCALE-NONE	REV LTR G	SHEET 21 OF 25

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 195	1		P8-P* J1-52					.22 .10	NO NO		17 11	
A 196	1		P8-Q* E7					.22 .37	NO NO		17	
A 197	1		P8-R* P1-73					.22 .10	NO NO		17 11	
A 198	1		P8-S* E1					.22 .37	NO NO		17	
A 199	1		P8-T* J1-55					.22 .10	NO NO		17 11	
A 200	1		P8-U* E7					.22 .37	NO NO		17	
A 201	1		P8-V* P1-42					.22 .10	NO NO		17 11	
A 202	1		P8-W* P1-53					.22 .10	NO NO		17 11	
A 203	1		P8-X* J2-10					.22 .15	NO NO		17 12	
A 204	1		P8-Y* J2-11					.22 .15	NO NO		17 12	
A 205	22		P8-Z* P2-G					.22 .22	NO NO		17	
A 206	1		P8-AA E6					.22 .37	NO NO		17	

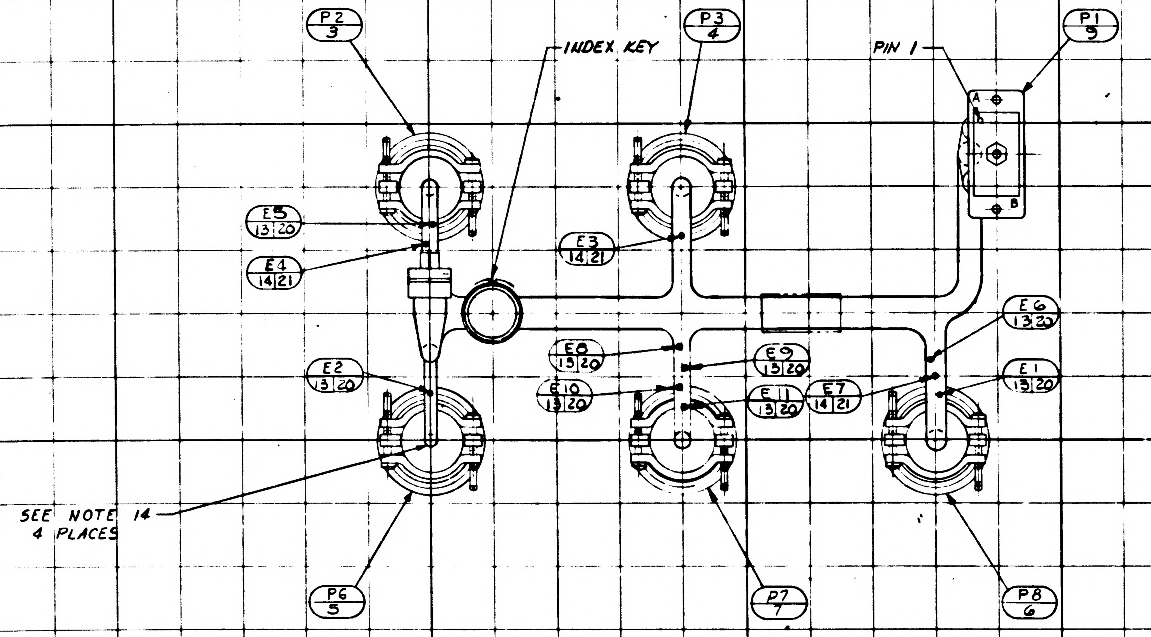
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 207	1		P8-BB J1-72					.22 .10	NO NO		17 11	
A 208	1		P8-CC E7					.22 .37	NO NO		17	
A 209	1		P8-DD P1-7					.22 .10	NO NO		17 11	
A 210	1		P8-EE P1-21					.22 .10	NO NO		17 11	
A 211	1		P2-T P1-59					.22 .10	NO NO		 11	
A 212	1		P2-U P1-58					.22 .10	NO NO		 11	
A 213	1		P2-N P1-9					.22 .10	NO NO		 11	
A 214	1		P2-P P1-8					.22 .10	NO NO		 11	
A 215	1		P2-Z P1-5					.22 .10	NO NO		 11	
A 216	1		P2-A* P1-6					.22 .10	NO NO		 11	
A 217	1		J2-13 P2-U*					.15 .22	NO NO		12 17	
A 218	2		P2-M* P3-KK					.22	NO		 17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 219	2		P2-N* P3-LL					.22	NO		17	

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REV. RECORD			



P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
8 REQD (15) SEE NOTES 4, 15
PIN 1
J2 10 19
(15) SEE NOTES 4, 11, 13, 15
J1 8



P2 3
P3 4
INDEX KEY
PIN 1
P1 9
A
B
E5 13 20
E4 14 21
E3 14 21
E6 13 20
E8 13 20
E9 13 20
E10 13 20
E11 13 20
E7 14 21
E1 13 20
E2 13 20
SEE NOTE 14 4 PLACES
P6 5
P7 7
P8 6

TABLE 1

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + − 3 PLACE DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 23 FEB 66
CHECKED 8 MAR 66
APPROVAL
CONTRACT NAS 9 - 497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-012)
SCA

SIZE E
CODE IDENT NO. 99974
2901218
SCALE 1:1
SHEET 25 OF 25

2901218 H

2901218

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O.61843	3-28-66	A.J.F.
B	REVISED PER D.061885	5 APR 66	FRW
C	REVISED PER MXC 211536	21-APR-66	B. JRS
D	REVISED PER MXC 211976	29 APR 66	AU
E	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY-66	B. EF

Charleston
11MAR66

REV	E	E	E
SHEET	21	22	23

REV STATUS OF SHEETS																				
REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN A. J. Fluder DATE 24-FEB 66
CHECKED M. Manning 8 MAR 66
APPROVAL
APPROVAL
NASA APPROVAL D McLeney 5-16-66
MIT APPROVAL M G Murley 5-11-66

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-017)
SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901219	E

CONTRACT NAS9-497
SCALE —
SHEET 1 OF 23

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 16.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

10 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 8, 9 AND 10.

11 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

12 ASSEMBLE PER ND1002032.

13 SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E*	SHEET 2 OF 23

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

14 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 18 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.

15 MARK ITEM 15 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR BLACK.

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E*	SHEET 3 OF 23

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1		2901219-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 192 FT TOTAL LENGTH
	2		2901219-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG, WHT, 11 FT TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR PLUG, ELECTRICAL
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR PLUG, ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
7	8	1	1897398-001	CONNECTOR, RECEPTACLE, ELECTRICAL
7	9	1	1897171- 4	CONNECTOR, RECEPTACLE, ELECTRICAL
7	10	1	1897250-013	CONNECTOR, PLUG ELECTRICAL
7	11	119	1010738-006	CONTACT, SOCKET
7	12	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 10)
7	13	2	1010490-258	INSULATION SLEEVING
7	14	2	1010490-256	INSULATION SLEEVING
7	15	9	1016128-011	BAND, IDENTIFICATION
7	16	AR	1012507-004	TAPE, LACING AND TYING
	17	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 3 THRU 7)

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR *E	SHEET 4 OF 23

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
14	18	AR	MIL-I-631	FILLER TAPE, TYPE F, FORM T(BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
7	19	1	1010933-101	CLAMP CABLE ELEC.
7	20	7	1016006-001	SPLICE REDUCER
7	21	2	1016006-002	SPLICE REDUCER
7	22	2	1016006-003	SPLICE REDUCER
7	23	7	101049C-228	INSULATION SLEEVING

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E*	SHEET 5 OF 23

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	E1 P1-84					.37 .10	NO NO		 11	
A	2	1	E4 P1-32					.37 .10	NO NO		 11	
A	3	1	E8 P1-23					.37 .10	NO NO		 11	
A	4	1	E3 J1-71					.37 .10	NO NO		 11	
A	5	1	E3 E6					.37 .37	NO NO			
A	6	1	E6 E5					.37 .37	NO NO			
A	7	1	E5 E9					.37 .37	NO NO			
A	8	1	E9 E2					.37 .37	NO NO			
A	9	1	E7 E8					.37 .37	NO NO			
A	10	1	P2-A J1-60					.22 .10	NO NO		17 11	
A	11	1	P2-C P1-20					.22 .10	NO NO		17 11	
A	12	1	P2-D E7					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 6 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	P2-E J1-59					.22 .10	NO NO		17 11	
A	14	1	P2-F E6					.22 .37	NO NO		17	
A	15	1	P2-G P1-19					.22 .10	NO NO		17 11	
A	16	1	P2-H E7					.22 .37	NO NO		17	
A	17	1	P2-J J1-62					.22 .10	NO NO		17 11	
A	18	1	P2-K E6					.22 .37	NO NO		17	
A	19	1	P2-L P1-4					.22 .10	NO NO		17 11	
A	20	1	P2-M P1-18					.22 .10	NO NO		17 11	
A	21	1	P2-B* J1-87					.22 .10	NO NO		17 11	
A	22	1	P2-C* E6					.22 .37	NO NO		17	
A	23	1	P2-D* P1-106					.22 .10	NO NO		17 11	
A	24	1	P2-E* P1-93					.22 .10 ~~37~~	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 7 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1	P2-J* J1-61					.22 .10	NO NO		17 11	
A	26	1	P2-K* E6					.22 .37	NO NO		17	
A	27	1	P2-V* J1-44					.22 .10	NO NO		17 11	
A	28	1	P2-W* E6					.22 .37	NO NO		17	
A	29	1	P2-X* P1-12					.22 .10	NO NO		17 11	
A	30	1	P2-Y* E7					.22 .37	NO NO		17	
A	31	1	P2-Z* P1-65					.22 .10	NO NO		17 11	
A	32	1	P2-AA P1-66					.22 .10	NO NO		17 11	
A	33	1	P2-GG J1-45					.22 .10	NO NO		17 11	
A	34	1	P2-HH E6					.22 .37	NO NO		17	
A	35	1	P2-JJ P1-10					.22 .10	NO NO		17 11	
A	36	1	P2-KK E7					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 8 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1	P3-A J1-90					.22 .10	NO NO		17 11	
A	38	1	P3-B E5					.22 .37	NO NO		17	
A	39	1	P3-C P1-14					.22 .10	NO NO		17 11	
A	40	1	P3-D P1-1					.22 .10	NO NO		17 11	
A	41	1	P3-E J1-131					.22 .10	NO NO		17 ~~17~~ 11	
A	42	1	P3-F E5					.22 .37	NO NO		~~11~~ 17	
A	43	1	P3-G P1-3					.22 .10	NO NO		17 11	
A	44	1	P3-H P1-2					.22 .10	NO NO		17 11	
A	45	1	P3-J J1-91					.22 .10	NO NO		17 11	
A	46	1	P3-K E5					.22 .37	NO NO		17	
A	47	1	P3-L P1-29					.22 .10	NO NO		17 11	
A	48	1	P3-M P1-15					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★ ~~D~~	SHEET 9 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P3-N J1-130					.22 .10	NO NO		17 11	
A 50	1		P3-P E5					.22 .37	NO NO		17	
A 51	1		P3-R P1-28					.22 .10	NO NO		17 11	
A 52	1		P3-S P1-40					.22 .10	NO NO		17 11	
A 53	1		P3-T J1-108					.22 .10	NO NO		17 11	
A 54	1		P3-U E5					.22 .37	NO NO		17	
A 55	1		P3-V P1-17					.22 .10	NO NO		17 11	
A 56	1		P3-W P1-16					.22 .10	NO NO		17 11	
A 57	1		P3-X J1-110					.22 .10	NO NO		17 11	
A 58	1		P3-Y E5					.22 .37	NO NO		17	
A 59	1		P3-Z P1-30					.22 .10	NO NO		17 11	
A 60	1		P3-A* P1-31					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 10 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-B* J1-56					.22 .10	NO NO		17 11	
A 62	1		P3-C* E5					.22 .37	NO NO		17	
A 63	1		P3-D* P1-96					.22 .10	NO NO		17 11	
A 64	1		P3-E* P1-82					.22 .10	NO NO		17 11	
A 65	1		P3-F* J1-40					.22 .10	NO NO		17 11	
A 66	1		P3-G* E5					.22 .37	NO NO		17	
A 67	1		P3-H* P1-70					.22 .10	NO NO		17 11	
A 68	1		P3-I* P1-71					.22 .10	NO NO		17 11	
A 69	1		P3-J* J1-20					.22 .10	NO NO		17 11	
A 70	1		P3-K* E5					.22 .37	NO NO		17	
A 71	1		P3-M* P1-72					.22 .10	NO NO		17 11	
A 72	1		P3-N* P1-83					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 11 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P6-T J1-83					.22 .10	NO NO		17 11	
A 74	1		P6-U J1-66					.22 .10	NO NO		17 11	
A 75	1		P6-V P1-33					.22 .10	NO NO		17 11	
A 76	1		P6-X J1-101					.22 .10	NO NO		17 11	
A 77	1		P6-Y J1-100					.22 .10	NO NO		17 11	
A 78	1		P6-Z P1-43					.22 .10	NO NO		17 11	
A 79	1		P6-A* E4					.22 .37	NO NO		17	
A 80	1		P6-B* J1-17					.22 .10	NO NO		17 11	
A 81	1		P6-C* E3					.22 .37	NO NO		17	
A 82	1		P6-D* P1-61					.22 .10	NO NO		17 11	
A 83	1		P6-F* J1-18					.22 .10	NO NO		17 11	
A 84	1		P6-G* E3					.22 .37	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E★	SHEET 12 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E x ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P6-H* P1-60					.22 .10	NO NO		17 11	
A 86	1		P6-J* J1-35					.22 .10	NO NO		17 11	
A 87	1		P6-K* E3					.22 .37	NO NO		17	
A 88	1		P6-M* P1-50					.22 .10	NO NO		17 11	
A 89	1		P6-N* P1-51					.22 .10	NO NO		17 11	
A 90	1		P6-X* J1-38					.22 .10	NO NO		17 11	
A 91	1		P6-Y* E3					.22 .37	NO NO		17	
A 92	2		P6-Z* P6-V					.22 .22	NO NO		17	
A 93	1		P6-BB J1-21					.22 .10	NO NO		17 11	
A 94	1		P6-CC E3					.22 .37 ~~.10~~	NO NO		17 ~~11~~	
A 95	2		P6-DD P6-Z					.22 .22	NO NO		17	
A 96	1		P6-FF J1-57					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E x ~~D~~	SHEET 13 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-GG E3					.22 .37	NO NO		17	
A 98	1		P6-HH P1-44					.22 .10	NO NO		17 11	
A 99	1		P6-JJ E4					.22 .37	NO NO		17	
A 100	1		P7-E J1-70					.22 .10	NO NO		17 11	
A 101	1		P7-F E9					.22 .37	NO NO		17	
A 102	1		P7-G P1-27					.22 .10	NO NO		17 11	
A 103	1		P7-H P1-26					.22 .10	NO NO		17 11	
A 104	1		P7-J J1-119					.22 .10	NO NO		17 11	
A 105	1		P7-K J1-120					.22 .10	NO NO		17 11	
A 106	2		P7-L P6-HH					.22 .22	NO NO		17	
A 107	1		P7-M E4					.22 .37	NO NO		17	
A 108	1		P7-N J1-82					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E*	SHEET 14 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P7-P J1-65					.22 .10	NO NO		17 11	
A 110	1		P7-R J2-1					.22 .15	NO NO		17 12	
A 111	1		P7-S J2-2					.22 .15	NO NO		17 12	
A 112	1		P7-T J1-99					.22 .10	NO NO		17 11	
A 113	1		P7-U J1-98					.22 .10	NO NO		17 11	
A 114	1		P7-V J2-4					.22 .15	NO NO		17 12	
A 115	1		P7-W J2-5					.22 .15	NO NO		17 12	
A 116	1		P7-X J1-118					.22 .10	NO NO		17 11	
A 117	1		P7-Y J1-117					.22 .10	NO NO		17 11	
A 118	1		P7-Z J2-7					.22 .15	NO NO		17 12	
A 119	1		P7-A* J2-8					.22 .15	NO NO		17 12	
A 120	1		P7-FF J1-50					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E*	SHEET 15 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P7-GG E9					.22 .37	NO NO		17	
A 122	1		P7-HH P1-49					.22 .10	NO NO		17 11	
A 123	1		P7-JJ P7-NN					.22 .22	NO NO		17 17	
A 124	1		P7-KK J1-88					.22 .10	NO NO		17 11	
A 125	1		P7-LL E9					.22 .37	NO NO		17	
A 126	1		P7-MM P1-37					.22 .10	NO NO		17 11	
A 127	2		P7-NN P1-48					.22 .10	NO NO		 11	
A 128	1		P8-A J1-~~65~~ 105					.22 .10	NO NO		17 11	
A 129	1		P8-B E2					.22 .37	NO NO		17	
A 130	1		P8-C P1-~~66~~ 108					.22 .10	NO NO		17 11	
A 131	1		P8-D ~~E6~~ P1-107					.22 .10 ~~.37~~	NO NO		17 11	
A 132	1		P8-E J1-~~66~~ 127					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E x D	SHEET 16 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E x D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P8-F E2					.22 .37	NO NO		17	
A 134	1		P8-G P1-~~15~~ 95					.22 .10	NO NO		17 11	
A 135	1		P8-H ~~E8~~ P1-94					.22 .10 ~~.37~~	NO NO		17 11	
A 136	1		P8-J J1-~~35~~ 89					.22 .10	NO NO		17 11	
A 137	1		P8-K E2					.22 .37	NO NO		17	
A 138	1		P8-L P1-~~42~~ 35					.22 .10	NO NO		17 11	
A 139	1		P8-M ~~P1-33~~ E8					.22 .37 ~~.10~~	NO NO		17 ~~11~~	
A 140	1		P8-N J1-~~81~~ 79					.22 .10	NO NO		17 11	
A 141	1		P8-P E2					.22 .37	NO NO		17	
A 142	1		P8-R P1-~~106~~ 11					.22 .10	NO NO		17 11	
A 143	1		P8-S ~~P1-45~~ E8					.22 .37 ~~.10~~	NO NO		17 ~~11~~	
A 144	1		P8-T J1-~~105~~ 63					.22 .10	NO NO		17 11	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E x D	SHEET 17 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E ~~X~~ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P8-U E2					.22 .37	NO NO		17	
A 146	1		P8-V P1-~~108~~ 46					.22 .10	NO NO		17 11	
A 147	1		P8-W ~~P1-107~~ E8					.22 .37 ~~.10~~	NO NO		17 ~~11~~	
A 148	1		P8-X J1-~~127~~ 46					.22 .10	NO NO		17 11	
A 149	1		P8-Y E2					.22 .37	NO NO		17	
A 150	1		P8-Z P1-~~95~~ 13					.22 .10	NO NO		17 11	
A 151	1		P8-A* ~~P1-94~~ E8					.22 .37 ~~.10~~	NO NO		17 ~~11~~	
A 152	1		P8-B* J1-86					.22 .10	NO NO		17 11	
A 153	1		P8-C* E2					.22 .37	NO NO		17	
A 154	1		P8-D* P1-98					.22 .10	NO NO		17 11	
A 155	1		P8-E* E1					.22 .37	NO NO		17	
A 156	1		P8-F* J1-69					.22 .10	NO NO		17 11	

SIZE A | CODE IDENT NO. 99974 | 2901219

SCALE-NONE | REV LTR E ~~X~~ ~~D~~ | SHEET 18 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E ~~X~~ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P8-G* E2					.22 .37	NO NO		17	
A 158	1		P8-H* P1-85					.22 .10	NO NO		17 11	
A 159	1		P8-I* E1					.22 .37	NO NO		17	
A 160	1		P8-J* J1-68					.22 .10	NO NO		17 11	
A 161	1		P8-K* E2					.22 .37	NO NO		17	
A 162	1		P8-M* P1-97					.22 .10	NO NO		17 11	
A 163	1		P8-N* E1					.22 .37	NO NO		17	
A 164	1		P8-P* J1-52					.22 .10	NO NO		17 11	
A 165	1		P8-Q* E2					.22 .37	NO NO		17	
A 166	1		P8-R* P1-73					.22 .10	NO NO		17 11	
A 167	1		P8-S* E1					.22 .37	NO NO		17	
A 168	1		P8-T* J1-~~81~~ 55					.22 .10	NO NO		17 11	

SIZE A | CODE IDENT NO. 99974 | 2901219

SCALE-NONE | REV LTR E ~~X~~ ~~D~~ | SHEET 19 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E ~~X~~ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P8-U* E2					.22 .37	NO NO		17	
A 170	1		P8-V* P1-~~15~~ 42					.22 .10	NO NO		17 11	
A 171	1		P8-W* ~~E8~~ P1-53					.22 .10 ~~.37~~	NO NO		17 11	
A 172	1		P8-X* J2-10					.22 .15	NO NO		17 12	
A 173	1		P8-Y* J2-11					.22 .15	NO NO		17 12	
A 174	2		P8-Z* P2-G					.22 .22	NO NO		17	
A 175	1		P8-AA E8					.22 .37	NO NO		17	
A 176	1		P8-BB J1-72					.22 .10	NO NO		17 11	
A 177	1		P8-CC E2					.22 .37	NO NO		17	
A 178	1		P8-DD P1-7					.22 .10	NO NO		17 11	
A 179	1		P8-EE P1-21					.22 .10	NO NO		17 11	
A 180	~~1~~ 2		P8-FF ~~J1-126~~ P2-Z					.22 .22 ~~.10~~	NO NO		17 ~~11~~ 17	

SIZE A | CODE IDENT NO. 99974 | 2901219

SCALE-NONE | REV LTR E ~~X~~ ~~D~~ | SHEET 20 OF 23

MIL 2084 9-65

CABLE ASSEMBLY 2901219 E ~~B~~ ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	~~1~~ 2		P8-GG ~~E2~~ P2-A*					.22 .22 ~~.37~~	NO NO		17 17	
A 182	1		P8-~~HH~~ MM P1-24					.22 .10	NO NO		17 11	
A 183	1		P8-~~JJ~~ NN P1-36					.22 .10	NO NO		17 11	
A 184	1		P2-T E11					.22 .37	NO NO		17	
A 185	1		P2-U E10					.22 .37	NO NO		17	
A 186	1		P2-N P1-9					.22 .10	NO NO		17 11	
A 187	1		P2-P P1-8					.22 .10	NO NO		17 11	
A 188	1		P2-Z P1-5					.22 .10	NO NO		~~17~~ 11	
A 189	1		P2-A* P1-6					.22 .10	NO NO		~~17~~ 11	
A 190	1		E11 P1-59					.37 .10	NO NO		 11	
A 191	1		E10 P1-58					.37 .10	NO NO		 11	
A 192	1		P6-A E11					.22 .37	NO NO		17	

SIZE A | CODE IDENT NO. 99974 | 2901219

SCALE-NONE | REV LTR E ~~B~~ ~~D~~ | SHEET 21 OF 23

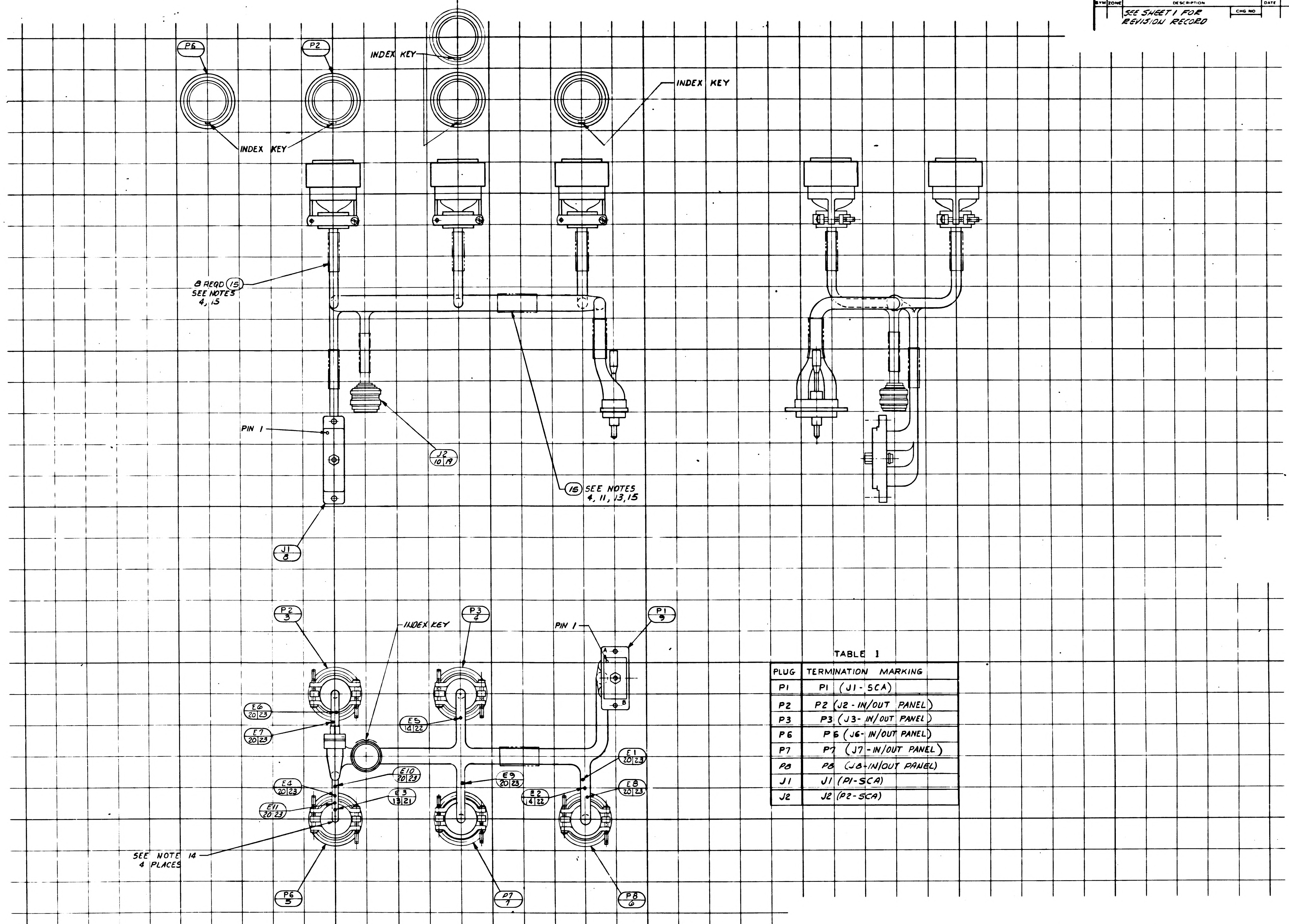
MIL 2084 9-65

CABLE ASSEMBLY 2901219 E K ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-B E10					.22 .37	NO NO		17	
A 194	1		P6-E J1-107					.22 .10	NO NO		17 11	
A 195	1		P6-F E3					.22 .37	NO NO		17	
A 196	2		P6-J P2-N					.22 .22	NO NO		17	
A 197	2		P6-K P2-P					.22 .22	NO NO		17	
A 198	~~2~~ 1		P8-KK ~~P2-Z~~ J1-128					.22 .10 ~~.22~~	NO NO		17 11	
A 199	~~2~~ 1		P8-LL ~~P2-A~~ E2					.22 .37 ~~.22~~	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901219
SCALE-NONE	REV LTR E K ~~D~~	SHEET 22 OF 23

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD CHG NO		



P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
INDEX KEY
8 REQD (15) SEE NOTES 4, 15
PIN 1
J2 10 19
(15) SEE NOTES 4, 11, 13, 15
J1 8
P2 3
INDEX KEY
P3 4
PIN 1
P1 9
A
B
E6 20 23
E7 20 23
E5 14 22
E10 20 23
E4 20 23
E11 20 23
E3 13 21
E9 20 23
E2 14 22
E1 20 23
E8 20 23
SEE NOTE 14 4 PLACES
P6 5
P7 7
P8 6

TABLE 1

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

2901219 REV E

2901219

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN D. J. Linder DATE 23 FEB 66
CHECKED 8 Mar 66
APPROVAL
CONTRACT NAS 9 - 497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 50(-017)
SCA

SIZE E CODE IDENT NO. 99974 2901219
SCALE 1:1 SHEET 3 OF 23

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O. 61844	29 MAR 66	LGC CW
B	REVISED PER D.O. 61892	7-APR-66	A.J.F.
C	REVISED PER MXC 211537	21-APR-66	B. AU
D	REVISED PER MXC 211925	29 APR 66	RJJ EF
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	PG. EF

Charleston
11MAR66

REV		E	E	E	E																	
SHEET		21	22	23	24																	
REV STATUS	REV				E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
OF SHEETS	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 24-FEB-66 DATE
CHECKED 8 MAR 66
APPROVAL 8 MAR 66
APPROVAL

NASA APPROVAL 5/6/66
MIT APPROVAL 5-11-66

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901220	E

CONTRACT NAS9-497
SCALE —
SHEET 1 OF 24

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 15.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 7, 8 AND 9.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR E	SHEET 2 OF 24 ~~23~~

MIL 2084 9-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR, BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR E	SHEET 3 OF 24 ~~23~~

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901220-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 206 FT TOTAL LENGTH
	2	1	1897047-614	CONNECTOR, ELECTRICAL
	3	1	1897047-611	CONNECTOR, ELECTRICAL
	4	1	1897047-610	CONNECTOR, ELECTRICAL
	5	1	1897047-613	CONNECTOR, ELECTRICAL
	6	1	1897047-612	CONNECTOR, ELECTRICAL
7	7	1	1897398-001	CONNECTOR, ELECTRICAL
7	8	1	1897186- 1	CONNECTOR, ELECTRICAL
7	9	1	1897250-013	CONNECTOR, ELECTRICAL
7	10	123 ~~122~~	1010738-006	CONTACT, SOCKET
7	11	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 9)
7	12	3	1010490-258	INSULATION SLEEVING
7	13	3	1010490-256	INSULATION SLEEVING
7	14	9	1016128-011	BAND, IDENTIFICATION
7	15	AR	1012507-004	TAPE, LACING AND TYING
	16	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 2 THRU 6)
14	17	AR	MIL-I-631	FILLER TAPE TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 4 OF 24 ~~23~~

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	1	1010933-101	CLAMP CABLE ELEC.
7	19	5	1016006-001	SPLICE REDUCER
7	20	3	1016006-002	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
7	22	5	1010490-228	INSULATION SLEEVING
	23	1	2901220-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 24 INCHES TOTAL LENGTH

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR E	SHEET 5 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E + D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-128					.37 .10	NO NO		 10	
A 2	1		E10 P1-56					.37 .10	NO NO		 10	
A 3	1		E2 E8					.37 .37	NO NO			
A 4	1		F8 E4					.37 .37	NO NO			
A 5	1		E4 E6					.37 .37	NO NO			
A 6	1		F6 E3					.37 .37	NO NO			
A 7	1		E3 J1-71					.37 .10	NO NO		 10	
A 8	1		E5 E7					.37 .37	NO NO			
A 9	1		E7 P1-68					.37 .10	NO NO		 10	
A 10	1		E11 ~~J1-30~~ E8					.37 ~~.10~~ .37	NO NO		 ~~10~~	
A 11	1		E9 P1-97					.37 .10	NO NO		 10	
A 12	1		P2-U* ~~F3~~ ~~J1-27~~ P1-10					.22 ~~.37~~ .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR ~~D~~ E | SHEET 6 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E +

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-T P1-70					.22 .10	NO NO		16 10	
A 14	1		P2-U P1-88					.22 .10	NO NO		16 10	
A 15	1		P2-N P1-11					.22 .10	NO NO		16 10	
A 16	1		P2-P P1-12					.22 .10	NO NO		16 10	
A 17	1		P2-Z P1-82					.22 .10	NO NO		16 10	
A 18	1		P2-A* P1-83					.22 .10	NO NO		16 10	
A 19	1		P2-A J1-60					.22 .10	NO NO		16 10	
A 20	1		P2-C P1-47					.22 .10	NO NO		16 10	
A 21	1		P2-D F5					.22 .37	NO NO		16	
A 22	1		P2-E J1-59					.22 .10	NO NO		16 10	
A 23	1		P2-F E6					.22 .37	NO NO		16	
A 24	1		P2-G P1-49					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR / E | SHEET 7 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E + D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-H E5					.22 .37	NO NO		16	
A 26	1		P2-J J1-62					.22 .10	NO NO		16 10	
A 27	1		P2-K E6					.22 .37	NO NO		16	
A 28	1		P2-L P1-64					.22 .10	NO NO		16 10	
A 29	1		P2-M P1-63					.22 .10	NO NO		16 10	
A 30	1		P2-B* J1-~~77~~ 87					.22 .10	NO NO		16 10	
A 31	1		P2-C* E6					.22 .37	NO NO		16	
A 32	1		P2-D* P1-~~86~~ 92					.22 .10	NO NO		16 10	
A 33	1		P2-E* ~~E5~~ P1-91					.22 ~~.37~~ .10	NO NO		16 10	
A 34	1		P2-F* J1-~~20~~ 56					.22 .10	NO NO		16 10	
A 35	1		P2-G* E6					.22 .37	NO NO		16	
A 36	1		P2-H* P1-21					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR ~~D~~ E | SHEET 8 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E + D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-J* J1-61					.22 .10	NO NO		16 10	
A 38	1		P2-K* E6					.22 .37	NO NO		16	
A 39	1		P2-V* J1-44					.22 .10	NO NO		16 10	
A 40	1		P2-W* E6					.22 .37	NO NO		16	
A 41	1		P2-X* P1-84					.22 .10	NO NO		16 10	
A 42	1		P2-Y* E5					.22 .37	NO NO		16	
A 43	1		P2-~~Z*~~ X P1-6					.22 .10	NO NO		16 10	
A 44	1		P2-~~AA~~ Y P1-5					.22 .10	NO NO		16 10	
A 45	1		P2-GG J1-45					.22 .10	NO NO		16 10	
A 46	1		P2-HH E6					.22 .37	NO NO		16	
A 47	1		P2-JJ P1-85					.22 .10	NO NO		16 10	
A 48	1		P2-KK E5					.22 .37	NO NO		16	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR ~~D~~ E | SHEET 9 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E + D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P2-LL J1-~~21~~ 40					.22 .10	NO NO		16 10	
A 50	1		P2-MM E6					.22 .37	NO NO		16	
A 51	1		P2-NN P1-57					.22 .10	NO NO		16 10	
A 52	1		P2-PP E10					.22 .37	NO NO		16	
A 53	1		P3-A J1-90					.22 .10	NO NO		16 10	
A 54	1		P3-B E4					.22 .37	NO NO		16	
A 55	1		P3-C P1-1					.22 .10	NO NO		16 10	
A 56	1		P3-D P1-23					.22 .10	NO NO		16 10	
A 57	1		P3-E J1-131					.22 .10	NO NO		16 10	
A 58	1		P3-F E4					.22 .37	NO NO		16	
A 59	1		P3-G P1-2					.22 .10	NO NO		16 10	
A 60	1		P3-H P1-3					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR +~~D~~ E	SHEET 10 OF 24 23

MIL 2084 9-65

CABLE ASSEMBLY 2901220 +E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-J J1-91					.22 .10	NO NO		16 10	
A 62	1		P3-K E4					.22 .37	NO NO		16	
A 63	1		P3-L P1-24					.22 .10	NO NO		16 10	
A 64	1		P3-M P1-42					.22 .10	NO NO		16 10	
A 65	1		P3-N J1-130					.22 .10	NO NO		16 10	
A 66	1		P3-P E4					.22 .37	NO NO		16	
A 67	1		P3-R P1-25					.22 .10	NO NO		16 10	
A 68	1		P3-S P1-44					.22 .10	NO NO		16 10	
A 69	1		P3-T J1-108					.22 .10	NO NO		16 10	
A 70	1		P3-U E4					.22 .37	NO NO		16	
A 71	1		P3-V P1-4					.22 .10	NO NO		16 10	
A 72	1		P3-W P1-26					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR +E	SHEET 11 OF 24 23

MIL 2084 9-65

CABLE ASSEMBLY 2901220 +E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-X J1-110					.22 .10	NO NO		16 10	
A 74	1		P3-Y E4					.22 .37	NO NO		16	
A 75	1		P3-Z P1-45					.22 .10	NO NO		16 10	
A 76	1		P3-A* P1-27					.22 .10	NO NO		16 10	
A 77	1		P3-B* J1-88					.22 .10	NO NO		16 10	
A 78	1		P3-C* E4					.22 .37	NO NO		16	
A 79	1		P3-D* P1-59					.22 .10	NO NO		16 10	
A 80	1		P3-E* P1-41					.22 .10	NO NO		16 10	
A 81	1		P3-F* J1-107					.22 .10	NO NO		16 10	
A 82	1		P3-G* E4					.22 .37	NO NO		16	
A 83	1		P3-H* P1-60					.22 .10	NO NO		16 10	
A 84	1		P3-I* P1-43					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR +E	SHEET 12 OF 24 23

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E + D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-J* J1-128					.22 .10	NO NO		16 10	
A 86	1		P3-K* E4					.22 .37	NO NO		16	
A 87	1		P3-M* P1-77					.22 .10	NO NO		16 10	
A 88	1		P3-N* P1-61					.22 .10	NO NO		16 10	
A 89	1		P3-BB J1-~~8~~ 34					.22 .10	NO NO		16 10	
A 90	1		P3-CC E11					.22 .37	NO NO		16	
A 91	1		P3-DD P1-116					.22 .10	NO NO		16 10	
A 92	1		P3-EE E9					.22 .37	NO NO		16	
A 93	1		P3-FF J1-~~27~~ 51					.22 .10	NO NO		16 10	
A 94	1		P3-GG E11					.22 .37	NO NO		16	
A 95	1		P3-HH P1-80					.22 .10	NO NO		16 10	
A 96	1		P3-JJ E9					.22 .37	NO NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR +~~D~~ E	SHEET 13 OF 24 23

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	97	1		P6-T J1-~~50~~ 20					.22 .10	NO NO		16 10	
A	98	1		P6-U E3					.22 .37	NO NO		16	
A	99	1		P6-V P1-73					.22 .10	NO NO		16 10	
A	100	1		P6-X J1-~~40~~ 22					.22 .10	NO NO		16 10	
A	101	1		P6-Y E3					.22 .37	NO NO		16	
A	102	1		P6-Z P1-74					.22 .10	NO NO		16 10	
A	103	1		P6-A* E10					.22 .37	NO NO		16	
A	104	1		P6-B* J1-17					.22 .10	NO NO		16 10	
A	105	1		P6-C* E3					.22 .37	NO NO		16	
A	106	1		P6-D* P1-94					.22 .10	NO NO		16 10	
A	107	1		P6-F* J1-18					.22 .10	NO NO		16 10	
A	108	1		P6-G* E3					.22 .37	NO NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	109	1		P6-H* P1-112					.22 .10	NO NO		16 10	
A	110	1		P6-J* J1-35					.22 .10	NO NO		16 10	
A	111	1		P6-K* E3					.22 .37	NO NO		16	
A	112	1		P6-M* P1-111					.22 .10	NO NO		16 10	
A	113	1		P6-N* P1-93					.22 .10	NO NO		16 10	
A	114	1		P6-X* J2-16					.22 .15	NO NO		16 11	
A	115	1		P6-Y* J2-17					.22 .15	NO NO		16 11	
A	116	1		P6-Z* P1-95					.22 .10	NO NO		16 10	
A	117	1		P6-BB J2-14					.22 .15	NO NO		16 11	
A	118	1		P6-CC J2-15					.22 .15	NO NO		16 11	
A	119	1		P6-DD P1-96					.22 .10	NO NO		16 10	
A	120	1		P6-FF J2-18					.22 .15	NO NO		16 11	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR E	SHEET 15 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	121	1		P6-GG J2-19					.22 .15	NO NO		16 11	
A	122	1		P6-HH P1-113					.22 .10	NO NO		16 10	
A	123	1		P6-JJ P1-114					.22 .10	NO NO		16 10	
A	124	1		P7-E J1-~~30~~ 39					.22 .10	NO NO		16 10	
A	125	1		P7-F E8					.22 .37	NO NO		16	
A	126	1		P7-G P1-19					.22 .10	NO NO		16 10	
A	127	1		P7-H E10					.22 .37	NO NO		16	
A	128	1		P7-J J1-83					.22 .10	NO NO		16 10	
A	129	1		P7-K J1-66					.22 .10	NO NO		16 10	
A	130	1		P7-L J2-1					.22 .15	NO NO		16 11	
A	131	1		P7-M J2-2					.22 .15	NO NO		16 11	
A	132	1		P7-N J1-101					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 16 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	133	1		P7-P J1-100					.22 .10	NO NO		16 10	
A	134	1		P7-R J2-4					.22 .15	NO NO		16 11	
A	135	1		P7-S J2-5					.22 .15	NO NO		16 11	
A	136	1		P7-T J1-119					.22 .10	NO NO		16 10	
A	137	1		P7-U J1-120					.22 .10	NO NO		16 10	
A	138	1		P7-V J2-7					.22 .15	NO NO		16 11	
A	139	1		P7-W J2-8					.22 .15	NO NO		16 11	
A	140	1		P7-X J1-~~57~~ 58					.22 .10	NO NO		16 10	
A	141	1		P7-Y E8					.22 .37	NO NO		16	
A	142	1		P7-Z P1-20					.22 .10	NO NO		16 10	
A	143	1		P7-A* E10					.22 .37	NO NO		16	
A	144	1		P7-FF J1-~~31~~ 50					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-GG E11					.22 .37	NO NO		16	
A 146	1		P7-HH P1-115					.22 .10	NO NO		16 10	
A 147	1		P7-JJ E9					.22 .37	NO NO		16	
A 148	1		P7-KK J1-~~9~~ 15					.22 .10	NO NO		16 10	
A 149	1		P7-LL E11					.22 .37	NO NO		16	
A 150	1		P7-MM P1-98					.22 .10	NO NO		16 10	
A 151	1		P7-NN E9					.22 .37	NO NO		16	
A 152	1		P8-A J1-~~65~~ 105					.22 .10	NO NO		16 10	
A 153	1		P8-B E2					.22 .37	NO NO		16	
A 154	1		P8-C P1-~~64~~ 132					.22 .10	NO NO		16 10	
A 155	1		P8-D ~~E7~~ P1-110					.22 ~~.37~~ .10	NO NO		16 10	
A 156	1		P8-E J1-~~44~~ 127					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 18 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P8-F E2					.22 .37	NO NO		16	
A 158	1		P8-G P1-~~67~~ 131					.22 .10	NO NO		16 10	
A 159	1		P8-H ~~E7~~ P1-109					.22 ~~.37~~ .10	NO NO		16 10	
A 160	1		P8-J J1-~~55~~ 89					.22 .10	NO NO		16 10	
A 161	1		P8-K E2					.22 .37	NO NO		16	
A 162	1		P8-L P1-~~14~~ 66					.22 .10	NO NO		16 10	
A 163	1		P8-M ~~P1-78~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 164	1		P8-N J1-~~[illegible]~~79					.22 .10	NO NO		16 10	
A 165	1		P8-P E2					.22 .37	NO NO		16	
A 166	1		P8-R P1-~~97~~ 86					.22 .10	NO NO		16 10	
A 167	1		P8-S ~~P1-91~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 168	1		P8-T J1-~~105~~ 63					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 19 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P8-U E2					.22 .37	NO NO		16	
A 170	1		P8-V P1-~~112~~ 69					.22 .10	NO NO		16 10	
A 171	1		P8-W ~~P1-110~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 172	1		P8-X J1-~~127~~ 46					.22 .10	NO NO		16 10	
A 173	1		P8-Y E2					.22 .37	NO NO		16	
A 174	1		P8-Z P1-~~111~~ 67					.22 .10	NO NO		16 10	
A 175	1		P8-A* ~~P1-109~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 176	1		P8-B* J1-86					.22 .10	NO NO		16 10	
A 177	1		P8-C* E2					.22 .37	NO NO		16	
A 178	1		P8-D* P1-106					.22 .10	NO NO		16 10	
A 179	1		P8-E* E1					.22 .37	NO NO		16	
A 180	1		P8-F* J1-69					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 20 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G* E2					.22 .37	NO NO		16	
A 182	1		P8-H* P1-127					.22 .10	NO NO		16 10	
A 183	1		P8-I* E1					.22 .37	NO NO		16	
A 184	1		P8-J* J1-68					.22 .10	NO NO		16 10	
A 185	1		P8-K* E2					.22 .37	NO NO		16	
A 186	1		P8-M* P1-129					.22 .10	NO NO		16 10	
A 187	1		P8-N* E1					.22 .37	NO NO		16	
A 188	1		P8-P* J1-52					.22 .10	NO NO		16 10	
A 189	1		P8-Q* E2					.22 .37	NO NO		16	
A 190	1		P8-R* P1-107					.22 .10	NO NO		16 10	
A 191	1		P8-S* E1					.22 .37	NO NO		16	
A 192	1		P8-T* J1-55					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 21 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E★~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-U*					.22	NO		16	
			E2					.37	NO			
A 194	1		P8-V*					.22	NO		16	
			P1-~~60~~ 79					.10	NO		10	
A 195	1		P8-W*					.22	NO		16	
			~~E7~~ P1-78					~~.37~~ .10	NO		10	
A 196	1		P8-X*					.22	NO		16	
			J2-10					.15	NO		11	
A 197	1		P8-Y*					.22	NO		16	
			J2-11					.15	NO		11	
A 198	23		P8-Z*					.22	NO		16	
			P2-G					.22	NO			
A 199	1		P8-AA					.22	NO		16	
			E7					.37	NO			
A 200	1		P8-BB					.22	NO		16	
			J1-72					.10	NO		10	
A 201	1		P8-CC					.22	NO		16	
			E2					.37	NO			
A 202	1		P8-DD					.22	NO		16	
			P1-81					.10	NO		10	
A 203	1		P8-EE					.22	NO		16	
			P1-65					.10	NO		10	
A 204	23		P6-N					.22	NO		16	
			P2-T					.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ★~~D~~ E	SHEET 22 OF ~~23~~ 24

MIL 2084 9-65

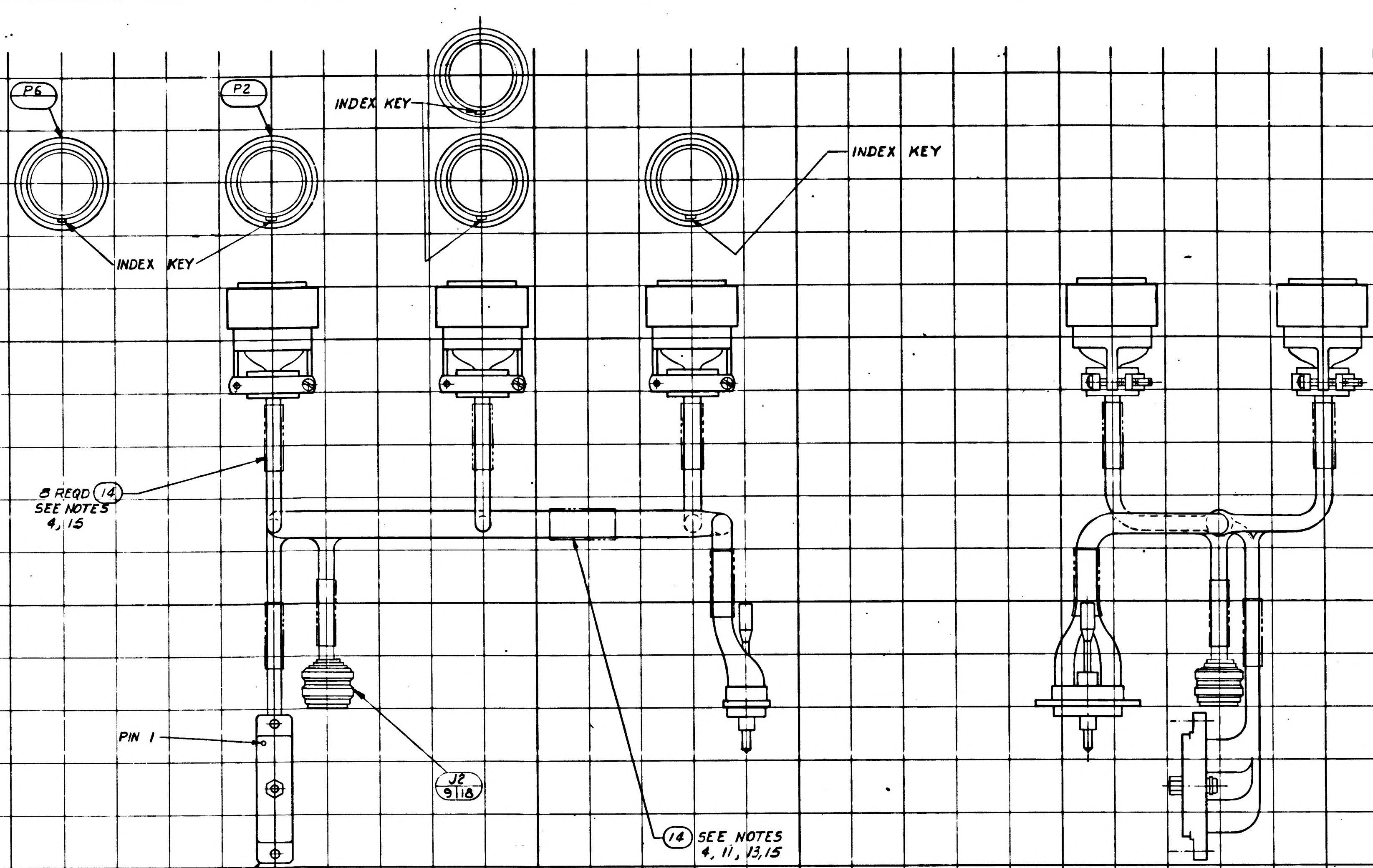
CABLE ASSEMBLY 2901220 E ~~★D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	23		P6-P					.22	NO		16	
			P2-U					.22	NO			
A 206	23		P6-P*					.22	NO		16	
			P2-N					.22	NO			
A 207	23		P6-Q*					.22	NO		16	
			P2-P					.22	NO			
A 208	23		P8-FF					.22	NO		16	
			P2-Z					.22	NO			
A 209	23		P8-GG					.22	NO		16	
			P2-A*					.22	NO			
A 210	1		P2-R					.22	NO		16	
			P1-125					.10	NO		10	
A 211	1		P2-S					.22	NO		16	
			P1-124					.10	NO		10	
A 212	23		P6-T*					.22	NO		16	
			P2-R					.22	NO			
A 213	23		P6-U*					.22	NO		16	
			P2-S					.22	NO			
A 214	1		P2-N*					.22	NO		16	
			P1-48					.10	NO		10	
A 215	23		P2-X					.22	NO			
			P3-KK					.22	NO		16	
A 216	23		P2-Y					.22	NO			
			P3-LL					.22	NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~★D~~ E	SHEET 23 OF 24

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD		


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
8 REQD (14) SEE NOTES 4, 15
PIN 1
J2 9|18
(14) SEE NOTES 4, 11, 13, 15
J1 7

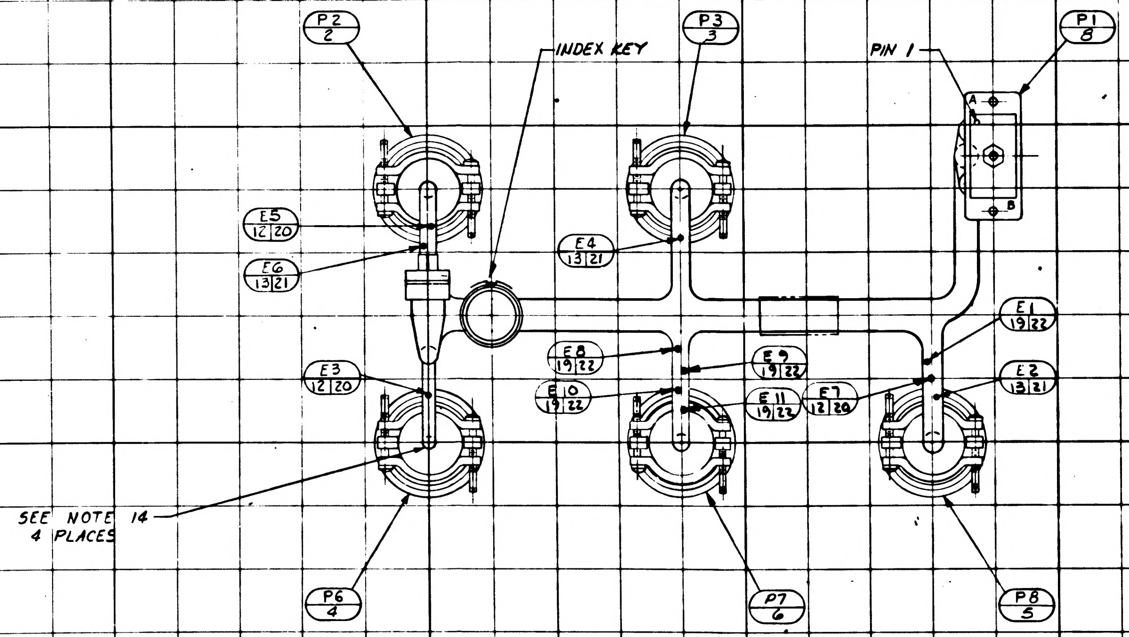

P2 2
P3 3
P1 8
INDEX KEY
PIN 1
A
B
E5 12|20
E6 13|21
E4 13|21
E3 12|20
E8 19|22
E10 19|22
E9 19|22
E11 19|22
E7 12|20
E1 19|22
E2 13|21
SEE NOTE 14 4 PLACES
P6 4
P7 6
P8 5

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1-SCA)
P2	P2 (J2-IN/OUT PANEL)
P3	P3 (J3-IN/OUT PANEL)
P6	P6 (J6-IN/OUT PANEL)
P7	P7 (J7-IN/OUT PANEL)
P8	P8 (J8-IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 24-FEB-66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

SIZE E
CODE IDENT NO. 99974
2901220
SCALE 1:1
SHEET 2 OF 2

2901220 REV E

2901220

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O. 61844	29 MAR 66	LGC CW
B	REVISED PER D.O. 61892	7 APR 66	A.J.F.
C	REVISED PER MXC 211537	21 APR 66	B. AU
D	Revised Per MXC 211925	29 APR 66	RJJ EF
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	PG. EF
F	REVISED PER TDRR 29924	15 JUN 66	JMP

Charleston
11 MAR 66

REV	E	E	F	E																	
SHEET	21	22	23	24																	
REV STATUS OF SHEETS	REV	F	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 24-FEB-66
CHECKED M. Manning 8 MAR 66
APPROVAL R. Pierini 8 MAR 66
APPROVAL

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

NASA APPROVAL 5/6/66
MIT APPROVAL 5 11 66

CONTRACT **NAS9-497**

CODE IDENT NO.	SIZE		REV
99974	A	2901220	F
SCALE —		SHEET 1 OF 24	

CABLE ASSEMBLY 2901220 ~~D~~ E

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 15.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 7, 8 AND 9.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 2 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 ~~G~~ E

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR, BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~X~~ ~~C~~ E	SHEET 3 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901220-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 206 FT TOTAL LENGTH
	2	1	1897047-614	CONNECTOR, ELECTRICAL
	3	1	1897047-611	CONNECTOR, ELECTRICAL
	4	1	1897047-610	CONNECTOR, ELECTRICAL
	5	1	1897047-613	CONNECTOR, ELECTRICAL
	6	1	1897047-612	CONNECTOR, ELECTRICAL
7	7	1	1897398-001	CONNECTOR, ELECTRICAL
7	8	1	1897186- 1	CONNECTOR, ELECTRICAL
7	9	1	1897250-013	CONNECTOR, ELECTRICAL
7	10	123 ~~122~~	1010738-006	CONTACT, SOCKET
7	11	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 9)
7	12	3	1010490-258	INSULATION SLEEVING
7	13	3	1010490-256	INSULATION SLEEVING
7	14	9	1016128-011	BAND, IDENTIFICATION
7	15	AR	1012507-004	TAPE, LACING AND TYING
	16	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 2 THRU 6)
14	17	AR	MIL-I-631	FILLER TAPE TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 4 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	1	1010933-101	CLAMP CABLE ELEC.
7	19	5	1016006-001	SPLICE REDUCER
7	20	3	1016006-002	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
7	22	5	1010490-228	INSULATION SLEEVING
	23	1	2901220-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 24 INCHES TOTAL LENGTH

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 5 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-128					.37 .10	NO NO		 10	
A 2	1		E10 P1-56					.37 .10	NO NO		 10	
A 3	1		E2 E8					.37 .37	NO NO			
A 4	1		E8 E4					.37 .37	NO NO			
A 5	1		E4 E6					.37 .37	NO NO			
A 6	1		E6 E3					.37 .37	NO NO			
A 7	1		E3 J1-71					.37 .10	NO NO		 10	
A 8	1		E5 E7					.37 .37	NO NO			
A 9	1		E7 P1-68					.37 .10	NO NO		 10	
A 10	1		E11 ~~J1-30~~ E8					.37 ~~.10~~ .37	NO NO		 ~~10~~	
A 11	1		E9 P1-97					.37 .10	NO NO		 10	
A 12	1		P2-U* ~~E3~~ ~~J1-27~~ P1-10					.22 ~~.37~~ .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR ~~D~~ E | SHEET 6 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-T P1-70					.22 .10	NO NO		16 10	
A 14	1		P2-U P1-88					.22 .10	NO NO		16 10	
A 15	1		P2-N P1-11					.22 .10	NO NO		16 10	
A 16	1		P2-P P1-12					.22 .10	NO NO		16 10	
A 17	1		P2-Z P1-82					.22 .10	NO NO		16 10	
A 18	1		P2-A* P1-83					.22 .10	NO NO		16 10	
A 19	1		P2-A J1-60					.22 .10	NO NO		16 10	
A 20	1		P2-C P1-47					.22 .10	NO NO		16 10	
A 21	1		P2-D E5					.22 .37	NO NO		16	
A 22	1		P2-E J1-59					.22 .10	NO NO		16 10	
A 23	1		P2-F E6					.22 .37	NO NO		16	
A 24	1		P2-G P1-49					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR E | SHEET 7 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-H E5					.22 .37	NO NO		16	
A 26	1		P2-J J1-62					.22 .10	NO NO		16 10	
A 27	1		P2-K E6					.22 .37	NO NO		16	
A 28	1		P2-L P1-64					.22 .10	NO NO		16 10	
A 29	1		P2-M P1-63					.22 .10	NO NO		16 10	
A 30	1		P2-B* J1-~~79~~ 87					.22 .10	NO NO		16 10	
A 31	1		P2-C* E6					.22 .37	NO NO		16	
A 32	1		P2-D* P1-~~86~~ 92					.22 .10	NO NO		16 10	
A 33	1		P2-E* ~~E5~~ P1-91					.22 ~~.37~~ .10	NO NO		16 10	
A 34	1		P2-F* J1-~~20~~ 56					.22 .10	NO NO		16 10	
A 35	1		P2-G* E6					.22 .37	NO NO		16	
A 36	1		P2-H* P1-21					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR ~~D~~ E | SHEET 8 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-J* J1-61					.22 .10	NO NO		16 10	
A 38	1		P2-K* E6					.22 .37	NO NO		16	
A 39	1		P2-V* J1-44					.22 .10	NO NO		16 10	
A 40	1		P2-W* E6					.22 .37	NO NO		16	
A 41	1		P2-X* P1-84					.22 .10	NO NO		16 10	
A 42	1		P2-Y* E5					.22 .37	NO NO		16	
A 43	1		P2-M* P1-6					.22 .10	NO NO		16 10	
A 44	1		P2-N* P1-5					.22 .10	NO NO		16 10	
A 45	1		P2-GG J1-45					.22 .10	NO NO		16 10	
A 46	1		P2-HH E6					.22 .37	NO NO		16	
A 47	1		P2-JJ P1-85					.22 .10	NO NO		16 10	
A 48	1		P2-KK E5					.22 .37	NO NO		16	

SIZE A | CODE IDENT NO. 99974 | 2901220

SCALE-NONE | REV LTR F | SHEET 9 OF 24

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P2-LL J1-~~21~~ 40					.22 .10	NO NO		16 10	
A 50	1		P2-MM E6					.22 .37	NO NO		16	
A 51	1		P2-NN P1-57					.22 .10	NO NO		16 10	
A 52	1		P2-PP E10					.22 .37	NO NO		16	
A 53	1		P3-A J1-90					.22 .10	NO NO		16 10	
A 54	1		P3-B E4					.22 .37	NO NO		16	
A 55	1		P3-C P1-1					.22 .10	NO NO		16 10	
A 56	1		P3-D P1-23					.22 .10	NO NO		16 10	
A 57	1		P3-E J1-131					.22 .10	NO NO		16 10	
A 58	1		P3-F E4					.22 .37	NO NO		16	
A 59	1		P3-G P1-2					.22 .10	NO NO		16 10	
A 60	1		P3-H P1-3					.22 .10	NO NO		16 10	

SIZE A	CODE IDENT NO. 99974	2901220	
SCALE-NONE	REV LTR +~~D~~ E	SHEET 10 OF ~~23~~ 24	

MIL 2084 9-65

CABLE ASSEMBLY 2901220 +E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-J J1-91					.22 .10	NO NO		16 10	
A 62	1		P3-K E4					.22 .37	NO NO		16	
A 63	1		P3-L P1-24					.22 .10	NO NO		16 10	
A 64	1		P3-M P1-42					.22 .10	NO NO		16 10	
A 65	1		P3-N J1-130					.22 .10	NO NO		16 10	
A 66	1		P3-P E4					.22 .37	NO NO		16	
A 67	1		P3-R P1-25					.22 .10	NO NO		16 10	
A 68	1		P3-S P1-44					.22 .10	NO NO		16 10	
A 69	1		P3-T J1-108					.22 .10	NO NO		16 10	
A 70	1		P3-U E4					.22 .37	NO NO		16	
A 71	1		P3-V P1-4					.22 .10	NO NO		16 10	
A 72	1		P3-W P1-26					.22 .10	NO NO		16 10	

SIZE A	CODE IDENT NO. 99974	2901220	
SCALE-NONE	REV LTR +E	SHEET 11 OF ~~23~~ 24	

MIL 2084 9-65

CABLE ASSEMBLY 2901220 +E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-X J1-110					.22 .10	NO NO		16 10	
A 74	1		P3-Y E4					.22 .37	NO NO		16	
A 75	1		P3-Z P1-45					.22 .10	NO NO		16 10	
A 76	1		P3-A* P1-27					.22 .10	NO NO		16 10	
A 77	1		P3-B* J1-88					.22 .10	NO NO		16 10	
A 78	1		P3-C* E4					.22 .37	NO NO		16	
A 79	1		P3-D* P1-59					.22 .10	NO NO		16 10	
A 80	1		P3-E* P1-41					.22 .10	NO NO		16 10	
A 81	1		P3-F* J1-107					.22 .10	NO NO		16 10	
A 82	1		P3-G* E4					.22 .37	NO NO		16	
A 83	1		P3-H* P1-60					.22 .10	NO NO		16 10	
A 84	1		P3-I* P1-43					.22 .10	NO NO		16 10	

SIZE A	CODE IDENT NO. 99974	2901220	
SCALE-NONE	REV LTR +E	SHEET 12 OF ~~23~~ 24	

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-J* J1-128					.22 .10	NO NO		16 10	
A 86	1		P3-K* E4					.22 .37	NO NO		16	
A 87	1		P3-M* P1-77					.22 .10	NO NO		16 10	
A 88	1		P3-N* P1-61					.22 .10	NO NO		16 10	
A 89	1		P3-BB J1-~~8~~ 34					.22 .10	NO NO		16 10	
A 90	1		P3-CC E11					.22 .37	NO NO		16	
A 91	1		P3-DD P1-116					.22 .10	NO NO		16 10	
A 92	1		P3-EE E9					.22 .37	NO NO		16	
A 93	1		P3-FF J1-~~27~~ 51					.22 .10	NO NO		16 10	
A 94	1		P3-GG E11					.22 .37	NO NO		16	
A 95	1		P3-HH P1-80					.22 .10	NO NO		16 10	
A 96	1		P3-JJ E9					.22 .37	NO NO		16	

SIZE A	CODE IDENT NO. 99974	2901220	
SCALE-NONE	REV LTR +~~D~~E	SHEET 13 OF ~~23~~ 24	

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-T J1-~~50~~ 20					.22 .10	NO NO		16 10	
A 98	1		P6-U E3					.22 .37	NO NO		16	
A 99	1		P6-V P1-73					.22 .10	NO NO		16 10	
A 100	1		P6-X J1-~~40~~ 22					.22 .10	NO NO		16 10	
A 101	1		P6-Y E3					.22 .37	NO NO		16	
A 102	1		P6-Z P1-74					.22 .10	NO NO		16 10	
A 103	1		P6-A* E10					.22 .37	NO NO		16	
A 104	1		P6-B* J1-17					.22 .10	NO NO		16 10	
A 105	1		P6-C* E3					.22 .37	NO NO		16	
A 106	1		P6-D* P1-94					.22 .10	NO NO		16 10	
A 107	1		P6-F* J1-18					.22 .10	NO NO		16 10	
A 108	1		P6-G* E3					.22 .37	NO NO		16	

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-H* P1-112					.22 .10	NO NO		16 10	
A 110	1		P6-J# J1-35					.22 .10	NO NO		16 10	
A 111	1		P6-K* E3					.22 .37	NO NO		16	
A 112	1		P6-M* P1-111					.22 .10	NO NO		16 10	
A 113	1		P6-N* P1-93					.22 .10	NO NO		16 10	
A 114	1		P6-X* J2-16					.22 .15	NO NO		16 11	
A 115	1		P6-Y* J2-17					.22 .15	NO NO		16 11	
A 116	1		P6-Z* P1-95					.22 .10	NO NO		16 10	
A 117	1		P6-BB J2-14					.22 .15	NO NO		16 11	
A 118	1		P6-CC J2-15					.22 .15	NO NO		16 11	
A 119	1		P6-DD P1-96					.22 .10	NO NO		16 10	
A 120	1		P6-FF J2-18					.22 .15	NO NO		16 11	

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR E	SHEET 15 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-GG J2-19					.22 .15	NO NO		16 11	
A 122	1		P6-HH P1-113					.22 .10	NO NO		16 10	
A 123	1		P6-JJ P1-114					.22 .10	NO NO		16 10	
A 124	1		P7-E J1-~~30~~ 39					.22 .10	NO NO		16 10	
A 125	1		P7-F E8					.22 .37	NO NO		16	
A 126	1		P7-G P1-19					.22 .10	NO NO		16 10	
A 127	1		P7-H E10					.22 .37	NO NO		16	
A 128	1		P7-J J1-83					.22 .10	NO NO		16 10	
A 129	1		P7-K J1-66					.22 .10	NO NO		16 10	
A 130	1		P7-L J2-1					.22 .15	NO NO		16 11	
A 131	1		P7-M J2-2					.22 .15	NO NO		16 11	
A 132	1		P7-N J1-101					.22 .10	NO NO		16 10	

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 16 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-P J1-100					.22 .10	NO NO		16 10	
A 134	1		P7-R J2-4					.22 .15	NO NO		16 11	
A 135	1		P7-S J2-5					.22 .15	NO NO		16 11	
A 136	1		P7-T J1-119					.22 .10	NO NO		16 10	
A 137	1		P7-U J1-120					.22 .10	NO NO		16 10	
A 138	1		P7-V J2-7					.22 .15	NO NO		16 11	
A 139	1		P7-W J2-8					.22 .15	NO NO		16 11	
A 140	1		P7-X J1-~~51~~ 58					.22 .10	NO NO		16 10	
A 141	1		P7-Y E8					.22 .37	NO NO		16	
A 142	1		P7-Z P1-20					.22 .10	NO NO		16 10	
A 143	1		P7-A* E10					.22 .37	NO NO		16	
A 144	1		P7-FF J1-~~31~~ 50					.22 .10	NO NO		16 10	

SIZE A	CODE IDENT NO. 99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF 24 ~~23~~

CAPLF ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-GG E11					.22 .37	NO NO		16	
A 146	1		P7-HH P1-115					.22 .10	NO NO		16 10	
A 147	1		P7-JJ E9					.22 .37	NO NO		16	
A 148	1		P7-KK J1-~~9~~ 15					.22 .10	NO NO		16 10	
A 149	1		P7-LL E11					.22 .37	NO NO		16	
A 150	1		P7-MM P1-98					.22 .10	NO NO		16 10	
A 151	1		P7-NN E9					.22 .37	NO NO		16	
A 152	1		P8-A J1-~~65~~ 105					.22 .10	NO NO		16 10	
A 153	1		P8-B E2					.22 .37	NO NO		16	
A 154	1		P8-C P1-~~64~~ 132					.22 .10	NO NO		16 10	
A 155	1		P8-D ~~E7~~ P1-110					.22 ~~.37~~ .10	NO NO		16 10	
A 156	1		P8-E J1-~~44~~ 127					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.		
A	99974	2901220	
SCALE-NONE	REV LTR ~~D~~ E	SHEET 18 OF 24 ~~23~~	

CAPLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P8-F E2					.22 .37	NO NO		16	
A 158	1		P8-G* P1-~~67~~ 131					.22 .10	NO NO		16 10	
A 159	1		P8-H ~~E7~~ P1-109					.22 ~~.37~~ .10	NO NO		16 10	
A 160	1		P8-J J1-~~55~~ 89					.22 .10	NO NO		16 10	
A 161	1		P8-K E2					.22 .37	NO NO		16	
A 162	1		P8-L P1-~~74~~ 66					.22 .10	NO NO		16 10	
A 163	1		P8-M ~~P1-78~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 164	1		P8-N J1-~~[illegible]~~ 79					.22 .10	NO NO		16 10	
A 165	1		P8-P E2					.22 .37	NO NO		16	
A 166	1		P8-R P1-~~97~~ 86					.22 .10	NO NO		16 10	
A 167	1		P8-S ~~P1-91~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 168	1		P8-T J1-~~105~~ 63					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.		
A	99974	2901220	
SCALE-NONE	REV LTR ~~D~~ E	SHEET 19 OF 24 ~~23~~	

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P8-U E2					.22 .37	NO NO		16	
A 170	1		P8-V P1-~~142~~ 69					.22 .10	NO NO		16 10	
A 171	1		P8-W ~~P1-110~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 172	1		P8-X J1-~~127~~ 46.					.22 .10	NO NO		16 10	
A 173	1		P8-Y E2					.22 .37	NO NO		16	
A 174	1		P8-Z P1-~~141~~ 67					.22 .10	NO NO		16 10	
A 175	1		P8-A* ~~P1-109~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 176	1		P8-B* J1-86					.22 .10	NO NO		16 10	
A 177	1		P8-C* E2					.22 .37	NO NO		16	
A 178	1		P8-D* P1-106					.22 .10	NO NO		16 10	
A 179	1		P8-E* E1					.22 .37	NO NO		16	
A 180	1		P8-F* J1-69					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.		
A	99974	2901220	
SCALE-NONE	REV LTR ~~D~~ E	SHEET 20 OF 24 ~~23~~	

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G* E2					.22 .37	NO NO		16	
A 182	1		P8-H* P1-127					.22 .10	NO NO		16 10	
A 183	1		P8-I* E1					.22 .37	NO NO		16	
A 184	1		P8-J* J1-68					.22 .10	NO NO		16 10	
A 185	1		P8-K* E2					.22 .37	NO NO		16	
A 186	1		P8-M* P1-129					.22 .10	NO NO		16 10	
A 187	1		P8-N* E1					.22 .37	NO NO		16	
A 188	1		P8-P* J1-52					.22 .10	NO NO		16 10	
A 189	1		P8-Q* E2					.22 .37	NO NO		16	
A 190	1		P8-R* P1-107					.22 .10	NO NO		16 10	
A 191	1		P8-S* E1					.22 .37	NO NO		16	
A 192	1		P8-T* J1-55					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.		
A	99974	2901220	
SCALE-NONE	REV LTR ~~D~~ E	SHEET 21 OF 24 ~~23~~	

CABLE ASSEMBLY 2901220 E*D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-U* E2					.22 .37	NO NO		16	
A 194	1		P8-V* P1-~~60~~ 79					.22 .10	NO NO		16 10	
A 195	1		P8-W* ~~E7~~ P1-78					.22 ~~.37~~ .10	NO NO		16 10	
A 196	1		P8-X* J2-10					.22 .15	NO NO		16 11	
A 197	1		P8-Y* J2-11					.22 .15	NO NO		16 11	
A 198	23		P8-Z* P2-G					.22 .22	NO NO		16	
A 199	1		P8-AA E7					.22 .37	NO NO		16	
A 200	1		P8-BB J1-72					.22 .10	NO NO		16 10	
A 201	1		P8-CC E2					.22 .37	NO NO		16	
A 202	1		P8-DD P1-81					.22 .10	NO NO		16 10	
A 203	1		P8-EE P1-65					.22 .10	NO NO		16 10	
A 204	23		P6-N P2-T					.22 .22	NO NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR *DE	SHEET 22 OF 24 ~~23~~

MIL 2084 9-65

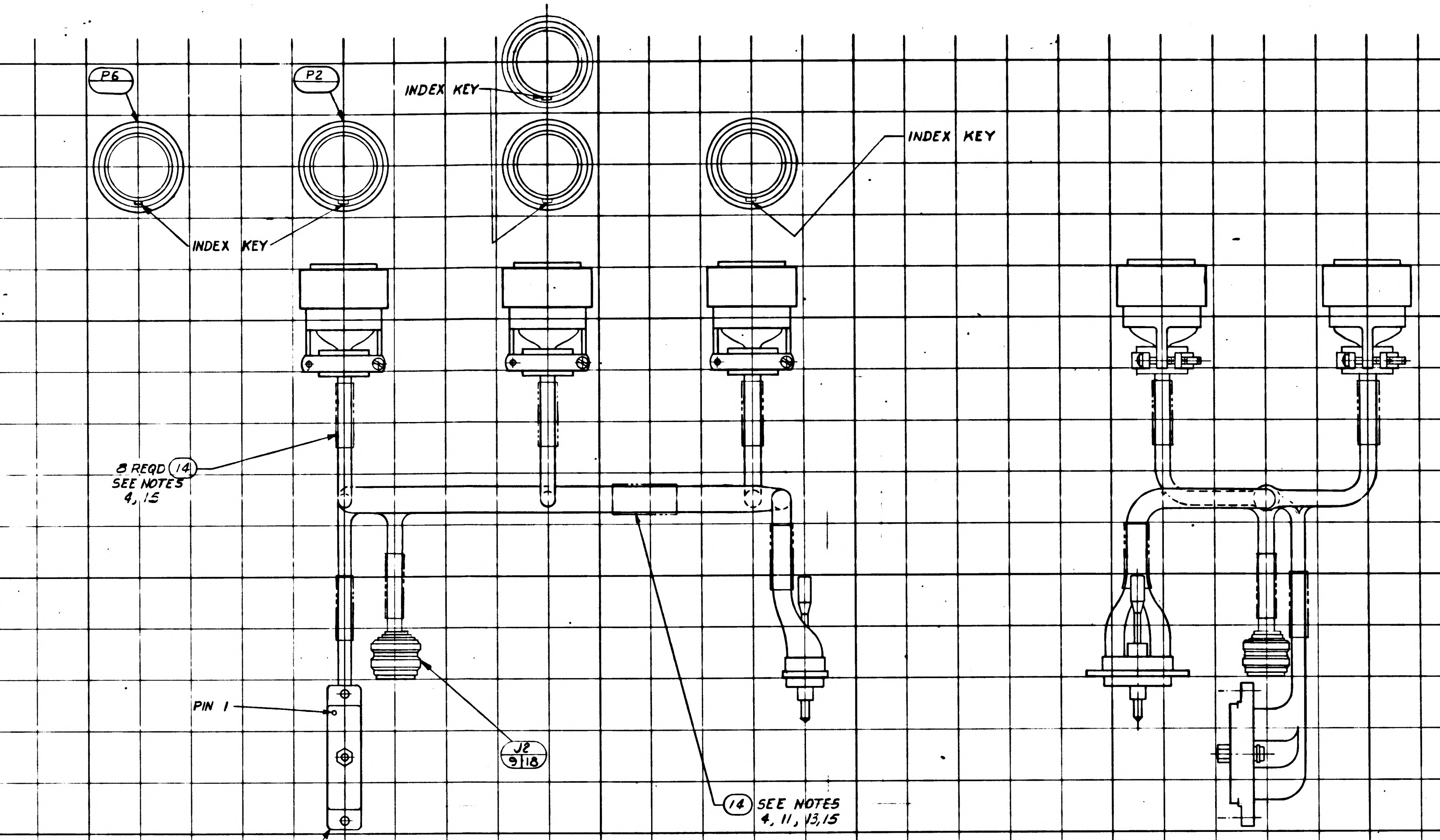
CABLE ASSEMBLY 2901220 F

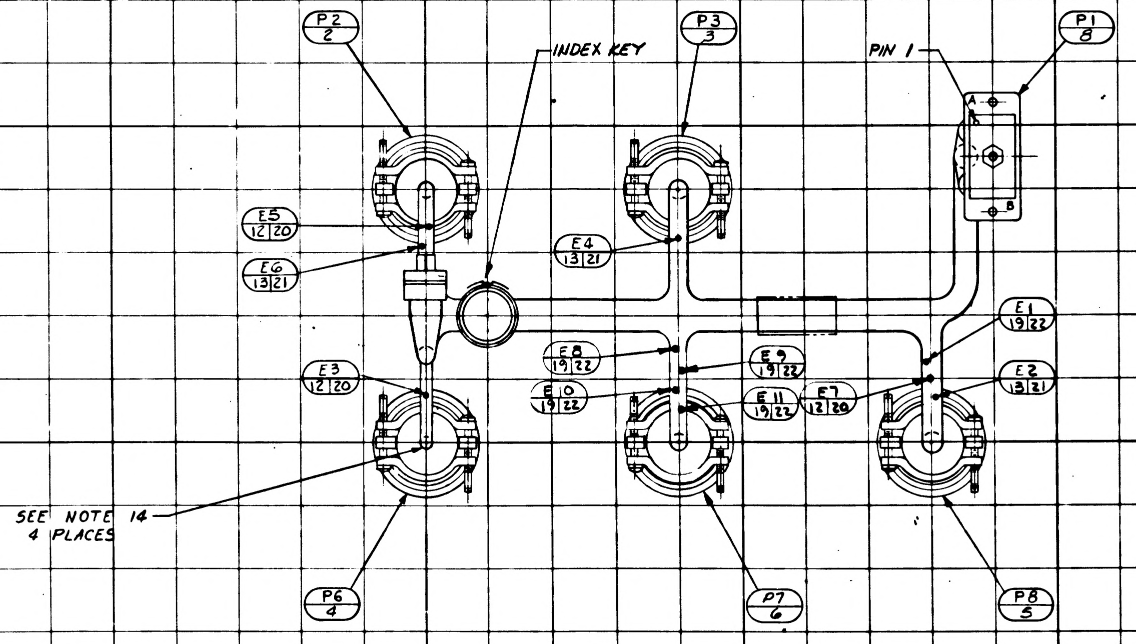
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	23		P6-P P2-U					.22 .22	NO NO		16	
A 206	23		P6-P* P2-N					.22 .22	NO NO		16	
A 207	23		P6-Q* P2-P					.22 .22	NO NO		16	
A 208	23		P8-FF P2-Z					.22 .22	NO NO		16	
A 209	23		P8-GG P2-A*					.22 .22	NO NO		16	
A 210	1		P2-R P1-125					.22 .10	NO NO		16 10	
A 211	1		P2-S P1-124					.22 .10	NO NO		16 10	
A 212	23		P6-T* P2-R					.22 .22	NO NO		16	
A 213	23		P6-U* P2-S					.22 .22	NO NO		16	
A 214	1		P2-N* P1-48					.22 .10	NO NO		16 10	
A 215	23		P2-M* P3-KK					.22 .22	NO NO		 16	
A 216	23		P2-N* P3-LL					.22 .22	NO NO		 16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR F	SHEET 23 OF 24

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
8 REQD ⑭
SEE NOTES 4, 15
PIN 1
J2 9|18
⑭ SEE NOTES 4, 11, 13, 15
J1 7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P3 3
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PIN 1
P1 8
A
B
E5 12|20
E6 13|21
E4 13|21
E1 19|22
E8 19|22
E9 19|22
E3 12|20
E10 19|22
E11 19|22
E7 12|20
E2 13|21
SEE NOTE 14 4 PLACES
P6 4
P7 6
P8 5

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1-SCA)
P2	P2 (J2-IN/OUT PANEL)
P3	P3 (J3-IN/OUT PANEL)
P6	P6 (J6-IN/OUT PANEL)
P7	P7 (J7-IN/OUT PANEL)
P8	P8 (J8-IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN [illegible] DATE 24-FEB-66
CHECKED [illegible] [illegible] 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL [illegible] 5/6/66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

SIZE E
CODE IDENT NO. 99974
2901220
SCALE 1:1
SHEET 2 OF 2

2901220

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901044-011	2900895-011	A	REVISED PER D.O. 61844	29 MAR 66	LGC CW
		B	REVISED PER D.O. 61892	7-APR. 66	A.J.F.
		C	REVISED PER MXC 211537	21 APR. 66	B. AU
		D	REVISED PER MXC 211925	29 APR 66	RJJ EF
		E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	PG. EF
		F	REVISED PER TDRR 29424	15-JUN 66	JIMP
		G	REVISED PER TDRR 29895	13-JUL-66	B.

Charleston 11MAR66

REV	E	E	G	E
SHEET	21	22	23	24

REV STATUS OF SHEETS																					
REV	G	E	E	E	E	E	E	E	F	E	E	E	E	E	E	E	E	E	E	E
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 28-FEB 66
CHECKED M. Manning 8 MAR 66
APPROVAL R Pierini 8 MAR 66
APPROVAL

NASA APPROVAL 5/6/66
MIT APPROVAL 5/6/66

CONTRACT NAS9-497

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901220	G

SCALE —

SHEET 1 OF 24

CABLE ASSEMBLY 2901220 E

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 15.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
10	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES, EXCEPT ITEMS 7, 8 AND 9.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE PER ND1002032.
13	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR E	SHEET 2 OF ~~23~~ 24

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS, COLOR, BLACK.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

16 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR E	SHEET 3 OF ~~23~~ 24

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CABLE ASSEMBLY 2901220 E

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901220-001	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG WHT, 206 FT TOTAL LENGTH
	2	1	1897047-614	CONNECTOR, ELECTRICAL
	3	1	1897047-611	CONNECTOR, ELECTRICAL
	4	1	1897047-610	CONNECTOR, ELECTRICAL
	5	1	1897047-613	CONNECTOR, ELECTRICAL
	6	1	1897047-612	CONNECTOR, ELECTRICAL
7	7	1	1897398-001	CONNECTOR, ELECTRICAL
7	8	1	1897186- 1	CONNECTOR, ELECTRICAL
7	9	1	1897250-013	CONNECTOR, ELECTRICAL
7	10	~~122~~ 123	1010738-006	CONTACT, SOCKET
7	11	X	1897190- 1	CONTACT, PIN (FURNISHED WITH ITEM 9)
7	12	3	1010490-258	INSULATION SLEEVING
7	13	3	1010490-256	INSULATION SLEEVING
7	14	9	1016128-011	BAND, IDENTIFICATION
7	15	AR	1012507-004	TAPE, LACING AND TYING
	16	X	MS3192A-20A	(1896855-020) CONTACT ELEC. PIN CRIMP (FURNISHED WITH ITEMS 2 THRU 6)
14	17	AR	MIL-I-631	FILLER TAPE TYPE F, FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 4 OF ~~23~~ 24

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	1	1010933-101	CLAMP CABLE ELEC.
7	19	5	1016006-001	SPLICE REDUCER
7	20	3	1016006-002	SPLICE REDUCER
7	21	3	1016006-003	SPLICE REDUCER
7	22	5	1010490-228	INSULATION SLEEVING
	23	1	2901220-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 24 INCHES TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR E	SHEET 5 OF ~~23~~ 24

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P1-128					.10	NO		10	
A 2	1		E10					.37	NO			
			P1-56					.10	NO		10	
A 3	1		E2					.37	NO			
			E8					.37	NO			
A 4	1		E8					.37	NO			
			E4					.37	NO			
A 5	1		E4					.37	NO			
			E6					.37	NO			
A 6	1		E6					.37	NO			
			E3					.37	NO			
A 7	1		E3					.37	NO			
			J1-71					.10	NO		10	
A 8	1		E5					.37	NO			
			E7					.37	NO			
A 9	1		E7					.37	NO			
			P1-68					.10	NO		10	
A 10	1		E11					.37	NO			
			~~J1-30~~ E8					~~.10~~ .37	NO		~~10~~	
A 11	1		E9					.37	NO			
			P1-97					.10	NO		10	
A 12	1		P2-U* ~~F7~~					.22 ~~.37~~	NO		16	
			~~J1-27~~ P1-10					.10	NO		10	

SIZE A
CODE IDENT NO. 99974
2901220
SCALE-NONE
REV LTR ~~D~~ E
SHEET 6 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-T					.22	NO		16	
			P1-70					.10	NO		10	
A 14	1		P2-U					.22	NO		16	
			P1-88					.10	NO		10	
A 15	1		P2-N					.22	NO		16	
			P1-11					.10	NO		10	
A 16	1		P2-P					.22	NO		16	
			P1-12					.10	NO		10	
A 17	1		P2-Z					.22	NO		16	
			P1-82					.10	NO		10	
A 18	1		P2-A*					.22	NO		16	
			P1-83					.10	NO		10	
A 19	1		P2-A					.22	NO		16	
			J1-60					.10	NO		10	
A 20	1		P2-C					.22	NO		16	
			P1-47					.10	NO		10	
A 21	1		P2-D					.22	NO		16	
			E5					.37	NO			
A 22	1		P2-E					.22	NO		16	
			J1-59					.10	NO		10	
A 23	1		P2-F					.22	NO		16	
			E6					.37	NO			
A 24	1		P2-G					.22	NO		16	
			P1-49					.10	NO		10	

SIZE A
CODE IDENT NO. 99974
2901220
SCALE-NONE
REV LTR ~~D~~ E
SHEET 7 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P2-H					.22	NO		16	
			E5					.37	NO			
A 26	1		P2-J					.22	NO		16	
			J1-62					.10	NO		10	
A 27	1		P2-K					.22	NO		16	
			E6					.37	NO			
A 28	1		P2-L					.22	NO		16	
			P1-64					.10	NO		10	
A 29	1		P2-M					.22	NO		16	
			P1-63					.10	NO		10	
A 30	1		P2-B*					.22	NO		16	
			J1-~~77~~ 87					.10	NO		10	
A 31	1		P2-C*					.22	NO		16	
			E6					.37	NO			
A 32	1		P2-D*					.22	NO		16	
			P1-~~86~~ 92					.10	NO		10	
A 33	1		P2-E*					.22	NO		16	
			~~E5~~ P1-91					~~.37~~ .10	NO		10	
A 34	1		P2-F*					.22	NO		16	
			J1-~~20~~ 56					.10	NO		10	
A 35	1		P2-G*					.22	NO		16	
			E6					.37	NO			
A 36	1		P2-H*					.22	NO		16	
			P1-21					.10	NO		10	

SIZE A
CODE IDENT NO. 99974
2901220
SCALE-NONE
REV LTR ~~D~~ E
SHEET 8 OF 24 ~~23~~

MIL 2084 9-65

CABLE ASSEMBLY 2901220 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-J*					.22	NO		16	
			J1-61					.10	NO		10	
A 38	1		P2-K*					.22	NO		16	
			E6					.37	NO			
A 39	1		P2-V*					.22	NO		16	
			J1-44					.10	NO		10	
A 40	1		P2-W*					.22	NO		16	
			E6					.37	NO			
A 41	1		P2-X*					.22	NO		16	
			P1-84					.10	NO		10	
A 42	1		P2-Y*					.22	NO		16	
			E5					.37	NO			
A 43	1		P2-M*					.22	NO		16	
			P1-6					.10	NO		10	
A 44	1		P2-N*					.22	NO		16	
			P1-5					.10	NO		10	
A 45	1		P2-GG					.22	NO		16	
			J1-45					.10	NO		10	
A 46	1		P2-HH					.22	NO		16	
			E6					.37	NO			
A 47	1		P2-JJ					.22	NO		16	
			P1-85					.10	NO		10	
A 48	1		P2-KK					.22	NO		16	
			E5					.37	NO			

SIZE A
CODE IDENT NO. 99974
2901220
SCALE-NONE
REV LTR F
SHEET 9 OF 24

MIL 2084 9-65

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P2-LL J1-~~21~~ 40					.22 .10	NO NO		16 10	
A 50	1		P2-MM E6					.22 .37	NO NO		16	
A 51	1		P2-NN P1-57					.22 .10	NO NO		16 10	
A 52	1		P2-PP E10					.22 .37	NO NO		16	
A 53	1		P3-A J1-90					.22 .10	NO NO		16 10	
A 54	1		P3-B E4					.22 .37	NO NO		16	
A 55	1		P3-C P1-1					.22 .10	NO NO		16 10	
A 56	1		P3-D P1-23					.22 .10	NO NO		16 10	
A 57	1		P3-E J1-131					.22 .10	NO NO		16 10	
A 58	1		P3-F E4					.22 .37	NO NO		16	
A 59	1		P3-G P1-2					.22 .10	NO NO		16 10	
A 60	1		P3-H P1-3					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220
SCALE-NONE | REV LTR ~~D~~ E | SHEET 10 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-J J1-91					.22 .10	NO NO		16 10	
A 62	1		P3-K E4					.22 .37	NO NO		16	
A 63	1		P3-L P1-24					.22 .10	NO NO		16 10	
A 64	1		P3-M P1-42					.22 .10	NO NO		16 10	
A 65	1		P3-N J1-130					.22 .10	NO NO		16 10	
A 66	1		P3-P E4					.22 .37	NO NO		16	
A 67	1		P3-R P1-25					.22 .10	NO NO		16 10	
A 68	1		P3-S P1-44					.22 .10	NO NO		16 10	
A 69	1		P3-T J1-108					.22 .10	NO NO		16 10	
A 70	1		P3-U E4					.22 .37	NO NO		16	
A 71	1		P3-V P1-4					.22 .10	NO NO		16 10	
A 72	1		P3-W P1-26					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220
SCALE-NONE | REV LTR E | SHEET 11 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-X J1-110					.22 .10	NO NO		16 10	
A 74	1		P3-Y E4					.22 .37	NO NO		16	
A 75	1		P3-Z P1-45					.22 .10	NO NO		16 10	
A 76	1		P3-A* P1-27					.22 .10	NO NO		16 10	
A 77	1		P3-B* J1-88					.22 .10	NO NO		16 10	
A 78	1		P3-C* E4					.22 .37	NO NO		16	
A 79	1		P3-D* P1-59					.22 .10	NO NO		16 10	
A 80	1		P3-E* P1-41					.22 .10	NO NO		16 10	
A 81	1		P3-F* J1-107					.22 .10	NO NO		16 10	
A 82	1		P3-G* E4					.22 .37	NO NO		16	
A 83	1		P3-H* P1-60					.22 .10	NO NO		16 10	
A 84	1		P3-I* P1-43					.22 .10	NO NO		16 10	

SIZE A | CODE IDENT NO. 99974 | 2901220
SCALE-NONE | REV LTR E | SHEET 12 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E+D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-J* J1-128					.22 .10	NO NO		16 10	
A 86	1		P3-K* E4					.22 .37	NO NO		16	
A 87	1		P3-M* P1-77					.22 .10	NO NO		16 10	
A 88	1		P3-N* P1-61					.22 .10	NO NO		16 10	
A 89	1		P3-BB J1-~~8~~ 34					.22 .10	NO NO		16 10	
A 90	1		P3-CC E11					.22 .37	NO NO		16	
A 91	1		P3-DD P1-116					.22 .10	NO NO		16 10	
A 92	1		P3-EE E9					.22 .37	NO NO		16	
A 93	1		P3-FF J1-~~24~~ 51					.22 .10	NO NO		16 10	
A 94	1		P3-GG E11					.22 .37	NO NO		16	
A 95	1		P3-HH P1-80					.22 .10	NO NO		16 10	
A 96	1		P3-JJ E9					.22 .37	NO NO		16	

SIZE A | CODE IDENT NO. 99974 | 2901220
SCALE-NONE | REV LTR ~~D~~E | SHEET 13 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P6-T J1-~~50~~ 20					.22 .10	NO NO		16 10	
A 98	1		P6-U E3					.22 .37	NO NO		16	
A 99	1		P6-V P1-73					.22 .10	NO NO		16 10	
A 100	1		P6-X J1-~~40~~ 22					.22 .10	NO NO		16 10	
A 101	1		P6-Y E3					.22 .37	NO NO		16	
A 102	1		P6-Z P1-74					.22 .10	NO NO		16 10	
A 103	1		P6-A* E10					.22 .37	NO NO		16	
A 104	1		P6-B* J1-17					.22 .10	NO NO		16 10	
A 105	1		P6-C* E3					.22 .37	NO NO		16	
A 106	1		P6-D* P1-94					.22 .10	NO NO		16 10	
A 107	1		P6-F* J1-18					.22 .10	NO NO		16 10	
A 108	1		P6-G* E3					.22 .37	NO NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 ~~D~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-H* P1-112					.22 .10	NO NO		16 10	
A 110	1		P6-J* J1-35					.22 .10	NO NO		16 10	
A 111	1		P6-K* E3					.22 .37	NO NO		16	
A 112	1		P6-M* P1-111					.22 .10	NO NO		16 10	
A 113	1		P6-N* P1-93					.22 .10	NO NO		16 10	
A 114	1		P6-X* J2-16					.22 .15	NO NO		16 11	
A 115	1		P6-Y* J2-17					.22 .15	NO NO		16 11	
A 116	1		P6-Z* P1-95					.22 .10	NO NO		16 10	
A 117	1		P6-BB J2-14					.22 .15	NO NO		16 11	
A 118	1		P6-CC J2-15					.22 .15	NO NO		16 11	
A 119	1		P6-DD P1-96					.22 .10	NO NO		16 10	
A 120	1		P6-FF J2-18					.22 .15	NO NO		16 11	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 15 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-GG J2-19					.22 .15	NO NO		16 11	
A 122	1		P6-HH P1-113					.22 .10	NO NO		16 10	
A 123	1		P6-JJ P1-114					.22 .10	NO NO		16 10	
A 124	1		P7-E J1-~~38~~ 39					.22 .10	NO NO		16 10	
A 125	1		P7-F E8					.22 .37	NO NO		16	
A 126	1		P7-G P1-19					.22 .10	NO NO		16 10	
A 127	1		P7-H E10					.22 .37	NO NO		16	
A 128	1		P7-J J1-83					.22 .10	NO NO		16 10	
A 129	1		P7-K J1-66					.22 .10	NO NO		16 10	
A 130	1		P7-L J2-1					.22 .15	NO NO		16 11	
A 131	1		P7-M J2-2					.22 .15	NO NO		16 11	
A 132	1		P7-N J1-101					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 16 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-P J1-100					.22 .10	NO NO		16 10	
A 134	1		P7-R J2-4					.22 .15	NO NO		16 11	
A 135	1		P7-S J2-5					.22 .15	NO NO		16 11	
A 136	1		P7-T J1-119					.22 .10	NO NO		16 10	
A 137	1		P7-U J1-120					.22 .10	NO NO		16 10	
A 138	1		P7-V J2-7					.22 .15	NO NO		16 11	
A 139	1		P7-W J2-8					.22 .15	NO NO		16 11	
A 140	1		P7-X J1-~~57~~ 58					.22 .10	NO NO		16 10	
A 141	1		P7-Y E8					.22 .37	NO NO		16	
A 142	1		P7-Z P1-20					.22 .10	NO NO		16 10	
A 143	1		P7-A* E10					.22 .37	NO NO		16	
A 144	1		P7-FF J1-~~31~~ 50					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF 24 ~~23~~

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-GG E11					.22 .37	NO NO		16	
A 146	1		P7-HH P1-115					.22 .10	NO NO		16 10	
A 147	1		P7-JJ E9					.22 .37	NO NO		16	
A 148	1		P7-KK J1-~~9~~ 15					.22 .10	NO NO		16 10	
A 149	1		P7-LL E11					.22 .37	NO NO		16	
A 150	1		P7-MM P1-98					.22 .10	NO NO		16 10	
A 151	1		P7-NN E9					.22 .37	NO NO		16	
A 152	1		P8-A J1-~~65~~ 105					.22 .10	NO NO		16 10	
A 153	1		P8-B E2					.22 .37	NO NO		16	
A 154	1		P8-C P1-~~64~~ 132					.22 .10	NO NO		16 10	
A 155	1		P8-D ~~E7~~ P1-110					.22 ~~.37~~ .10	NO NO		16 10	
A 156	1		P8-E J1-~~44~~ 127					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 18 OF ~~23~~ 24

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P8-F E2					.22 .37	NO NO		16	
A 158	1		P8-G P1-~~67~~ 131					.22 .10	NO NO		16 10	
A 159	1		P8-H ~~E7~~ P1-109					.22 ~~.37~~ .10	NO NO		16 10	
A 160	1		P8-J J1-~~55~~ 89					.22 .10	NO NO		16 10	
A 161	1		P8-K E2					.22 .37	NO NO		16	
A 162	1		P8-L P1-~~74~~ 66					.22 .10	NO NO		16 10	
A 163	1		P8-M ~~P1-78~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 164	1		P8-N J1-~~87~~ 79					.22 .10	NO NO		16 10	
A 165	1		P8-P E2					.22 .37	NO NO		16	
A 166	1		P8-R P1-~~97~~ 86					.22 .10	NO NO		16 10	
A 167	1		P8-S ~~P1-91~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 168	1		P8-T J1-~~105~~ 63					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 19 OF ~~23~~ 24

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P8-U E2					.22 .37	NO NO		16	
A 170	1		P8-V P1-~~132~~ 69					.22 .10	NO NO		16 10	
A 171	1		P8-W ~~P1-110~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 172	1		P8-X J1-~~127~~ 46					.22 .10	NO NO		16 10	
A 173	1		P8-Y E2					.22 .37	NO NO		16	
A 174	1		P8-Z P1-~~114~~ 67					.22 .10	NO NO		16 10	
A 175	1		P8-A* ~~P1-109~~ E7					.22 ~~.10~~ .37	NO NO		16 ~~10~~	
A 176	1		P8-B* J1-86					.22 .10	NO NO		16 10	
A 177	1		P8-C* E2					.22 .37	NO NO		16	
A 178	1		P8-D* P1-106					.22 .10	NO NO		16 10	
A 179	1		P8-E* E1					.22 .37	NO NO		16	
A 180	1		P8-F* J1-69					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 20 OF ~~23~~ 24

CABLE ASSEMBLY 2901220 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G* E2					.22 .37	NO NO		16	
A 182	1		P8-H* P1-127					.22 .10	NO NO		16 10	
A 183	1		P8-I* E1					.22 .37	NO NO		16	
A 184	1		P8-J* J1-68					.22 .10	NO NO		16 10	
A 185	1		P8-K* E2					.22 .37	NO NO		16	
A 186	1		P8-M* P1-129					.22 .10	NO NO		16 10	
A 187	1		P8-N* E1					.22 .37	NO NO		16	
A 188	1		P8-P* J1-52					.22 .10	NO NO		16 10	
A 189	1		P8-Q* E2					.22 .37	NO NO		16	
A 190	1		P8-R* P1-107					.22 .10	NO NO		16 10	
A 191	1		P8-S* E1					.22 .37	NO NO		16	
A 192	1		P8-T* J1-55					.22 .10	NO NO		16 10	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR ~~D~~ E	SHEET 21 OF ~~23~~ 24

CABLE ASSEMBLY 2901220 E*D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-U*					.22	NO		16	
			E2					.37	NO			
A 194	1		P8-V*					.22	NO		16	
			P1-~~60~~ 79					.10	NO		10	
A 195	1		P8-W*					.22	NO		16	
			~~E7~~ P1-78					~~.37~~ .10	NO		10	
A 196	1		P8-X*					.22	NO		16	
			J2-10					.15	NO		11	
A 197	1		P8-Y*					.22	NO		16	
			J2-11					.15	NO		11	
A 198	23		P8-Z*					.22	NO		16	
			P2-G					.22	NO			
A 199	1		P8-AA					.22	NO		16	
			E7					.37	NO			
A 200	1		P8-BB					.22	NO		16	
			J1-72					.10	NO		10	
A 201	1		P8-CC					.22	NO		16	
			E2					.37	NO			
A 202	1		P8-DD					.22	NO		16	
			P1-81					.10	NO		10	
A 203	1		P8-EE					.22	NO		16	
			P1-65					.10	NO		10	
A 204	23		P6-N					.22	NO		16	
			P2-T					.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR *DE	SHEET 22 OF ~~23~~ 24

MIL 2084 9-65

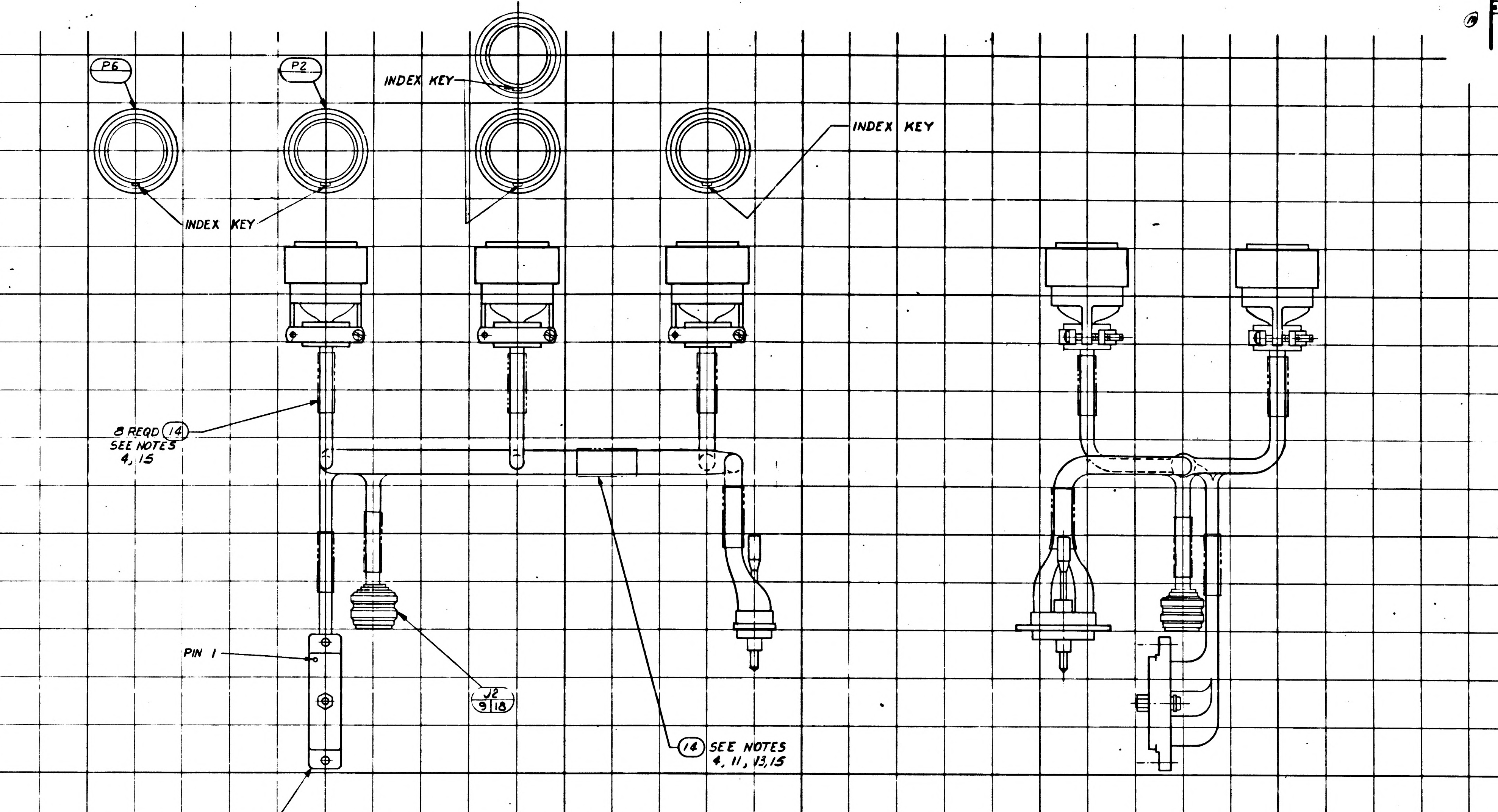
CABLE ASSEMBLY 2901220 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	23		P6-P					.22	NO		16	
			P2-U					.22	NO			
A 206	23		P6-P*					.22	NO		16	
			P2-N					.22	NO			
A 207	23		P6-Q*					.22	NO		16	
			P2-P					.22	NO			
A 208	23		P8-FF					.22	NO		16	
			P2-Z					.22	NO			
A 209	23		P8-GG					.22	NO		16	
			P2-A*					.22	NO			
A 210	1		P2-R					.22	NO		16	
			P1-125					.10	NO		10	
A 211	1		P2-S					.22	NO		16	
			P1-124					.10	NO		10	
A 212	23		P6-T*					.22	NO		16	
			P2-R					.22	NO			
A 213	23		P6-U*					.22	NO		16	
			P2-S					.22	NO			
A 214	23		P3-LL					.22	NO		16	
			P1-48					.10	NO		10	
A 215	23		P2-M*					.22	NO			
			P3-KK					.22	NO		16	
A 216	23		P2-N*					.22	NO			
			P3-LL					.22	NO		16	

SIZE	CODE IDENT NO.	
A	99974	2901220
SCALE-NONE	REV LTR G	SHEET 23 OF 24

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD		


P6
P2
INDEX KEY
INDEX KEY
INDEX KEY
8 REQD (14) SEE NOTES 4, 15
PIN 1
J2 9 18
(14) SEE NOTES 4, 11, 13, 15
J1 7

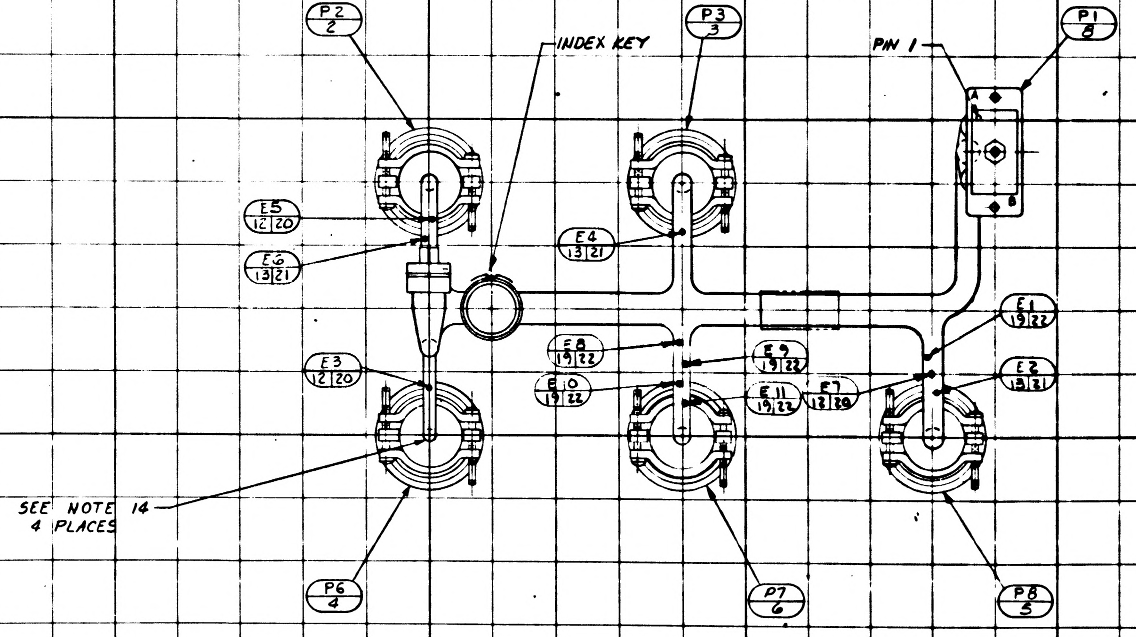

P2 2
INDEX KEY
P3 3
PIN 1
P1 8
A
B
E5 12 20
E6 13 21
E4 13 21
E8 19 22
E9 19 22
E10 19 22
E11 19 22
E7 13 20
E1 19 22
E2 13 21
E3 12 20
SEE NOTE 14 4 PLACES
P6 4
P7 6
P8 5

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1-SCA)
P2	P2 (J2-IN/OUT PANEL)
P3	P3 (J3-IN/OUT PANEL)
P6	P6 (J6-IN/OUT PANEL)
P7	P7 (J7-IN/OUT PANEL)
P8	P8 (J8-IN/OUT PANEL)
J1	J1 (P1-SCA)
J2	J2 (P2-SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN DATE 21 FEB 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES 100
SCA

SIZE E | CODE IDENT NO. 99974 | 2901220
SCALE 1:1 | SHEET 2 OF 2

2901220 REV E

2901220

2901223 REV LTR A

APPLICATION	
NEXT ASSY	USED ON
2901611-011	2901675-011

CHANGE NUMBER	REVISIONS				
	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28599	2 MAY 66	DKD EF

REV																								
SHEET																								
REV STATUS OF SHEETS	REV				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61680

J. Parks 16MAR66
DRAFTSMAN DAY MO YR
17MAR66
CHECKER
17MAR66
ENGINEER
APPROVAL 5/3/66
CONTR NO. NAS9497
5-4-66
DESIGN ACTIVITY APPROVAL
NASA
OTHER APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS A

SIZE A | CODE IDENT. NO. 99974 | **2901223**

SCALE NONE | SHEET 1 OF 18

MIL 1377A2 8-65

WIRING HARNESS A 2901223 A

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 4.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 4.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 2 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

GENERAL NOTES

NOTE NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 3 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901223-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 250 FT TOTAL LENGTH
	2	1	2901223-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
6	3	151	1016369-420	CONTACT, MALE
6	4	80	1897406-005	STRAP, CABLE ADJUSTABLE
6	5	1	1016128-011	BAND, IDENTIFICATION-BLANK
6	6	151	1897399-002	CONTACT, ELEC TAPER
6	7	1	1897335-003	CONNECTOR, RECP ELEC
	8	1	1015902-050	TERMINAL LUG
6	9	1	1016369-720	CONTACT, MALE NO. 16

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 4 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		J1-A3 J7-A1	145 1				.19 .22	NO NO		3 6	
A 2	1		J1-A4 J7-A2	145 2				.19 .22	NO NO		3 6	
A 3	1		J1-A5 J7-A3	145 3				.19 .22	NO NO		3 6	
A 4	1		J1-A6 J7-A4	145 4				.19 .22	NO NO		3 6	
A 5	1		J1-B1 J7-A5	145 5				.19 .22	NO NO		3 6	
A 6	1		J1-B2 J7-A6	145 6				.19 .22	NO NO		3 6	
A 7	1		J1-B3 J7-A7	145 7				.19 .22	NO NO		3 6	
A 8	1		J1-B4 J7-A8	145 8				.19 .22	NO NO		3 6	
A 9	1		J1-B5 J7-A9	145 9				.19 .22	NO NO		3 6	
A 10	1		J1-B6 J7-A10	145 10				.19 .22	NO NO		3 6	
A 11	1		J1-B7 J7-A11	145 11				.19 .22	NO NO		3 6	
A 12	1		J1-B8 J7-A12	145 12				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 5 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		J1-C1 J7-A13	145 13				.19 .22	NO NO		3 6	
A 14	1		J1-C2 J7-A14	145 14				.19 .22	NO NO		3 6	
A 15	1		J1-C3 J7-A15	145 15				.19 .22	NO NO		3 6	
A 16	1		J1-C4 J7-A16	145 16				.19 .22	NO NO		3 6	
A 17	1		J1-C5 J7-A17	145 17				.19 .22	NO NO		3 6	
A 18	1		J1-C6 J7-A18	145 18				.19 .22	NO NO		3 6	
A 19	1		J1-C7 J7-A19	145 19				.19 .22	NO NO		3 6	
A 20	1		J1-C8 J7-A20	145 20				.19 .22	NO NO		3 6	
A 21	1		J1-D1 J7-A21	145 21				.19 .22	NO NO		3 6	
A 22	1		J1-D2 J7-A22	145 22				.19 .22	NO NO		3 6	
A 23	1		J1-D3 J7-A23	145 23				.19 .22	NO NO		3 6	
A 24	1		J1-D4 J7-A24	145 24				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 6 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		J1-D5 J7-A25	145 25				.19 .22	NO NO		3 6	
A 26	1		J1-D6 J7-A26	145 26				.19 .22	NO NO		3 6	
A 27	1		J1-D7 J7-A27	145 27				.19 .22	NO NO		3 6	
A 28	1		J1-D8 J7-A28	145 28				.19 .22	NO NO		3 6	
A 29	1		J1-E1 J7-A29	145 29				.19 .22	NO NO		3 6	
A 30	1		J1-E2 J7-A30	145 30				.19 .22	NO NO		3 6	
A 31	1		J1-E3 J7-A31	145 31				.19 .22	NO NO		3 6	
A 32	1		J1-E4 J7-A32	145 32				.19 .22	NO NO		3 6	
A 33	1		J1-E5 J7-A33	145 33				.19 .22	NO NO		3 6	
A 34	1		J1-E6 J7-A34	145 34				.19 .22	NO NO		3 6	
A 35	1		J1-E7 J7-A35	145 35				.19 .22	NO NO		3 6	
A 36	1		J1-E8 J7-A36	145 36				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 7 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		J1-F1 J7-A37	145 37				.19 .22	NO NO		3 6	
A 38	1		J1-F2 J7-A38	145 38				.19 .22	NO NO		3 6	
A 39	1		J1-F3 J7-A39	145 39				.19 .22	NO NO		3 6	
A 40	1		J1-F4 J7-A40	145 40				.19 .22	NO NO		3 6	
A 41	1		J1-F5 J7-A41	145 41				.19 .22	NO NO		3 6	
A 42	1		J1-F6 J7-A42	145 42				.19 .22	NO NO		3 6	
A 43	1		J1-F7 J7-A43	145 43				.19 .22	NO NO		3 6	
A 44	1		J1-F8 J7-A44	145 44				.19 .22	NO NO		3 6	
A 45	1		J1-G1 J7-A45	145 45				.19 .22	NO NO		3 6	
A 46	1		J1-G2 J7-A46	145 46				.19 .22	NO NO		3 6	
A 47	1		J1-G3 J7-A47	145 47				.19 .22	NO NO		3 6	
A 48	1		J1-G4 J7-A48	145 48				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 8 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		J1-G5 J7-D1	145 49				.19 .22	NO NO		3 6	
A 50	1		J1-G6 J7-D2	145 50				.19 .22	NO NO		3 6	
A 51	1		J1-G7 J7-D3	145 51				.19 .22	NO NO		3 6	
A 52	1		J1-G8 J7-D4	145 52				.19 .22	NO NO		3 6	
A 53	1		J1-H1 J7-D5	145 53				.19 .22	NO NO		3 6	
A 54	1		J1-H2 J7-D6	145 54				.19 .22	NO NO		3 6	
A 55	1		J1-H3 J7-D7	145 55				.19 .22	NO NO		3 6	
A 56	1		J1-H4 J7-D8	145 56				.19 .22	NO NO		3 6	
A 57	1		J1-H5 J7-D9	145 57				.19 .22	NO NO		3 6	
A 58	1		J1-H6 J7-D10	145 58				.19 .22	NO NO		3 6	
A 59	1		J1-H7 J7-D11	145 59				.19 .22	NO NO		3 6	
A 60	1		J1-H8 J7-D12	145 60				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 9 OF 13

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WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		J1-J1 J7-D13	145 61				.19 .22	NO NO		3 6	
A 62	1		J1-J2 J7-D14	145 62				.19 .22	NO NO		3 6	
A 63	1		J1-J3 J7-D15	145 63				.19 .22	NO NO		3 6	
A 64	1		J1-J4 J7-D16	145 64				.19 .22	NO NO		3 6	
A 65	1		J1-J5 J7-D17	145 65				.19 .22	NO NO		3 6	
A 66	1		J1-J6 J7-D18	145 66				.19 .22	NO NO		3 6	
A 67	1		J1-J7 J7-D19	145 67				.19 .22	NO NO		3 6	
A 68	1		J1-J8 J7-D20	145 68				.19 .22	NO NO		3 6	
A 69	1		J1-K1 J7-D21	145 69				.19 .22	NO NO		3 6	
A 70	1		J1-K2 J7-D22	145 70				.19 .22	NO NO		3 6	
A 71	1		J1-K3 J7-D23	145 71				.19 .22	NO NO		3 6	
A 72	1		J1-K6 J7-D24	145 72				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 10 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		J1-K7 J7-D25	145 73				.19 .22	NO NO		3 6	
A 74	1		J1-K8 J7-D26	145 74				.19 .22	NO NO		3 6	
A 75	1		J1-L1 J7-D27	145 75				.19 .22	NO NO		3 6	
A 76	1		J1-L2 J7-D28	145 76				.19 .22	NO NO		3 6	
A 77	1		J1-L7 J7-D29	145 77				.19 .22	NO NO		3 6	
A 78	1		J1-L8 J7-D30	145 78				.19 .22	NO NO		3 6	
A 79	1		J1-M1 J7-D31	145 79				.19 .22	NO NO		3 6	
A 80	1		J1-M2 J7-D32	145 80				.19 .22	NO NO		3 6	
A 81	1		J1-M3 J7-D33	145 81				.19 .22	NO NO		3 6	
A 82	1		J1-M6 J7-D34	145 82				.19 .22	NO NO		3 6	
A 83	1		J1-M7 J7-D35	145 83				.19 .22	NO NO		3 6	
A 84	1		J1-M8 J7-D36	145 84				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 11 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		J1-N1 J7-D37	145 85				.19 .22	NO NO		3 6	
A 86	1		J1-N2 J7-D38	145 86				.19 .22	NO NO		3 6	
A 87	1		J1-N3 J7-D39	145 87				.19 .22	NO NO		3 6	
A 88	1		J1-N4 J7-D40	145 88				.19 .22	NO NO		3 6	
A 89	1		J1-N5 J7-D41	145 89				.19 .22	NO NO		3 6	
A 90	1		J1-N6 J7-D42	145 90				.19 .22	NO NO		3 6	
A 91	1		J1-N7 J7-D43	145 91				.19 .22	NO NO		3 6	
A 92	1		J1-N8 J7-D44	145 92				.19 .22	NO NO		3 6	
A 93	1		J1-P1 J7-D45	145 93				.19 .22	NO NO		3 6	
A 94	1		J1-P2 J7-D46	145 94				.19 .22	NO NO		3 6	
A 95	1		J1-P3 J7-D47	145 95				.19 .22	NO NO		3 6	
A 96	1		J1-P4 J7-D48	145 96				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 12 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		J1-P5 J7-G1	145 97				.19 .22	NO NO		3 6	
A 98	1		J1-P6 J7-G2	145 98				.19 .22	NO NO		3 6	
A 99	1		J1-P7 J7-G3	145 99				.19 .22	NO NO		3 6	
A 100	1		J1-P8 J7-G4	145 100				.19 .22	NO NO		3 6	
A 101	1		J1-R1 J7-G5	145 101				.19 .22	NO NO		3 6	
A 102	1		J1-R2 J7-G6	145 102				.19 .22	NO NO		3 6	
A 103	1		J1-R3 J7-G7	145 103				.19 .22	NO NO		3 6	
A 104	1		J1-R4 J7-G8	145 104				.19 .22	NO NO		3 6	
A 105	1		J1-R5 J7-G9	145 105				.19 .22	NO NO		3 6	
A 106	1		J1-R6 J7-G10	145 106				.19 .22	NO NO		3 6	
A 107	1		J1-R7 J7-G11	145 107				.19 .22	NO NO		3 6	
A 108	1		J1-R8 J7-G12	145 108				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.		
A	99974	2901223	
SCALE-NONE	REV LTR A		SHEET 13 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		J1-S1 J7-G13	145 109				.19 .22	NO NO		3 6	
A 110	1		J1-S2 J7-G14	145 110				.19 .22	NO NO		3 6	
A 111	1		J1-S3 J7-G15	145 111				.19 .22	NO NO		3 6	
A 112	1		J1-S4 J7-G16	145 112				.19 .22	NO NO		3 6	
A 113	1		J1-S5 J7-G17	145 113				.19 .22	NO NO		3 6	
A 114	1		J1-S6 J7-G18	145 114				.19 .22	NO NO		3 6	
A 115	1		J1-S7 J7-G19	145 115				.19 .22	NO NO		3 6	
A 116	1		J1-S8 J7-G20	145 116				.19 .22	NO NO		3 6	
A 117	1		J1-T1 J7-G21	145 117				.19 .22	NO NO		3 6	
A 118	1		J1-T2 J7-G22	145 118				.19 .22	NO NO		3 6	
A 119	1		J1-T3 J7-G23	145 119				.19 .22	NO NO		3 6	
A 120	1		J1-T4 J7-G24	145 120				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 14 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		J1-T5 J7-G25	145 121				.19 .22	NO NO		3 6	
A 122	1		J1-T6 J7-G26	145 122				.19 .22	NO NO		3 6	
A 123	1		J1-T7 J7-G27	145 123				.19 .22	NO NO		3 6	
A 124	1		J1-T8 J7-G28	145 124				.19 .22	NO NO		3 6	
A 125	1		J1-U1 J7-G29	145 125				.19 .22	NO NO		3 6	
A 126	1		J1-U2 J7-G30	145 126				.19 .22	NO NO		3 6	
A 127	1		J1-U3 J7-G31	145 127				.19 .22	NO NO		3 6	
A 128	1		J1-U4 J7-G32	145 128				.19 .22	NO NO		3 6	
A 129	1		J1-U5 J7-G33	145 129				.19 .22	NO NO		3 6	
A 130	1		J1-U6 J7-G34	145 130				.19 .22	NO NO		3 6	
A 131	1		J1-U7 J7-G35	145 131				.19 .22	NO NO		3 6	
A 132	1		J1-U8 J7-G36	145 132				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 15 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		J1-V1 J7-G37	145 133				.19 .22	NO NO		3 6	
A 134	1		J1-V2 J7-G38	145 134				.19 .22	NO NO		3 6	
A 135	1		J1-V3 J7-G39	145 135				.19 .22	NO NO		3 6	
A 136	1		J1-V4 J7-G40	145 136				.19 .22	NO NO		3 6	
A 137	1		J1-V5 J7-G41	145 137				.19 .22	NO NO		3 6	
A 138	1		J1-V6 J7-G42	145 138				.19 .22	NO NO		3 6	
A 139	1		J1-V7 J7-G43	145 139				.19 .22	NO NO		3 6	
A 140	1		J1-V8 J7-G44	145 140				.19 .22	NO NO		3 6	
A 141	1		J1-W1 J7-G45	145 141				.19 .22	NO NO		3 6	
A 142	1		J1-W2 J7-G46	145 142				.19 .22	NO NO		3 6	
A 143	1		J1-W3 J7-G47	145 143				.19 .22	NO NO		3 6	
A 144	1		J1-W4 J7-G48	145 144				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 16 OF 18

MIL 2084 9-65

WIRING HARNESS A 2901223 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		J1-W5 J7-K1	145 97				.19 .22	NO NO		3 6	
A 146	1		J1-W6 J7-K2	145 98				.19 .22	NO NO		3 6	
A 147	1		J1-W7 J7-K3	145 99				.19 .22	NO NO		3 6	
A 148	1		J1-W8 J7-K4	145 100				.19 .22	NO NO		3 6	
A 149	1		J1-X3 J7-K5	145 101				.19 .22	NO NO		3 6	
A 150	1		J1-X4 J7-K6	145 102				.19 .22	NO NO		3 6	
A 151	1		J1-X5 J7-K7	145 103				.19 .22	NO NO		3 6	
A 152	2		J1-X6 E1	145 146				.19 .22	NO NO		9 8	

SIZE	CODE IDENT NO.	
A	99974	2901223
SCALE-NONE	REV LTR A	SHEET 17 OF 18

MIL 2084 9-65

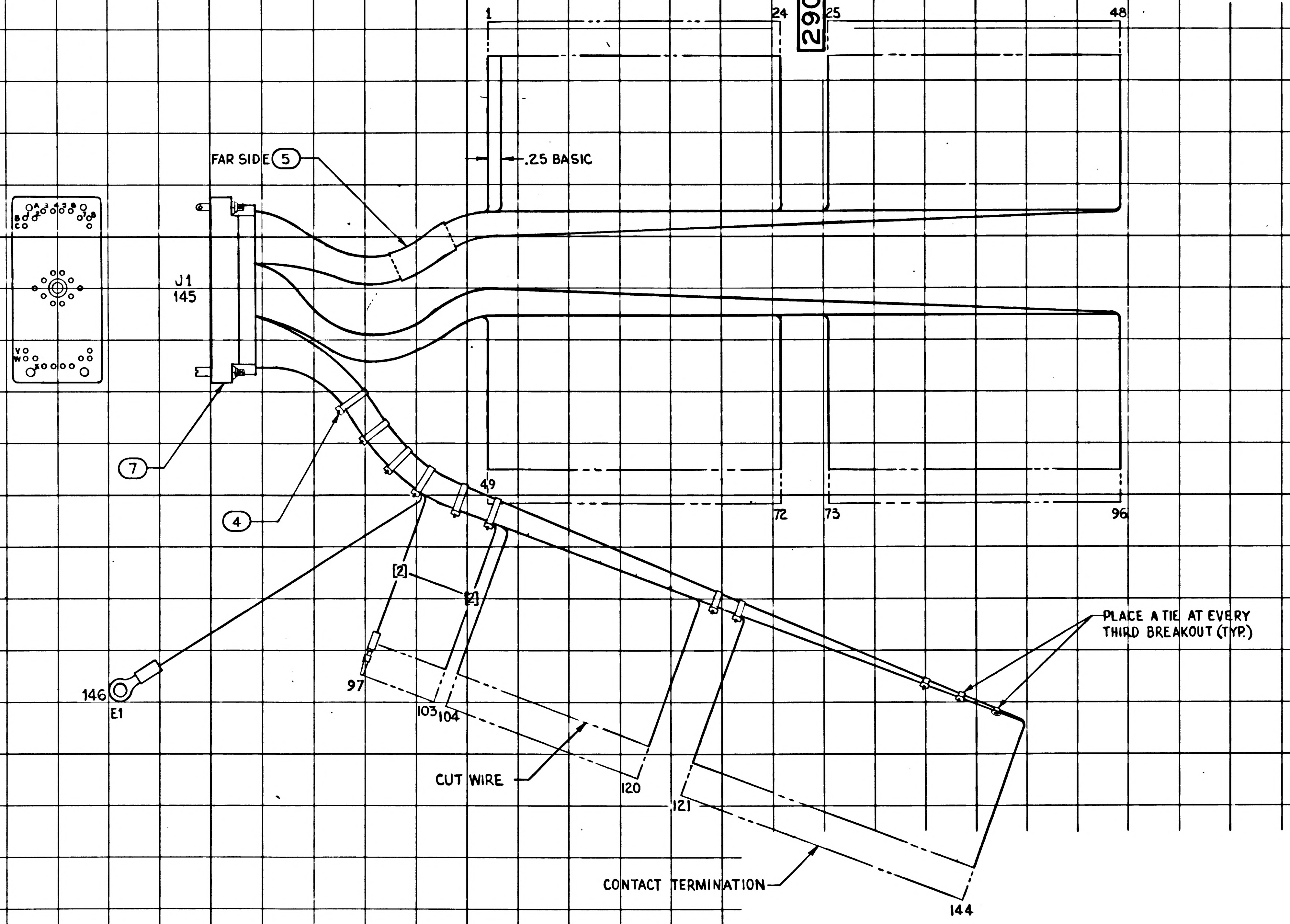
2901223
REV LTR A

SYM	ZONE	DESCRIPTION	DATE	APPD

REVISIONS DCR 28599

CHG NO

SEE SHEET 1 FOR REVISION RECORD



1
24
25
48
FAR SIDE ⑤
.25 BASIC
J1
145
⑦
④
49
72
73
96
[2]
[2]
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP.)
146
E1
97
103
104
CUT WIRE
120
121
CONTACT TERMINATION
144

CODE IDENT NO	SIZE	
99974	D	2901223
SCALE		SHEET 18 OF 18

MX 109894 D-0

2901224	REV LTR A

APPLICATION	
NEXT ASSY	USED ON
2901011-011	2901175-011

CHANGE NUMBER	REVISIONS				
	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28599	2 MAY 66	PG

REV	A	A	A	A	A	A	A	A	A	A	A
SHEET	21	22	23	24	25	26	27	28	29	30	31

REV STATUS OF SHEETS																							
REV				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61680

DRAFTSMAN	J. Parks	16 MAR 66 (DAY MO YR)
CHECKER		17 MAR 66
ENGINEER	L. Noyes	17 MAR 66
APPROVAL		5/3/66
CONTR NO.	NAS9497	
DESIGN ACTIVITY APPROVAL	[illegible] 5 9 66	
~~OTHER APPROVAL~~	NASA	

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS B

SIZE	CODE IDENT. NO.	
A	99974	2901224
SCALE NONE		SHEET 1 OF 31

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 5.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 5.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A		SHEET 2 OF 31

NOTE NUMBER — GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A		SHEET 3 OF 31

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901224-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 300 FT TOTAL LENGTH
	2	1	2901224-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
6	3	151	1016369-420	CONTACT, MALE
6	4	151	1897399-001	CONTACT, ELEC TAPER
6	5	80	1897406-005	STRAP, CABLE ADJUSTABLE
6	6	1	1016128-011	BAND, IDENTIFICATION-BLANK
6	7	151	1897399-002	CONTACT, ELEC TAPER
6	8	1	1897335-003	CONNECTOR, RECP ELEC
	9	1	1015902-050	TERMINAL LUG
6	10	1	1016369-720	CONTACT, MALE NO. 16

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A		SHEET 4 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1	1		J3-A3 J7-C1	153 1				.19 .22	NO NO		3 4	
B 2	1		J3-A4 J7-C2	153 2				.19 .22	NO NO		3 4	
B 3	1		J3-A5 J7-C3	153 3				.19 .22	NO NO		3 4	
B 4	1		J3-A6 J7-C4	153 4				.19 .22	NO NO		3 4	
B 5	1		J3-B1 J7-C5	153 5				.19 .22	NO NO		3 4	
B 6	1		J3-B2 J7-C6	153 6				.19 .22	NO NO		3 4	
B 7	1		J3-B3 J7-C7	153 7				.19 .22	NO NO		3 4	
B 8	1		J3-B4 J7-C8	153 8				.19 .22	NO NO		3 4	
B 9	1		J3-B5 J7-C9	153 9				.19 .22	NO NO		3 4	
B 10	1		J3-B6 J7-C10	153 10				.19 .22	NO NO		3 4	
B 11	1		J3-B7 J7-C11	153 11				.19 .22	NO NO		3 4	
B 12	1		J3-B8 J7-C12	153 12				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A		SHEET 5 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 13	1		J3-C1 J7-C13	153 13				.19 .22	NO NO		3 4	
B 14	1		J3-C2 J7-C14	153 14				.19 .22	NO NO		3 4	
B 15	1		J3-C3 J7-C15	153 15				.19 .22	NO NO		3 4	
B 16	1		J3-C4 J7-C16	153 16				.19 .22	NO NO		3 4	
B 17	1		J3-C5 J7-C17	153 17				.19 .22	NO NO		3 4	
B 18	1		J3-C6 J7-C18	153 18				.19 .22	NO NO		3 4	
B 19	1		J3-C7 J7-C19	153 19				.19 .22	NO NO		3 4	
B 20	1		J3-C8 J7-C20	153 20				.19 .22	NO NO		3 4	
B 21	1		J3-D1 J7-C21	153 21				.19 .22	NO NO		3 4	
B 22	1		J3-D2 J7-C22	153 22				.19 .22	NO NO		3 4	
B 23	1		J3-D3 J7-C23	153 23				.19 .22	NO NO		3 4	
B 24	1		J3-D4 J7-C24	153 24				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 6 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 25	1		J3-D5 J7-C25	153 25				.19 .22	NO NO		3 4	
B 26	1		J3-D6 J7-C26	153 26				.19 .22	NO NO		3 4	
B 27	1		J3-D7 J7-C27	153 27				.19 .22	NO NO		3 4	
B 28	1		J3-D8 J7-C28	153 28				.19 .22	NO NO		3 4	
B 29	1		J3-E1 J7-C29	153 29				.19 .22	NO NO		3 4	
B 30	1		J3-E2 J7-C30	153 30				.19 .22	NO NO		3 4	
B 31	1		J3-E3 J7-C31	153 31				.19 .22	NO NO		3 4	
B 32	1		J3-E4 J7-C32	153 32				.19 .22	NO NO		3 4	
B 33	1		J3-E5 J7-C33	153 33				.19 .22	NO NO		3 4	
B 34	1		J3-E6 J7-C34	153 34				.19 .22	NO NO		3 4	
B 35	1		J3-E7 J7-C35	153 35				.19 .22	NO NO		3 4	
B 36	1		J3-E8 J7-C36	153 36				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 7 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 37	1		J3-F1 J7-C37	153 37				.19 .22	NO NO		3 4	
B 38	1		J3-F2 J7-C38	153 38				.19 .22	NO NO		3 4	
B 39	1		J3-F3 J7-C39	153 39				.19 .22	NO NO		3 4	
B 40	1		J3-F4 J7-C40	153 40				.19 .22	NO NO		3 4	
B 41	1		J3-F5 J7-C41	153 41				.19 .22	NO NO		3 4	
B 42	1		J3-F6 J7-C42	153 42				.19 .22	NO NO		3 4	
B 43	1		J3-F7 J7-C43	153 43				.19 .22	NO NO		3 4	
B 44	1		J3-F8 J7-C44	153 44				.19 .22	NO NO		3 4	
B 45	1		J3-G1 J7-C45	153 45				.19 .22	NO NO		3 4	
B 46	1		J3-G2 J7-C46	153 46				.19 .22	NO NO		3 4	
B 47	1		J3-G3 J7-C47	153 47				.19 .22	NO NO		3 4	
B 48	1		J3-G4 J7-C48	153 48				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 8 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 49	1		J3-G5 J7-F1	153 49				.19 .22	NO NO		3 4	
B 50	1		J3-G6 J7-F2	153 50				.19 .22	NO NO		3 4	
B 51	1		J3-G7 J7-F3	153 51				.19 .22	NO NO		3 4	
B 52	1		J3-G8 J7-F4	153 52				.19 .22	NO NO		3 4	
B 53	1		J3-H1 J7-F5	153 53				.19 .22	NO NO		3 4	
B 54	1		J3-H2 J7-F6	153 54				.19 .22	NO NO		3 4	
B 55	1		J3-H3 J7-F7	153 55				.19 .22	NO NO		3 4	
B 56	1		J3-H4 J7-F8	153 56				.19 .22	NO NO		3 4	
B 57	1		J3-H5 J7-F9	153 57				.19 .22	NO NO		3 4	
B 58	1		J3-H6 J7-F10	153 58				.19 .22	NO NO		3 4	
B 59	1		J3-H7 J7-F11	153 59				.19 .22	NO NO		3 4	
B 60	1		J3-H8 J7-F12	153 60				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 9 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 61	1		J3-J1 J7-F13	153 61				.19 .22	NO NO		3 4	
B 62	1		J3-J2 J7-F14	153 62				.19 .22	NO NO		3 4	
B 63	1		J3-J3 J7-F15	153 63				.19 .22	NO NO		3 4	
B 64	1		J3-J4 J7-F16	153 64				.19 .22	NO NO		3 4	
B 65	1		J3-J5 J7-F17	153 65				.19 .22	NO NO		3 4	
B 66	1		J3-J6 J7-F18	153 66				.19 .22	NO NO		3 4	
B 67	1		J3-J7 J7-F19	153 67				.19 .22	NO NO		3 4	
B 68	1		J3-J8 J7-F20	153 68				.19 .22	NO NO		3 4	
B 69	1		J3-K1 J7-F21	153 69				.19 .22	NO NO		3 4	
B 70	1		J3-K2 J7-F22	153 70				.19 .22	NO NO		3 4	
B 71	1		J3-K3 J7-F23	153 71				.19 .22	NO NO		3 4	
B 72	1		J3-K6 J7-F24	153 72				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 10 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 73	1		J3-K7 J7-F25	153 73				.19 .22	NO NO		3 4	
B 74	1		J3-K8 J7-F26	153 74				.19 .22	NO NO		3 4	
B 75	1		J3-L1 J7-F27	153 75				.19 .22	NO NO		3 4	
B 76	1		J3-L2 J7-F28	153 76				.19 .22	NO NO		3 4	
B 77	1		J3-L7 J7-F29	153 77				.19 .22	NO NO		3 4	
B 78	1		J3-L8 J7-F30	153 78				.19 .22	NO NO		3 4	
B 79	1		J3-M1 J7-F31	153 79				.19 .22	NO NO		3 4	
B 80	1		J3-M2 J7-F32	153 80				.19 .22	NO NO		3 4	
B 81	1		J3-M3 J7-F33	153 81				.19 .22	NO NO		3 4	
B 82	1		J3-M6 J7-F34	153 82				.19 .22	NO NO		3 4	
B 83	1		J3-M7 J7-F35	153 83				.19 .22	NO NO		3 4	
B 84	1		J3-M8 J7-F36	153 84				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 11 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 85	1		J3-N1 J7-F37	153 85				.19 .22	NO NO		3 4	
B 86	1		J3-N2 J7-F38	153 86				.19 .22	NO NO		3 4	
B 87	1		J3-N3 J7-F39	153 87				.19 .22	NO NO		3 4	
B 88	1		J3-N4 J7-F40	153 88				.19 .22	NO NO		3 4	
B 89	1		J3-N5 J7-F41	153 89				.19 .22	NO NO		3 4	
B 90	1		J3-N6 J7-F42	153 90				.19 .22	NO NO		3 4	
B 91	1		J3-N7 J7-F43	153 91				.19 .22	NO NO		3 4	
B 92	1		J3-N8 J7-F44	153 92				.19 .22	NO NO		3 4	
B 93	1		J3-P1 J7-F45	153 93				.19 .22	NO NO		3 4	
B 94	1		J3-P2 J7-F46	153 94				.19 .22	NO NO		3 4	
B 95	1		J3-P3 J7-F47	153 95				.19 .22	NO NO		3 4	
B 96	1		J3-P4 J7-F48	153 96				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 12 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 97	1		J3-P5 J7-J1	153 97				.19 .22	NO NO		3 4	
B 98	1		J3-P6 J7-J2	153 98				.19 .22	NO NO		3 4	
B 99	1		J3-P7 J7-J3	153 99				.19 .22	NO NO		3 4	
B 100	1		J3-P8 J7-J4	153 100				.19 .22	NO NO		3 4	
B 101	1		J3-R1 J7-J5	153 101				.19 .22	NO NO		3 4	
B 102	1		J3-R2 J7-J6	153 102				.19 .22	NO NO		3 4	
B 103	1		J3-R3 J7-J7	153 103				.19 .22	NO NO		3 4	
B 104	1		J3-R4 J7-J8	153 104				.19 .22	NO NO		3 4	
B 105	1		J3-R5 J7-J9	153 105				.19 .22	NO NO		3 4	
B 106	1		J3-R6 J7-J10	153 106				.19 .22	NO NO		3 4	
B 107	1		J3-R7 J7-J11	153 107				.19 .22	NO NO		3 4	
B 108	1		J3-R8 J7-J12	153 108				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 13 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 109	1		J3-S1 J7-J13	153 109				.19 .22	NO NO		3 4	
B 110	1		J3-S2 J7-J14	153 110				.19 .22	NO NO		3 4	
B 111	1		J3-S3 J7-J15	153 111				.19 .22	NO NO		3 4	
B 112	1		J3-S4 J7-J16	153 112				.19 .22	NO NO		3 4	
B 113	1		J3-S5 J7-J17	153 113				.19 .22	NO NO		3 4	
B 114	1		J3-S6 J7-J18	153 114				.19 .22	NO NO		3 4	
B 115	1		J3-S7 J7-J19	153 115				.19 .22	NO NO		3 4	
B 116	1		J3-S8 J7-J20	153 116				.19 .22	NO NO		3 4	
B 117	1		J3-T1 J7-J21	153 117				.19 .22	NO NO		3 4	
B 118	1		J3-T2 J7-J22	153 118				.19 .22	NO NO		3 4	
B 119	1		J3-T3 J7-J23	153 119				.19 .22	NO NO		3 4	
B 120	1		J3-T4 J7-J24	153 120				.19 .22	NO NO		3 4	

SIZE A | CODE IDENT NO. 99974 | 2901224
SCALE-NONE | REV LTR A | SHEET 14 OF 31

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WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 121	1		J3-T5 J7-J25	153 121				.19 .22	NO NO		3 4	
B 122	1		J3-T6 J7-J26	153 122				.19 .22	NO NO		3 4	
B 123	1		J3-T7 J7-J27	153 123				.19 .22	NO NO		3 4	
B 124	1		J3-T8 J7-J28	153 124				.19 .22	NO NO		3 4	
B 125	1		J3-U1 J7-J29	153 125				.19 .22	NO NO		3 4	
B 126	1		J3-U2 J7-J30	153 126				.19 .22	NO NO		3 4	
B 127	1		J3-U3 J7-J31	153 127				.19 .22	NO NO		3 4	
B 128	1		J3-U4 J7-J32	153 128				.19 .22	NO NO		3 4	
B 129	1		J3-U5 J7-J33	153 129				.19 .22	NO NO		3 4	
B 130	1		J3-U6 J7-J34	153 130				.19 .22	NO NO		3 4	
B 131	1		J3-U7 J7-J35	153 131				.19 .22	NO NO		3 4	
B 132	1		J3-U8 J7-J36	153 132				.19 .22	NO NO		3 4	

SIZE A | CODE IDENT NO. 99974 | 2901224
SCALE-NONE | REV LTR A | SHEET 15 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 133	1		J3-V1 J7-J37	153 133				.19 .22	NO NO		3 4	
B 134	1		J3-V2 J7-J38	153 134				.19 .22	NO NO		3 4	
B 135	1		J3-V3 J7-J39	153 135				.19 .22	NO NO		3 4	
B 136	1		J3-V4 J7-J40	153 136				.19 .22	NO NO		3 4	
B 137	1		J3-V5 J7-J41	153 137				.19 .22	NO NO		3 4	
B 138	1		J3-V6 J7-J42	153 138				.19 .22	NO NO		3 4	
B 139	1		J3-V7 J7-J43	153 139				.19 .22	NO NO		3 4	
B 140	1		J3-V8 J7-J44	153 140				.19 .22	NO NO		3 4	
B 141	1		J3-W1 J7-J45	153 141				.19 .22	NO NO		3 4	
B 142	1		J3-W2 J7-J46	153 142				.19 .22	NO NO		3 4	
B 143	1		J3-W3 J7-J47	153 143				.19 .22	NO NO		3 4	
B 144	1		J3-W4 J7-J48	153 144				.19 .22	NO NO		3 4	

SIZE A | CODE IDENT NO. 99974 | 2901224
SCALE-NONE | REV LTR A | SHEET 16 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 145	1		J3-W5 J7-M1	153 145				.19 .22	NO NO		3 4	
B 146	1		J3-W6 J7-M2	153 146				.19 .22	NO NO		3 4	
B 147	1		J3-W7 J7-M3	153 147				.19 .22	NO NO		3 4	
B 148	1		J3-W8 J7-M4	153 148				.19 .22	NO NO		3 4	
B 149	1		J3-X3 J7-M5	153 149				.19 .22	NO NO		3 4	
B 150	1		J3-X4 J7-M6	153 150				.19 .22	NO NO		3 4	
B 151	1		J3-X5 J7-M7	153 151				.19 .22	NO NO		3 4	
B 152	2		J3-X6 E1	153 154				.19 .22	NO NO		10 9	
B 153	1	3.00	J7-B1 J7-C1	 1				.22 .22	NO NO		7	
B 154	1	3.00	J7-B2 J7-C2	 2				.22 .22	NO NO		7	
B 155	1	3.00	J7-B3 J7-C3	 3				.22 .22	NO NO		7	
B 156	1	3.00	J7-B4 J7-C4	 4				.22 .22	NO NO		7	

SIZE A | CODE IDENT NO. 99974 | 2901224
SCALE-NONE | REV LTR A | SHEET 17 OF 31

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 157	1	3.00	J7-B5					.22	NO		7	
			J7-C5	5				.22	NO			
B 158	1	3.00	J7-B6					.22	NO		7	
			J7-C6	6				.22	NO			
B 159	1	3.00	J7-B7					.22	NO		7	
			J7-C7	7				.22	NO			
B 160	1	3.00	J7-B8					.22	NO		7	
			J7-C8	8				.22	NO			
B 161	1	3.00	J7-B9					.22	NO		7	
			J7-C9	9				.22	NO			
B 162	1	3.00	J7-B10					.22	NO		7	
			J7-C10	10				.22	NO			
B 163	1	3.00	J7-B11					.22	NO		7	
			J7-C11	11				.22	NO			
B 164	1	3.00	J7-B12					.22	NO		7	
			J7-C12	12				.22	NO			
B 165	1	3.00	J7-B13					.22	NO		7	
			J7-C13	13				.22	NO			
B 166	1	3.00	J7-B14					.22	NO		7	
			J7-C14	14				.22	NO			
B 167	1	3.00	J7-B15					.22	NO		7	
			J7-C15	15				.22	NO			
B 168	1	3.00	J7-B16					.22	NO		7	
			J7-C16	16				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 18 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 169	1	3.00	J7-B17					.22	NO		7	
			J7-C17	17				.22	NO			
B 170	1	3.00	J7-B18					.22	NO		7	
			J7-C18	18				.22	NO			
B 171	1	3.00	J7-B19					.22	NO		7	
			J7-C19	19				.22	NO			
B 172	1	3.00	J7-B20					.22	NO		7	
			J7-C20	20				.22	NO			
B 173	1	3.00	J7-B21					.22	NO		7	
			J7-C21	21				.22	NO			
B 174	1	3.00	J7-B22					.22	NO		7	
			J7-C22	22				.22	NO			
B 175	1	3.00	J7-B23					.22	NO		7	
			J7-C23	23				.22	NO			
B 176	1	3.00	J7-B24					.22	NO		7	
			J7-C24	24				.22	NO			
B 177	1	3.00	J7-B25					.22	NO		7	
			J7-C25	25				.22	NO			
B 178	1	3.00	J7-B26					.22	NO		7	
			J7-C26	26				.22	NO			
B 179	1	3.00	J7-B27					.22	NO		7	
			J7-C27	27				.22	NO			
B 180	1	3.00	J7-B28					.22	NO		7	
			J7-C28	28				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 19 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 181	1	3.00	J7-B29					.22	NO		7	
			J7-C29	29				.22	NO			
B 182	1	3.00	J7-B30					.22	NO		7	
			J7-C30	30				.22	NO			
B 183	1	3.00	J7-B31					.22	NO		7	
			J7-C31	31				.22	NO			
B 184	1	3.00	J7-B32					.22	NO		7	
			J7-C32	32				.22	NO			
B 185	1	3.00	J7-B33					.22	NO		7	
			J7-C33	33				.22	NO			
B 186	1	3.00	J7-B34					.22	NO		7	
			J7-C34	34				.22	NO			
B 187	1	3.00	J7-B35					.22	NO		7	
			J7-C35	35				.22	NO			
B 188	1	3.00	J7-B36					.22	NO		7	
			J7-C36	36				.22	NO			
B 189	1	3.00	J7-B37					.22	NO		7	
			J7-C37	37				.22	NO			
B 190	1	3.00	J7-B38					.22	NO		7	
			J7-C38	38				.22	NO			
B 191	1	3.00	J7-B39					.22	NO		7	
			J7-C39	39				.22	NO			
B 192	1	3.00	J7-B40					.22	NO		7	
			J7-C40	40				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 20 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 193	1	3.00	J7-B41					.22	NO		7	
			J7-C41	41				.22	NO			
B 194	1	3.00	J7-B42					.22	NO		7	
			J7-C42	42				.22	NO			
B 195	1	3.00	J7-B43					.22	NO		7	
			J7-C43	43				.22	NO			
B 196	1	3.00	J7-B44					.22	NO		7	
			J7-C44	44				.22	NO			
B 197	1	3.00	J7-B45					.22	NO		7	
			J7-C45	45				.22	NO			
B 198	1	3.00	J7-B46					.22	NO		7	
			J7-C46	46				.22	NO			
B 199	1	3.00	J7-B47					.22	NO		7	
			J7-C47	47				.22	NO			
B 200	1	3.00	J7-B48					.22	NO		7	
			J7-C48	48				.22	NO			
B 201	1	3.00	J7-E1					.22	NO		7	
			J7-F1	49				.22	NO			
B 202	1	3.00	J7-E2					.22	NO		7	
			J7-F2	50				.22	NO			
B 203	1	3.00	J7-E3					.22	NO		7	
			J7-F3	51				.22	NO			
B 204	1	3.00	J7-E4					.22	NO		7	
			J7-F4	52				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 21 OF 31

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 205	1	3.00	J7-E5 J7-F5	 53				.22 .22	NO NO		7	
B 206	1	3.00	J7-E6 J7-F6	 54				.22 .22	NO NO		7	
B 207	1	3.00	J7-E7 J7-F7	 55				.22 .22	NO NO		7	
B 208	1	3.00	J7-E8 J7-F8	 56				.22 .22	NO NO		7	
B 209	1	3.00	J7-E9 J7-F9	 57				.22 .22	NO NO		7	
B 210	1	3.00	J7-E10 J7-F10	 58				.22 .22	NO NO		7	
B 211	1	3.00	J7-E11 J7-F11	 59				.22 .22	NO NO		7	
B 212	1	3.00	J7-E12 J7-F12	 60				.22 .22	NO NO		7	
B 213	1	3.00	J7-E13 J7-F13	 61				.22 .22	NO NO		7	
B 214	1	3.00	J7-E14 J7-F14	 62				.22 .22	NO NO		7	
B 215	1	3.00	J7-E15 J7-F15	 63				.22 .22	NO NO		7	
B 216	1	3.00	J7-E16 J7-F16	 64				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 22 OF 31

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WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 217	1	3.00	J7-E17 J7-F17	 65				.22 .22	NO NO		7	
B 218	1	3.00	J7-E18 J7-F18	 66				.22 .22	NO NO		7	
B 219	1	3.00	J7-E19 J7-F19	 67				.22 .22	NO NO		7	
B 220	1	3.00	J7-E20 J7-F20	 68				.22 .22	NO NO		7	
B 221	1	3.00	J7-E21 J7-F21	 69				.22 .22	NO NO		7	
B 222	1	3.00	J7-E22 J7-F22	 70				.22 .22	NO NO		7	
B 223	1	3.00	J7-E23 J7-F23	 71				.22 .22	NO NO		7	
B 224	1	3.00	J7-E24 J7-F24	 72				.22 .22	NO NO		7	
B 225	1	3.00	J7-E25 J7-F25	 73				.22 .22	NO NO		7	
B 226	1	3.00	J7-E26 J7-F26	 74				.22 .22	NO NO		7	
B 227	1	3.00	J7-E27 J7-F27	 75				.22 .22	NO NO		7	
B 228	1	3.00	J7-E28 J7-F28	 76				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 23 OF 31

MIL 2084 9-65

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 229	1	3.00	J7-E29 J7-F29	 77				.22 .22	NO NO		7	
B 230	1	3.00	J7-E30 J7-F30	 78				.22 .22	NO NO		7	
B 231	1	3.00	J7-E31 J7-F31	 79				.22 .22	NO NO		7	
B 232	1	3.00	J7-E32 J7-F32	 80				.22 .22	NO NO		7	
B 233	1	3.00	J7-E33 J7-F33	 81				.22 .22	NO NO		7	
B 234	1	3.00	J7-E34 J7-F34	 82				.22 .22	NO NO		7	
B 235	1	3.00	J7-E35 J7-F35	 83				.22 .22	NO NO		7	
B 236	1	3.00	J7-E36 J7-F36	 84				.22 .22	NO NO		7	
B 237	1	3.00	J7-E37 J7-F37	 85				.22 .22	NO NO		7	
B 238	1	3.00	J7-E38 J7-F38	 86				.22 .22	NO NO		7	
B 239	1	3.00	J7-E39 J7-F39	 87				.22 .22	NO NO		7	
B 240	1	3.00	J7-E40 J7-F40	 88				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 24 OF 31

MIL 2084 9-65

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 241	1	3.00	J7-E41 J7-F41	 89				.22 .22	NO NO		7	
B 242	1	3.00	J7-E42 J7-F42	 90				.22 .22	NO NO		7	
B 243	1	3.00	J7-E43 J7-F43	 91				.22 .22	NO NO		7	
B 244	1	3.00	J7-E44 J7-F44	 92				.22 .22	NO NO		7	
B 245	1	3.00	J7-E45 J7-F45	 93				.22 .22	NO NO		7	
B 246	1	3.00	J7-E46 J7-F46	 94				.22 .22	NO NO		7	
B 247	1	3.00	J7-E47 J7-F47	 95				.22 .22	NO NO		7	
B 248	1	3.00	J7-E48 J7-F48	 96				.22 .22	NO NO		7	
B 249	1	3.00	J7-H1 J7-J1	 97				.22 .22	NO NO		7	
B 250	1	3.00	J7-H2 J7-J2	 98				.22 .22	NO NO		7	
B 251	1	3.00	J7-H3 J7-J3	 99				.22 .22	NO NO		7	
B 252	1	3.00	J7-H4 J7-J4	 100				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 25 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 253	1	3.00	J7-H5 J7-J5	101				.22 .22	NO NO		7	
B 254	1	3.00	J7-H6 J7-J6	102				.22 .22	NO NO		7	
B 255	1	3.00	J7-H7 J7-J7	103				.22 .22	NO NO		7	
B 256	1	3.00	J7-H8 J7-J8	104				.22 .22	NO NO		7	
B 257	1	3.00	J7-H9 J7-J9	105				.22 .22	NO NO		7	
B 258	1	3.00	J7-H10 J7-J10	106				.22 .22	NO NO		7	
B 259	1	3.00	J7-H11 J7-J11	107				.22 .22	NO NO		7	
B 260	1	3.00	J7-H12 J7-J12	108				.22 .22	NO NO		7	
B 261	1	3.00	J7-H13 J7-J13	109				.22 .22	NO NO		7	
B 262	1	3.00	J7-H14 J7-J14	110				.22 .22	NO NO		7	
B 263	1	3.00	J7-H15 J7-J15	111				.22 .22	NO NO		7	
B 264	1	3.00	J7-H16 J7-J16	112				.22 .22	NO NO		7	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 26 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 265	1	3.00	J7-H17 J7-J17	113				.22 .22	NO NO		7	
B 266	1	3.00	J7-H18 J7-J18	114				.22 .22	NO NO		7	
B 267	1	3.00	J7-H19 J7-J19	115				.22 .22	NO NO		7	
B 268	1	3.00	J7-H20 J7-J20	116				.22 .22	NO NO		7	
B 269	1	3.00	J7-H21 J7-J21	117				.22 .22	NO NO		7	
B 270	1	3.00	J7-H22 J7-J22	118				.22 .22	NO NO		7	
B 271	1	3.00	J7-H23 J7-J23	119				.22 .22	NO NO		7	
B 272	1	3.00	J7-H24 J7-J24	120				.22 .22	NO NO		7	
B 273	1	3.00	J7-H25 J7-J25	121				.22 .22	NO NO		7	
B 274	1	3.00	J7-H26 J7-J26	122				.22 .22	NO NO		7	
B 275	1	3.00	J7-H27 J7-J27	123				.22 .22	NO NO		7	
B 276	1	3.00	J7-H28 J7-J28	124				.22 .22	NO NO		7	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 27 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 277	1	3.00	J7-H29 J7-J29	125				.22 .22	NO NO		7	
B 278	1	3.00	J7-H30 J7-J30	126				.22 .22	NO NO		7	
B 279	1	3.00	J7-H31 J7-J31	127				.22 .22	NO NO		7	
B 280	1	3.00	J7-H32 J7-J32	128				.22 .22	NO NO		7	
B 281	1	3.00	J7-H33 J7-J33	129				.22 .22	NO NO		7	
B 282	1	3.00	J7-H34 J7-J34	130				.22 .22	NO NO		7	
B 283	1	3.00	J7-H35 J7-J35	131				.22 .22	NO NO		7	
B 284	1	3.00	J7-H36 J7-J36	132				.22 .22	NO NO		7	
B 285	1	3.00	J7-H37 J7-J37	133				.22 .22	NO NO		7	
B 286	1	3.00	J7-H38 J7-J38	134				.22 .22	NO NO		7	
B 287	1	3.00	J7-H39 J7-J39	135				.22 .22	NO NO		7	
B 288	1	3.00	J7-H40 J7-J40	136				.22 .22	NO NO		7	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 28 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 289	1	3.00	J7-H41 J7-J41	137				.22 .22	NO NO		7	
B 290	1	3.00	J7-H42 J7-J42	138				.22 .22	NO NO		7	
B 291	1	3.00	J7-H43 J7-J43	139				.22 .22	NO NO		7	
B 292	1	3.00	J7-H44 J7-J44	140				.22 .22	NO NO		7	
B 293	1	3.00	J7-H45 J7-J45	141				.22 .22	NO NO		7	
B 294	1	3.00	J7-H46 J7-J46	142				.22 .22	NO NO		7	
B 295	1	3.00	J7-H47 J7-J47	143				.22 .22	NO NO		7	
B 296	1	3.00	J7-H48 J7-J48	144				.22 .22	NO NO		7	
B 297	1	3.00	J7-L1 J7-M1	145				.22 .22	NO NO		7	
B 298	1	3.00	J7-L2 J7-M2	146				.22 .22	NO NO		7	
B 299	1	3.00	J7-L3 J7-M3	147				.22 .22	NO NO		7	
B 300	1	3.00	J7-L4 J7-M4	148				.22 .22	NO NO		7	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 29 OF 31

MIL 2084 9-65

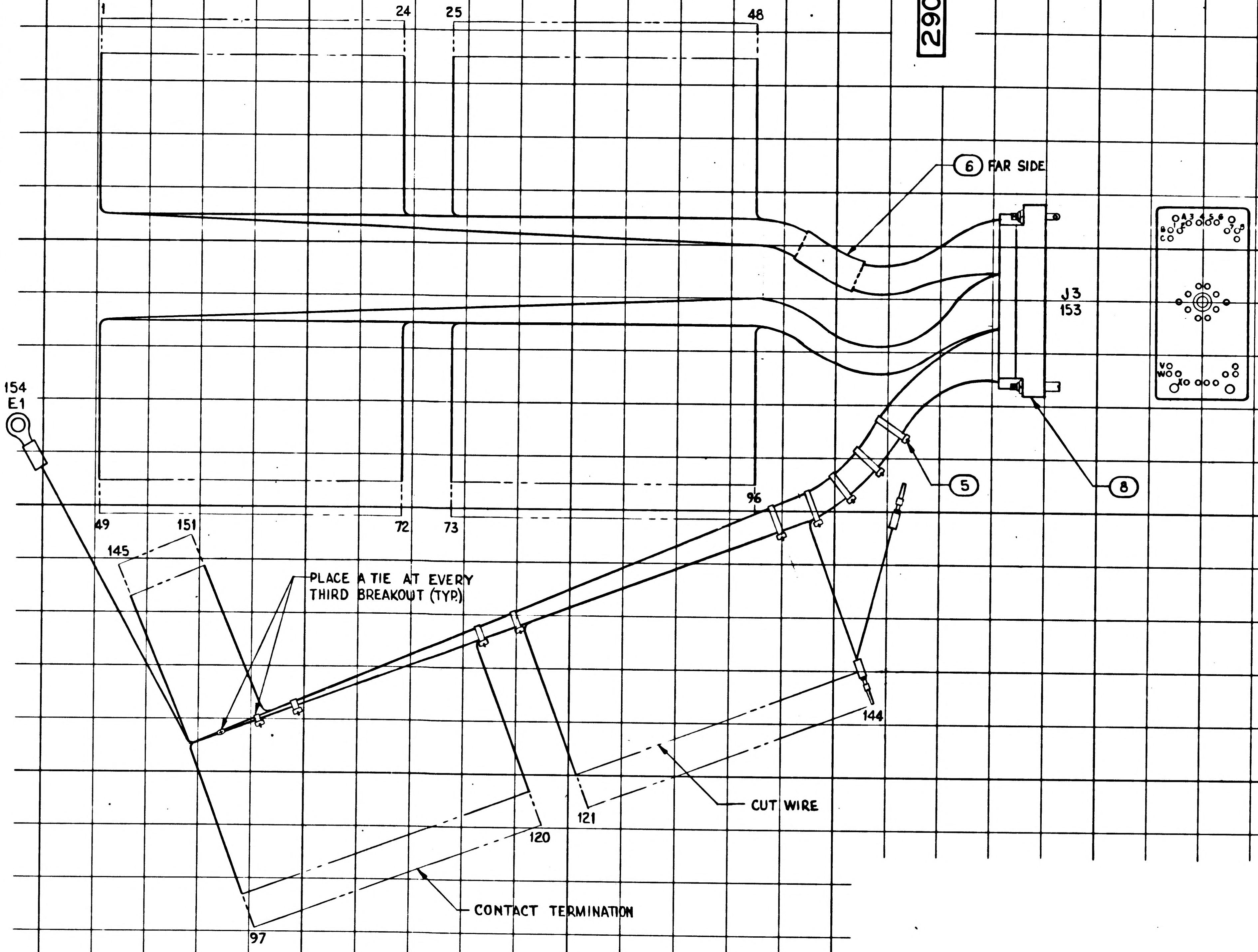
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 301	1	3.00	J7-L5					.22	NO		7	
			J7-M5	149				.22	NO			
B 302	1	3.00	J7-L6					.22	NO		7	
			J7-M6	150				.22	NO			
B 303	1	3.00	J7-L7					.22	NO		7	
			J7-M7	151				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 30 OF 31

2901224 REV LTR A

REVISIONS TWKR-28599				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD


1
24
25
48
6 FAR SIDE
J3
153
154
E1
5
8
49
151
72
73
96
145
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP)
144
121
CUT WIRE
120
CONTACT TERMINATION
97

CODE IDENT NO	SIZE	
99974	D	2901224
SCALE		SHEET 31 OF 31

MX 109894 D-2

2901224

REV LTR B

NEXT ASSY	USED ON
[illegible]	[illegible]

APPLICATION

REVISIONS

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
Ⓜ		A	INITIAL RELEASE CLASS A PER TDRR 28577	2 MAY 66	PG
		B	REVISED PER TDRR 30507	16 AUG 66	PH

REV	A	A	A	A	A	A	A	A	A	A	B
SHEET	21	22	23	24	25	26	27	28	29	30	31

REV STATUS OF SHEETS																					
REV	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61680

DRAFTSMAN J. Parks 16 MAR 66 (DAY MO YR)
CHECKER 17 MAR 66
ENGINEER 17 MAR 66
APPROVAL 5/3/66
CONTR NO. NAS9497
DESIGN ACTIVITY APPROVAL
~~OTHER APPROVAL~~ NA

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS B

SIZE	CODE IDENT. NO.	
A	99974	**2901224**
SCALE NONE		SHEET 1 OF 31

WIRING HARNESS B 2901224 A

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 5.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 5.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 2 OF 31

WIRING HARNESS B 2901224 A

GENERAL NOTES

NOTE NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 3 OF 31

WIRING HARNESS B 2901224 B ~~A~~

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901224-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 300 FT TOTAL LENGTH
	2	1	2901224-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
6	3	151	1016369-420	CONTACT, MALE
6	4	151	1897399-001	CONTACT, ELEC TAPER
6	5	80	1897406-005	STRAP, CABLE ADJUSTABLE
6	6	1	1016128-011	BAND, IDENTIFICATION-BLANK
6	7	151	1897399-002	CONTACT, ELEC TAPER
6	8	1	1897335-003	CONNECTOR, RECP ELEC
	9	1	1015902-050	TERMINAL LUG
6	10	1	1016369-720	CONTACT, MALE NO. 16

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR ~~A~~ B	SHEET 4 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1	1		J3-A3 J7-C1	153 1				.19 .22	NO NO		3 4	
B 2	1		J3-A4 J7-C2	153 2				.19 .22	NO NO		3 4	
B 3	1		J3-A5 J7-C3	153 3				.19 .22	NO NO		3 4	
B 4	1		J3-A6 J7-C4	153 4				.19 .22	NO NO		3 4	
B 5	1		J3-B1 J7-C5	153 5				.19 .22	NO NO		3 4	
B 6	1		J3-B2 J7-C6	153 6				.19 .22	NO NO		3 4	
B 7	1		J3-B3 J7-C7	153 7				.19 .22	NO NO		3 4	
B 8	1		J3-B4 J7-C8	153 8				.19 .22	NO NO		3 4	
B 9	1		J3-B5 J7-C9	153 9				.19 .22	NO NO		3 4	
B 10	1		J3-B6 J7-C10	153 10				.19 .22	NO NO		3 4	
B 11	1		J3-B7 J7-C11	153 11				.19 .22	NO NO		3 4	
B 12	1		J3-B8 J7-C12	153 12				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 5 OF 31

WIRING HARNESS, B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 13	1		J3-C1 J7-C13	153 13				.19 .22	NO NO		3 4	
B 14	1		J3-C2 J7-C14	153 14				.19 .22	NO NO		3 4	
B 15	1		J3-C3 J7-C15	153 15				.19 .22	NO NO		3 4	
B 16	1		J3-C4 J7-C16	153 16				.19 .22	NO NO		3 4	
B 17	1		J3-C5 J7-C17	153 17				.19 .22	NO NO		3 4	
B 18	1		J3-C6 J7-C18	153 18				.19 .22	NO NO		3 4	
B 19	1		J3-C7 J7-C19	153 19				.19 .22	NO NO		3 4	
B 20	1		J3-C8 J7-C20	153 20				.19 .22	NO NO		3 4	
B 21	1		J3-D1 J7-C21	153 21				.19 .22	NO NO		3 4	
B 22	1		J3-D2 J7-C22	153 22				.19 .22	NO NO		3 4	
B 23	1		J3-D3 J7-C23	153 23				.19 .22	NO NO		3 4	
B 24	1		J3-D4 J7-C24	153 24				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 6 OF 31

WIRING HARNESS, B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 25	1		J3-D5 J7-C25	153 25				.19 .22	NO NO		3 4	
B 26	1		J3-D6 J7-C26	153 26				.19 .22	NO NO		3 4	
B 27	1		J3-D7 J7-C27	153 27				.19 .22	NO NO		3 4	
B 28	1		J3-D8 J7-C28	153 28				.19 .22	NO NO		3 4	
B 29	1		J3-E1 J7-C29	153 29				.19 .22	NO NO		3 4	
B 30	1		J3-E2 J7-C30	153 30				.19 .22	NO NO		3 4	
B 31	1		J3-E3 J7-C31	153 31				.19 .22	NO NO		3 4	
B 32	1		J3-E4 J7-C32	153 32				.19 .22	NO NO		3 4	
B 33	1		J3-E5 J7-C33	153 33				.19 .22	NO NO		3 4	
B 34	1		J3-E6 J7-C34	153 34				.19 .22	NO NO		3 4	
B 35	1		J3-E7 J7-C35	153 35				.19 .22	NO NO		3 4	
B 36	1		J3-E8 J7-C36	153 36				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 7 OF 31

WIRING HARNESS, B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 37	1		J3-F1 J7-C37	153 37				.19 .22	NO NO		3 4	
B 38	1		J3-F2 J7-C38	153 38				.19 .22	NO NO		3 4	
B 39	1		J3-F3 J7-C39	153 39				.19 .22	NO NO		3 4	
B 40	1		J3-F4 J7-C40	153 40				.19 .22	NO NO		3 4	
B 41	1		J3-F5 J7-C41	153 41				.19 .22	NO NO		3 4	
B 42	1		J3-F6 J7-C42	153 42				.19 .22	NO NO		3 4	
B 43	1		J3-F7 J7-C43	153 43				.19 .22	NO NO		3 4	
B 44	1		J3-F8 J7-C44	153 44				.19 .22	NO NO		3 4	
B 45	1		J3-G1 J7-C45	153 45				.19 .22	NO NO		3 4	
B 46	1		J3-G2 J7-C46	153 46				.19 .22	NO NO		3 4	
B 47	1		J3-G3 J7-C47	153 47				.19 .22	NO NO		3 4	
B 48	1		J3-G4 J7-C48	153 48				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 8 OF 31

WIRING HARNESS, B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 49	1		J3-G5 J7-F1	153 49				.19 .22	NO NO		3 4	
B 50	1		J3-G6 J7-F2	153 50				.19 .22	NO NO		3 4	
B 51	1		J3-G7 J7-F3	153 51				.19 .22	NO NO		3 4	
B 52	1		J3-G8 J7-F4	153 52				.19 .22	NO NO		3 4	
B 53	1		J3-H1 J7-F5	153 53				.19 .22	NO NO		3 4	
B 54	1		J3-H2 J7-F6	153 54				.19 .22	NO NO		3 4	
B 55	1		J3-H3 J7-F7	153 55				.19 .22	NO NO		3 4	
B 56	1		J3-H4 J7-F8	153 56				.19 .22	NO NO		3 4	
B 57	1		J3-H5 J7-F9	153 57				.19 .22	NO NO		3 4	
B 58	1		J3-H6 J7-F10	153 58				.19 .22	NO NO		3 4	
B 59	1		J3-H7 J7-F11	153 59				.19 .22	NO NO		3 4	
B 60	1		J3-H8 J7-F12	153 60				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 9 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 61	1		J3-J1 J7-F13	153 61				.19 .22	NO NO		3 4	
B 62	1		J3-J2 J7-F14	153 62				.19 .22	NO NO		3 4	
B 63	1		J3-J3 J7-F15	153 63				.19 .22	NO NO		3 4	
B 64	1		J3-J4 J7-F16	153 64				.19 .22	NO NO		3 4	
B 65	1		J3-J5 J7-F17	153 65				.19 .22	NO NO		3 4	
B 66	1		J3-J6 J7-F18	153 66				.19 .22	NO NO		3 4	
B 67	1		J3-J7 J7-F19	153 67				.19 .22	NO NO		3 4	
B 68	1		J3-J8 J7-F20	153 68				.19 .22	NO NO		3 4	
B 69	1		J3-K1 J7-F21	153 69				.19 .22	NO NO		3 4	
B 70	1		J3-K2 J7-F22	153 70				.19 .22	NO NO		3 4	
B 71	1		J3-K3 J7-F23	153 71				.19 .22	NO NO		3 4	
B 72	1		J3-K6 J7-F24	153 72				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A	SHEET 10 OF 31	

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 73	1		J3-K7 J7-F25	153 73				.19 .22	NO NO		3 4	
B 74	1		J3-K8 J7-F26	153 74				.19 .22	NO NO		3 4	
B 75	1		J3-L1 J7-F27	153 75				.19 .22	NO NO		3 4	
B 76	1		J3-L2 J7-F28	153 76				.19 .22	NO NO		3 4	
B 77	1		J3-L7 J7-F29	153 77				.19 .22	NO NO		3 4	
B 78	1		J3-L6 J7-F30	153 78				.19 .22	NO NO		3 4	
B 79	1		J3-M1 J7-F31	153 79				.19 .22	NO NO		3 4	
B 80	1		J3-M2 J7-F32	153 80				.19 .22	NO NO		3 4	
B 81	1		J3-M3 J7-F33	153 81				.19 .22	NO NO		3 4	
B 82	1		J3-M6 J7-F34	153 82				.19 .22	NO NO		3 4	
B 83	1		J3-M7 J7-F35	153 83				.19 .22	NO NO		3 4	
B 84	1		J3-M8 J7-F36	153 84				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A	SHEET 11 OF 31	

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 85	1		J3-N1 J7-F37	153 85				.19 .22	NO NO		3 4	
B 86	1		J3-N2 J7-F38	153 86				.19 .22	NO NO		3 4	
B 87	1		J3-N3 J7-F39	153 87				.19 .22	NO NO		3 4	
B 88	1		J3-N4 J7-F40	153 88				.19 .22	NO NO		3 4	
B 89	1		J3-N5 J7-F41	153 89				.19 .22	NO NO		3 4	
B 90	1		J3-N6 J7-F42	153 90				.19 .22	NO NO		3 4	
B 91	1		J3-N7 J7-F43	153 91				.19 .22	NO NO		3 4	
B 92	1		J3-N8 J7-F44	153 92				.19 .22	NO NO		3 4	
B 93	1		J3-P1 J7-F45	153 93				.19 .22	NO NO		3 4	
B 94	1		J3-P2 J7-F46	153 94				.19 .22	NO NO		3 4	
B 95	1		J3-P3 J7-F47	153 95				.19 .22	NO NO		3 4	
B 96	1		J3-P4 J7-F48	153 96				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A	SHEET 12 OF 31	

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 97	1		J3-P5 J7-J1	153 97				.19 .22	NO NO		3 4	
B 98	1		J3-P6 J7-J2	153 98				.19 .22	NO NO		3 4	
B 99	1		J3-P7 J7-J3	153 99				.19 .22	NO NO		3 4	
B 100	1		J3-P8 J7-J4	153 100				.19 .22	NO NO		3 4	
B 101	1		J3-R1 J7-J5	153 101				.19 .22	NO NO		3 4	
B 102	1		J3-R2 J7-J6	153 102				.19 .22	NO NO		3 4	
B 103	1		J3-R3 J7-J7	153 103				.19 .22	NO NO		3 4	
B 104	1		J3-R4 J7-J8	153 104				.19 .22	NO NO		3 4	
B 105	1		J3-R5 J7-J9	153 105				.19 .22	NO NO		3 4	
B 106	1		J3-R6 J7-J10	153 106				.19 .22	NO NO		3 4	
B 107	1		J3-R7 J7-J11	153 107				.19 .22	NO NO		3 4	
B 108	1		J3-R8 J7-J12	153 108				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.		
A	99974	2901224	
SCALE-NONE	REV LTR A	SHEET 13 OF 31	

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 109	1		J3-S1 J7-J13	153 109				.19 .22	NO NO		3 4	
B 110	1		J3-S2 J7-J14	153 110				.19 .22	NO NO		3 4	
B 111	1		J3-S3 J7-J15	153 111				.19 .22	NO NO		3 4	
B 112	1		J3-S4 J7-J16	153 112				.19 .22	NO NO		3 4	
B 113	1		J3-S5 J7-J17	153 113				.19 .22	NO NO		3 4	
B 114	1		J3-S6 J7-J18	153 114				.19 .22	NO NO		3 4	
B 115	1		J3-S7 J7-J19	153 115				.19 .22	NO NO		3 4	
B 116	1		J3-S8 J7-J20	153 116				.19 .22	NO NO		3 4	
B 117	1		J3-T1 J7-J21	153 117				.19 .22	NO NO		3 4	
B 118	1		J3-T2 J7-J22	153 118				.19 .22	NO NO		3 4	
B 119	1		J3-T3 J7-J23	153 119				.19 .22	NO NO		3 4	
B 120	1		J3-T4 J7-J24	153 120				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 14 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 121	1		J3-T5 J7-J25	153 121				.19 .22	NO NO		3 4	
B 122	1		J3-T6 J7-J26	153 122				.19 .22	NO NO		3 4	
B 123	1		J3-T7 J7-J27	153 123				.19 .22	NO NO		3 4	
B 124	1		J3-T8 J7-J28	153 124				.19 .22	NO NO		3 4	
B 125	1		J3-U1 J7-J29	153 125				.19 .22	NO NO		3 4	
B 126	1		J3-U2 J7-J30	153 126				.19 .22	NO NO		3 4	
B 127	1		J3-U3 J7-J31	153 127				.19 .22	NO NO		3 4	
B 128	1		J3-U4 J7-J32	153 128				.19 .22	NO NO		3 4	
B 129	1		J3-U5 J7-J33	153 129				.19 .22	NO NO		3 4	
B 130	1		J3-U6 J7-J34	153 130				.19 .22	NO NO		3 4	
B 131	1		J3-U7 J7-J35	153 131				.19 .22	NO NO		3 4	
B 132	1		J3-U8 J7-J36	153 132				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 15 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 133	1		J3-V1 J7-J37	153 133				.19 .22	NO NO		3 4	
B 134	1		J3-V2 J7-J38	153 134				.19 .22	NO NO		3 4	
B 135	1		J3-V3 J7-J39	153 135				.19 .22	NO NO		3 4	
B 136	1		J3-V4 J7-J40	153 136				.19 .22	NO NO		3 4	
B 137	1		J3-V5 J7-J41	153 137				.19 .22	NO NO		3 4	
B 138	1		J3-V6 J7-J42	153 138				.19 .22	NO NO		3 4	
B 139	1		J3-V7 J7-J43	153 139				.19 .22	NO NO		3 4	
B 140	1		J3-V8 J7-J44	153 140				.19 .22	NO NO		3 4	
B 141	1		J3-W1 J7-J45	153 141				.19 .22	NO NO		3 4	
B 142	1		J3-W2 J7-J46	153 142				.19 .22	NO NO		3 4	
B 143	1		J3-W3 J7-J47	153 143				.19 .22	NO NO		3 4	
B 144	1		J3-W4 J7-J48	153 144				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 16 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
B 145	1		J3-W5 J7-M1	153 145				.19 .22	NO NO		3 4	
B 146	1		J3-W6 J7-M2	153 146				.19 .22	NO NO		3 4	
B 147	1		J3-W7 J7-M3	153 147				.19 .22	NO NO		3 4	
B 148	1		J3-W8 J7-M4	153 148				.19 .22	NO NO		3 4	
B 149	1		J3-X3 J7-M5	153 149				.19 .22	NO NO		3 4	
B 150	1		J3-X4 J7-M6	153 150				.19 .22	NO NO		3 4	
B 151	1		J3-X5 J7-M7	153 151				.19 .22	NO NO		3 4	
B 152	2		J3-X6 F1	153 154				.19 .22	NO NO		10 9	
B 153	1	3.00	J7-B1 J7-C1	 1				.22 .22	NO NO		7	
B 154	1	3.00	J7-B2 J7-C2	 2				.22 .22	NO NO		7	
B 155	1	3.00	J7-B3 J7-C3	 3				.22 .22	NO NO		7	
B 156	1	3.00	J7-B4 J7-C4	 4				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 17 OF 31

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 157	1	3.00	J7-B5					.22	NO		7	
			J7-C5	5				.22	NO			
B 158	1	3.00	J7-B6					.22	NO		7	
			J7-C6	6				.22	NO			
B 159	1	3.00	J7-B7					.22	NO		7	
			J7-C7	7				.22	NO			
B 160	1	3.00	J7-B8					.22	NO		7	
			J7-C8	8				.22	NO			
B 161	1	3.00	J7-B9					.22	NO		7	
			J7-C9	9				.22	NO			
B 162	1	3.00	J7-B10					.22	NO		7	
			J7-C10	10				.22	NO			
B 163	1	3.00	J7-B11					.22	NO		7	
			J7-C11	11				.22	NO			
B 164	1	3.00	J7-B12					.22	NO		7	
			J7-C12	12				.22	NO			
B 165	1	3.00	J7-B13					.22	NO		7	
			J7-C13	13				.22	NO			
B 166	1	3.00	J7-B14					.22	NO		7	
			J7-C14	14				.22	NO			
B 167	1	3.00	J7-B15					.22	NO		7	
			J7-C15	15				.22	NO			
B 168	1	3.00	J7-B16					.22	NO		7	
			J7-C16	16				.22	NO			

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 18 OF 31

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 169	1	3.00	J7-B17					.22	NO		7	
			J7-C17	17				.22	NO			
B 170	1	3.00	J7-B18					.22	NO		7	
			J7-C18	18				.22	NO			
B 171	1	3.00	J7-B19					.22	NO		7	
			J7-C19	19				.22	NO			
B 172	1	3.00	J7-B20					.22	NO		7	
			J7-C20	20				.22	NO			
B 173	1	3.00	J7-B21					.22	NO		7	
			J7-C21	21				.22	NO			
B 174	1	3.00	J7-B22					.22	NO		7	
			J7-C22	22				.22	NO			
B 175	1	3.00	J7-B23					.22	NO		7	
			J7-C23	23				.22	NO			
B 176	1	3.00	J7-B24					.22	NO		7	
			J7-C24	24				.22	NO			
B 177	1	3.00	J7-B25					.22	NO		7	
			J7-C25	25				.22	NO			
B 178	1	3.00	J7-B26					.22	NO		7	
			J7-C26	26				.22	NO			
B 179	1	3.00	J7-B27					.22	NO		7	
			J7-C27	27				.22	NO			
B 180	1	3.00	J7-B28					.22	NO		7	
			J7-C28	28				.22	NO			

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 19 OF 31

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 181	1	3.00	J7-B29					.22	NO		7	
			J7-C29	29				.22	NO			
B 182	1	3.00	J7-B30					.22	NO		7	
			J7-C30	30				.22	NO			
B 183	1	3.00	J7-B31					.22	NO		7	
			J7-C31	31				.22	NO			
B 184	1	3.00	J7-B32					.22	NO		7	
			J7-C32	32				.22	NO			
B 185	1	3.00	J7-B33					.22	NO		7	
			J7-C33	33				.22	NO			
B 186	1	3.00	J7-B34					.22	NO		7	
			J7-C34	34				.22	NO			
B 187	1	3.00	J7-B35					.22	NO		7	
			J7-C35	35				.22	NO			
B 188	1	3.00	J7-B36					.22	NO		7	
			J7-C36	36				.22	NO			
B 189	1	3.00	J7-B37					.22	NO		7	
			J7-C37	37				.22	NO			
B 190	1	3.00	J7-B38					.22	NO		7	
			J7-C38	38				.22	NO			
B 191	1	3.00	J7-B39					.22	NO		7	
			J7-C39	39				.22	NO			
B 192	1	3.00	J7-B40					.22	NO		7	
			J7-C40	40				.22	NO			

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 20 OF 31

WIRING HARNESS 8 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 193	1	3.00	J7-B41					.22	NO		7	
			J7-C41	41				.22	NO			
B 194	1	3.00	J7-B42					.22	NO		7	
			J7-C42	42				.22	NO			
B 195	1	3.00	J7-B43					.22	NO		7	
			J7-C43	43				.22	NO			
B 196	1	3.00	J7-B44					.22	NO		7	
			J7-C44	44				.22	NO			
B 197	1	3.00	J7-B45					.22	NO		7	
			J7-C45	45				.22	NO			
B 198	1	3.00	J7-B46					.22	NO		7	
			J7-C46	46				.22	NO			
B 199	1	3.00	J7-B47					.22	NO		7	
			J7-C47	47				.22	NO			
B 200	1	3.00	J7-B48					.22	NO		7	
			J7-C48	48				.22	NO			
B 201	1	3.00	J7-E1					.22	NO		7	
			J7-F1	49				.22	NO			
B 202	1	3.00	J7-E2					.22	NO		7	
			J7-F2	50				.22	NO			
B 203	1	3.00	J7-E3					.22	NO		7	
			J7-F3	51				.22	NO			
B 204	1	3.00	J7-E4					.22	NO		7	
			J7-F4	52				.22	NO			

SIZE A
CODE IDENT NO. 99974
2901224
SCALE-NONE
REV LTR A
SHEET 21 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 205	1	3.00	J7-E5 J7-F5	 53				.22 .22	NO NO		7	
B 206	1	3.00	J7-E6 J7-F6	 54				.22 .22	NO NO		7	
B 207	1	3.00	J7-E7 J7-F7	 55				.22 .22	NO NO		7	
B 208	1	3.00	J7-E8 J7-F8	 56				.22 .22	NO NO		7	
B 209	1	3.00	J7-E9 J7-F9	 57				.22 .22	NO NO		7	
B 210	1	3.00	J7-E10 J7-F10	 58				.22 .22	NO NO		7	
B 211	1	3.00	J7-E11 J7-F11	 59				.22 .22	NO NO		7	
B 212	1	3.00	J7-E12 J7-F12	 60				.22 .22	NO NO		7	
B 213	1	3.00	J7-E13 J7-F13	 61				.22 .22	NO NO		7	
B 214	1	3.00	J7-E14 J7-F14	 62				.22 .22	NO NO		7	
B 215	1	3.00	J7-E15 J7-F15	 63				.22 .22	NO NO		7	
B 216	1	3.00	J7-E16 J7-F16	 64				.22 .22	NO NO		7	

SIZE A | CODE IDENT NO. 99974 | 2901224

SCALE-NONE | REV LTR A | SHEET 22 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 217	1	3.00	J7-E17 J7-F17	 65				.22 .22	NO NO		7	
B 218	1	3.00	J7-E18 J7-F18	 66				.22 .22	NO NO		7	
B 219	1	3.00	J7-E19 J7-F19	 67				.22 .22	NO NO		7	
B 220	1	3.00	J7-E20 J7-F20	 68				.22 .22	NO NO		7	
B 221	1	3.00	J7-E21 J7-F21	 69				.22 .22	NO NO		7	
B 222	1	3.00	J7-E22 J7-F22	 70				.22 .22	NO NO		7	
B 223	1	3.00	J7-E23 J7-F23	 71				.22 .22	NO NO		7	
B 224	1	3.00	J7-E24 J7-F24	 72				.22 .22	NO NO		7	
B 225	1	3.00	J7-E25 J7-F25	 73				.22 .22	NO NO		7	
B 226	1	3.00	J7-E26 J7-F26	 74				.22 .22	NO NO		7	
B 227	1	3.00	J7-E27 J7-F27	 75				.22 .22	NO NO		7	
B 228	1	3.00	J7-E28 J7-F28	 76				.22 .22	NO NO		7	

SIZE A | CODE IDENT NO. 99974 | 2901224

SCALE-NONE | REV LTR A | SHEET 23 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 229	1	3.00	J7-E29 J7-F29	 77				.22 .22	NO NO		7	
B 230	1	3.00	J7-E30 J7-F30	 78				.22 .22	NO NO		7	
B 231	1	3.00	J7-E31 J7-F31	 79				.22 .22	NO NO		7	
B 232	1	3.00	J7-E32 J7-F32	 80				.22 .22	NO NO		7	
B 233	1	3.00	J7-E33 J7-F33	 81				.22 .22	NO NO		7	
B 234	1	3.00	J7-E34 J7-F34	 82				.22 .22	NO NO		7	
B 235	1	3.00	J7-E35 J7-F35	 83				.22 .22	NO NO		7	
B 236	1	3.00	J7-E36 J7-F36	 84				.22 .22	NO NO		7	
B 237	1	3.00	J7-E37 J7-F37	 85				.22 .22	NO NO		7	
B 238	1	3.00	J7-E38 J7-F38	 86				.22 .22	NO NO		7	
B 239	1	3.00	J7-E39 J7-F39	 87				.22 .22	NO NO		7	
B 240	1	3.00	J7-E40 J7-F40	 88				.22 .22	NO NO		7	

SIZE A | CODE IDENT NO. 99974 | 2901224

SCALE-NONE | REV LTR A | SHEET 24 OF 31

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 241	1	3.00	J7-E41 J7-F41	 89				.22 .22	NO NO		7	
B 242	1	3.00	J7-E42 J7-F42	 90				.22 .22	NO NO		7	
B 243	1	3.00	J7-E43 J7-F43	 91				.22 .22	NO NO		7	
B 244	1	3.00	J7-E44 J7-F44	 92				.22 .22	NO NO		7	
B 245	1	3.00	J7-E45 J7-F45	 93				.22 .22	NO NO		7	
B 246	1	3.00	J7-E46 J7-F46	 94				.22 .22	NO NO		7	
B 247	1	3.00	J7-E47 J7-F47	 95				.22 .22	NO NO		7	
B 248	1	3.00	J7-E48 J7-F48	 96				.22 .22	NO NO		7	
B 249	1	3.00	J7-H1 J7-J1	 97				.22 .22	NO NO		7	
B 250	1	3.00	J7-H2 J7-J2	 98				.22 .22	NO NO		7	
B 251	1	3.00	J7-H3 J7-J3	 99				.22 .22	NO NO		7	
B 252	1	3.00	J7-H4 J7-J4	 100				.22 .22	NO NO		7	

SIZE A | CODE IDENT NO. 99974 | 2901224

SCALE-NONE | REV LTR A | SHEET 25 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 253	1	3.00	J7-H5					.22	NO		7	
			J7-J5	101				.22	NO			
B 254	1	3.00	J7-H6					.22	NO		7	
			J7-J6	102				.22	NO			
B 255	1	3.00	J7-H7					.22	NO		7	
			J7-J7	103				.22	NO			
B 256	1	3.00	J7-H8					.22	NO		7	
			J7-J8	104				.22	NO			
B 257	1	3.00	J7-H9					.22	NO		7	
			J7-J9	105				.22	NO			
B 258	1	3.00	J7-H10					.22	NO		7	
			J7-J10	106				.22	NO			
B 259	1	3.00	J7-H11					.22	NO		7	
			J7-J11	107				.22	NO			
B 260	1	3.00	J7-H12					.22	NO		7	
			J7-J12	108				.22	NO			
B 261	1	3.00	J7-H13					.22	NO		7	
			J7-J13	109				.22	NO			
B 262	1	3.00	J7-H14					.22	NO		7	
			J7-J14	110				.22	NO			
B 263	1	3.00	J7-H15					.22	NO		7	
			J7-J15	111				.22	NO			
B 264	1	3.00	J7-H16					.22	NO		7	
			J7-J16	112				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 26 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 265	1	3.00	J7-H17					.22	NO		7	
			J7-J17	113				.22	NO			
B 266	1	3.00	J7-H18					.22	NO		7	
			J7-J18	114				.22	NO			
B 267	1	3.00	J7-H19					.22	NO		7	
			J7-J19	115				.22	NO			
B 268	1	3.00	J7-H20					.22	NO		7	
			J7-J20	116				.22	NO			
B 269	1	3.00	J7-H21					.22	NO		7	
			J7-J21	117				.22	NO			
B 270	1	3.00	J7-H22					.22	NO		7	
			J7-J22	118				.22	NO			
B 271	1	3.00	J7-H23					.22	NO		7	
			J7-J23	119				.22	NO			
B 272	1	3.00	J7-H24					.22	NO		7	
			J7-J24	120				.22	NO			
B 273	1	3.00	J7-H25					.22	NO		7	
			J7-J25	121				.22	NO			
B 274	1	3.00	J7-H26					.22	NO		7	
			J7-J26	122				.22	NO			
B 275	1	3.00	J7-H27					.22	NO		7	
			J7-J27	123				.22	NO			
B 276	1	3.00	J7-H28					.22	NO		7	
			J7-J28	124				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 27 OF 31

MIL 2084 9-65

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 277	1	3.00	J7-H29					.22	NO		7	
			J7-J29	125				.22	NO			
B 278	1	3.00	J7-H30					.22	NO		7	
			J7-J30	126				.22	NO			
B 279	1	3.00	J7-H31					.22	NO		7	
			J7-J31	127				.22	NO			
B 280	1	3.00	J7-H32					.22	NO		7	
			J7-J32	128				.22	NO			
B 281	1	3.00	J7-H33					.22	NO		7	
			J7-J33	129				.22	NO			
B 282	1	3.00	J7-H34					.22	NO		7	
			J7-J34	130				.22	NO			
B 283	1	3.00	J7-H35					.22	NO		7	
			J7-J35	131				.22	NO			
B 284	1	3.00	J7-H36					.22	NO		7	
			J7-J36	132				.22	NO			
B 285	1	3.00	J7-H37					.22	NO		7	
			J7-J37	133				.22	NO			
B 286	1	3.00	J7-H38					.22	NO		7	
			J7-J38	134				.22	NO			
B 287	1	3.00	J7-H39					.22	NO		7	
			J7-J39	135				.22	NO			
B 288	1	3.00	J7-H40					.22	NO		7	
			J7-J40	136				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 28 OF 31

WIRING HARNESS B 2901224 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 289	1	3.00	J7-H41					.22	NO		7	
			J7-J41	137				.22	NO			
B 290	1	3.00	J7-H42					.22	NO		7	
			J7-J42	138				.22	NO			
B 291	1	3.00	J7-H43					.22	NO		7	
			J7-J43	139				.22	NO			
B 292	1	3.00	J7-H44					.22	NO		7	
			J7-J44	140				.22	NO			
B 293	1	3.00	J7-H45					.22	NO		7	
			J7-J45	141				.22	NO			
B 294	1	3.00	J7-H46					.22	NO		7	
			J7-J46	142				.22	NO			
B 295	1	3.00	J7-H47					.22	NO		7	
			J7-J47	143				.22	NO			
B 296	1	3.00	J7-H48					.22	NO		7	
			J7-J48	144				.22	NO			
B 297	1	3.00	J7-L1					.22	NO		7	
			J7-M1	145				.22	NO			
B 298	1	3.00	J7-L2					.22	NO		7	
			J7-M2	146				.22	NO			
B 299	1	3.00	J7-L3					.22	NO		7	
			J7-M3	147				.22	NO			
B 300	1	3.00	J7-L4					.22	NO		7	
			J7-M4	148				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901224
SCALE-NONE	REV LTR A	SHEET 29 OF 31

MIL 2084 9-65

WIRING HARNESS B 29C1224

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
6 301	1	3.00	J7-L5					.22	NO		7	
			J7-M5	149				.22	NO			
3 302	1	3.00	J7-L6					.22	NO		7	
			J7-M6	150				.22	NO			
8 303	1	3.00	J7-L7					.22	NO		7	
			J7-M7	151				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	29C1224
SCALE-NONE	REV LTR A	SHEET 31 OF 31

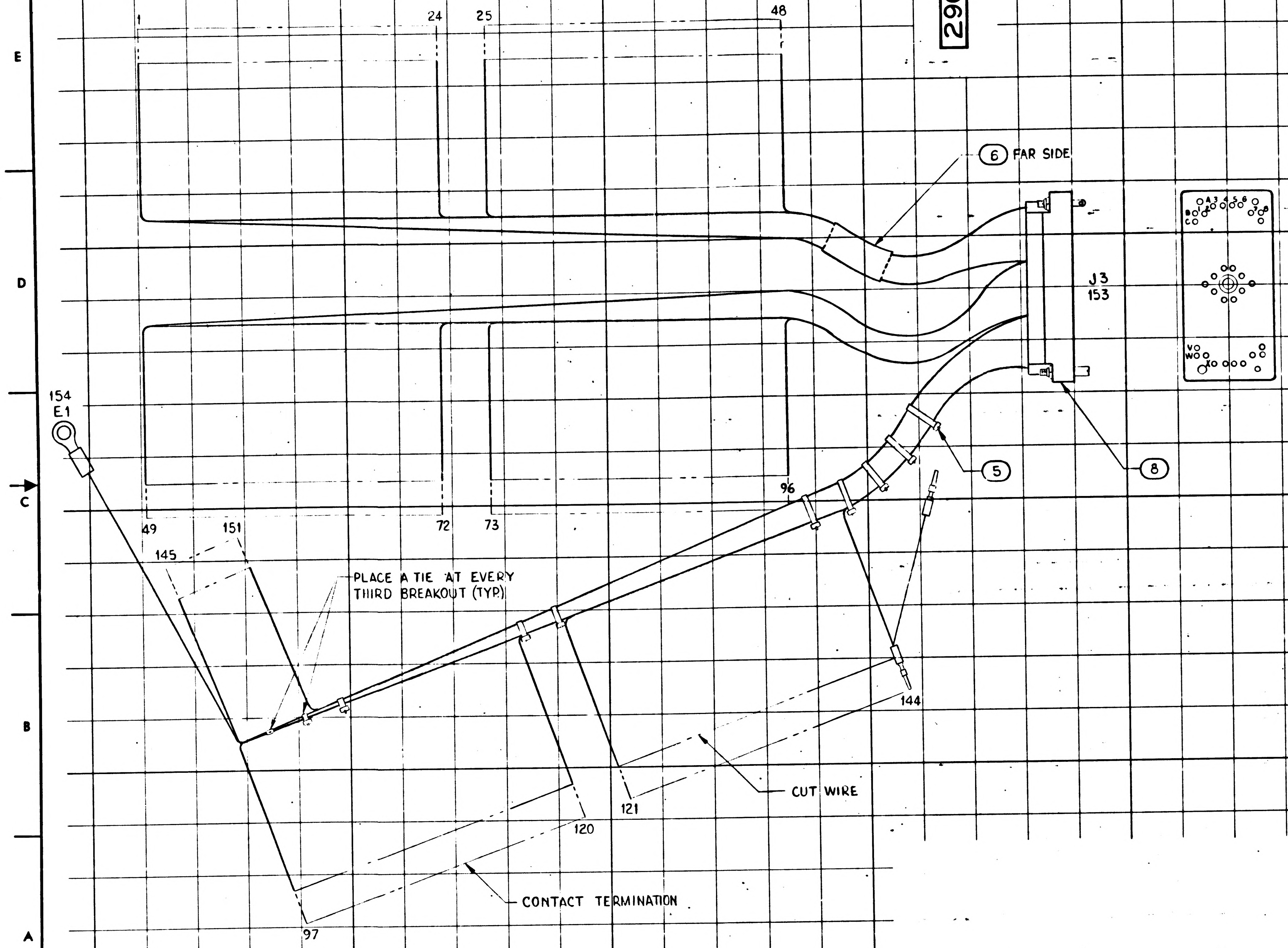
2901224

REV LTR B

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

REVISIONS

SEE SHEET 1 FOR REVISION RECORD



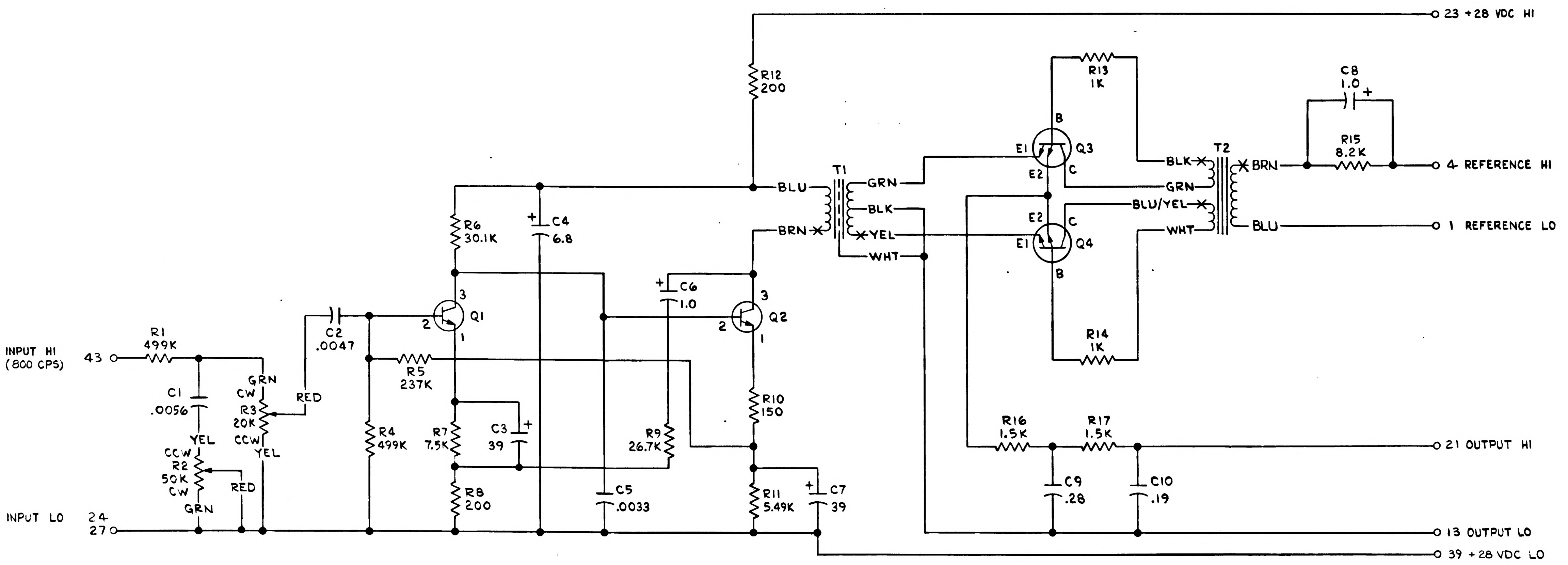
1
24
25
48
⑥ FAR SIDE
J3
153
A 3 4 5 6
B
C
VO
WO
X
154
E1
⑤
⑧
96
49
151
72
73
145
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP)
144
CUT WIRE
121
120
CONTACT TERMINATION
97

CODE IDENT NO	SIZE	
99974	D	2901224
SCALE		SHEET 31 OF 31

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. UNLESS OTHERWISE SPECIFIED:
   VALUES ARE IN OHMS AND MICRO FARADS.
4. DRAWINGS FOR REFERENCE
   2901176-011 ASSEMBLY DRAWING

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC211306			
	B	REVISED PER MXC 211304			JRS
	C	INITIAL RELEASE CLASS A PER TDRR			EF

REF DES	PART NUMBER	DESCRIPTION		SCHEMATIC DIAGRAM OR VALUE, TOL, & RATING		
C1	CTM562VBJ	CAPACITOR	MIL-C-27287/1	.0056	±5%	
C2	CTM472VCJ		MIL-C-27287/1	.0047	±5%	
C3	CS13BC396K		MIL-C-26655/2	39M	±10%	10V
C4	CS13BF685K		MIL-C-26655/2	6.8M	±10%	35V
C5	CTM332VBJ		MIL-C-27287/1	.0033	±5%	
C6	CS13BF105K		MIL-C-26655/2	1M	±10%	35V
C7	CS13BC396K		MIL-C-26655/2	39M	±10%	10V
C8	CS13BF105K		MIL-C-26655/2	1M	±10%	35V
C9	1897409-006			.28	±10%	6VDC
C10	1897409-004	CAPACITOR		.19	±10%	6VDC
Q1	1015935-001	TRANSISTOR		2N930		
Q2	1015935-001			2N 930		
Q3	1897392			3N 68		
Q4	1897392	TRANSISTOR		3N 68		
R1	RN60D4993F	RESISTOR	MIL-R-10509/1	499K	±1%	
R2	1015989-009			50K	±5%	
R3	RT12C2L203		MIL-R-27208/8	20K	±1%	
R4	RN60D4993F		MIL-R-10509/1	499K	±1%	
R5	RN60D2373F			237K	±1%	
R6	RN60D3012F			30.1K	±1%	
R7	RN60D7501F			7.5K	±1%	
R8	RN60D2000F			200	±1%	
R9	RN60D2672F		MIL-R-10509/1	26.7K	±1%	
R10	RC07GF151J		MIL-R-11/8	150	±5%	
R11	RN60D5491F		MIL-R-10509/1	5.49K	±1%	
R12	RC07GF201J		MIL-R-11/8	200	±5%	
R13	RC07GF102J			1K	±5%	
R14	RC07GF102J			1K	+5%	
R15	RC07GF822J			8.2K	±5%	
R16	RC07GF152J			1.5K	±5%	
R17	RC07GF152J	RESISTOR	MIL-R-11/8	1.5K	±5%	
T1	1897388-024	TRANSFORMER				
T2	1897388-[illegible]8	TRANSFORMER				


23 +28 VDC HI
R12 200
R13 1K
C8 1.0
R15 8.2K
4 REFERENCE HI
1 REFERENCE LO
T1
T2
BLU
BRN
GRN
BLK
YEL
WHT
BLU/YEL
E1 E2 B C
Q1 Q2 Q3 Q4
R6 30.1K
C4 6.8
C6 1.0
R14 1K
INPUT HI (800 CPS)
43
R1 499K
C2 .0047
R5 237K
C1 .0056
CW CCW
R3 20K
R2 50K
RED
R4 499K
R7 7.5K
C3 39
R9 26.7K
R10 150
R16 1.5K
R17 1.5K
21 OUTPUT HI
C9 .28
C10 .19
R8 200
C5 .0033
R11 5.49K
C7 39
INPUT LO 24 27
13 OUTPUT LO
39 +28 VDC LO

2901176-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS +— —.—
3 PLACE DECIMALS +— ——
ANGLES +— ——
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 24 FEB 66
CHECKED 14 MAR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM ELECTRICAL
PHASE SENSITIVE
DEMODULATOR

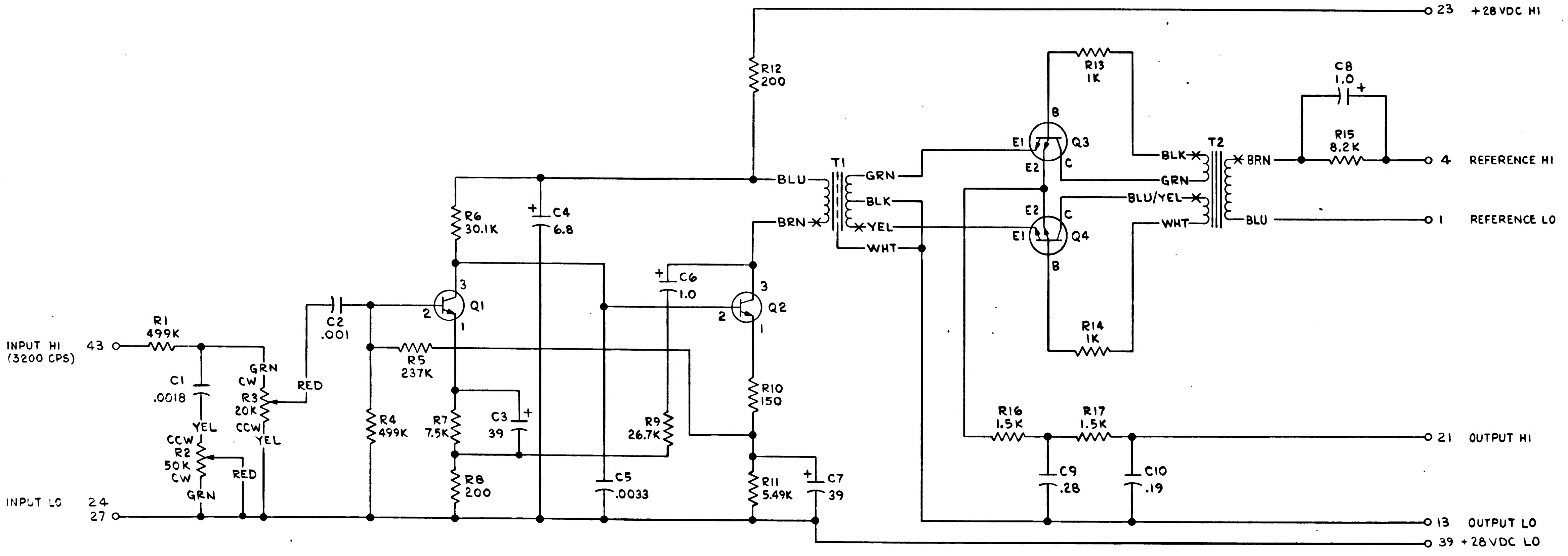
SIZE E CODE IDENT NO. 99974 2901227
SCALE — SHEET

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. UNLESS OTHERWISE SPECIFIED: VALUES ARE IN OHMS AND MICRO FARADS.
4. DRAWINGS FOR REFERENCE
2901176-021 ASSEMBLY DRAWING

REF DES	PART NUMBER	DESCRIPTION		SCHEMATIC DIAGRAM OR VALUE, TOL, & RATING		
C1	CTM182VDJ	CAPACITOR	MIL-C-27287/1	.0018	±5%	
C2	CTM102VDJ		MIL-C-27287/1	.001	±5%	
C3	CS13BC396K		MIL-C-26655/2	39M	±10%	10V
C4	CS13BF685K		MIL-C-26655/2	6.8M	±10%	35V
C5	CTM332VBJ		MIL-C-27287/1	.0033	±5%	
C6	CS13BF105K		MIL-C-26655/2	1M	±10%	35V
C7	CS13BC396K		MIL-C-26655/2	39M	±10%	10V
C8	CS13BF105K		MIL-C-26655/2	1M	±10%	35V
C9	1897409-006			.28	±10%	6VDC
C10	1897409-004	CAPACITOR		.19	±10%	6VDC
Q1	1015935-001	TRANSISTOR		2N930		
Q2	1015935-001			2N930		
Q3	1897392			3N68		
Q4	1897392	TRANSISTOR		3N68		
R1	RN60D4993F	RESISTOR	MIL-R-10509/1	499K	±1%	
R2	1015989-009			50K	±5%	
R3	RT12C2L203		MIL-R-27208/8	20K	±5%	
R4	RN60D4993F		MIL-R-10509/1	499K	±1%	
R5	RN60D2373F			237K	±1%	
R6	RN60D3012F			30.1K	±1%	
R7	RN60D7501F			7.5K	±1%	
R8	RN60D2000F			200	±1%	
R9	RN60D2672F		MIL-R-10509/1	26.7K	±1%	
R10	RC07GF151J		MIL-R-11/8	150	±5%	
R11	RN60D5491F		MIL-R-10509/1	5.49K	±1%	
R12	RC07GF201J		MIL-R-11/8	200	±5%	
R13	RC07GF102J			1K	±5%	
R14	RC07GF102J			1K	±5%	
R15	RC07GF822J			8.2K	±5%	
R16	RC07GF152J			1.5K	±5%	
R17	RC07GF152J	RESISTOR	MIL-R-11/8	1.5K	±5%	
T1	1897388-034	TRANSFORMER				
T2	1897388-038	TRANSFORMER				

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 211301		19 APR 66	PHG
	B	REVISED PER MXC 211305		21 APR 66	JJJ RWH
	C	INITIAL RELEASE CLASS A PER TDRR 22641		3 MAY 66	RJJ EF



INPUT HI (3200 CPS) 43
INPUT LO 24 27
R1 499K
C1 .0018
R2 50K
R3 20K
CW
CCW
GRN
YEL
RED
C2 .001
Q1
Q2
R4 499K
R5 237K
R6 30.1K
R7 7.5K
R8 200
C3 39
C4 6.8
C5 .0033
C6 1.0
R9 26.7K
R10 150
R11 5.49K
C7 39
R12 200
T1
BLU
BRN
GRN
BLK
YEL
WHT
E1
E2
B
C
Q3
Q4
R13 1K
R14 1K
T2
BLU/YEL
C8 1.0
R15 8.2K
R16 1.5K
R17 1.5K
C9 .28
C10 .19
23 +28 VDC HI
4 REFERENCE HI
1 REFERENCE LO
21 OUTPUT HI
13 OUTPUT LO
39 +28 VDC LO

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN R W Hesel 24 FEB 66
CHECKED J. G. Engmouse 15 MAR 66
APPROVAL 5/4/66
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PHASE SENSITIVE DEMODULATOR

SIZE E
CODE IDENT NO. 99974
2901228
SCALE —
SHEET 1 OF 1

NEXT ASSY	USED ON
2901176-021	2901143-011

APPLICATION

2901229

REV LTR A

NEXT ASSY	USED ON
2901011-011	2901075-011

APPLICATION

REVISIONS

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28599	2 MAY 66	DKB EF

REV																						
SHEET																						
REV STATUS OF SHEETS	REV				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61680

DRAFTSMAN J. Parks 16 MAR 66 (DAY MO YR)
CHECKER 17 MAR 66
ENGINEER R. Rouse 17 MAR 66
APPROVAL L. Zimmerman 5/4/66
CONTR NO. NAS9497
DESIGN ACTIVITY APPROVAL 5-9-66
~~OTHER~~ NASA APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS C

SIZE A
CODE IDENT. NO. 99974
2901229
SCALE NONE
SHEET 1 OF 18

MIL 1377A2 8-68

WIRING HARNESS C 2901229 A

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 4.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 4.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE	CODE IDENT NO.	
A	99974	2901229
SCALE-NONE	REV LTR A	SHEET 2 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

NOTE NUMBER

GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901229
SCALE-NONE	REV LTR A	SHEET 3 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901229-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 250 FT TOTAL LENGTH
	2	1	2901229-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
6	3	151	1016369-420	CONTACT, MALE
6	4	80	1897406-005	STRAP, CABLE ADJUSTABLE
6	5	1	1016128-011	BAND, IDENTIFICATION-BLANK
6	6	151	1897399-002	CONTACT, ELEC TAPER
6	7	1	1897335-002	CONNECTOR, RECP ELEC
	8	1	1015902-050	TERMINAL LUG
6	9	1	1016369-720	CONTACT, MALE NO. 16

SIZE	CODE IDENT NO.	
A	99974	2901229
SCALE-NONE	REV LTR A	SHEET 4 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 1	1		J2-A3 J7-K9	137 1				.19 .22	NO NO		3 6	
C 2	1		J2-A4 J7-K10	137 2				.19 .22	NO NO		3 6	
C 3	1		J2-A5 J7-K11	137 3				.19 .22	NO NO		3 6	
C 4	1		J2-A6 J7-K12	137 4				.19 .22	NO NO		3 6	
C 5	1		J2-B1 J7-K13	137 5				.19 .22	NO NO		3 6	
C 6	1		J2-B2 J7-K14	137 6				.19 .22	NO NO		3 6	
C 7	1		J2-B3 J7-K15	137 7				.19 .22	NO NO		3 6	
C 8	1		J2-B4 J7-K16	137 8				.19 .22	NO NO		3 6	
C 9	1		J2-B5 J7-K17	137 9				.19 .22	NO NO		3 6	
C 10	1		J2-B6 J7-K18	137 10				.19 .22	NO NO		3 6	
C 11	1		J2-B7 J7-K19	137 11				.19 .22	NO NO		3 6	
C 12	1		J2-B8 J7-K20	137 12				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901229
SCALE-NONE	REV LTR A	SHEET 5 OF 18

MIL 2084 9-65

WIRING HARNESS C

2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 13	1		J2-C1 J7-K21	137 13				.19 .22	NO NO		3 6	
C 14	1		J2-C2 J7-K22	137 14				.19 .22	NO NO		3 6	
C 15	1		J2-C3 J7-K23	137 15				.19 .22	NO NO		3 6	
C 16	1		J2-C4 J7-K24	137 16				.19 .22	NO NO		3 6	
C 17	1		J2-C5 J7-K25	137 17				.19 .22	NO NO		3 6	
C 18	1		J2-C6 J7-K26	137 18				.19 .22	NO NO		3 6	
C 19	1		J2-C7 J7-K27	137 19				.19 .22	NO NO		3 6	
C 20	1		J2-C8 J7-K28	137 20				.19 .22	NO NO		3 6	
C 21	1		J2-D1 J7-K29	137 21				.19 .22	NO NO		3 6	
C 22	1		J2-D2 J7-K30	137 22				.19 .22	NO NO		3 6	
C 23	1		J2-D3 J7-K31	137 23				.19 .22	NO NO		3 6	
C 24	1		J2-D4 J7-K32	137 24				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE
REV LTR A
SHEET 6 OF 18

MIL 2084 9-65

WIRING HARNESS C

2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 25	1		J2-D5 J7-K33	137 25				.19 .22	NO NO		3 6	
C 26	1		J2-D6 J7-K34	137 26				.19 .22	NO NO		3 6	
C 27	1		J2-D7 J7-K35	137 27				.19 .22	NO NO		3 6	
C 28	1		J2-D8 J7-K36	137 28				.19 .22	NO NO		3 6	
C 29	1		J2-E1 J7-K37	137 29				.19 .22	NO NO		3 6	
C 30	1		J2-E2 J7-K38	137 30				.19 .22	NO NO		3 6	
C 31	1		J2-E3 J7-K39	137 31				.19 .22	NO NO		3 6	
C 32	1		J2-E4 J7-K40	137 32				.19 .22	NO NO		3 6	
C 33	1		J2-E5 J7-K41	137 33				.19 .22	NO NO		3 6	
C 34	1		J2-E6 J7-K42	137 34				.19 .22	NO NO		3 6	
C 35	1		J2-E7 J7-K43	137 35				.19 .22	NO NO		3 6	
C 36	1		J2-E8 J7-K44	137 36				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE
REV LTR A
SHEET 7 OF 18

MIL 2084 9-65

WIRING HARNESS C

2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 37	1		J2-F1 J7-K45	137 37				.19 .22	NO NO		3 6	
C 38	1		J2-F2 J7-K46	137 38				.19 .22	NO NO		3 6	
C 39	1		J2-F3 J7-K47	137 39				.19 .22	NO NO		3 6	
C 40	1		J2-F4 J7-K48	137 40				.19 .22	NO NO		3 6	
C 41	1		J2-F5 J7-N1	137 41				.19 .22	NO NO		3 6	
C 42	1		J2-F6 J7-N2	137 42				.19 .22	NO NO		3 6	
C 43	1		J2-F7 J7-N3	137 43				.19 .22	NO NO		3 6	
C 44	1		J2-F8 J7-N4	137 44				.19 .22	NO NO		3 6	
C 45	1		J2-G1 J7-N5	137 45				.19 .22	NO NO		3 6	
C 46	1		J2-G2 J7-N6	137 46				.19 .22	NO NO		3 6	
C 47	1		J2-G3 J7-N7	137 47				.19 .22	NO NO		3 6	
C 48	1		J2-G4 J7-N8	137 48				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE
REV LTR A
SHEET 8 OF 18

MIL 2084 9-65

WIRING HARNESS C

2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 49	1		J2-G5 J7-N9	137 49				.19 .22	NO NO		3 6	
C 50	1		J2-G6 J7-N10	137 50				.19 .22	NO NO		3 6	
C 51	1		J2-G7 J7-N11	137 51				.19 .22	NO NO		3 6	
C 52	1		J2-G8 J7-N12	137 52				.19 .22	NO NO		3 6	
C 53	1		J2-H1 J7-N13	137 53				.19 .22	NO NO		3 6	
C 54	1		J2-H2 J7-N14	137 54				.19 .22	NO NO		3 6	
C 55	1		J2-H3 J7-N15	137 55				.19 .22	NO NO		3 6	
C 56	1		J2-H4 J7-N16	137 56				.19 .22	NO NO		3 6	
C 57	1		J2-H5 J7-N17	137 57				.19 .22	NO NO		3 6	
C 58	1		J2-H6 J7-N18	137 58				.19 .22	NO NO		3 6	
C 59	1		J2-H7 J7-N19	137 59				.19 .22	NO NO		3 6	
C 60	1		J2-H8 J7-N20	137 60				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901229
SCALE-NONE
REV LTR A
SHEET 9 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 61	1		J2-J1 J7-N21	137 61				.19 .22	NO NO		3 6	
C 62	1		J2-J2 J7-N22	137 62				.19 .22	NO NO		3 6	
C 63	1		J2-J3 J7-N23	137 63				.19 .22	NO NO		3 6	
C 64	1		J2-J4 J7-N24	137 64				.19 .22	NO NO		3 6	
C 65	1		J2-J5 J7-N25	137 65				.19 .22	NO NO		3 6	
C 66	1		J2-J6 J7-N26	137 66				.19 .22	NO NO		3 6	
C 67	1		J2-J7 J7-N27	137 67				.19 .22	NO NO		3 6	
C 68	1		J2-J8 J7-N28	137 68				.19 .22	NO NO		3 6	
C 69	1		J2-K1 J7-N29	137 69				.19 .22	NO NO		3 6	
C 70	1		J2-K2 J7-N30	137 70				.19 .22	NO NO		3 6	
C 71	1		J2-K3 J7-N31	137 71				.19 .22	NO NO		3 6	
C 72	1		J2-K6 J7-N32	137 72				.19 .22	NO NO		3 6	

SIZE A | CODE IDENT NO. 99974 | 2901229
SCALE-NONE | REV LTR A | SHEET 10 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 73	1		J2-K7 J7-N33	137 73				.19 .22	NO NO		3 6	
C 74	1		J2-K8 J7-N34	137 74				.19 .22	NO NO		3 6	
C 75	1		J2-L1 J7-N35	137 75				.19 .22	NO NO		3 6	
C 76	1		J2-L2 J7-N36	137 76				.19 .22	NO NO		3 6	
C 77	1		J2-L7 J7-N37	137 77				.19 .22	NO NO		3 6	
C 78	1		J2-L8 J7-N38	137 78				.19 .22	NO NO		3 6	
C 79	1		J2-M1 J7-N39	137 79				.19 .22	NO NO		3 6	
C 80	1		J2-M2 J7-N40	137 80				.19 .22	NO NO		3 6	
C 81	1		J2-M3 J7-N41	137 81				.19 .22	NO NO		3 6	
C 82	1		J2-M6 J7-N42	137 82				.19 .22	NO NO		3 6	
C 83	1		J2-M7 J7-N43	137 83				.19 .22	NO NO		3 6	
C 84	1		J2-M8 J7-N44	137 84				.19 .22	NO NO		3 6	

SIZE A | CODE IDENT NO. 99974 | 2901229
SCALE-NONE | REV LTR A | SHEET 11 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 85	1		J2-N1 J7-N45	137 85				.19 .22	NO NO		3 6	
C 86	1		J2-N2 J7-N46	137 86				.19 .22	NO NO		3 6	
C 87	1		J2-N3 J7-N47	137 87				.19 .22	NO NO		3 6	
C 88	1		J2-N4 J7-N48	137 88				.19 .22	NO NO		3 6	
C 89	1		J2-N5 J7-R1	137 89				.19 .22	NO NO		3 6	
C 90	1		J2-N6 J7-R2	137 90				.19 .22	NO NO		3 6	
C 91	1		J2-N7 J7-R3	137 91				.19 .22	NO NO		3 6	
C 92	1		J2-N8 J7-R4	137 92				.19 .22	NO NO		3 6	
C 93	1		J2-P1 J7-R5	137 93				.19 .22	NO NO		3 6	
C 94	1		J2-P2 J7-R6	137 94				.19 .22	NO NO		3 6	
C 95	1		J2-P3 J7-R7	137 95				.19 .22	NO NO		3 6	
C 96	1		J2-P4 J7-R8	137 96				.19 .22	NO NO		3 6	

SIZE A | CODE IDENT NO. 99974 | 2901229
SCALE-NONE | REV LTR A | SHEET 12 OF 18

MIL 2084 9-65

WIRING HARNESS C 2901229 A

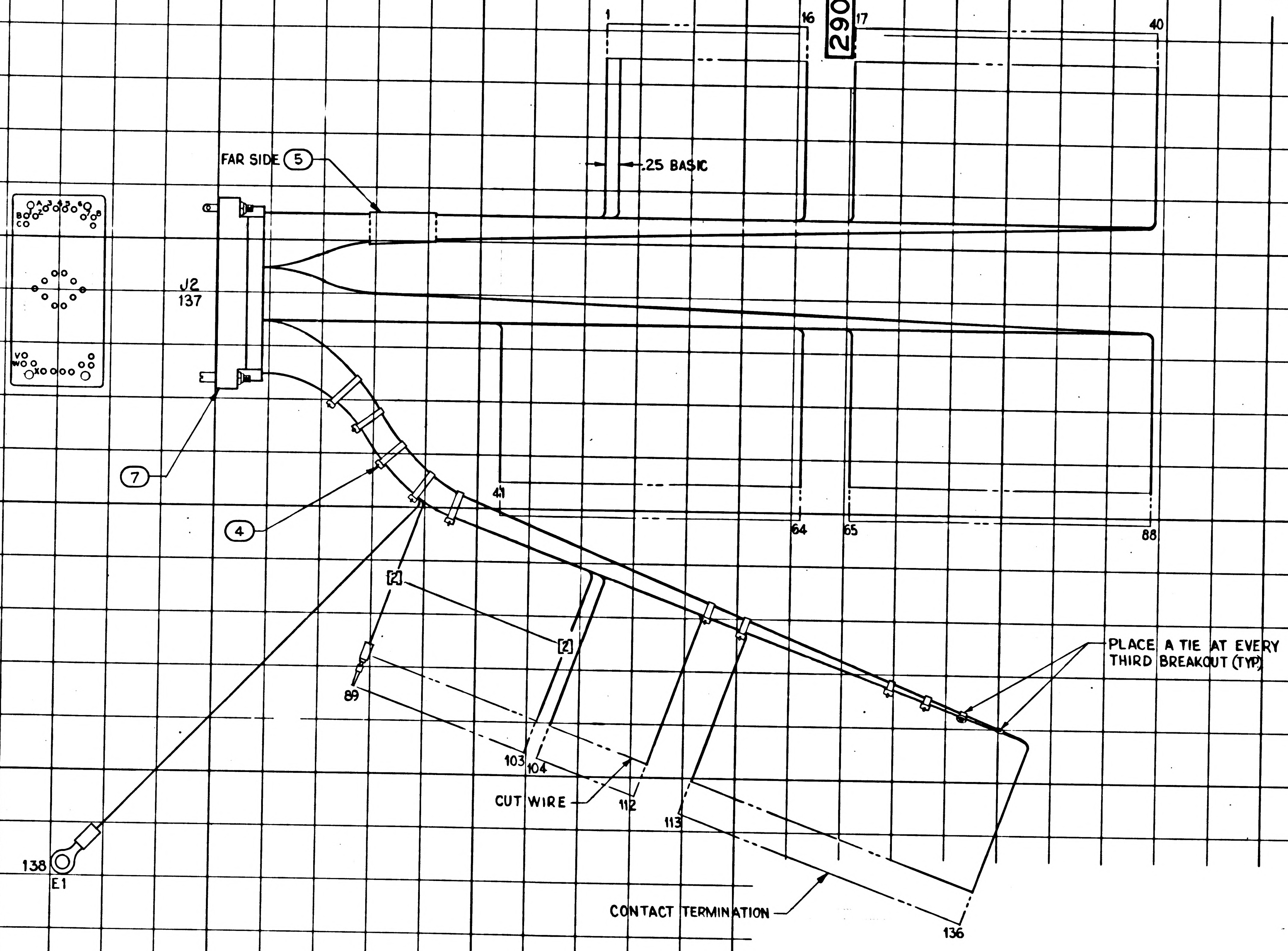
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
C 97	1		J2-P5 J7-R9	137 97				.19 .22	NO NO		3 6	
C 98	1		J2-P6 J7-R10	137 98				.19 .22	NO NO		3 6	
C 99	1		J2-P7 J7-R11	137 99				.19 .22	NO NO		3 6	
C 100	1		J2-P8 J7-R12	137 100				.19 .22	NO NO		3 6	
C 101	1		J2-R1 J7-R13	137 101				.19 .22	NO NO		3 6	
C 102	1		J2-R2 J7-R14	137 102				.19 .22	NO NO		3 6	
C 103	1		J2-R3 J7-R15	137 103				.19 .22	NO NO		3 6	
C 104	1		J2-R4 J7-R16	137 104				.19 .22	NO NO		3 6	
C 105	1		J2-R5 J7-R17	137 105				.19 .22	NO NO		3 6	
C 106	1		J2-R6 J7-R18	137 106				.19 .22	NO NO		3 6	
C 107	1		J2-R7 J7-R19	137 107				.19 .22	NO NO		3 6	
C 108	1		J2-R8 J7-R20	137 108				.19 .22	NO NO		3 6	

SIZE A | CODE IDENT NO. 99974 | 2901229
SCALE-NONE | REV LTR A | SHEET 13 OF 18

MIL 2084 9-65

SYM	ZONE	REVISIONS TDRR-28399 DESCRIPTION	CHG NO.	DATE	APPD.

SEE SHEET 1 FOR REVISION RECORD



FAR SIDE (5)
.25 BASIC
1
16
17
40
J2
137
(7)
(4)
41
64
65
88
[2]
[2]
89
103
104
CUT WIRE
112
113
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP)
138
E1
CONTACT TERMINATION
136
VO
WO
XO

MX 109894

CODE IDENT NO.	SIZE	
99974	D	2901229
SCALE		SHEET 18 OF 18

2901230

REV LTR A

APPLICATION	
NEXT ASSY	USED ON
2901011-011	2901675-011

CHANGE NUMBER	REVISIONS				
	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28599	2 MAY 66	PG EF

REV		A	A	A	A	A	A	A	A	A	A	A									
SHEET		21	22	23	24	25	26	27	28	29	30	31									
REV STATUS OF SHEETS	REV				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

REV STATUS OF SHEETS	REV	A	A	A
	SHEET	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61680

DRAFTSMAN J. Parks 16MAR66 (DAY MO YR)
CHECKER R. K. Fort 17 MAR 66
ENGINEER R. Moyer 17Mar66
APPROVAL Gehman 5/3/66
CONTR NO. NAS9497
5/17/66 McKinley 6 4 66
DESIGN ACTIVITY APPROVAL
5/21/66 E.C. Hall
~~OTHER~~ APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS D

SIZE	CODE IDENT. NO.	
A	99974	2901230
SCALE NONE		SHEET 1 OF 31

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 4.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 4.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE A
CODE IDENT NO. 99974
2901230
SCALE-NONE
REV LTR A
SHEET 2 OF 31

MIL 2084 9-65

NOTE NUMBER
GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901230
SCALE-NONE
REV LTR A
SHEET 3 OF 31

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901230-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 300 FT TOTAL LENGTH
	2	1	2901230-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
6	3	151	1016369-420	CONTACT, MALE
6	4	151	1897399-001	CONTACT, ELEC TAPER
6	5	80	1897406-005	STRAP, CALBE ADJUSTABLE
6	6	1	1016128-011	BAND, IDENTIFICATION-BLANK
6	7	151	1897399-002	CONTACT, ELEC TAPER
6	8	1	1897335-002	CONNECTOR, RECP ELEC
	9	1	1015902-050	TERMINAL LUG
6	10	1	1016369-720	CONTACT, MALE NO.16

SIZE A
CODE IDENT NO. 99974
2901230
SCALE-NONE
REV LTR A
SHEET 4 OF 31

MIL 2084

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D	1	1		J4-A3 J7-M9	153 1				.19 .22	NO NO		3 4	
D	2	1		J4-A4 J7-M10	153 2				.19 .22	NO NO		3 4	
D	3	1		J4-A5 J7-M11	153 3				.19 .22	NO NO		3 4	
D	4	1		J4-A6 J7-M12	153 4				.19 .22	NO NO		3 4	
D	5	1		J4-B1 J7-M13	153 5				.19 .22	NO NO		3 4	
D	6	1		J4-B2 J7-M14	153 6				.19 .22	NO NO		3 4	
D	7	1		J4-B3 J7-M15	153 7				.19 .22	NO NO		3 4	
D	8	1		J4-B4 J7-M16	153 8				.19 .22	NO NO		3 4	
D	9	1		J4-B5 J7-M17	153 9				.19 .22	NO NO		3 4	
D	10	1		J4-B6 J7-M18	153 10				.19 .22	NO NO		3 4	
D	11	1		J4-B7 J7-M19	153 11				.19 .22	NO NO		3 4	
D	12	1		J4-B8 J7-M20	153 12				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901230
SCALE-NONE
REV LTR A
SHEET 5 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 13	1		J4-C1 J7-M21	153 13				.19 .22	NO NO		3 4	
D 14	1		J4-C2 J7-M22	153 14				.19 .22	NO NO		3 4	
D 15	1		J4-C3 J7-M23	153 15				.19 .22	NO NO		3 4	
D 16	1		J4-C4 J7-M24	153 16				.19 .22	NO NO		3 4	
D 17	1		J4-C5 J7-M25	153 17				.19 .22	NO NO		3 4	
D 18	1		J4-C6 J7-M26	153 18				.19 .22	NO NO		3 4	
D 19	1		J4-C7 J7-M27	153 19				.19 .22	NO NO		3 4	
D 20	1		J4-C8 J7-M28	153 20				.19 .22	NO NO		3 4	
D 21	1		J4-D1 J7-M29	153 21				.19 .22	NO NO		3 4	
D 22	1		J4-D2 J7-M30	153 22				.19 .22	NO NO		3 4	
D 23	1		J4-D3 J7-M31	153 23				.19 .22	NO NO		3 4	
D 24	1		J4-D4 J7-M32	153 24				.19 .22	NO NO		3 4	

SIZE A	CODE IDENT NO. 99974	2901230
SCALE-NONE	REV LTR A	SHEET 6 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 25	1		J4-D5 J7-M33	153 25				.19 .22	NO NO		3 4	
D 26	1		J4-D6 J7-M34	153 26				.19 .22	NO NO		3 4	
D 27	1		J4-D7 J7-M35	153 27				.19 .22	NO NO		3 4	
D 28	1		J4-D8 J7-M36	153 28				.19 .22	NO NO		3 4	
D 29	1		J4-E1 J7-M37	153 29				.19 .22	NO NO		3 4	
D 30	1		J4-E2 J7-M38	153 30				.19 .22	NO NO		3 4	
D 31	1		J4-E3 J7-M39	153 31				.19 .22	NO NO		3 4	
D 32	1		J4-E4 J7-M40	153 32				.19 .22	NO NO		3 4	
D 33	1		J4-E5 J7-M41	153 33				.19 .22	NO NO		3 4	
D 34	1		J4-E6 J7-M42	153 34				.19 .22	NO NO		3 4	
D 35	1		J4-E7 J7-M43	153 35				.19 .22	NO NO		3 4	
D 36	1		J4-E8 J7-M44	153 36				.19 .22	NO NO		3 4	

SIZE A	CODE IDENT NO. 99974	2901230
SCALE-NONE	REV LTR A	SHEET 7 OF 31

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WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 37	1		J4-F1 J7-M45	153 37				.19 .22	NO NO		3 4	
D 38	1		J4-F2 J7-M46	153 38				.19 .22	NO NO		3 4	
D 39	1		J4-F3 J7-M47	153 39				.19 .22	NO NO		3 4	
D 40	1		J4-F4 J7-M48	153 40				.19 .22	NO NO		3 4	
D 41	1		J4-F5 J7-P1	153 41				.19 .22	NO NO		3 4	
D 42	1		J4-F6 J7-P2	153 42				.19 .22	NO NO		3 4	
D 43	1		J4-F7 J7-P3	153 43				.19 .22	NO NO		3 4	
D 44	1		J4-F8 J7-P4	153 44				.19 .22	NO NO		3 4	
D 45	1		J4-G1 J7-P5	153 45				.19 .22	NO NO		3 4	
D 46	1		J4-G2 J7-P6	153 46				.19 .22	NO NO		3 4	
D 47	1		J4-G3 J7-P7	153 47				.19 .22	NO NO		3 4	
D 48	1		J4-G4 J7-P8	153 48				.19 .22	NO NO		3 4	

SIZE A	CODE IDENT NO. 99974	2901230
SCALE-NONE	REV LTR A	SHEET 8 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 49	1		J4-G5 J7-P9	153 49				.19 .22	NO NO		3 4	
D 50	1		J4-G6 J7-P10	153 50				.19 .22	NO NO		3 4	
D 51	1		J4-G7 J7-P11	153 51				.19 .22	NO NO		3 4	
D 52	1		J4-G8 J7-P12	153 52				.19 .22	NO NO		3 4	
D 53	1		J4-H1 J7-P13	153 53				.19 .22	NO NO		3 4	
D 54	1		J4-H2 J7-P14	153 54				.19 .22	NO NO		3 4	
D 55	1		J4-H3 J7-P15	153 55				.19 .22	NO NO		3 4	
D 56	1		J4-H4 J7-P16	153 56				.19 .22	NO NO		3 4	
D 57	1		J4-H5 J7-P17	153 57				.19 .22	NO NO		3 4	
D 58	1		J4-H6 J7-P18	153 58				.19 .22	NO NO		3 4	
D 59	1		J4-H7 J7-P19	153 59				.19 .22	NO NO		3 4	
D 60	1		J4-H8 J7-P20	153 60				.19 .22	NO NO		3 4	

SIZE A	CODE IDENT NO. 99974	2901230
SCALE-NONE	REV LTR A	SHEET 9 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA STRIP NO. LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 61	1		J4-J1 J7-P21	153 61			.19 .22	NO NO		3 4	
D 62	1		J4-J2 J7-P22	153 62			.19 .22	NO NO		3 4	
D 63	1		J4-J3 J7-P23	153 63			.19 .22	NO NO		3 4	
D 64	1		J4-J4 J7-P24	153 64			.19 .22	NO NO		3 4	
D 65	1		J4-J5 J7-P25	153 65			.19 .22	NO NO		3 4	
D 66	1		J4-J6 J7-P26	153 66			.19 .22	NO NO		3 4	
D 67	1		J4-J7 J7-P27	153 67			.19 .22	NO NO		3 4	
D 68	1		J4-J8 J7-P28	153 68			.19 .22	NO NO		3 4	
D 69	1		J4-K1 J7-P29	153 69			.19 .22	NO NO		3 4	
D 70	1		J4-K2 J7-P30	153 70			.19 .22	NO NO		3 4	
D 71	1		J4-K3 J7-P31	153 71			.19 .22	NO NO		3 4	
D 72	1		J4-K6 J7-P32	153 72			.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 10 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA STRIP NO. LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 73	1		J4-K7 J7-P33	153 73			.19 .22	NO NO		3 4	
D 74	1		J4-K8 J7-P34	153 74			.19 .22	NO NO		3 4	
D 75	1		J4-L1 J7-P35	153 75			.19 .22	NO NO		3 4	
D 76	1		J4-L2 J7-P36	153 76			.19 .22	NO NO		3 4	
D 77	1		J4-L7 J7-P37	153 77			.19 .22	NO NO		3 4	
D 78	1		J4-L8 J7-P38	153 78			.19 .22	NO NO		3 4	
D 79	1		J4-M1 J7-P39	153 79			.19 .22	NO NO		3 4	
D 80	1		J4-M2 J7-P40	153 80			.19 .22	NO NO		3 4	
D 81	1		J4-M3 J7-P41	153 81			.19 .22	NO NO		3 4	
D 82	1		J4-M6 J7-P42	153 82			.19 .22	NO NO		3 4	
D 83	1		J4-M7 J7-P43	153 83			.19 .22	NO NO		3 4	
D 84	1		J4-M8 J7-P44	153 84			.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 11 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA STRIP NO. LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 85	1		J4-N1 J7-P45	153 85			.19 .22	NO NO		3 4	
D 86	1		J4-N2 J7-P46	153 86			.19 .22	NO NO		3 4	
D 87	1		J4-N3 J7-P47	153 87			.19 .22	NO NO		3 4	
D 88	1		J4-N4 J7-P48	153 88			.19 .22	NO NO		3 4	
D 89	1		J4-N5 J7-T1	153 89			.19 .22	NO NO		3 4	
D 90	1		J4-N6 J7-T2	153 90			.19 .22	NO NO		3 4	
D 91	1		J4-N7 J7-T3	153 91			.19 .22	NO NO		3 4	
D 92	1		J4-N8 J7-T4	153 92			.19 .22	NO NO		3 4	
D 93	1		J4-P1 J7-T5	153 93			.19 .22	NO NO		3 4	
D 94	1		J4-P2 J7-T6	153 94			.19 .22	NO NO		3 4	
D 95	1		J4-P3 J7-T7	153 95			.19 .22	NO NO		3 4	
D 96	1		J4-P4 J7-T8	153 96			.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 12 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA STRIP NO. LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 97	1		J4-P5 J7-T9	153 97			.19 .22	NO NO		3 4	
D 98	1		J4-P6 J7-T10	153 98			.19 .22	NO NO		3 4	
D 99	1		J4-P7 J7-T11	153 99			.19 .22	NO NO		3 4	
D 100	1		J4-P8 J7-T12	153 100			.19 .22	NO NO		3 4	
D 101	1		J4-R1 J7-T13	153 101			.19 .22	NO NO		3 4	
D 102	1		J4-R2 J7-T14	153 102			.19 .22	NO NO		3 4	
D 103	1		J4-R3 J7-T15	153 103			.19 .22	NO NO		3 4	
D 104	1		J4-R4 J7-T16	153 104			.19 .22	NO NO		3 4	
D 105	1		J4-R5 J7-T17	153 105			.19 .22	NO NO		3 4	
D 106	1		J4-R6 J7-T18	153 106			.19 .22	NO NO		3 4	
D 107	1		J4-R7 J7-T19	153 107			.19 .22	NO NO		3 4	
D 108	1		J4-R8 J7-T20	153 108			.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 13 OF 31

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
D 109	1		J4-S1 J7-T21	153 109				.19 .22	NO NO		3 4	
D 110	1		J4-S2 J7-T22	153 110				.19 .22	NO NO		3 4	
D 111	1		J4-S3 J7-T23	153 111				.19 .22	NO NO		3 4	
D 112	1		J4-S4 J7-T24	153 112				.19 .22	NO NO		3 4	
D 113	1		J4-S5 J7-T25	153 113				.19 .22	NO NO		3 4	
D 114	1		J4-S6 J7-T26	153 114				.19 .22	NO NO		3 4	
D 115	1		J4-S7 J7-T27	153 115				.19 .22	NO NO		3 4	
D 116	1		J4-S8 J7-T28	153 116				.19 .22	NO NO		3 4	
D 117	1		J4-T1 J7-T29	153 117				.19 .22	NO NO		3 4	
D 118	1		J4-T2 J7-T30	153 118				.19 .22	NO NO		3 4	
D 119	1		J4-T3 J7-T31	153 119				.19 .22	NO NO		3 4	
D 120	1		J4-T4 J7-T32	153 120				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 14 OF 31

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
D 121	1		J4-T5 J7-T33	153 121				.19 .22	NO NO		3 4	
D 122	1		J4-T6 J7-T34	153 122				.19 .22	NO NO		3 4	
D 123	1		J4-T7 J7-T35	153 123				.19 .22	NO NO		3 4	
D 124	1		J4-T8 J7-T36	153 124				.19 .22	NO NO		3 4	
D 125	1		J4-U1 J7-T37	153 125				.19 .22	NO NO		3 4	
D 126	1		J4-U2 J7-T38	153 126				.19 .22	NO NO		3 4	
D 127	1		J4-U3 J7-T39	153 127				.19 .22	NO NO		3 4	
D 128	1		J4-U4 J7-T40	153 128				.19 .22	NO NO		3 4	
D 129	1		J4-U5 J7-T41	153 129				.19 .22	NO NO		3 4	
D 130	1		J4-U6 J7-T42	153 130				.19 .22	NO NO		3 4	
D 131	1		J4-U7 J7-T43	153 131				.19 .22	NO NO		3 4	
D 132	1		J4-U8 J7-T44	153 132				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 15 OF 31

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
D 133	1		J4-V1 J7-T45	153 133				.19 .22	NO NO		3 4	
D 134	1		J4-V2 J7-T46	153 134				.19 .22	NO NO		3 4	
D 135	1		J4-V3 J7-T47	153 135				.19 .22	NO NO		3 4	
D 136	1		J4-V4 J7-T48	153 136				.19 .22	NO NO		3 4	
D 137	1		J4-V5 J7-W1	153 137				.19 .22	NO NO		3 4	
D 138	1		J4-V6 J7-W2	153 138				.19 .22	NO NO		3 4	
D 139	1		J4-V7 J7-W3	153 139				.19 .22	NO NO		3 4	
D 140	1		J4-V8 J7-W4	153 140				.19 .22	NO NO		3 4	
D 141	1		J4-W1 J7-W5	153 141				.19 .22	NO NO		3 4	
D 142	1		J4-W2 J7-W6	153 142				.19 .22	NO NO		3 4	
D 143	1		J4-W3 J7-W7	153 143				.19 .22	NO NO		3 4	
D 144	1		J4-W4 J7-W8	153 144				.19 .22	NO NO		3 4	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 16 OF 31

L 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
D 145	1		J4-W5 J7-W9	153 145				.19 .22	NO NO		3 4	
D 146	1		J4-W6 J7-W10	153 146				.19 .22	NO NO		3 4	
D 147	1		J4-W7 J7-W11	153 147				.19 .22	NO NO		3 4	
D 148	1		J4-W8 J7-W12	153 148				.19 .22	NO NO		3 4	
D 149	1		J4-X3 J7-W13	153 149				.19 .22	NO NO		3 4	
D 150	1		J4-X4 J7-W14	153 150				.19 .22	NO NO		3 4	
D 151	1		J4-X5 J7-W15	153 151				.19 .22	NO NO		3 4	
D 152	2		J4-X6 E1	153 154				.19 .22	NO NO		10 9	
D 153	1	3.00	J7-L9 J7-M9	 1				.22 .22	NO NO		7	
D 154	1	3.00	J7-L10 J7-M10	 2				.22 .22	NO NO		7	
D 155	1	3.00	J7-L11 J7-M11	 3				.22 .22	NO NO		7	
D 156	1	3.00	J7-L12 J7-M12	 4				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 17 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 157	1	3.00	J7-L13 J7-M13	5				.22 .22	NO NO		7	
D 158	1	3.00	J7-L14 J7-M14	6				.22 .22	NO NO		7	
D 159	1	3.00	J7-L15 J7-M15	7				.22 .22	NO NO		7	
D 160	1	3.00	J7-L16 J7-M16	8				.22 .22	NO NO		7	
D 161	1	3.00	J7-L17 J7-M17	9				.22 .22	NO NO		7	
D 162	1	3.00	J7-L18 J7-M18	10				.22 .22	NO NO		7	
D 163	1	3.00	J7-L19 J7-M19	11				.22 .22	NO NO		7	
D 164	1	3.00	J7-L20 J7-M20	12				.22 .22	NO NO		7	
D 165	1	3.00	J7-L21 J7-M21	13				.22 .22	NO NO		7	
D 166	1	3.00	J7-L22 J7-M22	14				.22 .22	NO NO		7	
D 167	1	3.00	J7-L23 J7-M23	15				.22 .22	NO NO		7	
D 168	1	3.00	J7-L24 J7-M24	16				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 18 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 169	1	3.00	J7-L25 J7-M25	17				.22 .22	NO NO		7	
D 170	1	3.00	J7-L26 J7-M26	18				.22 .22	NO NO		7	
D 171	1	3.00	J7-L27 J7-M27	19				.22 .22	NO NO		7	
D 172	1	3.00	J7-L28 J7-M28	20				.22 .22	NO NO		7	
D 173	1	3.00	J7-L29 J7-M29	21				.22 .22	NO NO		7	
D 174	1	3.00	J7-L30 J7-M30	22				.22 .22	NO NO		7	
D 175	1	3.00	J7-L31 J7-M31	23				.22 .22	NO NO		7	
D 176	1	3.00	J7-L32 J7-M32	24				.22 .22	NO NO		7	
D 177	1	3.00	J7-L33 J7-M33	25				.22 .22	NO NO		7	
D 178	1	3.00	J7-L34 J7-M34	26				.22 .22	NO NO		7	
D 179	1	3.00	J7-L35 J7-M35	27				.22 .22	NO NO		7	
D 180	1	3.00	J7-L36 J7-M36	28				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 19 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 181	1	3.00	J7-L37 J7-M37	29				.22 .22	NO NO		7	
D 182	1	3.00	J7-L38 J7-M38	30				.22 .22	NO NO		7	
D 183	1	3.00	J7-L39 J7-M39	31				.22 .22	NO NO		7	
D 184	1	3.00	J7-L40 J7-M40	32				.22 .22	NO NO		7	
D 185	1	3.00	J7-L41 J7-M41	33				.22 .22	NO NO		7	
D 186	1	3.00	J7-L42 J7-M42	34				.22 .22	NO NO		7	
D 187	1	3.00	J7-L43 J7-M43	35				.22 .22	NO NO		7	
D 188	1	3.00	J7-L44 J7-M44	36				.22 .22	NO NO		7	
D 189	1	3.00	J7-L45 J7-M45	37				.22 .22	NO NO		7	
D 190	1	3.00	J7-L46 J7-M46	38				.22 .22	NO NO		7	
D 191	1	3.00	J7-L47 J7-M47	39				.22 .22	NO NO		7	
D 192	1	3.00	J7-L48 J7-M48	40				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 20 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 193	1	3.00	J7-01 J7-P1	41				.22 .22	NO NO		7	
D 194	1	3.00	J7-02 J7-P2	42				.22 .22	NO NO		7	
D 195	1	3.00	J7-03 J7-P3	43				.22 .22	NO NO		7	
D 196	1	3.00	J7-04 J7-P4	44				.22 .22	NO NO		7	
D 197	1	3.00	J7-05 J7-P5	45				.22 .22	NO NO		7	
D 198	1	3.00	J7-06 J7-P6	46				.22 .22	NO NO		7	
D 199	1	3.00	J7-07 J7-P7	47				.22 .22	NO NO		7	
D 200	1	3.00	J7-08 J7-P8	48				.22 .22	NO NO		7	
D 201	1	3.00	J7-09 J7-P9	49				.22 .22	NO NO		7	
D 202	1	3.00	J7-010 J7-P10	50				.22 .22	NO NO		7	
D 203	1	3.00	J7-011 J7-P11	51				.22 .22	NO NO		7	
D 204	1	3.00	J7-012 J7-P12	52				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 21 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 205	1	3.00	J7-013					.22	NO		7	
			J7-P13	53				.22	NO			
D 206	1	3.00	J7-014					.22	NO		7	
			J7-P14	54				.22	NO			
D 207	1	3.00	J7-015					.22	NO		7	
			J7-P15	55				.22	NO			
D 208	1	3.00	J7-016					.22	NO		7	
			J7-P16	56				.22	NO			
D 209	1	3.00	J7-017					.22	NO		7	
			J7-P17	57				.22	NO			
D 210	1	3.00	J7-018					.22	NO		7	
			J7-P18	58				.22	NO			
D 211	1	3.00	J7-019					.22	NO		7	
			J7-P19	59				.22	NO			
D 212	1	3.00	J7-020					.22	NO		7	
			J7-P20	60				.22	NO			
D 213	1	3.00	J7-021					.22	NO		7	
			J7-P21	61				.22	NO			
D 214	1	3.00	J7-022					.22	NO		7	
			J7-P22	62				.22	NO			
D 215	1	3.00	J7-023					.22	NO		7	
			J7-P23	63				.22	NO			
D 216	1	3.00	J7-024					.22	NO		7	
			J7-P24	64				.22	NO			

SIZE A | CODE IDENT NO. 99974 | 2901230
SCALE-NONE | REV LTR ✓A | SHEET 22 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 217	1	3.00	J7-025					.22	NO		7	
			J7-P25	65				.22	NO			
D 218	1	3.00	J7-026					.22	NO		7	
			J7-P26	66				.22	NO			
D 219	1	3.00	J7-027					.22	NO		7	
			J7-P27	67				.22	NO			
D 220	1	3.00	J7-028					.22	NO		7	
			J7-P28	68				.22	NO			
D 221	1	3.00	J7-029					.22	NO		7	
			J7-P29	69				.22	NO			
D 222	1	3.00	J7-030					.22	NO		7	
			J7-P30	70				.22	NO			
D 223	1	3.00	J7-031					.22	NO		7	
			J7-P31	71				.22	NO			
D 224	1	3.00	J7-032					.22	NO		7	
			J7-P32	72				.22	NO			
D 225	1	3.00	J7-033					.22	NO		7	
			J7-P33	73				.22	NO			
D 226	1	3.00	J7-034					.22	NO		7	
			J7-P34	74				.22	NO			
D 227	1	3.00	J7-035					.22	NO		7	
			J7-P35	75				.22	NO			
D 228	1	3.00	J7-036					.22	NO		7	
			J7-P36	76				.22	NO			

SIZE A | CODE IDENT NO. 99974 | 2901230
SCALE-NONE | REV LTR ✓A | SHEET 23 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 229	1	3.00	J7-037					.22	NO		7	
			J7-P37	77				.22	NO			
D 230	1	3.00	J7-038					.22	NO		7	
			J7-P38	78				.22	NO			
D 231	1	3.00	J7-039					.22	NO		7	
			J7-P39	79				.22	NO			
D 232	1	3.00	J7-040					.22	NO		7	
			J7-P40	80				.22	NO			
D 233	1	3.00	J7-041					.22	NO		7	
			J7-P41	81				.22	NO			
D 234	1	3.00	J7-042					.22	NO		7	
			J7-P42	82				.22	NO			
D 235	1	3.00	J7-043					.22	NO		7	
			J7-P43	83				.22	NO			
D 236	1	3.00	J7-044					.22	NO		7	
			J7-P44	84				.22	NO			
D 237	1	3.00	J7-045					.22	NO		7	
			J7-P45	85				.22	NO			
D 238	1	3.00	J7-046					.22	NO		7	
			J7-P46	86				.22	NO			
D 239	1	3.00	J7-047					.22	NO		7	
			J7-P47	87				.22	NO			
D 240	1	3.00	J7-048					.22	NO		7	
			J7-P48	88				.22	NO			

SIZE A | CODE IDENT NO. 99974 | 2901230
SCALE-NONE | REV LTR ✓A | SHEET 24 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 241	1	3.00	J7-S1					.22	NO		7	
			J7-T1	89				.22	NO			
D 242	1	3.00	J7-S2					.22	NO		7	
			J7-T2	90				.22	NO			
D 243	1	3.00	J7-S3					.22	NO		7	
			J7-T3	91				.22	NO			
D 244	1	3.00	J7-S4					.22	NO		7	
			J7-T4	92				.22	NO			
D 245	1	3.00	J7-S5					.22	NO		7	
			J7-T5	93				.22	NO			
D 246	1	3.00	J7-S6					.22	NO		7	
			J7-T6	94				.22	NO			
D 247	1	3.00	J7-S7					.22	NO		7	
			J7-T7	95				.22	NO			
D 248	1	3.00	J7-S8					.22	NO		7	
			J7-T8	96				.22	NO			
D 249	1	3.00	J7-S9					.22	NO		7	
			J7-T9	97				.22	NO			
D 250	1	3.00	J7-S10					.22	NO		7	
			J7-T10	98				.22	NO			
D 251	1	3.00	J7-S11					.22	NO		7	
			J7-T11	99				.22	NO			
D 252	1	3.00	J7-S12					.22	NO		7	
			J7-T12	100				.22	NO			

SIZE A | CODE IDENT NO. 99974 | 2901230
SCALE-NONE | REV LTR ✓A | SHEET 25 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 253	1	3.00	J7-S13 J7-T13	101				.22 .22	NO NO		7	
D 254	1	3.00	J7-S14 J7-T14	102				.22 .22	NO NO		7	
D 255	1	3.00	J7-S15 J7-T15	103				.22 .22	NO NO		7	
D 256	1	3.00	J7-S16 J7-T16	104				.22 .22	NO NO		7	
D 257	1	3.00	J7-S17 J7-T17	105				.22 .22	NO NO		7	
D 258	1	3.00	J7-S18 J7-T18	106				.22 .22	NO NO		7	
D 259	1	3.00	J7-S19 J7-T19	107				.22 .22	NO NO		7	
D 260	1	3.00	J7-S20 J7-T20	108				.22 .22	NO NO		7	
D 261	1	3.00	J7-S21 J7-T21	109				.22 .22	NO NO		7	
D 262	1	3.00	J7-S22 J7-T22	110				.22 .22	NO NO		7	
D 263	1	3.00	J7-S23 J7-T23	111				.22 .22	NO NO		7	
D 264	1	3.00	J7-S24 J7-T24	112				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 26 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 265	1	3.00	J7-S25 J7-T25	113				.22 .22	NO NO		7	
D 266	1	3.00	J7-S26 J7-T26	114				.22 .22	NO NO		7	
D 267	1	3.00	J7-S27 J7-T27	115				.22 .22	NO NO		7	
D 268	1	3.00	J7-S28 J7-T28	116				.22 .22	NO NO		7	
D 269	1	3.00	J7-S29 J7-T29	117				.22 .22	NO NO		7	
D 270	1	3.00	J7-S30 J7-T30	118				.22 .22	NO NO		7	
D 271	1	3.00	J7-S31 J7-T31	119				.22 .22	NO NO		7	
D 272	1	3.00	J7-S32 J7-T32	120				.22 .22	NO NO		7	
D 273	1	3.00	J7-S33 J7-T33	121				.22 .22	NO NO		7	
D 274	1	3.00	J7-S34 J7-T34	122				.22 .22	NO NO		7	
D 275	1	3.00	J7-S35 J7-T35	123				.22 .22	NO NO		7	
D 276	1	3.00	J7-S36 J7-T36	124				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 27 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 277	1	3.00	J7-S37 J7-T37	125				.22 .22	NO NO		7	
D 278	1	3.00	J7-S38 J7-T38	126				.22 .22	NO NO		7	
D 279	1	3.00	J7-S39 J7-T39	127				.22 .22	NO NO		7	
D 280	1	3.00	J7-S40 J7-T40	128				.22 .22	NO NO		7	
D 281	1	3.00	J7-S41 J7-T41	129				.22 .22	NO NO		7	
D 282	1	3.00	J7-S42 J7-T42	130				.22 .22	NO NO		7	
D 283	1	3.00	J7-S43 J7-T43	131				.22 .22	NO NO		7	
D 284	1	3.00	J7-S44 J7-T44	132				.22 .22	NO NO		7	
D 285	1	3.00	J7-S45 J7-T45	133				.22 .22	NO NO		7	
D 286	1	3.00	J7-S46 J7-T46	134				.22 .22	NO NO		7	
D 287	1	3.00	J7-S47 J7-T47	135				.22 .22	NO NO		7	
D 288	1	3.00	J7-S48 J7-T48	136				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 28 OF 31

MIL 2084 9-65

WIRING HARNESS D 2901230 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 289	1	3.00	J7-V1 J7-W1	137				.22 .22	NO NO		7	
D 290	1	3.00	J7-V2 J7-W2	138				.22 .22	NO NO		7	
D 291	1	3.00	J7-V3 J7-W3	139				.22 .22	NO NO		7	
D 292	1	3.00	J7-V4 J7-W4	140				.22 .22	NO NO		7	
D 293	1	3.00	J7-V5 J7-W5	141				.22 .22	NO NO		7	
D 294	1	3.00	J7-V6 J7-W6	142				.22 .22	NO NO		7	
D 295	1	3.00	J7-V7 J7-W7	143				.22 .22	NO NO		7	
D 296	1	3.00	J7-V8 J7-W8	144				.22 .22	NO NO		7	
D 297	1	3.00	J7-V9 J7-W9	145				.22 .22	NO NO		7	
D 298	1	3.00	J7-V10 J7-W10	146				.22 .22	NO NO		7	
D 299	1	3.00	J7-V11 J7-W11	147				.22 .22	NO NO		7	
D 300	1	3.00	J7-V12 J7-W12	148				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 29 OF 31

MIL 2084 9-65

WIRING HARNESS D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 301	1	3.00	J7-V13 J7-W13	149				.22 .22	NO NO		7	
D 302	1	3.00	J7-V14 J7-W14	150				.22 .22	NO NO		7	
D 303	1	3.00	J7-V15 J7-W15	151				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901230
SCALE-NONE	REV LTR A	SHEET 30 OF 31

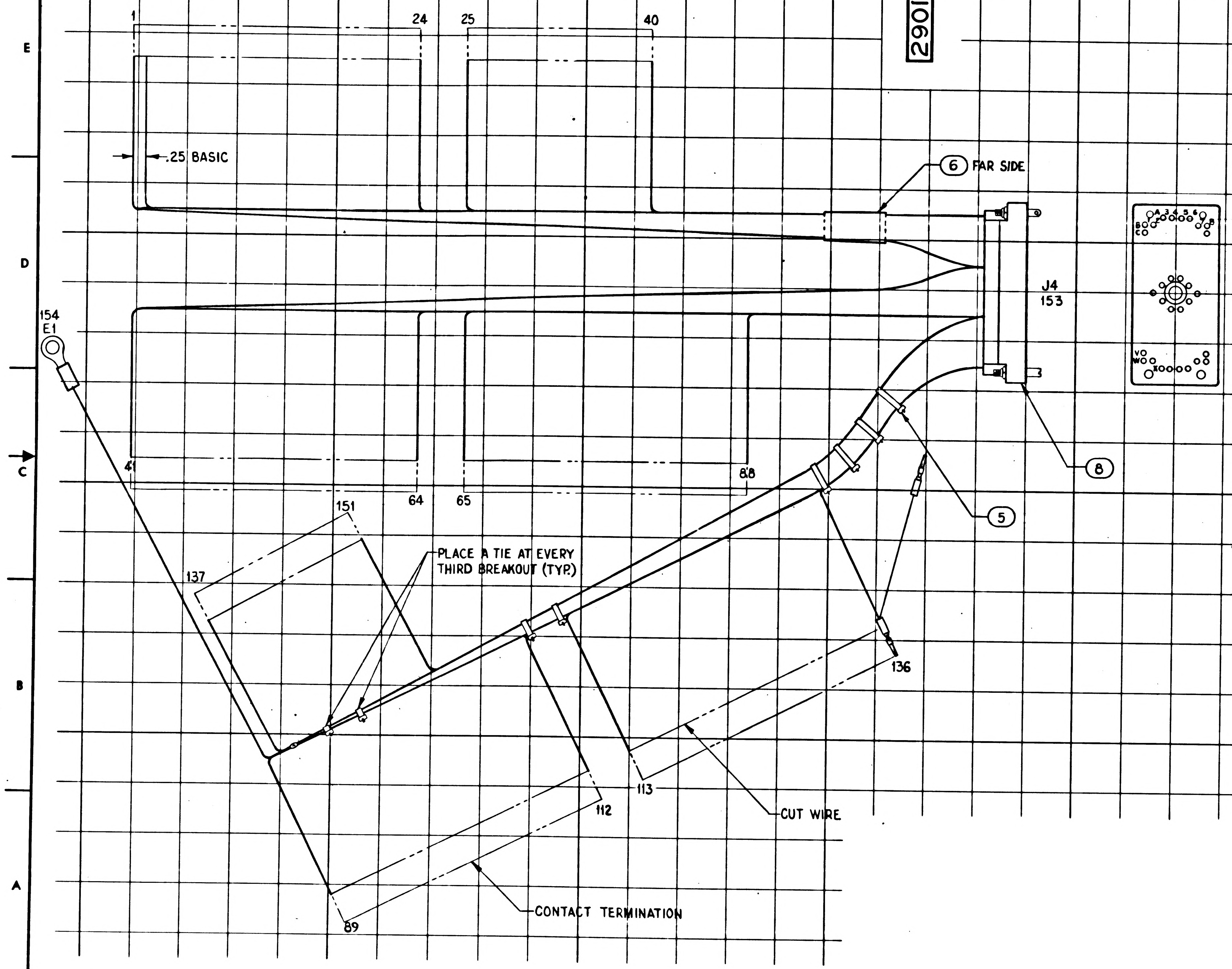
MIL 2084 9-65

2901230 REV LTR A

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

REVISIONS TDRR 28599

SEE SHEET I FOR REVISION RECORD



1
24
25
40
.25 BASIC
6 FAR SIDE
J4
153
154
E1
41
64
65
88
8
5
151
137
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP.)
136
113
112
CUT WIRE
CONTACT TERMINATION
89

CODE IDENT NO	SIZE	
99974	D	2901230
SCALE		SHEET 31 OF 31

MX 109894 D-3

APPLICATION	
NEXT ASSY	USED ON
2900896-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211986	2 MAY 66	JJJ CP
B	INITIAL RELEASE CLASS A PER TDRR 28657	3-MAY 66	GH EF

REV STATUS OF SHEETS	REV			B	B	B	B	B	B
	SHEET			1	2	3	4	5	6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Janowick 16 FEB 66 (DAY MO YR)
CHECKER 25 FEB 66
ENGINEER G. Youpe 24 FEB 66
APPROVAL 5/6/66
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL 5/3/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET "A-A", ELECTRICAL

SIZE A
CODE IDENT. NO 99974
2901231
SCALE NONE
SHEET 1 OF 6

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901231
SCALE-NONE	REV LTR B	SHEET 2 OF 6

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901231-001	WIRE, BUS, PER QQ-W-343, TYPE S, COATED (ES110-1) 24 AWG, TOTAL LENGTH.

SIZE	CODE IDENT NO.	
A	99974	2901231
SCALE-NONE	REV LTR B	SHEET 3 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1		TB1-15 TB1-16									
AA 2	1		TB1-16 TB1-17									
AA 3	1		TB1-17 TB1-18									
AA 4	1		TB1-18 TB1-19									
AA 5	1		TB1-19 TB1-20									
AA 6	1		TB1-20 TB1-21									
AA 7	1		TB1-21 TB1-22									
AA 8	1		TB1-22 TB1-23									
AA 9	1		TB1-23 TB1-24									
AA 10	1		TB1-24 TB1-25									
AA 11	1		TB1-13 TB1-14									
AA 12	1		S1A-1A S1A-2A									

SIZE	CODE IDENT NO.	
A	99974	2901231
SCALE-NONE	REV LTR B	SHEET 4 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1		S1A-2A S1A-3A									
AA 14	1		S1A-3A S1A-4A									
AA 15	1		S1A-4A S1A-5A									
AA 16	1		S1A-5A S1A-6A									
AA 17	1		S1A-6A S1A-7A									
AA 18	1		S1A-7A S1A-8A									
AA 19	1		S1A-8A S1A-9A									
AA 20	1		S1A-9A S1A-10A									
AA 21	1		S1A-3B S1A-4B									
AA 22	1		S1A-4B S1A-5B									
AA 23	1		S1A-5B S1A-6B									
AA 24	1		S1A-6B S1A-7B									

SIZE	CODE IDENT NO.	
A	99974	2901231
SCALE-NONE	REV LTR B	SHEET 5 OF 6

LEAD SET AA ▼ 2901231 B ~~A~~ s

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	1		S1A-7B S1A-8B									
AA 26	1		S1A-8B S1A-9B									
AA 27.	1		S1A-9B S1A-10B									
AA 28	1		~~S1B-1A~~ SIC-7A ~~S1B-1B~~ SIC-8A									
AA 29	1		S2B-1A S2B-2A									
AA 30	1		S2B-2A S2B-3A									
AA 31	1		S2B-3A S2B-4A									
AA 32	1		PS2-7 PS2-8									
AA 33	1		PS2-2 PS2-3									
AA 34	1		PS2-5 PS2-6									
AA 35	1		R3-2 R3-3									
AA 36	1		SIC-8A SIC-9A									

SIZE A	CODE IDENT NO. 99974	2901231
SCALE-NONE	REV LTR ~~A~~ B	SHEET 6 OF 6

MIL 2084 9-65

2901232

REV LTR A

APPLICATION	
NEXT ASSY	USED ON
2901611-011	2901675-011

REVISIONS

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28599	2-MAY-66	B. EF

REV STATUS OF SHEETS	REV			A	A	A	A	A	A	A	A	A	A	A	A
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
DQ 61680

DRAFTSMAN J. Parks 16MAR66 (DAY MO YR)
CHECKER D. Fox 17 MAR 66
ENGINEER Mayer 17 Mar 66
APPROVAL L Gehin 3/3/66
CONTR NO. NAS9 497
MIT/IL 5-7-66
DESIGN ACTIVITY APPROVAL
NASA G. C. McK
~~OTHER~~ APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS E

SIZE A
CODE IDENT. NO. 99974
2901232
SCALE NONE
SHEET 1 OF 12

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 4.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 4.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE A	CODE IDENT NO. 99974	2901232	
SCALE-NONE	REV LTR A		SHEET 2 OF 12

NOTE NUMBER — GENERAL NOTES — DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901232	
SCALE-NONE	REV LTR A		SHEET 3 OF 12

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901232-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 125 FT TOTAL LENGTH
	2	1	2901232-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
	3	80	1016369-420	CONTACT, MALE
	4	55	1897406-005	STRAP, CABLE ADJUSTABLE
	5	1	1016128-011	BAND, IDENTIFICATION-BLANK
	6	80	1897399-002	CONTACT, ELEC TAPER
	7	1	1897335-001	CONNECTOR, RECP ELEC
	8	1	1015902-050	TERMINAL LUG
	9	1	1016369-720	CONTACT, MALE NO.16

SIZE A	CODE IDENT NO. 99974	2901232	
SCALE-NONE	REV LTR A		SHEET 4 OF 12

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E	1	1		J5-A3 J7-U17	81 1				.19 .22	NO NO		3 6	
E	2	1		J5-A4 J7-U18	81 2				.19 .22	NO NO		3 6	
E	3	1		J5-A5 J7-U19	81 3				.19 .22	NO NO		3 6	
E	4	1		J5-A6 J7-U20	81 4				.19 .22	NO NO		3 6	
E	5	1		J5-B1 J7-U21	81 5				.19 .22	NO NO		3 6	
E	6	1		J5-B2 J7-U22	81 6				.19 .22	NO NO		3 6	
E	7	1		J5-B3 J7-U23	81 7				.19 .22	NO NO		3 6	
E	8	1		J5-B4 J7-U24	81 8				.19 .22	NO NO		3 6	
E	9	1		J5-B5 J7-U25	81 9				.19 .22	NO NO		3 6	
E	10	1		J5-B6 J7-U26	81 10				.19 .22	NO NO		3 6	
E	11	1		J5-B7 J7-U27	81 11				.19 .22	NO NO		3 6	
E	12	1		J5-B8 J7-U28	81 12				.19 .22	NO NO		3 6	

SIZE A	CODE IDENT NO. 99974	2901232	
SCALE-NONE	REV LTR A		SHEET 5 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 13	1		J5-C1 J7-U29	81 13				.19 .22	NO NO		3 6	
E 14	1		J5-C2 J7-U30	81 14				.19 .22	NO NO		3 6	
E 15	1		J5-C3 J7-U31	81 15				.19 .22	NO NO		3 6	
E 16	1		J5-C4 J7-U32	81 16				.19 .22	NO NO		3 6	
E 17	1		J5-C5 J7-U33	81 17				.19 .22	NO NO		3 6	
E 18	1		J5-C6 J7-U34	81 18				.19 .22	NO NO		3 6	
E 19	1		J5-C7 J7-U35	81 19				.19 .22	NO NO		3 6	
E 20	1		J5-C8 J7-U36	81 20				.19 .22	NO NO		3 6	
E 21	1		J5-D1 J7-U37	81 21				.19 .22	NO NO		3 6	
E 22	1		J5-D2 J7-U38	81 22				.19 .22	NO NO		3 6	
E 23	1		J5-D3 J7-U39	81 23				.19 .22	NO NO		3 6	
E 24	1		J5-D4 J7-U40	81 24				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 6 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 25	1		J5-D5 J7-U41	81 25				.19 .22	NO NO		3 6	
E 26	1		J5-D6 J7-U42	81 26				.19 .22	NO NO		3 6	
E 27	1		J5-D7 J7-U43	81 27				.19 .22	NO NO		3 6	
E 28	1		J5-D8 J7-U44	81 28				.19 .22	NO NO		3 6	
E 29	1		J5-E1 J7-U45	81 29				.19 .22	NO NO		3 6	
E 30	1		J5-E2 J7-U46	81 30				.19 .22	NO NO		3 6	
E 31	1		J5-E3 J7-U47	81 31				.19 .22	NO NO		3 6	
E 32	1		J5-E4 J7-U48	81 32				.19 .22	NO NO		3 6	
E 33	1		J5-E5 J7-X1	81 33				.19 .22	NO NO		3 6	
E 34	1		J5-E6 J7-X2	81 34				.19 .22	NO NO		3 6	
E 35	1		J5-E7 J7-X3	81 35				.19 .22	NO NO		3 6	
E 36	1		J5-E8 J7-X4	81 36				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 7 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 37	1		J5-F1 J7-X5	81 37				.19 .22	NO NO		3 6	
E 38	1		J5-F2 J7-X6	81 38				.19 .22	NO NO		3 6	
E 39	1		J5-F3 J7-X7	81 39				.19 .22	NO NO		3 6	
E 40	1		J5-F4 J7-X8	81 40				.19 .22	NO NO		3 6	
E 41	1		J5-F5 J7-X9	81 41				.19 .22	NO NO		3 6	
E 42	1		J5-F6 J7-X10	81 42				.19 .22	NO NO		3 6	
E 43	1		J5-F7 J7-X11	81 43				.19 .22	NO NO		3 6	
E 44	1		J5-F8 J7-X12	81 44				.19 .22	NO NO		3 6	
E 45	1		J5-G1 J7-X13	81 45				.19 .22	NO NO		3 6	
E 46	1		J5-G2 J7-X14	81 46				.19 .22	NO NO		3 6	
E 47	1		J5-G3 J7-X15	81 47				.19 .22	NO NO		3 6	
E 48	1		J5-G4 J7-X16	81 48				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 8 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 49	1		J5-G5 J7-X17	81 49				.19 .22	NO NO		3 6	
E 50	1		J5-G6 J7-X18	81 50				.19 .22	NO NO		3 6	
E 51	1		J5-G7 J7-X19	81 51				.19 .22	NO NO		3 6	
E 52	1		J5-G8 J7-X20	81 52				.19 .22	NO NO		3 6	
E 53	1		J5-H1 J7-X21	81 53				.19 .22	NO NO		3 6	
E 54	1		J5-H2 J7-X22	81 54				.19 .22	NO NO		3 6	
E 55	1		J5-H3 J7-X23	81 55				.19 .22	NO NO		3 6	
E 56	1		J5-H4 J7-X24	81 56				.19 .22	NO NO		3 6	
E 57	1		J5-H5 J7-X25	81 57				.19 .22	NO NO		3 6	
E 58	1		J5-H6 J7-X26	81 58				.19 .22	NO NO		3 6	
E 59	1		J5-H7 J7-X27	81 59				.19 .22	NO NO		3 6	
E 60	1		J5-H8 J7-X28	81 60				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 9 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 61	1		J5-J1 J7-X29	81 61				.19 .22	NO NO		3 6	
E 62	1		J5-J2 J7-X30	81 62				.19 .22	NO NO		3 6	
E 63	1		J5-J3 J7-X31	81 63				.19 .22	NO NO		3 6	
E 64	1		J5-J4 J7-X32	81 64				.19 .22	NO NO		3 6	
E 65	1		J5-J5 J7-X33	81 65				.19 .22	NO NO		3 6	
E 66	1		J5-J6 J7-X34	81 66				.19 .22	NO NO		3 6	
E 67	1		J5-J7 J7-X35	81 67				.19 .22	NO NO		3 6	
E 68	1		J5-J8 J7-X36	81 68				.19 .22	NO NO		3 6	
E 69	1		J5-K1 J7-X37	81 69				.19 .22	NO NO		3 6	
E 70	1		J5-K2 J7-X38	81 70				.19 .22	NO NO		3 6	
E 71	1		J5-K3 J7-X39	81 71				.19 .22	NO NO		3 6	
E 72	1		J5-K6 J7-X40	81 72				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 10 OF 12

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 73	1		J5-K7 J7-X41	81 73				.19 .22	NO NO		3 6	
E 74	1		J5-K8 J7-X42	81 74				.19 .22	NO NO		3 6	
E 75	1		J5-L1 J7-X43	81 75				.19 .22	NO NO		3 6	
E 76	1		J5-L2 J7-X44	81 76				.19 .22	NO NO		3 6	
E 77	1		J5-L7 J7-X45	81 77				.19 .22	NO NO		3 6	
E 78	1		J5-L8 J7-X46	81 78				.19 .22	NO NO		3 6	
E 79	1		J5-M1 J7-X47	81 79				.19 .22	NO NO		3 6	
E 80	1		J5-M2 J7-X48	81 80				.19 .22	NO NO		3 6	
E 81	2		J5-X6 E1	81 82				.19 .22	NO NO		9 8	

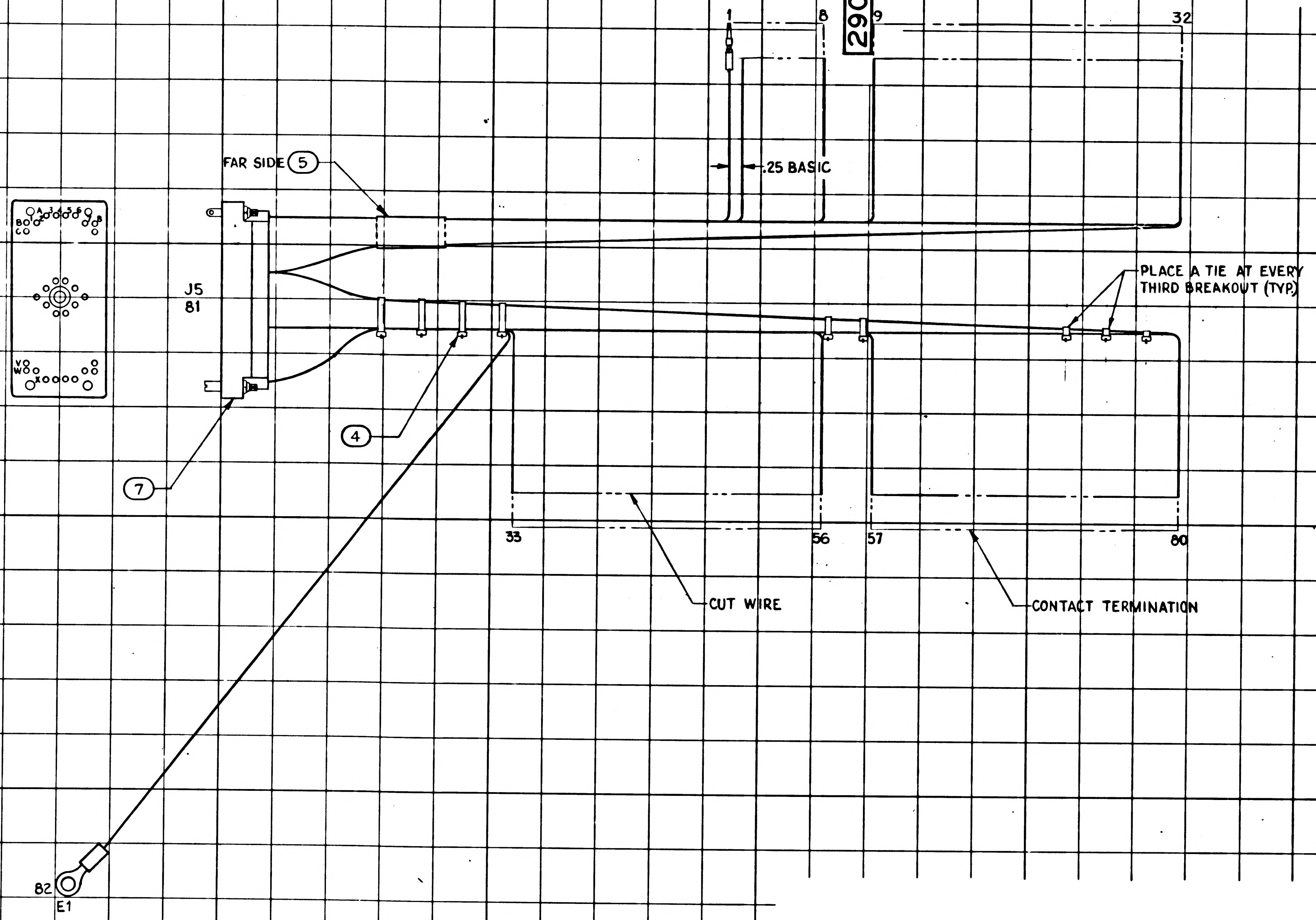
SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 11 OF 12

MIL 2084 9-65

REVISIONS TDKR-28599				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		CHG NO.		

SEE SHEET 1 FOR REVISION RECORD

2901232
REV LTR A



1
8
9
32
.25 BASIC
FAR SIDE ⑤
J5
81
A 1 2 3 4 5 6 7 8
B
C
V
W
X
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP)
④
⑦
33
56
57
80
CUT WIRE
CONTACT TERMINATION
82
E1

CODE IDENT NO	SIZE	
99974	D	2901232
SCALE		SHEET 12 OF 12

MX 109894 D-1

2901232

REV LTR B

NEXT ASSY	USED ON
2901611-011	2901675-011

APPLICATION

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
Ⓜ		A	INITIAL RELEASE CLASS A PER TDRR 28599	2-MAY -66	B. EF
		B	REVISED PER TDRR 29420	14-JUN 66	M. H.

REVISIONS

REV													
SHEET													
REV STATUS OF SHEETS	REV	B	A	A	A	A	A	A	A	A	A	B	A
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
DQ 61680

DRAFTSMAN J. Parks 16 MAR 66 (DAY MO YR)
CHECKER R. L. Fox 17 MAR 66
ENGINEER J. Noyes 17 MAR 66
APPROVAL L. C. 5/3/66
CONTR NO. NAS9 497
MIT/IL 5-9-66
DESIGN ACTIVITY APPROVAL
NASA G. C.
~~OTHER~~ APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS E

SIZE	CODE IDENT. NO.	
A	99974	2901232

SCALE NONE
SHEET 1 OF 12

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 4.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 4.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 2 OF 12

NOTE NUMBER   GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 3 OF 12

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901232-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 125 FT TOTAL LENGTH
	2	1	2901232-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
	3	80	1016369-420	CONTACT, MALE
	4	55	1897406-005	STRAP, CABLE ADJUSTABLE
	5	1	1016128-011	BAND, IDENTIFICATION-BLANK
	6	80	1897399-002	CONTACT, ELEC TAPER
	7	1	1897335-001	CONNECTOR, RECP ELEC
	8	1	1015902-050	TERMINAL LUG
	9	1	1016369-720	CONTACT, MALE NO.16

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 4 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 1	1		J5-A3 J7-U17	81 1				.19 .22	NO NO		3 6	
E 2	1		J5-A4 J7-U18	81 2				.19 .22	NO NO		3 6	
E 3	1		J5-A5 J7-U19	81 3				.19 .22	NO NO		3 6	
E 4	1		J5-A6 J7-U20	81 4				.19 .22	NO NO		3 6	
E 5	1		J5-B1 J7-U21	81 5				.19 .22	NO NO		3 6	
E 6	1		J5-B2 J7-U22	81 6				.19 .22	NO NO		3 6	
E 7	1		J5-B3 J7-U23	81 7				.19 .22	NO NO		3 6	
E 8	1		J5-B4 J7-U24	81 8				.19 .22	NO NO		3 6	
E 9	1		J5-B5 J7-U25	81 9				.19 .22	NO NO		3 6	
E 10	1		J5-B6 J7-U26	81 10				.19 .22	NO NO		3 6	
E 11	1		J5-B7 J7-U27	81 11				.19 .22	NO NO		3 6	
E 12	1		J5-B8 J7-U28	81 12				.19 .22	NO NO		3 6	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 5 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 13	1		J5-C1	81				.19	NO		3	
			J7-U29	13				.22	NO		6	
E 14	1		J5-C2	81				.19	NO		3	
			J7-U30	14				.22	NO		6	
E 15	1		J5-C3	81				.19	NO		3	
			J7-U31	15				.22	NO		6	
E 16	1		J5-C4	81				.19	NO		3	
			J7-U32	16				.22	NO		6	
E 17	1		J5-C5	81				.19	NO		3	
			J7-U33	17				.22	NO		6	
E 18	1		J5-C6	81				.19	NO		3	
			J7-U34	18				.22	NO		6	
E 19	1		J5-C7	81				.19	NO		3	
			J7-U35	19				.22	NO		6	
E 20	1		J5-C8	81				.19	NO		3	
			J7-U36	20				.22	NO		6	
E 21	1		J5-D1	81				.19	NO		3	
			J7-U37	21				.22	NO		6	
E 22	1		J5-D2	81				.19	NO		3	
			J7-U38	22				.22	NO		6	
E 23	1		J5-D3	81				.19	NO		3	
			J7-U39	23				.22	NO		6	
E 24	1		J5-D4	81				.19	NO		3	
			J7-U40	24				.22	NO		6	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 6 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 25	1		J5-D5	81				.19	NO		3	
			J7-U41	25				.22	NO		6	
E 26	1		J5-D6	81				.19	NO		3	
			J7-U42	26				.22	NO		6	
E 27	1		J5-D7	81				.19	NO		3	
			J7-U43	27				.22	NO		6	
E 28	1		J5-D8	81				.19	NO		3	
			J7-U44	28				.22	NO		6	
E 29	1		J5-E1	81				.19	NO		3	
			J7-U45	29				.22	NO		6	
E 30	1		J5-E2	81				.19	NO		3	
			J7-U46	30				.22	NO		6	
E 31	1		J5-E3	81				.19	NO		3	
			J7-U47	31				.22	NO		6	
E 32	1		J5-E4	81				.19	NO		3	
			J7-U48	32				.22	NO		6	
E 33	1		J5-E5	81				.19	NO		3	
			J7-X1	33				.22	NO		6	
E 34	1		J5-E6	81				.19	NO		3	
			J7-X2	34				.22	NO		6	
E 35	1		J5-E7	81				.19	NO		3	
			J7-X3	35				.22	NO		6	
E 36	1		J5-E8	81				.19	NO		3	
			J7-X4	36				.22	NO		6	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 7 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 37	1		J5-F1	81				.19	NO		3	
			J7-X5	37				.22	NO		6	
E 38	1		J5-F2	81				.19	NO		3	
			J7-X6	38				.22	NO		6	
E 39	1		J5-F3	81				.19	NO		3	
			J7-X7	39				.22	NO		6	
E 40	1		J5-F4	81				.19	NO		3	
			J7-X8	40				.22	NO		6	
E 41	1		J5-F5	81				.19	NO		3	
			J7-X9	41				.22	NO		6	
E 42	1		J5-F6	81				.19	NO		3	
			J7-X10	42				.22	NO		6	
E 43	1		J5-F7	81				.19	NO		3	
			J7-X11	43				.22	NO		6	
E 44	1		J5-F8	81				.19	NO		3	
			J7-X12	44				.22	NO		6	
E 45	1		J5-G1	81				.19	NO		3	
			J7-X13	45				.22	NO		6	
E 46	1		J5-G2	81				.19	NO		3	
			J7-X14	46				.22	NO		6	
E 47	1		J5-G3	81				.19	NO		3	
			J7-X15	47				.22	NO		6	
E 48	1		J5-G4	81				.19	NO		3	
			J7-X16	48				.22	NO		6	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 8 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 49	1		J5-G5	81				.19	NO		3	
			J7-X17	49				.22	NO		6	
E 50	1		J5-G6	81				.19	NO		3	
			J7-X18	50				.22	NO		6	
E 51	1		J5-G7	81				.19	NO		3	
			J7-X19	51				.22	NO		6	
E 52	1		J5-G8	81				.19	NO		3	
			J7-X20	52				.22	NO		6	
E 53	1		J5-H1	81				.19	NO		3	
			J7-X21	53				.22	NO		6	
E 54	1		J5-H2	81				.19	NO		3	
			J7-X22	54				.22	NO		6	
E 55	1		J5-H3	81				.19	NO		3	
			J7-X23	55				.22	NO		6	
E 56	1		J5-H4	81				.19	NO		3	
			J7-X24	56				.22	NO		6	
E 57	1		J5-H5	81				.19	NO		3	
			J7-X25	57				.22	NO		6	
E 58	1		J5-H6	81				.19	NO		3	
			J7-X26	58				.22	NO		6	
E 59	1		J5-H7	81				.19	NO		3	
			J7-X27	59				.22	NO		6	
E 60	1		J5-H8	81				.19	NO		3	
			J7-X28	60				.22	NO		6	

SIZE A
CODE IDENT NO. 99974
2901232
SCALE-NONE
REV LTR A
SHEET 9 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 61	1		J5-J1 J7-X29	81 61				.19 .22	NO NO		3 6	
E 62	1		J5-J2 J7-X30	81 62				.19 .22	NO NO		3 6	
E 63	1		J5-J3 J7-X31	81 63				.19 .22	NO NO		3 6	
E 64	1		J5-J4 J7-X32	81 64				.19 .22	NO NO		3 6	
E 65	1		J5-J5 J7-X33	81 65				.19 .22	NO NO		3 6	
E 66	1		J5-J6 J7-X34	81 66				.19 .22	NO NO		3 6	
E 67	1		J5-J7 J7-X35	81 67				.19 .22	NO NO		3 6	
E 68	1		J5-J8 J7-X36	81 68				.19 .22	NO NO		3 6	
E 69	1		J5-K1 J7-X37	81 69				.19 .22	NO NO		3 6	
E 70	1		J5-K2 J7-X38	81 70				.19 .22	NO NO		3 6	
E 71	1		J5-K3 J7-X39	81 71				.19 .22	NO NO		3 6	
E 72	1		J5-K6 J7-X40	81 72				.19 .22	NO NO		3 6	

SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR A	SHEET 10 OF 12

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
E 73	1		J5-K7 J7-X41	81 73				.19 .22	NO NO		3 6	
E 74	1		J5-K8 J7-X42	81 74				.19 .22	NO NO		3 6	
E 75	1		J5-L1 J7-X43	81 75				.19 .22	NO NO		3 6	
E 76	1		J5-L2 J7-X44	81 76				.19 .22	NO NO		3 6	
E 77	1		J5-L7 J7-X45	81 77				.19 .22	NO NO		3 6	
E 78	1		J5-L8 J7-X46	81 78				.19 .22	NO NO		3 6	
E 79	1		J5-X4 J7-X47	81 79				.19 .22	NO NO		3 6	
E 80	1		J5-X5 J7-X48	81 80				.19 .22	NO NO		3 6	
E 81	2		J5-X6 E1	81 82				.19 .22	NO NO		9 8	

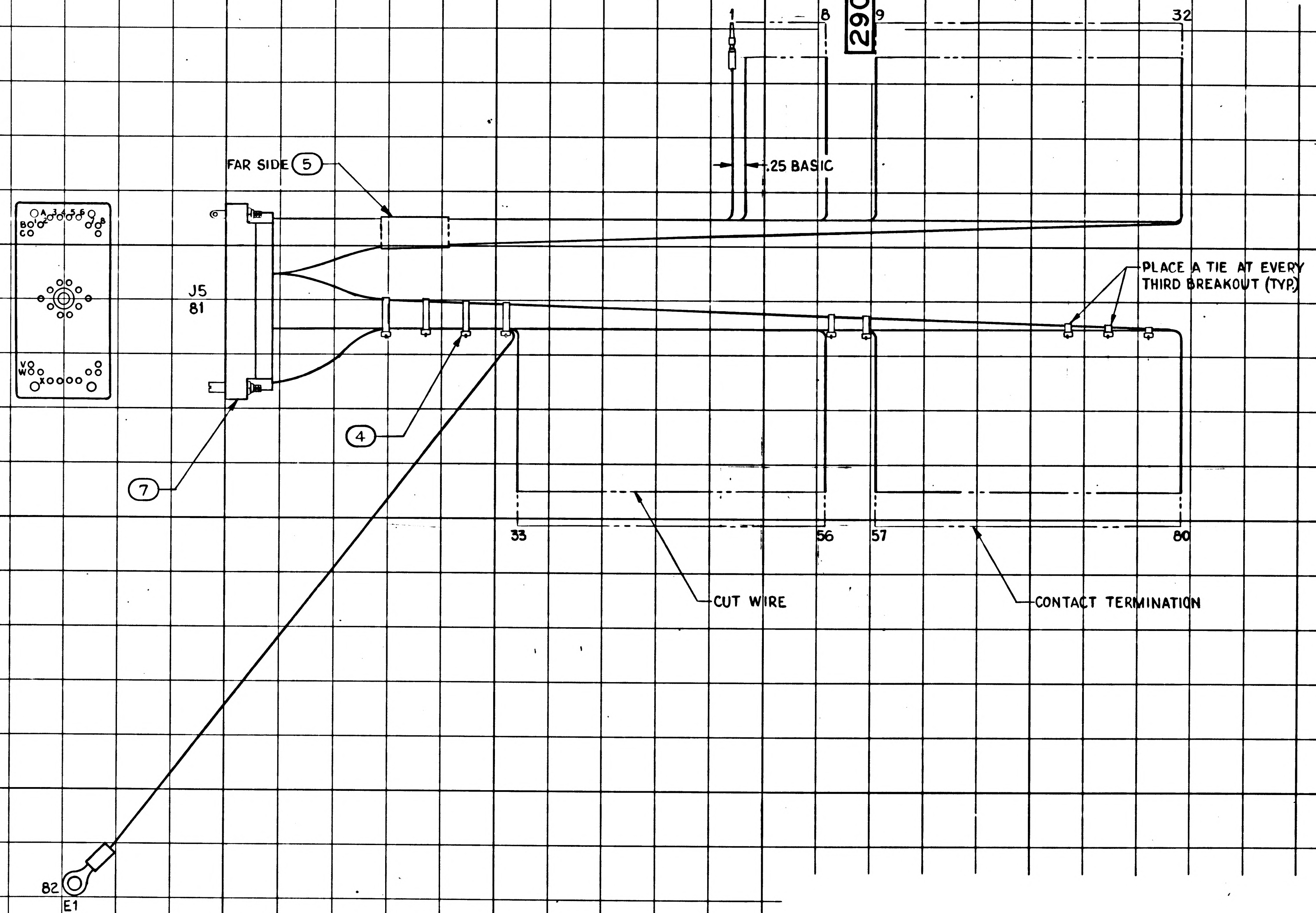
SIZE	CODE IDENT NO.	
A	99974	2901232
SCALE-NONE	REV LTR B	SHEET 11 OF 12

2901232 REV LTR A

REVISIONS TDRR-28579				
SYM	ZONE	DESCRIPTION	DATE	APPD.
		CHG NO.		

Ⓜ

SEE SHEET I FOR REVISION RECORD



1
8
9
32
.25 BASIC
FAR SIDE (5)
A 1 2 3 4 5 6 7 8
B
C
V
W
X
J5
81
PLACE A TIE AT EVERY THIRD BREAKOUT (TYP.)
(4)
(7)
33
56
57
80
CUT WIRE
CONTACT TERMINATION
82
E1

CODE IDENT NO.	SIZE	
99974	D	2901232
SCALE		SHEET 12 OF 12

MX 109894 D-1

2901233

REV LTR
A

APPLICATION	
NEXT ASSY	USED ON
2901011-011	2901075-011

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		A	INITIAL RELEASE CLASS A PER TDRR 28549	2 MAY 66	GM

REV																							
SHEET																							
REV STATUS OF SHEETS	REV				A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O.61680

DRAFTSMAN J. Parks 16MAR66 (DAY MO YR)
CHECKER 17 MAR 66
ENGINEER L. Noyes 17 MAR 66
APPROVAL Gedeman 5/3/66
CONTR NO. NAS9497
DESIGN ACTIVITY APPROVAL 4/17/66 5 4 66
~~OTHER~~ NASA APPROVAL 14

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS F

SIZE	CODE IDENT. NO.	
A	99974	2901233
SCALE NONE		SHEET 1 OF 19

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 5.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 5.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

NOTE NUMBER GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901233-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 150 FT TOTAL LENGTH
	2	1	2901233-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
	3	80	1016369-420	CONTACT, MALE
	4	80	1897399-001	CONTACT, ELEC TAPER
	5	55	1897406-005	STRAP, CABLE ADJUSTABLE
	6	1	1016128-011	BAND, IDENTIFICATION-BLANK
	7	80	1897399-002	CONTACT, ELEC TAPER
	8	1	1897335-001	CONNECTOR, RECP ELEC
	9	1	1015902-050	TERMINAL LUG
	10	1	1016369-720	CONTACT, MALE NO.16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 1	1		J6-A3 J7-W17	81 1				.19 .22	NO NO		3 4	
F 2	1		J6-A4 J7-W18	81 2				.19 .22	NO NO		3 4	
F 3	1		J6-A5 J7-W19	81 3				.19 .22	NO NO		3 4	
F 4	1		J6-A6 J7-W20	81 4				.19 .22	NO NO		3 4	
F 5	1		J6-B1 J7-W21	81 5				.19 .22	NO NO		3 4	
F 6	1		J6-B2 J7-W22	81 6				.19 .22	NO NO		3 4	
F 7	1		J6-B3 J7-W23	81 7				.19 .22	NO NO		3 4	
F 8	1		J6-B4 J7-W24	81 8				.19 .22	NO NO		3 4	
F 9	1		J6-B5 J7-W25	81 9				.19 .22	NO NO		3 4	
F 10	1		J6-B6 J7-W26	81 10				.19 .22	NO NO		3 4	
F 11	1		J6-B7 J7-W27	81 11				.19 .22	NO NO		3 4	
F 12	1		J6-B8 J7-W28	81 12				.19 .22	NO NO		3 4	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 13	1		J6-C1 J7-W29	81 13				.19 .22	NO NO		3 4	
F 14	1		J6-C2 J7-W30	81 14				.19 .22	NO NO		3 4	
F 15	1		J6-C3 J7-W31	81 15				.19 .22	NO NO		3 4	
F 16	1		J6-C4 J7-W32	81 16				.19 .22	NO NO		3 4	
F 17	1		J6-C5 J7-W33	81 17				.19 .22	NO NO		3 4	
F 18	1		J6-C6 J7-W34	81 18				.19 .22	NO NO		3 4	
F 19	1		J6-C7 J7-W35	81 19				.19 .22	NO NO		3 4	
F 20	1		J6-C8 J7-W36	81 20				.19 .22	NO NO		3 4	
F 21	1		J6-D1 J7-W37	81 21				.19 .22	NO NO		3 4	
F 22	1		J6-D2 J7-W38	81 22				.19 .22	NO NO		3 4	
F 23	1		J6-D3 J7-W39	81 23				.19 .22	NO NO		3 4	
F 24	1		J6-D4 J7-W40	81 24				.19 .22	NO NO		3 4	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 25	1		J6-D5 J7-W41	81 25				.19 .22	NO NO		3 4	
F 26	1		J6-D6 J7-W42	81 26				.19 .22	NO NO		3 4	
F 27	1		J6-D7 J7-W43	81 27				.19 .22	NO NO		3 4	
F 28	1		J6-D8 J7-W44	81 28				.19 .22	NO NO		3 4	
F 29	1		J6-E1 J7-W45	81 29				.19 .22	NO NO		3 4	
F 30	1		J6-E2 J7-W46	81 30				.19 .22	NO NO		3 4	
F 31	1		J6-E3 J7-W47	81 31				.19 .22	NO NO		3 4	
F 32	1		J6-E4 J7-W48	81 32				.19 .22	NO NO		3 4	
F 33	1		J6-E5 J7-Z1	81 33				.19 .22	NO NO		3 4	
F 34	1		J6-E6 J7-Z2	81 34				.19 .22	NO NO		3 4	
F 35	1		J6-E7 J7-Z3	81 35				.19 .22	NO NO		3 4	
F 36	1		J6-E8 J7-Z4	81 36				.19 .22	NO NO		3 4	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 37	1		J6-F1 J7-Z5	81 37				.19 .22	NO NO		3 4	
F 38	1		J6-F2 J7-Z6	81 38				.19 .22	NO NO		3 4	
F 39	1		J6-F3 J7-Z7	81 39				.19 .22	NO NO		3 4	
F 40	1		J6-F4 J7-Z8	81 40				.19 .22	NO NO		3 4	
F 41	1		J6-F5 J7-Z9	81 41				.19 .22	NO NO		3 4	
F 42	1		J6-F6 J7-Z10	81 42				.19 .22	NO NO		3 4	
F 43	1		J6-F7 J7-Z11	81 43				.19 .22	NO NO		3 4	
F 44	1		J6-F8 J7-Z12	81 44				.19 .22	NO NO		3 4	
F 45	1		J6-G1 J7-Z13	81 45				.19 .22	NO NO		3 4	
F 46	1		J6-G2 J7-Z14	81 46				.19 .22	NO NO		3 4	
F 47	1		J6-G3 J7-Z15	81 47				.19 .22	NO NO		3 4	
F 48	1		J6-G4 J7-Z16	81 48				.19 .22	NO NO		3 4	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 49	1		J6-G5 J7-Z17	81 49				.19 .22	NO NO		3 4	
F 50	1		J6-G6 J7-Z18	81 50				.19 .22	NO NO		3 4	
F 51	1		J6-G7 J7-Z19	81 51				.19 .22	NO NO		3 4	
F 52	1		J6-G8 J7-Z20	81 52				.19 .22	NO NO		3 4	
F 53	1		J6-H1 J7-Z21	81 53				.19 .22	NO NO		3 4	
F 54	1		J6-H2 J7-Z22	81 54				.19 .22	NO NO		3 4	
F 55	1		J6-H3 J7-Z23	81 55				.19 .22	NO NO		3 4	
F 56	1		J6-H4 J7-Z24	81 56				.19 .22	NO NO		3 4	
F 57	1		J6-H5 J7-Z25	81 57				.19 .22	NO NO		3 4	
F 58	1		J6-H6 J7-Z26	81 58				.19 .22	NO NO		3 4	
F 59	1		J6-H7 J7-Z27	81 59				.19 .22	NO NO		3 4	
F 60	1		J6-H8 J7-Z28	81 60				.19 .22	NO NO		3 4	

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 61	1		J6-J1	81				.19	NO		3	
			J7-Z29	61				.22	NO		4	
F 62	1		J6-J2	81				.19	NO		3	
			J7-Z30	62				.22	NO		4	
F 63	1		J6-J3	81				.19	NO		3	
			J7-Z31	63				.22	NO		4	
F 64	1		J6-J4	81				.19	NO		3	
			J7-Z32	64				.22	NO		4	
F 65	1		J6-J5	81				.19	NO		3	
			J7-Z33	65				.22	NO		4	
F 66	1		J6-J6	81				.19	NO		3	
			J7-Z34	66				.22	NO		4	
F 67	1		J6-J7	81				.19	NO		3	
			J7-Z35	67				.22	NO		4	
F 68	1		J6-J8	81				.19	NO		3	
			J7-Z36	68				.22	NO		4	
F 69	1		J6-K1	81				.19	NO		3	
			J7-Z37	69				.22	NO		4	
F 70	1		J6-K2	81				.19	NO		3	
			J7-Z38	70				.22	NO		4	
F 71	1		J6-K3	81				.19	NO		3	
			J7-Z39	71				.22	NO		4	
F 72	1		J6-K6	81				.19	NO		3	
			J7-Z40	72				.22	NO		4	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 10 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 73	1		J6-K7	81				.19	NO		3	
			J7-Z41	73				.22	NO		4	
F 74	1		J6-K8	81				.19	NO		3	
			J7-Z42	74				.22	NO		4	
F 75	1		J6-L1	81				.19	NO		3	
			J7-Z43	75				.22	NO		4	
F 76	1		J6-L2	81				.19	NO		3	
			J7-Z44	76				.22	NO		4	
F 77	1		J6-L7	81				.19	NO		3	
			J7-Z45	77				.22	NO		4	
F 78	1		J6-L8	81				.19	NO		3	
			J7-Z46	78				.22	NO		4	
F 79	1		J6-M1	81				.19	NO		3	
			J7-Z47	79				.22	NO		4	
F 80	1		J6-M2	81				.19	NO		3	
			J7-Z48	80				.22	NO		4	
F 81	2		J6-X6	81				.19	NO		10	
			E1	82				.22	NO		9	
F 82	1	3.00	J7-V17					.22	NO		7	
			J7-W17	1				.22	NO			
F 83	1	3.00	J7-V18					.22	NO		7	
			J7-W18	2				.22	NO			
F 84	1	3.00	J7-V19					.22	NO		7	
			J7-W19	3				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 11 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 85	1	3.00	J7-V20					.22	NO		7	
			J7-W20	4				.22	NO			
F 86	1	3.00	J7-V21					.22	NO		7	
			J7-W21	5				.22	NO			
F 87	1	3.00	J7-V22					.22	NO		7	
			J7-W22	6				.22	NO			
F 88	1	3.00	J7-V23					.22	NO		7	
			J7-W23	7				.22	NO			
F 89	1	3.00	J7-V24					.22	NO		7	
			J7-W24	8				.22	NO			
F 90	1	3.00	J7-V25					.22	NO		7	
			J7-W25	9				.22	NO			
F 91	1	3.00	J7-V26					.22	NO		7	
			J7-W26	10				.22	NO			
F 92	1	3.00	J7-V27					.22	NO		7	
			J7-W27	11				.22	NO			
F 93	1	3.00	J7-V28					.22	NO		7	
			J7-W28	12				.22	NO			
F 94	1	3.00	J7-V29					.22	NO		7	
			J7-W29	13				.22	NO			
F 95	1	3.00	J7-V30					.22	NO		7	
			J7-W30	14				.22	NO			
F 96	1	3.00	J7-V31					.22	NO		7	
			J7-W31	15				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 12 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 97	1	3.00	J7-V32					.22	NO		7	
			J7-W32	16				.22	NO			
F 98	1	3.00	J7-V33					.22	NO		7	
			J7-W33	17				.22	NO			
F 99	1	3.00	J7-V34					.22	NO		7	
			J7-W34	18				.22	NO			
F 100	1	3.00	J7-V35					.22	NO		7	
			J7-W35	19				.22	NO			
F 101	1	3.00	J7-V36					.22	NO		7	
			J7-W36	20				.22	NO			
F 102	1	3.00	J7-V37					.22	NO		7	
			J7-W37	21				.22	NO			
F 103	1	3.00	J7-V38					.22	NO		7	
			J7-W38	22				.22	NO			
F 104	1	3.00	J7-V39					.22	NO		7	
			J7-W39	23				.22	NO			
F 105	1	3.00	J7-V40					.22	NO		7	
			J7-W40	24				.22	NO			
F 106	1	3.00	J7-V41					.22	NO		7	
			J7-W41	25				.22	NO			
F 107	1	3.00	J7-V42					.22	NO		7	
			J7-W42	26				.22	NO			
F 108	1	3.00	J7-V43					.22	NO		7	
			J7-W43	27				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 13 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 109	1	3.00	J7-V44					.22	NO		7	
			J7-W44	28				.22	NO			
F 110	1	3.00	J7-V45					.22	NO		7	
			J7-W45	29				.22	NO			
F 111	1	3.00	J7-V46					.22	NO		7	
			J7-W46	30				.22	NO			
F 112	1	3.00	J7-V47					.22	NO		7	
			J7-W47	31				.22	NO			
F 113	1	3.00	J7-V48					.22	NO		7	
			J7-W48	32				.22	NO			
F 114	1	3.00	J7-Y1					.22	NO		7	
			J7-Z1	33				.22	NO			
F 115	1	3.00	J7-Y2					.22	NO		7	
			J7-Z2	34				.22	NO			
F 116	1	3.00	J7-Y3					.22	NO		7	
			J7-Z3	35				.22	NO			
F 117	1	3.00	J7-Y4					.22	NO		7	
			J7-Z4	36				.22	NO			
F 118	1	3.00	J7-Y5					.22	NO		7	
			J7-Z5	37				.22	NO			
F 119	1	3.00	J7-Y6					.22	NO		7	
			J7-Z6	38				.22	NO			
F 120	1	3.00	J7-Y7					.22	NO		7	
			J7-Z7	39				.22	NO			

SIZE A	CODE IDENT NO. 99974	2901233
SCALE-NONE	REV LTR A	SHEET 14 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 121	1	3.00	J7-Y8					.22	NO		7	
			J7-Z8	40				.22	NO			
F 122	1	3.00	J7-Y9					.22	NO		7	
			J7-Z9	41				.22	NO			
F 123	1	3.00	J7-Y10					.22	NO		7	
			J7-Z10	42				.22	NO			
F 124	1	3.00	J7-Y11					.22	NO		7	
			J7-Z11	43				.22	NO			
F 125	1	3.00	J7-Y12					.22	NO		7	
			J7-Z12	44				.22	NO			
F 126	1	3.00	J7-Y13					.22	NO		7	
			J7-Z13	45				.22	NO			
F 127	1	3.00	J7-Y14					.22	NO		7	
			J7-Z14	46				.22	NO			
F 128	1	3.00	J7-Y15					.22	NO		7	
			J7-Z15	47				.22	NO			
F 129	1	3.00	J7-Y16					.22	NO		7	
			J7-Z16	48				.22	NO			
F 130	1	3.00	J7-Y17					.22	NO		7	
			J7-Z17	49				.22	NO			
F 131	1	3.00	J7-Y18					.22	NO		7	
			J7-Z18	50				.22	NO			
F 132	1	3.00	J7-Y19					.22	NO		7	
			J7-Z19	51				.22	NO			

SIZE A	CODE IDENT NO. 99974	2901233
SCALE-NONE	REV LTR A	SHEET 15 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 133	1	3.00	J7-Y20					.22	NO		7	
			J7-Z20	52				.22	NO			
F 134	1	3.00	J7-Y21					.22	NO		7	
			J7-Z21	53				.22	NO			
F 135	1	3.00	J7-Y22					.22	NO		7	
			J7-Z22	54				.22	NO			
F 136	1	3.00	J7-Y23					.22	NO		7	
			J7-Z23	55				.22	NO			
F 137	1	3.00	J7-Y24					.22	NO		7	
			J7-Z24	56				.22	NO			
F 138	1	3.00	J7-Y25					.22	NO		7	
			J7-Z25	57				.22	NO			
F 139	1	3.00	J7-Y26					.22	NO		7	
			J7-Z26	58				.22	NO			
F 140	1	3.00	J7-Y27					.22	NO		7	
			J7-Z27	59				.22	NO			
F 141	1	3.00	J7-Y28					.22	NO		7	
			J7-Z28	60				.22	NO			
F 142	1	3.00	J7-Y29					.22	NO		7	
			J7-Z29	61				.22	NO			
F 143	1	3.00	J7-Y30					.22	NO		7	
			J7-Z30	62				.22	NO			
F 144	1	3.00	J7-Y31					.22	NO		7	
			J7-Z31	63				.22	NO			

SIZE A	CODE IDENT NO. 99974	2901233
SCALE-NONE	REV LTR A	SHEET 16 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 145	1	3.00	J7-Y32					.22	NO		7	
			J7-Z32	64				.22	NO			
F 146	1	3.00	J7-Y33					.22	NO		7	
			J7-Z33	65				.22	NO			
F 147	1	3.00	J7-Y34					.22	NO		7	
			J7-Z34	66				.22	NO			
F 148	1	3.00	J7-Y35					.22	NO		7	
			J7-Z35	67				.22	NO			
F 149	1	3.00	J7-Y36					.22	NO		7	
			J7-Z36	68				.22	NO			
F 150	1	3.00	J7-Y37					.22	NO		7	
			J7-Z37	69				.22	NO			
F 151	1	3.00	J7-Y38					.22	NO		7	
			J7-Z38	70				.22	NO			
F 152	1	3.00	J7-Y39					.22	NO		7	
			J7-Z39	71				.22	NO			
F 153	1	3.00	J7-Y40					.22	NO		7	
			J7-Z40	72				.22	NO			
F 154	1	3.00	J7-Y41					.22	NO		7	
			J7-Z41	73				.22	NO			
F 155	1	3.00	J7-Y42					.22	NO		7	
			J7-Z42	74				.22	NO			
F 156	1	3.00	J7-Y43					.22	NO		7	
			J7-Z43	75				.22	NO			

SIZE A	CODE IDENT NO. 99974	2901233
SCALE-NONE	REV LTR A	SHEET 17 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 157	1	3.00	J7-Y44					.22	NO		7	
			J7-Z44	76				.22	NO			
F 158	1	3.00	J7-Y45					.22	NO		7	
			J7-Z45	77				.22	NO			
F 159	1	3.00	J7-Y46					.22	NO		7	
			J7-Z46	78				.22	NO			
F 160	1	3.00	J7-Y47					.22	NO		7	
			J7-Z47	79				.22	NO			
F 161	1	3.00	J7-Y48					.22	NO		7	
			J7-Z48	80				.22	NO			

SIZE	CODE IDENT NO.		
A	99974	2901233	
SCALE-NONE	REV LTR A		SHEET 18 OF 19

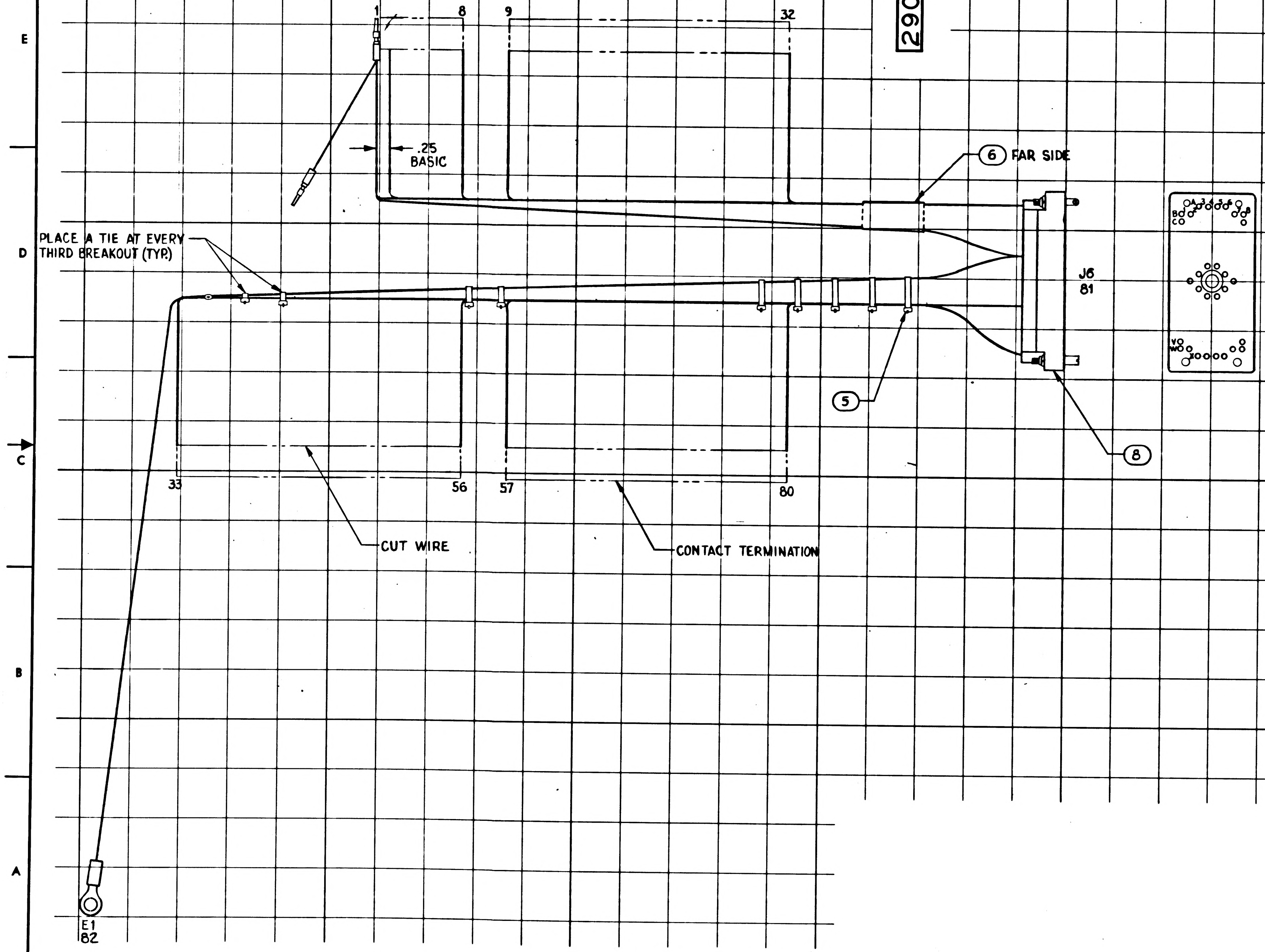
MIL 2084 9-65

2901233 REV LTR A

REVISIONS ZWR-28599

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET I FOR REVISION RECORD


1
8
9
32
.25
BASIC
6 FAR SIDE
PLACE A TIE AT EVERY
THIRD BREAKOUT (TYP.)
J6
81
5
8
33
56
57
80
CUT WIRE
CONTACT TERMINATION
E1
82
A
B
C
V
W

CODE IDENT NO.	SIZE	
99974	D	2901233
SCALE		SHEET 19 OF 19

MX 109894 D-0

2901233

REV LTR B

APPLICATION	
NEXT ASSY	USED ON
2901011-011	2901075-011

REVISIONS

CHANGE NUMBER	ZONE	LTR	DESCRIPTION	DATE	APPROVED
Ⓜ		A	INITIAL RELEASE CLASS A PER TDRR 28549	2 MAY 66	GM
		B	REVISED PER TDRR 29421	14-JUN 66	M.G.

REV																				
SHEET																				
REV STATUS OF SHEETS	REV	B	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D0.61680

DRAFTSMAN J. Parks 16 MAR 66 (DAY MO YR)
CHECKER 17 MAR 66
ENGINEER L. Royes 17 MAR 66
APPROVAL Gedeman 5/3/66
CONTR NO. NAS9497
DESIGN ACTIVITY APPROVAL MIT/IL 5 Jun
~~OTHER~~ NASA APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

WIRING HARNESS F

SIZE	CODE IDENT. NO.	
A	99974	2901233
SCALE NONE		SHEET 1 OF 19

MIL 1377A2 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	TIE HARNESS USING ITEM 5.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 5.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	NUMBER IN BRACKETS ARE QUANTITIES OF LEADS
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE REV LTR A SHEET 2 OF 19

NOTE NUMBER

GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE REV LTR A SHEET 3 OF 19

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901233-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG WHT 150 FT TOTAL LENGTH
	2	1	2901233-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHT 24 INCHES TOTAL LENGTH
	3	80	1016369-420	CONTACT, MALE
	4	80	1897399-001	CONTACT, ELEC TAPER
	5	55	1897406-005	STRAP, CABLE ADJUSTABLE
	6	1	1016128-011	BAND, IDENTIFICATION-BLANK
	7	80	1897399-002	CONTACT, ELEC TAPER
	8	1	1897335-001	CONNECTOR, RECP ELEC
	9	1	1015902-050	TERMINAL LUG
	10	1	1016369-720	CONTACT, MALE NO.16

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE REV LTR A SHEET 4 OF 19

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 1	1		J6-A3 J7-W17	81 1				.19 .22	NO NO		3 4	
F 2	1		J6-A4 J7-W18	81 2				.19 .22	NO NO		3 4	
F 3	1		J6-A5 J7-W19	81 3				.19 .22	NO NO		3 4	
F 4	1		J6-A6 J7-W20	81 4				.19 .22	NO NO		3 4	
F 5	1		J6-B1 J7-W21	81 5				.19 .22	NO NO		3 4	
F 6	1		J6-B2 J7-W22	81 6				.19 .22	NO NO		3 4	
F 7	1		J6-B3 J7-W23	81 7				.19 .22	NO NO		3 4	
F 8	1		J6-B4 J7-W24	81 8				.19 .22	NO NO		3 4	
F 9	1		J6-B5 J7-W25	81 9				.19 .22	NO NO		3 4	
F 10	1		J6-B6 J7-W26	81 10				.19 .22	NO NO		3 4	
F 11	1		J6-B7 J7-W27	81 11				.19 .22	NO NO		3 4	
F 12	1		J6-B8 J7-W28	81 12				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE REV LTR A SHEET 5 OF 19

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
F 13	1		J6-C1 J7-W29	81 13				.19 .22	NO NO		3 4	
F 14	1		J6-C2 J7-W30	81 14				.19 .22	NO NO		3 4	
F 15	1		J6-C3 J7-W31	81 15				.19 .22	NO NO		3 4	
F 16	1		J6-C4 J7-W32	81 16				.19 .22	NO NO		3 4	
F 17	1		J6-C5 J7-W33	81 17				.19 .22	NO NO		3 4	
F 18	1		J6-C6 J7-W34	81 18				.19 .22	NO NO		3 4	
F 19	1		J6-C7 J7-W35	81 19				.19 .22	NO NO		3 4	
F 20	1		J6-C6 J7-W36	81 20				.19 .22	NO NO		3 4	
F 21	1		J6-D1 J7-W37	81 21				.19 .22	NO NO		3 4	
F 22	1		J6-D2 J7-W38	81 22				.19 .22	NO NO		3 4	
F 23	1		J6-D3 J7-W39	81 23				.19 .22	NO NO		3 4	
F 24	1		J6-D4 J7-W40	81 24				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE
REV LTR A
SHEET 6 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
F 25	1		J6-D5 J7-W41	81 25				.19 .22	NO NO		3 4	
F 26	1		J6-D6 J7-W42	81 26				.19 .22	NO NO		3 4	
F 27	1		J6-D7 J7-W43	81 27				.19 .22	NO NO		3 4	
F 28	1		J6-D8 J7-W44	81 28				.19 .22	NO NO		3 4	
F 29	1		J6-E1 J7-W45	81 29				.19 .22	NO NO		3 4	
F 30	1		J6-E2 J7-W46	81 30				.19 .22	NO NO		3 4	
F 31	1		J6-E3 J7-W47	81 31				.19 .22	NO NO		3 4	
F 32	1		J6-E4 J7-W48	81 32				.19 .22	NO NO		3 4	
F 33	1		J6-E5 J7-Z1	81 33				.19 .22	NO NO		3 4	
F 34	1		J6-E6 J7-Z2	81 34				.19 .22	NO NO		3 4	
F 35	1		J6-E7 J7-Z3	81 35				.19 .22	NO NO		3 4	
F 36	1		J6-E8 J7-Z4	81 36				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE
REV LTR A
SHEET 7 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
F 37	1		J6-F1 J7-Z5	81 37				.19 .22	NO NO		3 4	
F 38	1		J6-F2 J7-Z6	81 38				.19 .22	NO NO		3 4	
F 39	1		J6-F3 J7-Z7	81 39				.19 .22	NO NO		3 4	
F 40	1		J6-F4 J7-Z8	81 40				.19 .22	NO NO		3 4	
F 41	1		J6-F5 J7-Z9	81 41				.19 .22	NO NO		3 4	
F 42	1		J6-F6 J7-Z10	81 42				.19 .22	NO NO		3 4	
F 43	1		J6-F7 J7-Z11	81 43				.19 .22	NO NO		3 4	
F 44	1		J6-F8 J7-Z12	81 44				.19 .22	NO NO		3 4	
F 45	1		J6-G1 J7-Z13	81 45				.19 .22	NO NO		3 4	
F 46	1		J6-G2 J7-Z14	81 46				.19 .22	NO NO		3 4	
F 47	1		J6-G3 J7-Z15	81 47				.19 .22	NO NO		3 4	
F 48	1		J6-G4 J7-Z16	81 48				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE
REV LTR A
SHEET 8 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
F 49	1		J6-G5 J7-Z17	81 49				.19 .22	NO NO		3 4	
F 50	1		J6-G6 J7-Z18	81 50				.19 .22	NO NO		3 4	
F 51	1		J6-G7 J7-Z19	81 51				.19 .22	NO NO		3 4	
F 52	1		J6-G8 J7-Z20	81 52				.19 .22	NO NO		3 4	
F 53	1		J6-H1 J7-Z21	81 53				.19 .22	NO NO		3 4	
F 54	1		J6-H2 J7-Z22	81 54				.19 .22	NO NO		3 4	
F 55	1		J6-H3 J7-Z23	81 55				.19 .22	NO NO		3 4	
F 56	1		J6-H4 J7-Z24	81 56				.19 .22	NO NO		3 4	
F 57	1		J6-H5 J7-Z25	81 57				.19 .22	NO NO		3 4	
F 58	1		J6-H6 J7-Z26	81 58				.19 .22	NO NO		3 4	
F 59	1		J6-H7 J7-Z27	81 59				.19 .22	NO NO		3 4	
F 60	1		J6-H8 J7-Z28	81 60				.19 .22	NO NO		3 4	

SIZE A
CODE IDENT NO. 99974
2901233
SCALE-NONE
REV LTR A
SHEET 9 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 61	1		J6-J1	81				.19	NO		3	
			J7-Z29	61				.22	NO		4	
F 62	1		J6-J2	81				.19	NO		3	
			J7-Z30	62				.22	NO		4	
F 63	1		J6-J3	81				.19	NO		3	
			J7-Z31	63				.22	NO		4	
F 64	1		J6-J4	81				.19	NO		3	
			J7-Z32	64				.22	NO		4	
F 65	1		J6-J5	81				.19	NO		3	
			J7-Z33	65				.22	NO		4	
F 66	1		J6-J6	81				.19	NO		3	
			J7-Z34	66				.22	NO		4	
F 67	1		J6-J7	81				.19	NO		3	
			J7-Z35	67				.22	NO		4	
F 68	1		J6-J8	81				.19	NO		3	
			J7-Z36	68				.22	NO		4	
F 69	1		J6-K1	81				.19	NO		3	
			J7-Z37	69				.22	NO		4	
F 70	1		J6-K2	81				.19	NO		3	
			J7-Z38	70				.22	NO		4	
F 71	1		J6-K3	81				.19	NO		3	
			J7-Z39	71				.22	NO		4	
F 72	1		J6-K6	81				.19	NO		3	
			J7-Z40	72				.22	NO		4	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 10 OF 19

WIRING HARNESS F 2901233 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 73	1		J6-K7	81				.19	NO		3	
			J7-Z41	73				.22	NO		4	
F 74	1		J6-K8	81				.19	NO		3	
			J7-Z42	74				.22	NO		4	
F 75	1		J6-L1	81				.19	NO		3	
			J7-Z43	75				.22	NO		4	
F 76	1		J6-L2	81				.19	NO		3	
			J7-Z44	76				.22	NO		4	
F 77	1		J6-L7	81				.19	NO		3	
			J7-Z45	77				.22	NO		4	
F 78	1		J6-L8	81				.19	NO		3	
			J7-Z46	78				.22	NO		4	
F 79	1		J6-X4	81				.19	NO		3	
			J7-Z47	79				.22	NO		4	
F 80	1		J6-X5	81				.19	NO		3	
			J7-Z48	80				.22	NO		4	
F 81	2		J6-X6	81				.19	NO		10	
			E1	82				.22	NO		9	
F 82	1	3.00	J7-V17					.22	NO		7	
			J7-W17	1				.22	NO			
F 83	1	3.00	J7-V18					.22	NO		7	
			J7-W18	2				.22	NO			
F 84	1	3.00	J7-V19					.22	NO		7	
			J7-W19	3				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR B	SHEET 11 OF 19

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 85	1	3.00	J7-V20					.22	NO		7	
			J7-W20	4				.22	NO			
F 86	1	3.00	J7-V21					.22	NO		7	
			J7-W21	5				.22	NO			
F 87	1	3.00	J7-V22					.22	NO		7	
			J7-W22	6				.22	NO			
F 88	1	3.00	J7-V23					.22	NO		7	
			J7-W23	7				.22	NO			
F 89	1	3.00	J7-V24					.22	NO		7	
			J7-W24	8				.22	NO			
F 90	1	3.00	J7-V25					.22	NO		7	
			J7-W25	9				.22	NO			
F 91	1	3.00	J7-V26					.22	NO		7	
			J7-W26	10				.22	NO			
F 92	1	3.00	J7-V27					.22	NO		7	
			J7-W27	11				.22	NO			
F 93	1	3.00	J7-V28					.22	NO		7	
			J7-W28	12				.22	NO			
F 94	1	3.00	J7-V29					.22	NO		7	
			J7-W29	13				.22	NO			
F 95	1	3.00	J7-V30					.22	NO		7	
			J7-W30	14				.22	NO			
F 96	1	3.00	J7-V31					.22	NO		7	
			J7-W31	15				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 12 OF 19

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 97	1	3.00	J7-V32					.22	NO		7	
			J7-W32	16				.22	NO			
F 98	1	3.00	J7-V33					.22	NO		7	
			J7-W33	17				.22	NO			
F 99	1	3.00	J7-V34					.22	NO		7	
			J7-W34	18				.22	NO			
F 100	1	3.00	J7-V35					.22	NO		7	
			J7-W35	19				.22	NO			
F 101	1	3.00	J7-V36					.22	NO		7	
			J7-W36	20				.22	NO			
F 102	1	3.00	J7-V37					.22	NO		7	
			J7-W37	21				.22	NO			
F 103	1	3.00	J7-V38					.22	NO		7	
			J7-W38	22				.22	NO			
F 104	1	3.00	J7-V39					.22	NO		7	
			J7-W39	23				.22	NO			
F 105	1	3.00	J7-V40					.22	NO		7	
			J7-W40	24				.22	NO			
F 106	1	3.00	J7-V41					.22	NO		7	
			J7-W41	25				.22	NO			
F 107	1	3.00	J7-V42					.22	NO		7	
			J7-W42	26				.22	NO			
F 108	1	3.00	J7-V43					.22	NO		7	
			J7-W43	27				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 13 OF 19

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 109	1	3.00	J7-V44 J7-W44	 28				.22 .22	NO NO		7	
F 110	1	3.00	J7-V45 J7-W45	 29				.22 .22	NO NO		7	
F 111	1	3.00	J7-V46 J7-W46	 30				.22 .22	NO NO		7	
F 112	1	3.00	J7-V47 J7-W47	 31				.22 .22	NO NO		7	
F 113	1	3.00	J7-V48 J7-W48	 32				.22 .22	NO NO		7	
F 114	1	3.00	J7-Y1 J7-Z1	 33				.22 .22	NO NO		7	
F 115	1	3.00	J7-Y2 J7-Z2	 34				.22 .22	NO NO		7	
F 116	1	3.00	J7-Y3 J7-Z3	 35				.22 .22	NO NO		7	
F 117	1	3.00	J7-Y4 J7-Z4	 36				.22 .22	NO NO		7	
F 118	1	3.00	J7-Y5 J7-Z5	 37				.22 .22	NO NO		7	
F 119	1	3.00	J7-Y6 J7-Z6	 38				.22 .22	NO NO		7	
F 120	1	3.00	J7-Y7 J7-Z7	 39				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 14 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 121	1	3.00	J7-Y8 J7-Z8	 40				.22 .22	NO NO		7	
F 122	1	3.00	J7-Y9 J7-Z9	 41				.22 .22	NO NO		7	
F 123	1	3.00	J7-Y10 J7-Z10	 42				.22 .22	NO NO		7	
F 124	1	3.00	J7-Y11 J7-Z11	 43				.22 .22	NO NO		7	
F 125	1	3.00	J7-Y12 J7-Z12	 44				.22 .22	NO NO		7	
F 126	1	3.00	J7-Y13 J7-Z13	 45				.22 .22	NO NO		7	
F 127	1	3.00	J7-Y14 J7-Z14	 46				.22 .22	NO NO		7	
F 128	1	3.00	J7-Y15 J7-Z15	 47				.22 .22	NO NO		7	
F 129	1	3.00	J7-Y16 J7-Z16	 48				.22 .22	NO NO		7	
F 130	1	3.00	J7-Y17 J7-Z17	 49				.22 .22	NO NO		7	
F 131	1	3.00	J7-Y18 J7-Z18	 50				.22 .22	NO NO		7	
F 132	1	3.00	J7-Y19 J7-Z19	 51				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 15 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 133	1	3.00	J7-Y20 J7-Z20	 52				.22 .22	NO NO		7	
F 134	1	3.00	J7-Y21 J7-Z21	 53				.22 .22	NO NO		7	
F 135	1	3.00	J7-Y22 J7-Z22	 54				.22 .22	NO NO		7	
F 136	1	3.00	J7-Y23 J7-Z23	 55				.22 .22	NO NO		7	
F 137	1	3.00	J7-Y24 J7-Z24	 56				.22 .22	NO NO		7	
F 138	1	3.00	J7-Y25 J7-Z25	 57				.22 .22	NO NO		7	
F 139	1	3.00	J7-Y26 J7-Z26	 58				.22 .22	NO NO		7	
F 140	1	3.00	J7-Y27 J7-Z27	 59				.22 .22	NO NO		7	
F 141	1	3.00	J7-Y28 J7-Z28	 60				.22 .22	NO NO		7	
F 142	1	3.00	J7-Y29 J7-Z29	 61				.22 .22	NO NO		7	
F 143	1	3.00	J7-Y30 J7-Z30	 62				.22 .22	NO NO		7	
F 144	1	3.00	J7-Y31 J7-Z31	 63				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 16 OF 19

MIL 2084 9-65

WIRING HARNESS F 2901233 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 145	1	3.00	J7-Y32 J7-Z32	 64				.22 .22	NO NO		7	
F 146	1	3.00	J7-Y33 J7-Z33	 65				.22 .22	NO NO		7	
F 147	1	3.00	J7-Y34 J7-Z34	 66				.22 .22	NO NO		7	
F 148	1	3.00	J7-Y35 J7-Z35	 67				.22 .22	NO NO		7	
F 149	1	3.00	J7-Y36 J7-Z36	 68				.22 .22	NO NO		7	
F 150	1	3.00	J7-Y37 J7-Z37	 69				.22 .22	NO NO		7	
F 151	1	3.00	J7-Y38 J7-Z38	 70				.22 .22	NO NO		7	
F 152	1	3.00	J7-Y39 J7-Z39	 71				.22 .22	NO NO		7	
F 153	1	3.00	J7-Y40 J7-Z40	 72				.22 .22	NO NO		7	
F 154	1	3.00	J7-Y41 J7-Z41	 73				.22 .22	NO NO		7	
F 155	1	3.00	J7-Y42 J7-Z42	 74				.22 .22	NO NO		7	
F 156	1	3.00	J7-Y43 J7-Z43	 75				.22 .22	NO NO		7	

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR A	SHEET 17 OF 19

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
F 157	1	3.00	J7-Y44					.22	NO		7	
			J7-Z44	76				.22	NO			
F 158	1	3.00	J7-Y45					.22	NO		7	
			J7-Z45	77				.22	NO			
F 159	1	3.00	J7-Y46					.22	NO		7	
			J7-Z46	78				.22	NO			
F 160	1	3.00	J7-Y47					.22	NO		7	
			J7-Z47	79				.22	NO			
F 161	1	3.00	J7-Y48					.22	NO		7	
			J7-Z48	80				.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901233
SCALE-NONE	REV LTR 1A	SHEET 18 OF 19

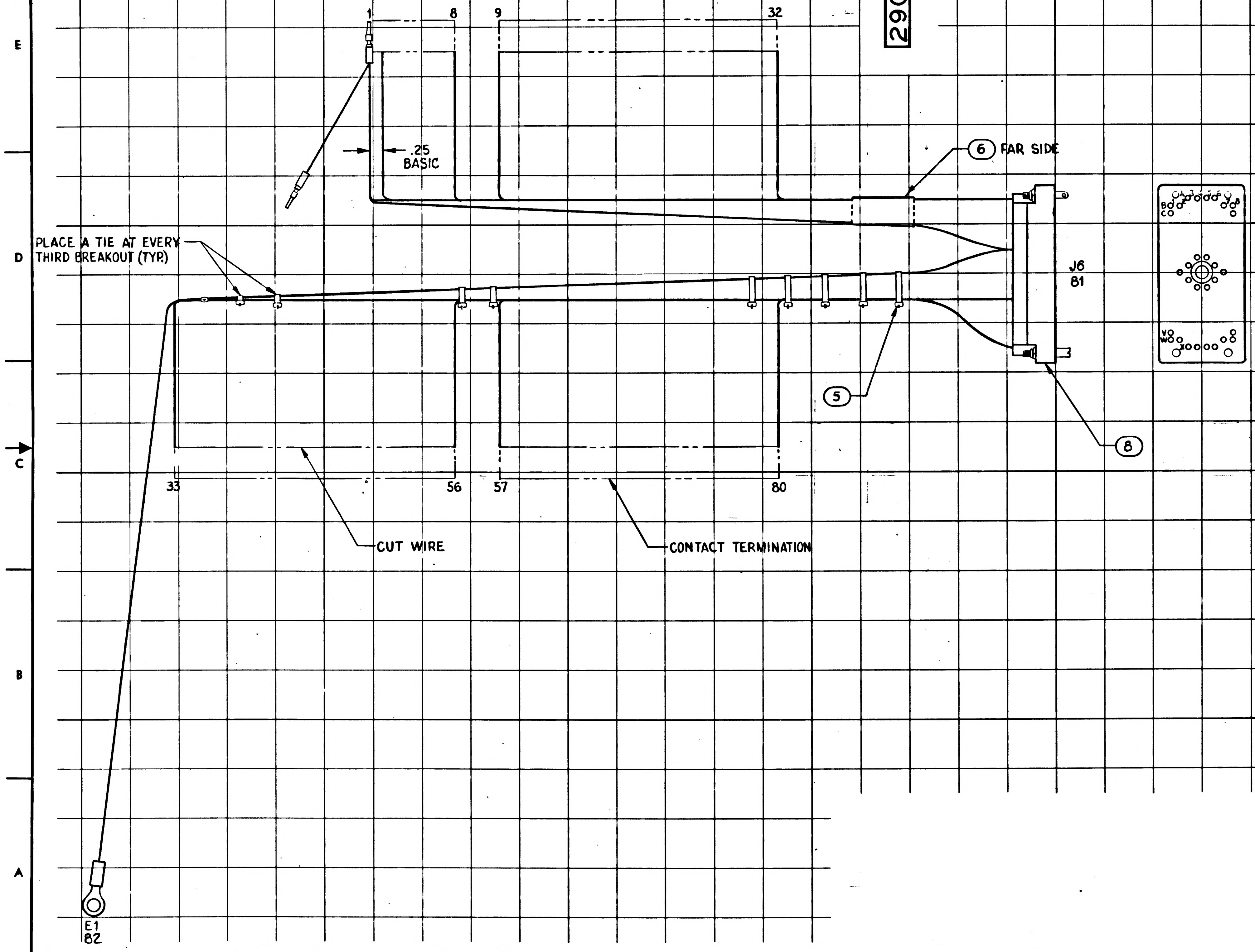
2901233 REV LTR A

SYM	ZONE	DESCRIPTION	DATE	APPD.

REVISIONS ZWR-28519

CHG NO.

SEE SHEET I FOR REVISION RECORD



1
8
9
32
.25
BASIC
6
FAR SIDE
PLACE A TIE AT EVERY
THIRD BREAKOUT (TYP.)
J6
81
5
8
33
56
57
80
CUT WIRE
CONTACT TERMINATION
E1
82

CODE IDENT NO.	SIZE	
99974	D	2901233
SCALE		SHEET 19 OF 19

MX 109894 D-0

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2930895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61871	4 APR 66	FRW
B	REVISED PER MXC 211538	22 APR 66	RLP / JRS
C	REVISED PER MXC 211987.	3 MAY 66	R.W.T. / J.E.G.
D	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY 66	GM / EF

Charleston 25 MAR 66

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

REV STATUS OF SHEETS															
REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66
DAY MO YR
CHECKER 24 MAR 66
ENGINEER 25 Mar 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" & "50" PSAAM

SIZE A
CODE IDENT. NO 99974
2901236
SCALE NONE
SHEET 1 OF 32

MIL 1377A6 12-65

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 15.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

10 SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 23 OR ITEMS 21 AND 22.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 7, 8 AND 10.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 ASSEMBLE PER ND1002032.

14 SERIALIZE PER ND1002032.

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR D
SHEET 2 OF 32

NOTE NUMBER — GENERAL NOTES DESCRIPTION

15 ITEM 13 SUPPLIED WITH ITEM 3 THRU 6 AND ITEM 9.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GRUMMET USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.

17 MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR D
SHEET 3 OF 32

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901236-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, 358 FT TOTAL LENGTH
	2	1	2901236-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 60 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR, ELECTRICAL
	7	10	2980274-001	CONNECTOR, ELECTRICAL
7	8	10	1897169-001	CONNECTOR, ELECTRICAL
	9	1	MS3126F20-41P	(1897043-410) CONNECTOR, ELECTRICAL
	10	1	1896913-001	CONNECTOR, ELECTRICAL
7	11	166	1010738-006	CONTACT SOCKET
7	12	166	1010738-005	CONTACT PIN
15	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	14	30	1016128-011	BAND IDENTIFICATION
7	15	AR	1012507-004	TAPE LACING AND TYING
	16	AR	MIL-I-631	TYPE F, FORM T (BLACK, GRADE A CLASS 1, .62 WIDE, .02 THICK)
7	17	9	1016006-001	SPLICE REDUCER

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR D
SHEET 4 OF 32

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	4	1016006-002	SPLICE REDUCER
7	19	9	1010490-228	INSULATION SLEEVING
7	20	4	1010490-258	INSULATION SLEEVING
	21	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	22	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	23	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	24	1	1897107-080	CONNECTOR, ELECTRICAL
	25	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR D
SHEET 5 OF 32

CABLE ASSEMBLY 2901236 D 0

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		E1 P196-14					.37 .10	NO NO		 12	
A	2	1		E2 P197-1					.37 .10	NO NO		 12	
A	3	1		E3 P12-1					.37 .10	NO NO		 11	
A	4	1		E4 P205-3					.37 .10	NO NO		 12	
A	5	1		E5 P20-23					.37 .10	NO NO		 11	
A	6	1		E8 P205-2					.37 .10	NO NO		 12	
A	7	1		E8 P205-10					.37 .10	NO NO		 12	
A	8	1		E8 P205-11					.37 .10	NO NO		 12	
A	9	1		E8 P205-17					.37 .10	NO NO		 12	
A	10	1		E8 P205-24					.37 .10	NO NO		 12	
A	11	1		E5 P20-31					.37 .10	NO NO		 11	
A	12	1		E8 P205-32					.37 .10	NO NO		 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR 0 D | SHEET 6 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D 0

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	2		P2-X P21-C					.22 .22	NO NO		13 13	
A	14	2		P2-Y P21-A					.22 .22	NO NO		13 13	
A	15	1		E6 P11-34					.37 .10	NO NO		 11	
A	16	1		E6 P13-2					.37 .10	NO NO		 11	
A	17	1		E6 P13-3					.37 .10	NO NO		 11	
A	18	1		E6 P14-2					.37 .10	NO NO		 11	
A	19	1		E7 P11-26					.37 .10	NO NO		 11	
A	20	1		E7 P13-1					.37 .10	NO NO		 11	
A	21	1		E7 P14-1					.37 .10	NO NO		 11	
A	22	1		P196-3 P196-4					.10 .10	NO NO		12 12	
A	23	1		P11-4 P11-12					.10 .10	NO NO		11 11	
A	24	1		P196-12 P196-32					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR 0 D | SHEET 7 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D 0

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		P11-32 P11-33					.10 .10	NO NO		11 11	
A	26	1		P196-33 P197-9					.10 .10	NO NO		12 12	
A	27	1		P12-9 P12-13					.10 .10	NO NO		11 11	
A	28	1		P197-13 P197-14					.10 .10	NO NO		12 12	
A	29	1		P12-14 P12-15					.10 .10	NO NO		11 11	
A	30	1		P197-15 P197-20					.10 .10	NO NO		12 12	
A	31	1		P12-20 P12-21					.10 .10	NO NO		11 11	
A	32	1		P197-21 P198-23					.10 .10	NO NO		12 12	
A	33	1		P13-23 P13-24					.10 .10	NO NO		11 11	
A	34	1		P198-24 P198-31					.10 .10	NO NO		12 12	
A	35	1		P13-31 P13-32					.10 .10	NO NO		11 11	
A	36	1		P198-32 P199-23					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR 0 D | SHEET 8 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D 0

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1		P14-23 P14-31					.10 .10	NO NO		11 11	
A	38	1		P199-31 P200-20					.10 .10	NO NO		12 12	
A	39	1		P15-20 P15-21					.10 .10	NO NO		11 11	
A	40	1		P200-21 P200-23					.10 .10	NO NO		12 12	
A	41	1		P15-23 P15-24					.10 .10	NO NO		11 11	
A	42	1		P200-24 P200-25					.10 .10	NO NO		12 12	
A	43	1		P15-25 P15-27					.10 .10	NO NO		11 11	
A	44	1		P200-27 P200-28					.10 .10	NO NO		12 12	
A	45	1		P15-28 P15-31					.10 .10	NO NO		11 11	
A	46	1		P200-31 P200-32					.10 .10	NO NO		12 12	
A	47	1		P15-32 P15-33					.10 .10	NO NO		11 11	
A	48	1		P200-33 P200-35					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR 0 D | SHEET 9 OF 32

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35 P15-36					.10 .10	NO NO		11 11	
A 50	1		P200-36 P201-2					.10 .10	NO NO		12 12	
A 51	1		P16-2 P16-25					.10 .10	NO NO		11 11	
A 52	1		P201-25 P201-26					.10 .10	NO NO		12 12	
A 53	1		P16-26 P16-33					.10 .10	NO NO		11 11	
A 54	1		P201-33 P201-34					.10 .10	NO NO		12 12	
A 55	1		P16-34 P17-1					.10 .10	NO NO		11 11	
A 56	1		P202-1 P202-2					.10 .10	NO NO		12 12	
A 57	1		P17-2 P17-3					.10 .10	NO NO		11 11	
A 58	1		P202-3 P202-4					.10 .10	NO NO		12 12	
A 59	1		P17-4 P17-5					.10 .10	NO NO		11 11	
A 60	1		P202-5 P202-6					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR ~~B~~D | SHEET 10 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6 P17-9					.10 .10	NO NO		11 11	
A 62	1		P202-9 P202-10					.10 .10	NO NO		12 12	
A 63	1		P17-10 P17-12					.10 .10	NO NO		11 11	
A 64	1		P202-12 P202-13					.10 .10	NO NO		12 12	
A 65	1		P17-13 P17-17					.10 .10	NO NO		11 11	
A 66	1		P202-17 P202-18					.10 .10	NO NO		12 12	
A 67	1		P17-18 P18-1					.10 .10	NO NO		11 11	
A 68	1		P203-1 P203-2					.10 .10	NO NO		12 12	
A 69	1		P18-2 P18-3					.10 .10	NO NO		11 11	
A 70	1		P203-3 P203-6					.10 .10	NO NO		12 12	
A 71	1		P18-6 P18-7					.10 .10	NO NO		11 11	
A 72	1		P203-7 P203-8					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR ~~B~~D | SHEET 11 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8 P18-9					.10 .10	NO NO		11 11	
A 74	1		P203-9 P203-10					.10 .10	NO NO		12 12	
A 75	1		P18-10 P18-11					.10 .10	NO NO		11 11	
A 76	1		P203-11 P203-12					.10 .10	NO NO		12 12	
A 77	1		P18-12 P18-13					.10 .10	NO NO		11 11	
A 78	1		P203-13 P203-14					.10 .10	NO NO		12 12	
A 79	1		P18-14 P18-15					.10 .10	NO NO		11 11	
A 80	1		P203-15 P203-20					.10 .10	NO NO		12 12	
A 81	1		P18-20 P18-21					.10 .10	NO NO		11 11	
A 82	1		P203-21 P203-23					.10 .10	NO NO		12 12	
A 83	1		P18-23 P18-25					.10 .10	NO NO		11 11	
A 84	1		P203-25 P203-26					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR ~~B~~D | SHEET 12 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26 P18-33					.10 .10	NO NO		11 11	
A 86	1		P203-33 P203-34					.10 .10	NO NO		12 12	
A 87	1		P18-34 P18-35					.10 .10	NO NO		11 11	
A 88	1		P203-35 P203-36					.10 .10	NO NO		12 12	
A 89	1		P18-36 P19-1					.10 .10	NO NO		11 11	
A 90	1		P204-1 P204-2					.10 .10	NO NO		12 12	
A 91	1		P19-2 P19-9					.10 .10	NO NO		11 11	
A 92	1		P204-9 P204-10					.10 .10	NO NO		12 12	
A 93	1		P19-10 P19-11					.10 .10	NO NO		11 11	
A 94	1		P204-11 P204-13					.10 .10	NO NO		12 12	
A 95	1		P19-13 P19-14					.10 .10	NO NO		11 11	
A 96	1		P204-14 P204-17					.10 .10	NO NO		12 12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR ~~B~~D | SHEET 13 OF 32

CABLE ASSEMBLY 2901236 D ¢

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		11	
			P19-18					.10	NO		11	
A 98	1		P204-18					.10	NO		12	
			P204-19					.10	NO		12	
A 99	1		P19-19					.10	NO		11	
			P19-20					.10	NO		11	
A 100	1		P204-20					.10	NO		12	
			P204-21					.10	NO		12	
A 101	1		P19-21					.10	NO		11	
			P19-23					.10	NO		11	
A 102	1		P204-23					.10	NO		12	
			P204-24					.10	NO		12	
A 103	1		P19-24					.10	NO		11	
			P19-27					.10	NO		11	
A 104	1		P204-27					.10	NO		12	
			P204-28					.10	NO		12	
A 105	1		P19-28					.10	NO		11	
			P20-5					.10	NO		11	
A 106	1		P205-16					.10	NO		12	
			P205-6					.10	NO		12	
A 107	1		P20-6					.10	NO		11	
			P20-7					.10	NO		11	
A 108	1		P205-7					.10	NO		12	
			P205-8					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ¢ D	SHEET 14 OF 32

CABLE ASSEMBLY 2901236 D ¢

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		11	
			P20-13					.10	NO		11	
A 110	1		P205-13					.10	NO		12	
			P205-14					.10	NO		12	
A 111	1		P20-14					.10	NO		11	
			P20-19					.10	NO		11	
A 112	1		P205-19					.10	NO		12	
			P205-20					.10	NO		12	
A 113	1		P20-20					.10	NO		11	
			P20-21					.10	NO		11	
A 114	1		P205-21					.10	NO		12	
			P205-27					.10	NO		12	
A 115	1		P20-27					.10	NO		11	
			P20-28					.10	NO		11	
A 116	1		P205-28					.10	NO		12	
			P205-35					.10	NO		12	
A 117	1		P20-35					.10	NO		11	
			P20-36					.10	NO		11	
A 118	1		P205-36					.10	NO		12	
			P19-3					.10	NO		11	
A 119	1		P203-27					.10	NO		12	
			P203-28					.10	NO		12	
A 120	1		P2-B					.22	NO		13	
			E5					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ¢ D	SHEET 15 OF 32

CABLE ASSEMBLY 2901236 D ¢

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P2-F					.22	NO		13	
			E5					.37	NO			
A 122	1		P2-F*					.22	NO		13	
			P201-35					.10	NO		12	
A 123	1		P2-G*					.22	NO		13	
			P201-36					.10	NO		12	
A 124	1		P2-H*					.22	NO		13	
			P16-35					.10	NO		11	
A 125	1		P2-I*					.22	NO		13	
			P16-36					.10	NO		11	
A 126	1		P2-K*					.22	NO		13	
			E5					.37	NO			
A 127	1		P2-LL					.22	NO		13	
			P201-9					.10	NO		12	
A 128	1		P2-MM					.22	NO		13	
			P201-1					.10	NO		12	
A 129	1		P2-NN					.22	NO		13	
			P16-9					.10	NO		11	
A 130	1		P2-PP					.22	NO		13	
			P16-1					.10	NO		11	
A 131	1		P7-F* ~~P3-A~~					.22	NO		13	
			P201-10					~~.15~~ .10	NO		12	
A 132	2		P7-G* ~~P3-B~~					.22	NO		13	
			P2-MM					.22	NO		~~[illegible]~~	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ¢ D	SHEET 16 OF 32

CABLE ASSEMBLY 2901236 D ¢

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-H* ~~P3-G~~					.22	NO		13	
			P16-10					.10	NO		11	
A 134	1		P7-J* ~~P3-E~~					.22	NO		13	
			P205-34					.10	NO		12	
A 135	1		P7-K* ~~P3-F~~					.22	NO		13	
			P205-26					.10	NO		12	
A 136	1		P7-M* ~~P3-D~~					.22	NO		13	
			P20-34					.10	NO		~~12~~ 11	
A 137	1		P7-N* ~~P3-H~~					.22	NO		13	
			P20-26					.10	NO		11	
A 138	1		P3-J					.22	NO		13	
			P197-28					.10	NO		12	
A 139	1		P3-K					.22	NO		13	
			P197-27					.10	NO		12	
A 140	1		P3-L					.22	NO		13	
			P12-28					.10	NO		11	
A 141	1		P3-M					.22	NO		13	
			P12-27					.10	NO		11	
A 142	1		P3-N					.22	NO		13	
			P197-36					.10	NO		12	
A 143	1		P3-P					.22	NO		13	
			P197-35					.10	NO		12	
A 144	1		P3-R					.22	NO		13	
			P12-36					.10	NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ¢ D	SHEET 17 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-D* ~~P6-V~~ P12-17					.22 .10	NO NO		13 11	
A 194	1		P7-E* ~~P6-W~~ E3					.22 .37	NO NO		13	
A 195	1		P6-X P197-18					.22 .10	NO NO		13 12	
A 196	1		P6-Y E2					.22 .37	NO NO		13	
A 197	1		P6-Z P12-18					.22 .10	NO NO		13 11	
A 198	1		P6-A* E3					.22 .37	NO NO		13	
A 199	1		P6-B* P200-9					.22 .10	NO NO		13 12	
A 200	1		P6-C* P200-1					.22 .10	NO NO		13 12	
A 201	1		P6-D* P15-9					.22 .10	NO NO		13 11	
A 202	1		P6-E* P15-1					.22 .10	NO NO		13 11	
A 203	1		P6-F* P200-17					.22 .10	NO NO		13 12	
A 204	1		P6-G* P200-29					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR ¢D	SHEET 22 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-H* P15-17					.22 .10	NO NO		13 11	
A 206	2		P6-I* P6-E*					.22 .22	NO NO		13 ~~13~~	
A 207	1		P6-J* P202-7					.22 .10	NO NO		13 12	
A 208	1		P6-K* P202-8					.22 .10	NO NO		13 12	
A 209	1		P6-M* P17-7					.22 .10	NO NO		13 11	
A 210	1		P6-N* P17-8					.22 .10	NO NO		13 11	
A 211	1		P6-P* P202-20					.22 .10	NO NO		13 12	
A 212	1		P6-Q* P202-21					.22 .10	NO NO		13 12	
A 213	1		P6-R* P17-20					.22 .10	NO NO		13 11	
A 214	1		P6-S* P17-21					.22 .10	NO NO		13 11	
A 215	1		P6-T* P202-27					.22 .10	NO NO		13 12	
A 216	1		P6-U* P202-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR øD	SHEET 23 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P6-V* P17-27					.22 .10	NO NO		13 11	
A 218	1		P6-W* P17-28					.22 .10	NO NO		13 11	
A 219	1		P6-X* P202-35					.22 .10	NO NO		13 12	
A 220	1		P6-Y* P202-36					.22 .10	NO NO		13 12	
A 221	1		P6-Z* P17-35					.22 .10	NO NO		13 11	
A 222	1		P6-AA P17-36					.22 .10	NO NO		13 11	
A 223	1		P6-BB P201-20					.22 .10	NO NO		13 12	
A 224	1		P6-CC P201-21					.22 .10	NO NO		13 12	
A 225	1		P6-DD P16-20					.22 .10	NO NO		13 11	
A 226	1		P6-EE P16-21					.22 .10	NO NO		13 11	
A 227	1		P6-FF P201-27					.22 .10	NO NO		13 12	
A 228	1		P6-GG P201-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR øD	SHEET 24 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P6-HH P16-27					.22 .10	NO NO		13 11	
A 230	1		P6-JJ P16-28					.22 .10	NO NO		13 11	
A 231	1		P8-B E5					.22 .37	NO NO		13	
A 232	1		P8-K E5					.22 .37	NO NO		13	
A 233	1		P8-P E5					.22 .37	NO NO		13	
A 234	1		P8-T P2-X					.22 .22	NO NO		13 ~~13~~	
A 235	1		P8-U P2-Y					.22 .22	NO NO		13 ~~13~~	
A 236	1		P9-A P205-5					.22 .10	NO NO		13 12	
A 237	1		P9-B E4					.22 .37	NO NO		13	
A 238	1		P9-C P20-10					.22 .10	NO NO		13 11	
A 239	1		P9-E P205-9					.22 .10	NO NO		13 12	
A 240	1		P9-F E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR øD	SHEET 25 OF 32

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-G P20-11					.22 .10	NO NO		13 11	
A 242	1		P9-B* P205-12					.22 .10	NO NO		13 12	
A 243	1		P9-C* E4					.22 .37	NO NO		13	
A 244	1		P9-D* P20-17					.22 .10	NO NO		13 11	
A 245	1		P9-F* P205-18					.22 .10	NO NO		13 12	
A 246	1		P9-G* E4					.22 .37	NO NO		13	
A 247	1		P9-H* P20-32					.22 .10	NO NO		13 11	
A 248	1		P9-J* P196-18					.22 .10	NO NO		13 12	
A 249	1		P9-M* P11-18					.22 .10	NO NO		13 12	
A 250	1		P9-P* P196-17					.22 .10	NO NO		13 12	
A 251	1		P9-Q* P196-26					.22 .10	NO NO		13 12	
A 252	1		P9-R* P11-17					.22 .10	NO NO		13 11	

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR ~~C~~D
SHEET 26 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-S* E7					.22 .37	NO NO		13	
A 254	1		P9-T* P205-15					.22 .10	NO NO		13 12	
A 255	1		P9-U* E4					.22 .37	NO NO		13	
A 256	1		P9-V* P20-24					.22 .10	NO NO		13 11	
A 257	1		P9-X* P205-4					.22 .10	NO NO		13 12	
A 258	1		P9-Y* E4					.22 .37	NO NO		13	
A 259	1		P9-Z* P20-2					.22 .10	NO NO		13 11	
A 260	1		P9-FF P206-A					.22 .10 ~~.20~~	NO YES		13	
A 261	1		P9-GG P206-B					.22 .10 ~~.20~~	NO YES		13	
A 262	1		P9-JJ P199-16					.22 .10	NO NO		13 12	
A 263	1		P9-NN P199-17					.22 .10	NO NO		13 12	
A 264	1		E5 E8					.37 .37	NO NO			

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR ~~C~~D
SHEET 27 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P13-8 E9					.10 .37	NO NO		11	
A 266	1		P13-16 E9					.10 .37	NO NO		11	
A 267	1		P13-22 E9					.10 .37	NO NO		11	
A 268	1		P13-30 E9					.10 .37	NO NO		11	
A 269	1		P13-38 E9					.10 .37	NO NO		11	
A 270	1		P14-8 E10					.10 .37	NO NO		11	
A 271	1		P14-16 E10					.10 .37	NO NO		11	
A 272	1		P14-22 E10					.10 .37	NO NO		11	
A 273	1		P14-30 E10					.10 .37	NO NO		11	
A 274	1		P14-38 E10					.10 .37	NO NO		11	
A 275	1		P198-7 E11					.10 .37	NO NO		12	
A 276	1		P198-15 E11					.10 .37	NO NO		12	

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR ~~C~~D
SHEET 28 OF 32

2084

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P198-36 E11					.10 .37	NO NO		12	
A 278	1		P198-37 E11					.10 .37	NO NO		12	
A 279	1		P2-U* P207-Y					.22 .25	NO YES		13	
A 280	1		P207-G E12					.25 .37	YES NO			
A 281	1		P207-H E12					.25 .37	YES NO			
A 282	1		P207-M E12					.25 .37	YES NO			
A 283	1		P207-S E12					.25 .37	YES NO			
A 284	1		P207-Z E12					.25 .37	YES NO			
A 285	1		P21-C* E13					.22 .37	NO NO		13	
A 286	1		P21-D* E13					.22 .37	NO NO		13	
A 287	1		P21-E* E13					.22 .37	NO NO		13	
A 288	1		P21-F* E13					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901236
SCALE-NONE
REV LTR ~~C~~D
SHEET 29 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P21-G* E13					.22 .37	NO NO		13	
A 290	1		P4-F* P207-K					.22 .25	NO YES		13	
A 291	1		P4-G* P4-I*					.22 .22	NO NO		13 13	
A 292	1		P4-H* P207-B*					.22 .25	NO YES		13	
A 293	1		P207-F P21-H					.25 .22	YES NO		 13	
A 294	1		P21-K P21-X					.22 .22	NO NO		13 13	
A 295	1		P207-L P207-V					.25 .25	YES YES			
A 296	1		P21-U P21-M					.22 .22	NO NO		13 13	
A 297	1		P207-B P207-A					.25 .25	YES YES			
A 298	1		P21-P P21-S					.22 .22	NO NO		13 13	
A 299	1		P207-D P207-U					.25 .25	YES YES			
A 300	1		P21-W P21-Z					.22 .22	NO NO		13 13	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR ~~C~~ D | SHEET 30 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901236 D ~~C~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P4-K* P21-G					.22 .22	NO NO		13 13	
A 302	1		P4-J* P21-Y					.22 .22	NO NO		13 13	
A 303	1		P21-J P21-L					.22 .22	NO NO		13 13	
A 304	1		P21-T P21-N					.22 .22	NO NO		13 13	
A 305	1		P21-R P21-V					.22 .22	NO NO		13 13	
A 306	2		P7-I* P2-PP					.22 .22	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR ~~C~~ D | SHEET 31 OF 32

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD

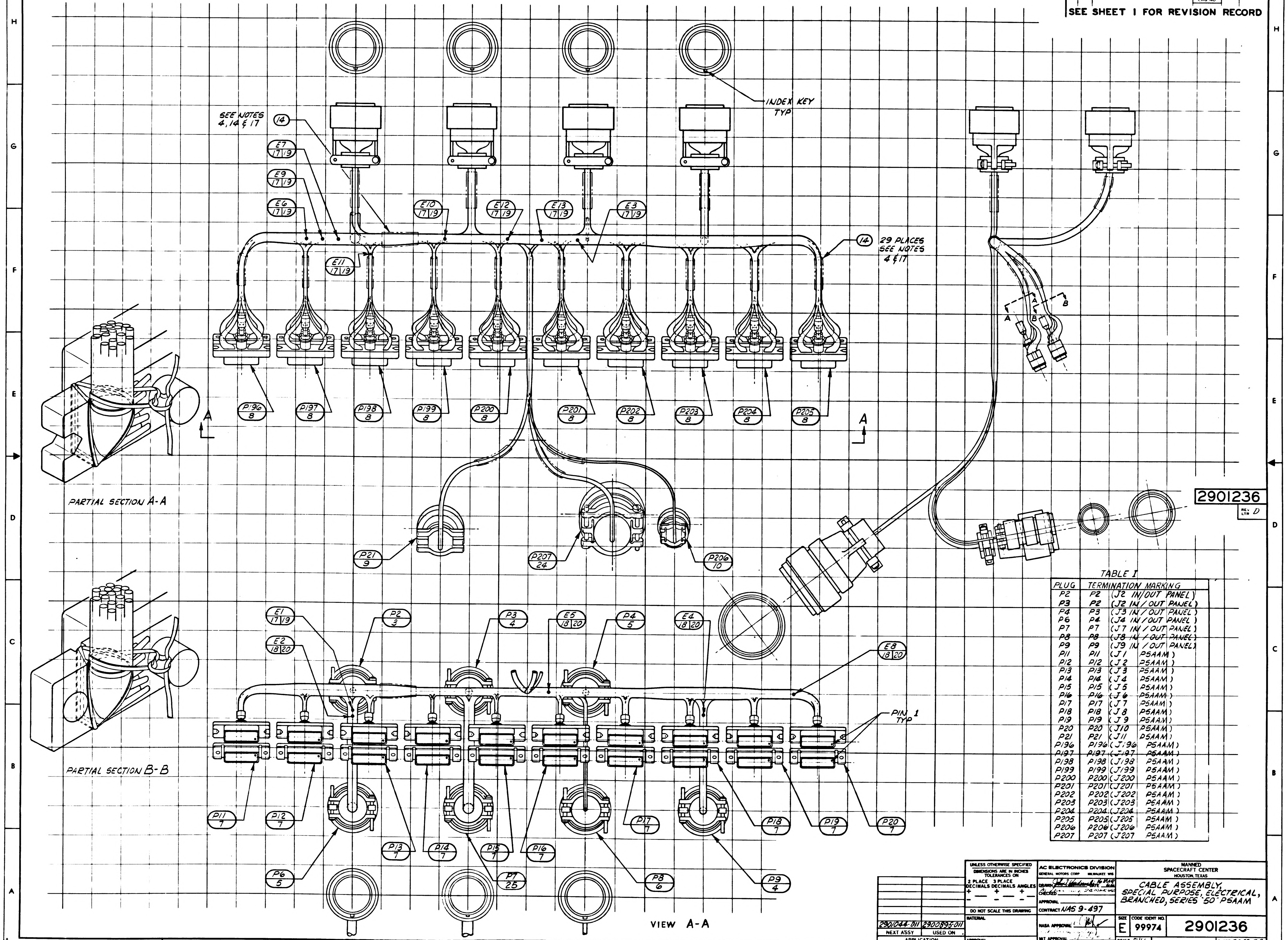

SEE NOTES 4,14 & 17
14
E7 17 19
E9 17 19
E6 17 19
E10 17 19
E11 17 19
E12 17 19
E13 17 19
E3 17 19
INDEX KEY TYP
14 29 PLACES SEE NOTES 4 & 17
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
A
B
PARTIAL SECTION A-A
PARTIAL SECTION B-B
P21 9
P207 24
P206 10
2901236
REV LTR D
E1 17 19
E2 18 20
P2 3
P3 4
E5 18 20
P4 5
E4 18 20
E8 18 20
PIN 1 TYP
P11 7
P12 7
P13 7
P14 7
P15 7
P16 7
P17 7
P18 7
P19 7
P20 7
P6 5
P7 25
P8 6
P9 4
VIEW A-A

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P2 (J2 IN / OUT PANEL)
P4	P3 (J3 IN / OUT PANEL)
P6	P4 (J4 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

NEXT ASSY	USED ON
2901044-011	2900895-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John J. Kudomski DATE 16 MAR 66
CHECKED 24 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "50" PSAAM

SIZE E CODE IDENT NO. 99974 2901236
SCALE FULL SHEET 2 OF 32

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61871	4 APR 66	FRW / mlm
B	REVISED PER MXC 211538	22 APR 66	RLP / JRS
C	REVISED PER MXC 211987.	3 MAY 66	R.W.T. / J.E.G.
D	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY 66	GM / EF
E	REVISED PER TDRR 29226	8 JUN 66	J.K.

M

Charleston 25 MAR 66

REV		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E						
SHEET		15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33						
REV STATUS OF SHEETS	REV											E	E	E	E	E	E	E	E	E	E	E	E	E	E	
	SHEET											1	2	3	4	5	6	7	8	9	10	11	12	13	14	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Kudrnka 16 MAR 66
DAY MO YR
CHECKER M. Manning 24 MAR 66
ENGINEER L. Pionimi 25 Mar 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" & "50" PSAAM

SIZE A
CODE IDENT. NO 99974
2901236
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 15.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

10 SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 23 OR ITEMS 21 AND 22.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 7, 8 AND 10.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 ASSEMBLE PER ND1002032.

14 SERIALIZE PER ND1002032.

NOTE GENERAL NOTES

NUMBER DESCRIPTION

15 ITEM 13 SUPPLIED WITH ITEM 3 THRU 6 AND ITEM 9.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.

17 MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901236-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, 366 FT TOTAL LENGTH
	2	1	2901236-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 74 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR, ELECTRICAL
	7	10	2900274-001	CONNECTOR, ELECTRICAL
7	8	10	1897169-001	CONNECTOR, ELECTRICAL
	9	1	MS3126F20-41P	(1897043-410) CONNECTOR, ELECTRICAL
	10	1	1896913-001	CONNECTOR, ELECTRICAL
7	11	166	1010738-006	CONTACT SOCKET
7	12	172	1010738-005	CONTACT PIN
15	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	14	30	1016128-011	BAND IDENTIFICATION
7	15	AR	1012507-004	TAPE LACING AND TYING
	16	AR	MIL-I-631	TYPE F, FORM T (BLACK, GRADE A CLASS 1, .62 WIDE, .02 THICK)
7	17	9	1016006-001	SPLICE REDUCER

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	4	1016006-002	SPLICE REDUCER
7	19	9	1010490-228	INSULATION SLEEVING
7	20	4	1010490-258	INSULATION SLEEVING
	21	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	22	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	23	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	24	1	1897107-080	CONNECTOR, ELECTRICAL
	25	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P196-14					.10	NO		12	
A 2	1		E2					.37	NO			
			P197-1					.10	NO		12	
A 3	1		E3					.37	NO			
			P12-1					.10	NO		11	
A 4	1		E4					.37	NO			
			P205-3					.10	NO		12	
A 5	1		E5					.37	NO			
			P20-23					.10	NO		11	
A 6	1		[illegible]					.37	NO			
			P205-2					.10	NO		12	
A 7	1		E8					.37	NO			
			P205-10					.10	NO		12	
A 8	1		E8					.37	NO			
			P205-11					.10	NO		12	
A 9	1		[illegible]					.37	NO			
			P205-17					.10	NO		12	
A 10	1		E8					.37	NO			
			P205-24					.10	NO		12	
A 11	1		E5					.37	NO			
			P20-31					.10	NO		11	
A 12	1		E8					.37	NO			
			P205-32					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR E	SHEET 6 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	2		P2-X					.22	NO			
			P21-C					.22	NO		13	
A 14	2		P2-Y					.22	NO			
			P21-A					.22	NO		13	
A 15	1		E6					.37	NO			
			P11-34					.10	NO		11	
A 16	1		E6					.37	NO			
			P13-2					.10	NO		11	
A 17	1		E6					.37	NO			
			P13-3					.10	NO		11	
A 18	1		E6					.37	NO			
			P14-2					.10	NO		11	
A 19	1		E7					.37	NO			
			P11-26					.10	NO		11	
A 20	1		E7					.37	NO			
			P13-1					.10	NO		11	
A 21	1		E7					.37	NO			
			P14-1					.10	NO		11	
A 22	1		P196-3					.10	NO		12	
			P196-4					.10	NO		12	
A 23	1		P11-4					.10	NO		11	
			P11-12					.10	NO		11	
A 24	1		P196-12					.10	NO		12	
			P196-32					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR E	SHEET 7 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32					.10	NO		11	
			P11-33					.10	NO		11	
A 26	1		P196-33					.10	NO		12	
			P197-9					.10	NO		12	
A 27	1		P12-9					.10	NO		11	
			P12-13					.10	NO		11	
A 28	1		P197-13					.10	NO		12	
			P197-14					.10	NO		12	
A 29	1		P12-14					.10	NO		11	
			P12-15					.10	NO		11	
A 30	1		P197-15					.10	NO		12	
			P197-20					.10	NO		12	
A 31	1		P12-20					.10	NO		11	
			P12-21					.10	NO		11	
A 32	1		P197-21					.10	NO		12	
			P198-23					.10	NO		12	
A 33	1		P13-23					.10	NO		11	
			P13-24					.10	NO		11	
A 34	1		P198-24					.10	NO		12	
			P198-31					.10	NO		12	
A 35	1		P13-31					.10	NO		11	
			P13-32					.10	NO		11	
A 36	1		P198-32					.10	NO		12	
			P199-23					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR E	SHEET 8 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23					.10	NO		11	
			P14-31					.10	NO		11	
A 38	1		P199-31					.10	NO		12	
			P200-20					.10	NO		12	
A 39	1		P15-20					.10	NO		11	
			P15-21					.10	NO		11	
A 40	1		P200-21					.10	NO		12	
			P200-23					.10	NO		12	
A 41	1		P15-23					.10	NO		11	
			P15-24					.10	NO		11	
A 42	1		P200-24					.10	NO		12	
			P200-25					.10	NO		12	
A 43	1		P15-25					.10	NO		11	
			P15-27					.10	NO		11	
A 44	1		P200-27					.10	NO		12	
			P200-28					.10	NO		12	
A 45	1		P15-28					.10	NO		11	
			P15-31					.10	NO		11	
A 46	1		P200-31					.10	NO		12	
			P200-32					.10	NO		12	
A 47	1		P15-32					.10	NO		11	
			P15-33					.10	NO		11	
A 48	1		P200-33					.10	NO		12	
			P200-35					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR E	SHEET 9 OF 33	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35 P15-36					.10 .10	NO NO		11 11	
A 50	1		P200-36 P201-2					.10 .10	NO NO		12 12	
A 51	1		P16-2 P16-25					.10 .10	NO NO		11 11	
A 52	1		P201-25 P201-26					.10 .10	NO NO		12 12	
A 53	1		P16-26 P16-33					.10 .10	NO NO		11 11	
A 54	1		P201-33 P201-34					.10 .10	NO NO		12 12	
A 55	1		P16-34 P17-1					.10 .10	NO NO		11 11	
A 56	1		P202-1 P202-2					.10 .10	NO NO		12 12	
A 57	1		P17-2 P17-3					.10 .10	NO NO		11 11	
A 58	1		P202-3 P202-4					.10 .10	NO NO		12 12	
A 59	1		P17-4 P17-5					.10 .10	NO NO		11 11	
A 60	1		P202-5 P202-6					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 10 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6 P17-9					.10 .10	NO NO		11 11	
A 62	1		P202-9 P202-10					.10 .10	NO NO		12 12	
A 63	1		P17-10 P17-12					.10 .10	NO NO		11 11	
A 64	1		P202-12 P202-13					.10 .10	NO NO		12 12	
A 65	1		P17-13 P17-17					.10 .10	NO NO		11 11	
A 66	1		P202-17 P202-18					.10 .10	NO NO		12 12	
A 67	1		P17-18 P18-1					.10 .10	NO NO		11 11	
A 68	1		P203-1 P203-2					.10 .10	NO NO		12 12	
A 69	1		P18-2 P18-3					.10 .10	NO NO		11 11	
A 70	1		P203-3 P203-6					.10 .10	NO NO		12 12	
A 71	1		P18-6 P18-7					.10 .10	NO NO		11 11	
A 72	1		P203-7 P203-8					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 11 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8 P18-9					.10 .10	NO NO		11 11	
A 74	1		P203-9 P203-10					.10 .10	NO NO		12 12	
A 75	1		P18-10 P18-11					.10 .10	NO NO		11 11	
A 76	1		P203-11 P203-12					.10 .10	NO NO		12 12	
A 77	1		P18-12 P18-13					.10 .10	NO NO		11 11	
A 78	1		P203-13 P203-14					.10 .10	NO NO		12 12	
A 79	1		P18-14 P18-15					.10 .10	NO NO		11 11	
A 80	1		P203-15 P203-20					.10 .10	NO NO		12 12	
A 81	1		P18-20 P18-21					.10 .10	NO NO		11 11	
A 82	1		P203-21 P203-23					.10 .10	NO NO		12 12	
A 83	1		P18-23 P18-25					.10 .10	NO NO		11 11	
A 84	1		P203-25 P203-26					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 12 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26 P18-33					.10 .10	NO NO		11 11	
A 86	1		P203-33 P203-34					.10 .10	NO NO		12 12	
A 87	1		P18-34 P18-35					.10 .10	NO NO		11 11	
A 88	1		P203-35 P203-36					.10 .10	NO NO		12 12	
A 89	1		P18-36 P19-1					.10 .10	NO NO		11 11	
A 90	1		P204-1 P204-2					.10 .10	NO NO		12 12	
A 91	1		P19-2 P19-9					.10 .10	NO NO		11 11	
A 92	1		P204-9 P204-10					.10 .10	NO NO		12 12	
A 93	1		P19-10 P19-11					.10 .10	NO NO		11 11	
A 94	1		P204-11 P204-13					.10 .10	NO NO		12 12	
A 95	1		P19-13 P19-14					.10 .10	NO NO		11 11	
A 96	1		P204-14 P204-17					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 13 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		11	
			P19-18					.10	NO		11	
A 98	1		P204-18					.10	NO		12	
			P204-19					.10	NO		12	
A 99	1		P19-19					.10	NO		11	
			P19-20					.10	NO		11	
A 100	1		P204-20					.10	NO		12	
			P204-21					.10	NO		12	
A 101	1		P19-21					.10	NO		11	
			P19-23					.10	NO		11	
A 102	1		P204-23					.10	NO		12	
			P204-24					.10	NO		12	
A 103	1		P19-24					.10	NO		11	
			P19-27					.10	NO		11	
A 104	1		P204-27					.10	NO		12	
			P204-28					.10	NO		12	
A 105	1		P19-28					.10	NO		11	
			P20-5					.10	NO		11	
A 106	1		P205-16					.10	NO		12	
			P205-6					.10	NO		12	
A 107	1		P20-6					.10	NO		11	
			P20-7					.10	NO		11	
A 108	1		P205-7					.10	NO		12	
			P205-8					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 14 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		11	
			P20-13					.10	NO		11	
A 110	1		P205-13					.10	NO		12	
			P205-14					.10	NO		12	
A 111	1		P20-14					.10	NO		11	
			P20-19					.10	NO		11	
A 112	1		P205-19					.10	NO		12	
			P205-20					.10	NO		12	
A 113	1		P20-20					.10	NO		11	
			P20-21					.10	NO		11	
A 114	1		P205-21					.10	NO		12	
			P205-27					.10	NO		12	
A 115	1		P20-27					.10	NO		11	
			P20-28					.10	NO		11	
A 116	1		P205-28					.10	NO		12	
			P205-35					.10	NO		12	
A 117	1		P20-35					.10	NO		11	
			P20-36					.10	NO		11	
A 118	1		P205-36					.10	NO		12	
			P19-3					.10	NO		11	
A 119	1		P203-27					.10	NO		12	
			P203-28					.10	NO		12	
A 120	1		P2-8					.22	NO		13	
			E5					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 15 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P2-F					.22	NO		13	
			E5					.37	NO			
A 122	1		P2-F*					.22	NO		13	
			P201-35					.10	NO		12	
A 123	1		P2-G*					.22	NO		13	
			P201-36					.10	NO		12	
A 124	1		P2-H*					.22	NO		13	
			P16-35					.10	NO		11	
A 125	1		P2-I*					.22	NO		13	
			P16-36					.10	NO		11	
A 126	1		P2-K*					.22	NO		13	
			E5					.37	NO			
A 127	1		P2-LL					.22	NO		13	
			P201-9					.10	NO		12	
A 128	1		P2-MM					.22	NO		13	
			P201-1					.10	NO		12	
A 129	1		P2-NN					.22	NO		13	
			P16-9					.10	NO		11	
A 130	1		P2-PP					.22	NO		13	
			P16-1					.10	NO		11	
A 131	1		P7-F*					.22	NO		13	
			P201-10					.10	NO		12	
A 132	2		P7-G*					.22	NO		13	
			P2-MM					.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 16 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-H*					.22	NO		13	
			P16-10					.10	NO		11	
A 134	1		P7-J*					.22	NO		13	
			P205-34					.10	NO		12	
A 135	1		P7-K*					.22	NO		13	
			P205-26					.10	NO		12	
A 136	1		P7-M*					.22	NO		13	
			P20-34					.10	NO		12	
A 137	1		P7-N*					.22	NO		13	
			P20-26					.10	NO		11	
A 138	1		P3-J					.22	NO		13	
			P197-28					.10	NO		12	
A 139	1		P3-K					.22	NO		13	
			P197-27					.10	NO		12	
A 140	1		P3-L					.22	NO		13	
			P12-28					.10	NO		11	
A 141	1		P3-M					.22	NO		13	
			P12-27					.10	NO		11	
A 142	1		P3-N					.22	NO		13	
			P197-36					.10	NO		12	
A 143	1		P3-P					.22	NO		13	
			P197-35					.10	NO		12	
A 144	1		P3-R					.22	NO		13	
			P12-36					.10	NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 17 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P3-S P12-35					.22 .10	NO NO		13 11	
A 146	1		P3-T P196-20					.22 .10	NO NO		13 12	
A 147	1		P3-U P196-21					.22 .10	NO NO		13 12	
A 148	1		P3-V P11-20					.22 .10	NO NO		13 11	
A 149	1		P3-W P11-21					.22 .10	NO NO		13 11	
A 150	1		P3-X P196-27					.22 .10	NO NO		13 12	
A 151	1		P3-Y P196-28					.22 .10	NO NO		13 12	
A 152	1		P3-Z P11-27					.22 .10	NO NO		13 11	
A 153	1		P3-A* P11-29					.22 .10	NO NO		13 11	
A 154	1		P3-B* P196-35					.22 .10	NO NO		13 12	
A 155	1		P3-C* P196-36					.22 .10	NO NO		13 12	
A 156	1		P3-D* P11-35					.22 .10	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 18 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P3-E* P11-36					.22 .10	NO NO		13 11	
A 158	1		P4-A P202-14					.22 .10	NO NO		13 12	
A 159	1		P4-B P202-15					.22 .10	NO NO		13 12	
A 160	1		P4-C P17-14					.22 .10	NO NO		13 11	
A 161	1		P4-D P17-15					.22 .10	NO NO		13 11	
A 162	1		P4-M P199-18					.22 .10	NO NO		13 12	
A 163	1		P4-S P199-19					.22 .10	NO NO		13 12	
A 164	1		P4-T P11-23					.22 .10	NO NO		13 11	
A 165	1		P4-U E5					.22 .37	NO NO		13	
A 166	1		P4-W P199-20					.22 .10	NO NO		13 12	
A 167	1		P4-X P11-24					.22 .10	NO NO		13 11	
A 168	1		P4-A* P199-21					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 19 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P4-B* P11-31					.22 .10	NO NO		13 11	
A 170	1		P4-E* P199-22					.22 .10	NO NO		13 12	
A 171	1		P4-T* P2-V					.22 .22	NO NO		13 13	
A 172	1		P4-U* P2-W					.22 .22	NO NO		13 13	
A 173	1		P4-V* E6					.22 .37	NO NO		13	
A 174	1		P4-W* E7					.22 .37	NO NO		13	
A 175	1		P4-X* P19-12					.22 .10	NO NO		13 11	
A 176	1		P4-Z* P11-3					.22 .10	NO NO		13 11	
A 177	1		P6-A P196-7					.22 .10	NO NO		13 12	
A 178	1		P6-B E1					.22 .37	NO NO		13	
A 179	1		P6-C P11-7					.22 .10	NO NO		13 11	
A 180	1		P6-E P196-6					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 20 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-F E1					.22 .37	NO NO		13	
A 182	1		P6-G P11-6					.22 .10	NO NO		13 11	
A 183	1		P6-J P196-13					.22 .10	NO NO		13 12	
A 184	1		P6-K E1					.22 .37	NO NO		13	
A 185	1		P6-L P11-13					.22 .10	NO NO		13 11	
A 186	1		P6-M P11-14					.22 .10	NO NO		13 11	
A 187	1		P6-N P197-10					.22 .10	NO NO		13 12	
A 188	1		P6-P E2					.22 .37	NO NO		13	
A 189	1		P6-R P12-10					.22 .10	NO NO		13 11	
A 190	1		P6-S E3					.22 .37	NO NO		13	
A 191	1		P7-B* P197-17					.22 .10	NO NO		13 12	
A 192	1		P7-C* E2					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 21 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-D* P12-17					.22 .10	NO NO		13 11	
A 194	1		P7-E* E3					.22 .37	NO NO		13	
A 195	1		P6-X P197-18					.22 .10	NO NO		13 12	
A 196	1		P6-Y E2					.22 .37	NO NO		13	
A 197	1		P6-Z P12-18					.22 .10	NO NO		13 11	
A 198	1		P6-A* E3					.22 .37	NO NO		13	
A 199	1		P6-B* P200-9					.22 .10	NO NO		13 12	
A 200	1		P6-C* P200-1					.22 .10	NO NO		13 12	
A 201	1		P6-D* P15-9					.22 .10	NO NO		13 11	
A 202	1		P6-E* P15-1					.22 .10	NO NO		13 11	
A 203	1		P6-F* P200-17					.22 .10	NO NO		13 12	
A 204	1		P6-G* P200-29					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 22 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-H* P15-17					.22 .10	NO NO		13 11	
A 206	2		P6-I* P6-E*					.22 .22	NO NO		13 13	
A 207	1		P6-J* P202-7					.22 .10	NO NO		13 12	
A 208	1		P6-K* P202-8					.22 .10	NO NO		13 12	
A 209	1		P6-M* P17-7					.22 .10	NO NO		13 11	
A 210	1		P6-N* P17-8					.22 .10	NO NO		13 11	
A 211	1		P6-P* P202-20					.22 .10	NO NO		13 12	
A 212	1		P6-Q* P202-21					.22 .10	NO NO		13 12	
A 213	1		P6-R* P17-20					.22 .10	NO NO		13 11	
A 214	1		P6-S* P17-21					.22 .10	NO NO		13 11	
A 215	1		P6-T* P202-27					.22 .10	NO NO		13 12	
A 216	1		P6-U* P202-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 23 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P6-V* P17-27					.22 .10	NO NO		13 11	
A 218	1		P6-W* P17-28					.22 .10	NO NO		13 11	
A 219	1		P6-X* P202-35					.22 .10	NO NO		13 12	
A 220	1		P6-Y* P202-36					.22 .10	NO NO		13 12	
A 221	1		P6-Z* P17-35					.22 .10	NO NO		13 11	
A 222	1		P6-AA P17-36					.22 .10	NO NO		13 11	
A 223	1		P6-BB P201-20					.22 .10	NO NO		13 12	
A 224	1		P6-CC P201-21					.22 .10	NO NO		13 12	
A 225	1		P6-DD P16-20					.22 .10	NO NO		13 11	
A 226	1		P6-EE P16-21					.22 .10	NO NO		13 11	
A 227	1		P6-FF P201-27					.22 .10	NO NO		13 12	
A 228	1		P6-GG P201-28					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 24 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P6-HH P16-27					.22 .10	NO NO		13 11	
A 230	1		P6-JJ P16-28					.22 .10	NO NO		13 11	
A 231	1		P8-B E5					.22 .37	NO NO		13	
A 232	1		P8-K E5					.22 .37	NO NO		13	
A 233	1		P8-P E5					.22 .37	NO NO		13	
A 234	1		P8-T P2-X					.22 .22	NO NO		13 13	
A 235	1		P8-U P2-Y					.22 .22	NO NO		13 13	
A 236	1		P9-A P205-5					.22 .10	NO NO		13 12	
A 237	1		P9-B E4					.22 .37	NO NO		13	
A 238	1		P9-C P20-10					.22 .10	NO NO		13 11	
A 239	1		P9-E P205-9					.22 .10	NO NO		13 12	
A 240	1		P9-F E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR F	SHEET 25 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-6 P20-11					.22 .10	NO NO		13 11	
A 242	1		P9-B* P205-12					.22 .10	NO NO		13 12	
A 243	1		P9-C* E4					.22 .37	NO NO		13	
A 244	1		P9-D* P20-17					.22 .10	NO NO		13 11	
A 245	1		P9-F* P205-18					.22 .10	NO NO		13 12	
A 246	1		P9-G* E4					.22 .37	NO NO		13	
A 247	1		P9-H* P20-32					.22 .10	NO NO		13 11	
A 248	1		P9-J* P196-18					.22 .10	NO NO		13 12	
A 249	1		P9-M* P11-18					.22 .10	NO NO		13 12	
A 250	1		P9-P* P196-17					.22 .10	NO NO		13 12	
A 251	1		P9-Q* P196-26					.22 .10	NO NO		13 12	
A 252	1		P9-R* P11-17					.22 .10	NO NO		13 11	

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 26 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-S* E7					.22 .37	NO NO		13	
A 254	1		P9-T* P205-15					.22 .10	NO NO		13 12	
A 255	1		P9-U* E4					.22 .37	NO NO		13	
A 256	1		P9-V* P20-24					.22 .10	NO NO		13 11	
A 257	1		P9-X* P205-4					.22 .10	NO NO		13 12	
A 258	1		P9-Y* E4					.22 .37	NO NO		13	
A 259	1		P9-Z* P20-2					.22 .10	NO NO		13 11	
A 260	1		P9-FF P206-A					.22 .20	NO YES		13	
A 261	1		P9-GG P206-B					.22 .20	NO YES		13	
A 262	1		P9-JJ P199-16					.22 .10	NO NO		13 12	
A 263	1		P9-NN P199-17					.22 .10	NO NO		13 12	
A 264	1		E[illegible] E[illegible]					.37 .37	NO NO			

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 27 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P13-8 E9					.10 .37	NO NO		11	
A 266	1		P13-16 E9					.10 .37	NO NO		11	
A 267	1		P13-22 E9					.10 .37	NO NO		11	
A 268	1		P13-30 E9					.10 .37	NO NO		11	
A 269	1		P13-38 E9					.10 .37	NO NO		11	
A 270	1		P14-8 E10					.10 .37	NO NO		11	
A 271	1		P14-16 E10					.10 .37	NO NO		11	
A 272	1		P14-22 E10					.10 .37	NO NO		11	
A 273	1		P14-30 E10					.10 .37	NO NO		11	
A 274	1		P14-38 E10					.10 .37	NO NO		11	
A 275	1		P198-7 E11					.10 .37	NO NO		12	
A 276	1		P198-15 E11					.10 .37	NO NO		12	

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 28 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P198-36 E11					.10 .37	NO NO		12	
A 278	1		P198-37 E11					.10 .37	NO NO		12	
A 279	1		P2-U* P207-Y					.22 .25	NO YES		13	
A 280	1		P207-G E12					.25 .37	YES NO			
A 281	1		P207-H E12					.25 .37	YES NO			
A 282	1		P207-M E12					.25 .37	YES NO			
A 283	1		P207-S E12					.25 .37	YES NO			
A 284	1		P207-Z E12					.25 .37	YES NO			
A 285	1		P21-C* E13					.22 .37	NO NO		13	
A 286	1		P21-D* E13					.22 .37	NO NO		13	
A 287	1		P21-E* E13					.22 .37	NO NO		13	
A 288	1		P21-F* E13					.22 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901236
SCALE-NONE	REV LTR E	SHEET 29 OF 33

MIL 2084 9-65

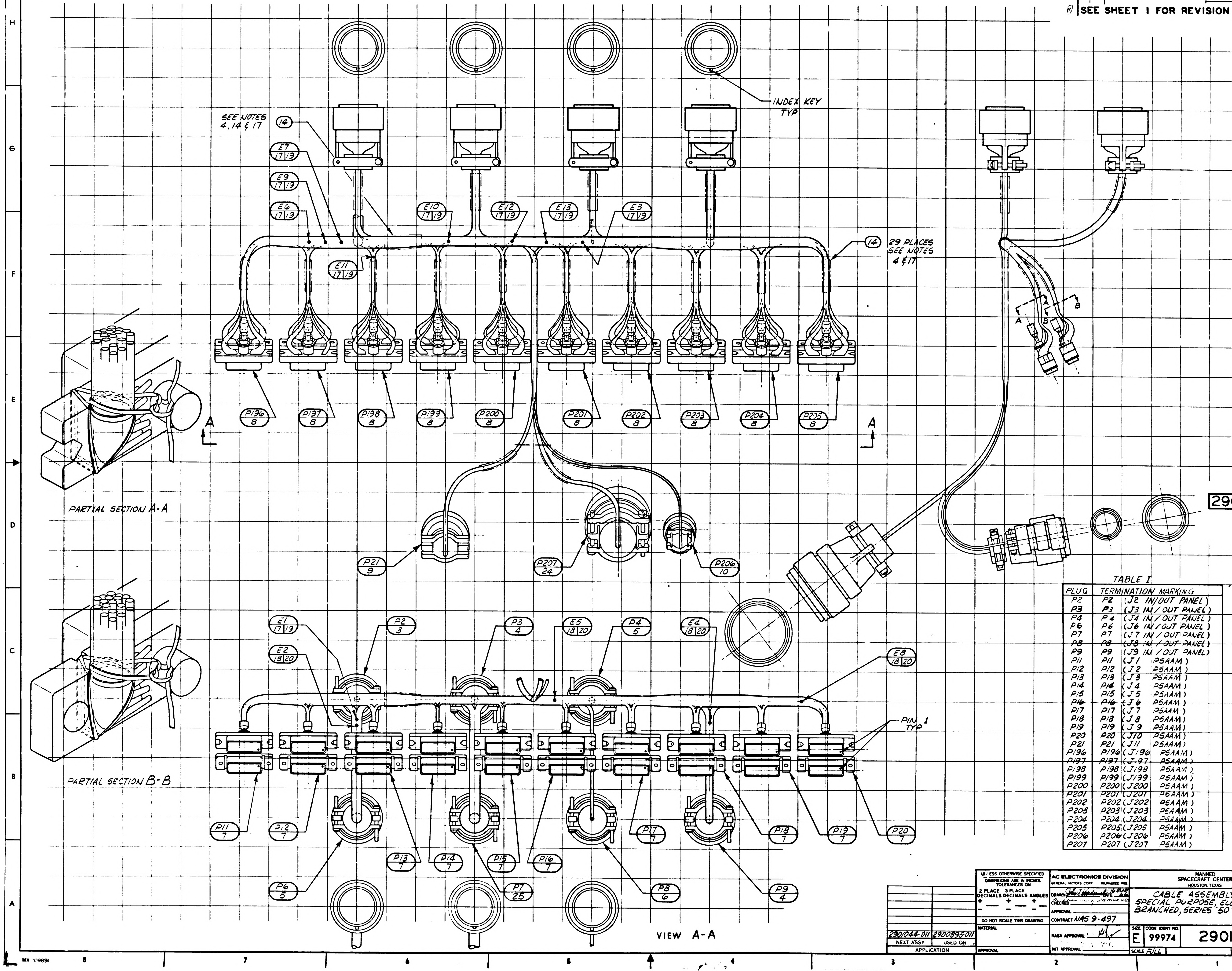
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P21-G* F13					.22 .37	NO NO		13	
A 290	1		P4-F* P207-K					.22 .25	NO YES		13	
A 291	1		P4-G* P4-I*					.22 .22	NO NO		13 13	
A 292	1		P4-H* P207-B*					.22 .25	NO YES		13	
A 293	1		P207-F P21-H					.25 .22	YES NO		 13	
A 294	1		P21-K P21-X					.22 .22	NO NO		13 13	
A 295	1		P207-L P207-V					.25 .25	YES YES			
A 296	1		P21-U P21-M					.22 .22	NO NO		13 13	
A 297	1		P207-B P207-A					.25 .25	YES YES			
A 298	1		P21-P P21-S					.22 .22	NO NO		13 13	
A 299	1		P207-D P207-U					.25 .25	YES YES			
A 300	1		P21-W P21-Z					.22 .22	NO NO		13 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P4-K* P21-G					.22 .22	NO NO		13 13	
A 302	1		P4-J* P21-Y					.22 .22	NO NO		13 13	
A 303	1		P21-J P21-L					.22 .22	NO NO		13 13	
A 304	1		P21-T P21-N					.22 .22	NO NO		13 13	
A 305	1		P21-R P21-V					.22 .22	NO NO		13 13	
A 306	2		P7-I* P2-PP					.22 .22	NO NO		13	
A 307	1		P7-T P198-2					.22 .10	NO NO		13 12	
A 308	1		P7-U P198-1					.22 .10	NO NO		13 12	
A 309	1		P7-X P198-3					.22 .10	NO NO		13 12	
A 310	1		P7-P* P199-2					.22 .10	NO NO		13 12	
A 311	1		P7-Q* P199-1					.22 .10	NO NO		13 12	
A 312	1		P4-E P196-34					.22 .10	NO NO		13 12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	2		P4-F P9-O*					.22 .22	NO NO		13	
A 314	2		E3 P8-U					.37 .22	NO NO			

REVISIONS					
SYM	ZONE	DESCRIPTION		DATE	APPD
			CHG NO		

Ⓜ SEE SHEET 1 FOR REVISION RECORD



SEE NOTES 4, 14 & 17
14
INDEX KEY TYP
E7 17/19
E9 17/19
E6 17/19
E10 17/19
E12 17/19
E13 17/19
E3 17/19
E11 17/19
14
29 PLACES SEE NOTES 4 & 17
A
B
A
B
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
PARTIAL SECTION A-A
P21 9
P207 24
P206 10
E1 17/19
E2 18/20
P2 3
P3 4
E5 18/20
P4 5
E4 18/20
E8 18/20
PIN 1 TYP
PARTIAL SECTION B-B
P11 7
P12 7
P13 7
P14 7
P15 7
P16 7
P17 7
P18 7
P19 7
P20 7
P6 5
P7 25
P8 6
P9 4
VIEW A-A

2901236

REV LTR E

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN/OUT PANEL)
P4	P4 (J4 IN/OUT PANEL)
P6	P6 (J6 IN/OUT PANEL)
P7	P7 (J7 IN/OUT PANEL)
P8	P8 (J8 IN/OUT PANEL)
P9	P9 (J9 IN/OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John J. Kudowski DATE 16 MAR 66
CHECKED 24 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "50" PSAAM

SIZE E
CODE IDENT NO. 99974
2901236
SCALE FULL
SHEET [illegible] OF 3[illegible]

MX 10989

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61871	4 APR 66	FRW / rlm
B	REVISED PER MXC 211538	22 APR 66	RLP / JRS
C	REVISED PER MXC 211987.	3 MAY 66	R.W.T. / J.E.G.
D	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY 66	GM / EF
E	REVISED PER TDRR 29226	8 JUN 66	J.K. / [illegible]
F	REVISED PER TDRR 30483	16 AUG 66	T.A. / JI

m

m

Clarleston 25 MAR 66

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F											
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33											

REV STATUS OF SHEETS																							
	REV									F	E	E	E	F	E	E	E	E	E	E	E	E	E
	SHEET									1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Kudorshe 16 MAR 66
DAY MO YR
CHECKER 24 MAR 66
ENGINEER
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" & "50" PSAAM

SIZE	CODE IDENT. NO	
A	99974	2901236
SCALE NONE		SHEET 1 OF 33

MIL 1877A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 15.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
10	SOLDER PER MIL-S-6872 (ES2605-1) USING ITEM 23 OR ITEMS 21 AND 22.
11	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 7, 8 AND 10.
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	ASSEMBLE PER ND1002032.
14	SERIALIZE PER ND1002032.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 13 SUPPLIED WITH ITEM 3 THRU 6 AND ITEM 9.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.
17	MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.06
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901236-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, 366 FT TOTAL LENGTH
	2	1	2901236-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 74 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR, ELECTRICAL
	7	10	2900274-001	CONNECTOR, ELECTRICAL
7	8	10	1897169-001	CONNECTOR, ELECTRICAL
	9	1	MS3126F20-41P	(1897043-410) CONNECTOR, ELECTRICAL
	10	1	1896913-001	CONNECTOR, ELECTRICAL
7	11	166	1010738-006	CONTACT SOCKET
7	12	172	1010738-005	CONTACT PIN
15	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	14	36	1016128-011	BAND IDENTIFICATION
7	15	AR	1012507-004	TAPE LACING AND TYING
	16	AR	MIL-I-631	TYPE F, FORM T (BLACK, GRADE A CLASS 1, .62 WIDE, .02 THICK)
7	17	9	1016006-001	SPLICE REDUCER

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	4	1016006-002	SPLICE REDUCER
7	19	9	1010490-228	INSULATION SLEEVING
7	20	4	1010490-258	INSULATION SLEEVING
	21	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	22	AR	MIL-F-14256	TYPE A OR W FLUX (ES279F)
	23	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	24	1	1897107-080	CONNECTOR, ELECTRICAL
	25	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
	26	1	MS3057-4A	CLAMP, CABLE, ELECTRICAL CONNECTOR

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P196-14					.10	NO		12	
A 2	1		E2					.37	NO			
			P197-1					.10	NO		12	
A 3	1		E3					.37	NO			
			P12-1					.10	NO		11	
A 4	1		E4					.37	NO			
			P205-3					.10	NO		12	
A 5	1		E5					.37	NO			
			P20-23					.10	NO		11	
A 6	1		E8					.37	NO			
			P205-2					.10	NO		12	
A 7	1		E8					.37	NO			
			P205-10					.10	NO		12	
A 8	1		E8					.37	NO			
			P205-11					.10	NO		12	
A 9	1		E8					.37	NO			
			P205-17					.10	NO		12	
A 10	1		E8					.37	NO			
			P205-24					.10	NO		12	
A 11	1		E5					.37	NO			
			P20-31					.10	NO		11	
A 12	1		E8					.37	NO			
			P205-32					.10	NO		12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR E | SHEET 6 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	2		P2-X					.22	NO			
			P21-C					.22	NO		13	
A 14	2		P2-Y					.22	NO			
			P21-A					.22	NO		13	
A 15	1		E6					.37	NO			
			P11-34					.10	NO		11	
A 16	1		E6					.37	NO			
			P13-2					.10	NO		11	
A 17	1		E6					.37	NO			
			P13-3					.10	NO		11	
A 18	1		E6					.37	NO			
			P14-2					.10	NO		11	
A 19	1		E7					.37	NO			
			P11-26					.10	NO		11	
A 20	1		E7					.37	NO			
			P13-1					.10	NO		11	
A 21	1		E7					.37	NO			
			P14-1					.10	NO		11	
A 22	1		P196-3					.10	NO		12	
			P196-4					.10	NO		12	
A 23	1		P11-4					.10	NO		11	
			P11-12					.10	NO		11	
A 24	1		P196-12					.10	NO		12	
			P196-32					.10	NO		12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR E | SHEET 7 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32					.10	NO		11	
			P11-33					.10	NO		11	
A 26	1		P196-33					.10	NO		12	
			P197-9					.10	NO		12	
A 27	1		P12-9					.10	NO		11	
			P12-13					.10	NO		11	
A 28	1		P197-13					.10	NO		12	
			P197-14					.10	NO		12	
A 29	1		P12-14					.10	NO		11	
			P12-15					.10	NO		11	
A 30	1		P197-15					.10	NO		12	
			P197-20					.10	NO		12	
A 31	1		P12-20					.10	NO		11	
			P12-21					.10	NO		11	
A 32	1		P197-21					.10	NO		12	
			P198-23					.10	NO		12	
A 33	1		P13-23					.10	NO		11	
			P13-24					.10	NO		11	
A 34	1		P198-24					.10	NO		12	
			P198-31					.10	NO		12	
A 35	1		P13-31					.10	NO		11	
			P13-32					.10	NO		11	
A 36	1		P198-32					.10	NO		12	
			P199-23					.10	NO		12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR E | SHEET 8 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23					.10	NO		11	
			P14-31					.10	NO		11	
A 38	1		P199-31					.10	NO		12	
			P200-20					.10	NO		12	
A 39	1		P15-20					.10	NO		11	
			P15-21					.10	NO		11	
A 40	1		P200-21					.10	NO		12	
			P200-23					.10	NO		12	
A 41	1		P15-23					.10	NO		11	
			P15-24					.10	NO		11	
A 42	1		P200-24					.10	NO		12	
			P200-25					.10	NO		12	
A 43	1		P15-25					.10	NO		11	
			P15-27					.10	NO		11	
A 44	1		P200-27					.10	NO		12	
			P200-28					.10	NO		12	
A 45	1		P15-28					.10	NO		11	
			P15-31					.10	NO		11	
A 46	1		P200-31					.10	NO		12	
			P200-32					.10	NO		12	
A 47	1		P15-32					.10	NO		11	
			P15-33					.10	NO		11	
A 48	1		P200-33					.10	NO		12	
			P200-35					.10	NO		12	

SIZE A | CODE IDENT NO. 99974 | 2901236
SCALE-NONE | REV LTR E | SHEET 9 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35 P15-36					.10 .10	NO NO		11 11	
A 50	1		P200-36 P201-2					.10 .10	NO NO		12 12	
A 51	1		P16-2 P16-25					.10 .10	NO NO		11 11	
A 52	1		P201-25 P201-26					.10 .10	NO NO		12 12	
A 53	1		P16-26 P16-33					.10 .10	NO NO		11 11	
A 54	1		P201-33 P201-34					.10 .10	NO NO		12 12	
A 55	1		P16-34 P17-1					.10 .10	NO NO		11 11	
A 56	1		P202-1 P202-2					.10 .10	NO NO		12 12	
A 57	1		P17-2 P17-3					.10 .10	NO NO		11 11	
A 58	1		P202-3 P202-4					.10 .10	NO NO		12 12	
A 59	1		P17-4 P17-5					.10 .10	NO NO		11 11	
A 60	1		P202-5 P202-6					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 10 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6 P17-9					.10 .10	NO NO		11 11	
A 62	1		P202-9 P202-10					.10 .10	NO NO		12 12	
A 63	1		P17-10 P17-12					.10 .10	NO NO		11 11	
A 64	1		P202-12 P202-13					.10 .10	NO NO		12 12	
A 65	1		P17-13 P17-17					.10 .10	NO NO		11 11	
A 66	1		P202-17 P202-18					.10 .10	NO NO		12 12	
A 67	1		P17-18 P18-1					.10 .10	NO NO		11 11	
A 68	1		P203-1 P203-2					.10 .10	NO NO		12 12	
A 69	1		P18-2 P18-3					.10 .10	NO NO		11 11	
A 70	1		P203-3 P203-6					.10 .10	NO NO		12 12	
A 71	1		P18-6 P18-7					.10 .10	NO NO		11 11	
A 72	1		P203-7 P203-8					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 11 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8 P18-9					.10 .10	NO NO		11 11	
A 74	1		P203-9 P203-10					.10 .10	NO NO		12 12	
A 75	1		P18-10 P18-11					.10 .10	NO NO		11 11	
A 76	1		P203-11 P203-12					.10 .10	NO NO		12 12	
A 77	1		P18-12 P18-13					.10 .10	NO NO		11 11	
A 78	1		P203-13 P203-14					.10 .10	NO NO		12 12	
A 79	1		P18-14 P18-15					.10 .10	NO NO		11 11	
A 80	1		P203-15 P203-20					.10 .10	NO NO		12 12	
A 81	1		P18-20 P18-21					.10 .10	NO NO		11 11	
A 82	1		P203-21 P203-23					.10 .10	NO NO		12 12	
A 83	1		P18-23 P18-25					.10 .10	NO NO		11 11	
A 84	1		P203-25 P203-26					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 12 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26 P18-33					.10 .10	NO NO		11 11	
A 86	1		P203-33 P203-34					.10 .10	NO NO		12 12	
A 87	1		P18-34 P18-35					.10 .10	NO NO		11 11	
A 88	1		P203-35 P203-36					.10 .10	NO NO		12 12	
A 89	1		P18-36 P19-1					.10 .10	NO NO		11 11	
A 90	1		P204-1 P204-2					.10 .10	NO NO		12 12	
A 91	1		P19-2 P19-9					.10 .10	NO NO		11 11	
A 92	1		P204-9 P204-10					.10 .10	NO NO		12 12	
A 93	1		P19-10 P19-11					.10 .10	NO NO		11 11	
A 94	1		P204-11 P204-13					.10 .10	NO NO		12 12	
A 95	1		P19-13 P19-14					.10 .10	NO NO		11 11	
A 96	1		P204-14 P204-17					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 13 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONL. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17 P19-18					.10 .10	NO NO		11 11	
A 98	1		P204-18 P204-19					.10 .10	NO NO		12 12	
A 99	1		P19-19 P19-20					.10 .10	NO NO		11 11	
A 100	1		P204-20 P204-21					.10 .10	NO NO		12 12	
A 101	1		P19-21 P19-23					.10 .10	NO NO		11 11	
A 102	1		P204-23 P204-24					.10 .10	NO NO		12 12	
A 103	1		P19-24 P19-27					.10 .10	NO NO		11 11	
A 104	1		P204-27 P204-28					.10 .10	NO NO		12 12	
A 105	1		P19-28 P20-5					.10 .10	NO NO		11 11	
A 106	1		P205-16 P205-6					.10 .10	NO NO		12 12	
A 107	1		P20-6 P20-7					.10 .10	NO NO		11 11	
A 108	1		P205-7 P205-8					.10 .10	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 14 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONL. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8 P20-13					.10 .10	NO NO		11 11	
A 110	1		P205-13 P205-14					.10 .10	NO NO		12 12	
A 111	1		P20-14 P20-19					.10 .10	NO NO		11 11	
A 112	1		P205-19 P205-20					.10 .10	NO NO		12 12	
A 113	1		P20-20 P20-21					.10 .10	NO NO		11 11	
A 114	1		P205-21 P205-27					.10 .10	NO NO		12 12	
A 115	1		P20-27 P20-28					.10 .10	NO NO		11 11	
A 116	1		P205-28 P205-35					.10 .10	NO NO		12 12	
A 117	1		P20-35 P20-36					.10 .10	NO NO		11 11	
A 118	1		P205-36 P19-3					.10 .10	NO NO		12 11	
A 119	1		P203-27 P203-28					.10 .10	NO NO		12 12	
A 120	1		P2-B E5					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 15 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONL. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P2-F E5					.22 .37	NO NO		13	
A 122	1		P2-F* P201-35					.22 .10	NO NO		13 12	
A 123	1		P2-G* P201-36					.22 .10	NO NO		13 12	
A 124	1		P2-H* P16-35					.22 .10	NO NO		13 11	
A 125	1		P2-J* P16-36					.22 .10	NO NO		13 11	
A 126	1		P2-K* E5					.22 .37	NO NO		13	
A 127	1		P2-LL P201-9					.22 .10	NO NO		13 12	
A 128	1		P2-MM P201-1					.22 .10	NO NO		13 12	
A 129	1		P2-NN P16-9					.22 .10	NO NO		13 11	
A 130	1		P2-PP P16-1					.22 .10	NO NO		13 11	
A 131	1		P7-F* P201-10					.22 .10	NO NO		13 12	
A 132	2		P7-G* P2-MM					.22 .22	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 16 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONL. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-H* P16-10					.22 .10	NO NO		13 11	
A 134	1		P7-J* P205-34					.22 .10	NO NO		13 12	
A 135	1		P7-K* P205-26					.22 .10	NO NO		13 12	
A 136	1		P7-M* P20-34					.22 .10	NO NO		13 12	
A 137	1		P7-N* P20-25					.22 .10	NO NO		13 11	
A 138	1		P3-J P197-28					.22 .10	NO NO		13 12	
A 139	1		P3-K P197-27					.22 .10	NO NO		13 12	
A 140	1		P3-L P12-26					.22 .10	NO NO		13 11	
A 141	1		P3-M P12-27					.22 .10	NO NO		13 11	
A 142	1		P3-N P197-36					.22 .10	NO NO		13 12	
A 143	1		P3-P P197-35					.22 .10	NO NO		13 12	
A 144	1		P3-R P12-36					.22 .10	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 17 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P3-S P12-35					.22 .10	NO NO		13 11	
A 146	1		P3-T P196-20					.22 .10	NO NO		13 12	
A 147	1		P3-U P196-21					.22 .10	NO NO		13 12	
A 148	1		P3-V P11-20					.22 .10	NO NO		13 11	
A 149	1		P3-W P11-21					.22 .10	NO NO		13 11	
A 150	1		P3-X P196-27					.22 .10	NO NO		13 12	
A 151	1		P3-Y P196-28					.22 .10	NO NO		13 12	
A 152	1		P3-Z P11-27					.22 .10	NO NO		13 11	
A 153	1		P3-A* P11-28					.22 .10	NO NO		13 11	
A 154	1		P3-B* P196-35					.22 .10	NO NO		13 12	
A 155	1		P3-C* P196-36					.22 .10	NO NO		13 12	
A 156	1		P3-D* P11-35					.22 .10	NO NO		13 11	

SIZE A

CODE IDENT NO. 99974

2901236

SCALE-NONE

REV LTR E

SHEET 18 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P3-E* P11-36					.22 .10	NO NO		13 11	
A 158	1		P4-A P202-14					.22 .10	NO NO		13 12	
A 159	1		P4-B P202-15					.22 .10	NO NO		13 12	
A 160	1		P4-C P17-14					.22 .10	NO NO		13 11	
A 161	1		P4-D P17-15					.22 .10	NO NO		13 11	
A 162	1		P4-M P199-18					.22 .10	NO NO		13 12	
A 163	1		P4-S P199-19					.22 .10	NO NO		13 12	
A 164	1		P4-T P11-23					.22 .10	NO NO		13 11	
A 165	1		P4-U E3					.22 .37	NO NO		13	
A 166	1		P4-W P199-20					.22 .10	NO NO		13 12	
A 167	1		P4-X P11-24					.22 .10	NO NO		13 11	
A 168	1		P4-A* P199-21					.22 .10	NO NO		13 12	

SIZE A

CODE IDENT NO. 99974

2901236

SCALE-NONE

REV LTR E

SHEET 19 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P4-B* P11-31					.22 .10	NO NO		13 11	
A 170	1		P4-E* P199-22					.22 .10	NO NO		13 12	
A 171	1		P4-T* P2-V					.22 .22	NO NO		13 13	
A 172	1		P4-U* P2-W					.22 .22	NO NO		13 13	
A 173	1		P4-V* E6					.22 .37	NO NO		13	
A 174	1		P4-W* E7					.22 .37	NO NO		13	
A 175	1		P4-X* P19-12					.22 .10	NO NO		13 11	
A 176	1		P4-Z* P11-3					.22 .10	NO NO		13 11	
A 177	1		P6-A P196-7					.22 .10	NO NO		13 12	
A 178	1		P6-B E1					.22 .37	NO NO		13	
A 179	1		P6-C P11-7					.22 .10	NO NO		13 11	
A 180	1		P6-E P196-6					.22 .10	NO NO		13 12	

SIZE A

CODE IDENT NO 99974

2901236

SCALE-NONE

REV LTR E

SHEET 20 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-F E1					.22 .37	NO NO		13	
A 182	1		P6-G P11-6					.22 .10	NO NO		13 11	
A 183	1		P6-J P196-13					.22 .10	NO NO		13 12	
A 184	1		P6-K F1					.22 .37	NO NO		13	
A 185	1		P6-L P11-13					.22 .10	NO NO		13 11	
A 186	1		P6-M P11-14					.22 .10	NO NO		13 11	
A 187	1		P6-N P197-10					.22 .10	NO NO		13 12	
A 188	1		P6-P F2					.22 .37	NO NO		13	
A 189	1		P6-R P12-10					.22 .10	NO NO		13 11	
A 190	1		P6-S E3					.22 .37	NO NO		13	
A 191	1		P7-B* P197-17					.22 .10	NO NO		13 12	
A 192	1		P7-C* E2					.22 .37	NO NO		13	

SIZE A

CODE IDENT NO. 99974

2901236

SCALE-NONE

REV LTR E

SHEET 21 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-G P20-11					.22 .10	NO NO		13 11	
A 242	1		P9-B* P205-12					.22 .10	NO NO		13 12	
A 243	1		P9-C* E4					.22 .37	NO NO		13	
A 244	1		P9-D* P20-17					.22 .10	NO NO		13 11	
A 245	1		P9-F* P205-18					.22 .10	NO NO		13 12	
A 246	1		P9-G* E4					.22 .37	NO NO		13	
A 247	1		P9-H* P20-32					.22 .10	NO NO		13 11	
A 248	1		P9-J* P196-18					.22 .10	NO NO		13 12	
A 249	1		P9-M* P11-18					.22 .10	NO NO		13 12	
A 250	1		P9-P* P196-17					.22 .10	NO NO		13 12	
A 251	1		P9-O* P196-26					.22 .10	NO NO		13 12	
A 252	1		P9-R* P11-17					.22 .10	NO NO		13 11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-S* E7					.22 .37	NO NO		13	
A 254	1		P9-T* P205-15					.22 .10	NO NO		13 12	
A 255	1		P9-U* E4					.22 .37	NO NO		13	
A 256	1		P9-V* P20-24					.22 .10	NO NO		13 11	
A 257	1		P9-X* P205-4					.22 .10	NO NO		13 12	
A 258	1		P9-Y* E4					.22 .37	NO NO		13	
A 259	1		P9-Z* P20-2					.22 .10	NO NO		13 11	
A 260	1		P9-FF P206-A					.22 .20	NO YES		13	
A 261	1		P9-GG P206-B					.22 .20	NO YES		13	
A 262	1		P9-JJ P199-16					.22 .10	NO NO		13 12	
A 263	1		P9-NN P199-17					.22 .10	NO NO		13 12	
A 264	1		E5 E8					.37 .37	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P13-8 E9					.10 .37	NO NO		11	
A 266	1		P13-16 E9					.10 .37	NO NO		11	
A 267	1		P13-22 E9					.10 .37	NO NO		11	
A 268	1		P13-30 E9					.10 .37	NO NO		11	
A 269	1		P13-38 E9					.10 .37	NO NO		11	
A 270	1		P14-6 E10					.10 .37	NO NO		11	
A 271	1		P14-16 E10					.10 .37	NO NO		11	
A 272	1		P14-22 E10					.10 .37	NO NO		11	
A 273	1		P14-30 E10					.10 .37	NO NO		11	
A 274	1		P14-38 E10					.10 .37	NO NO		11	
A 275	1		P198-7 E11					.10 .37	NO NO		12	
A 276	1		P198-15 E11					.10 .37	NO NO		12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P198-36 E11					.10 .37	NO NO		12	
A 278	1		P198-37 E11					.10 .37	NO NO		12	
A 279	1		P2-U* P207-Y					.22 .25	NO YES		13	
A 280	1		P207-G E12					.25 .37	YES NO			
A 281	1		P207-H E12					.25 .37	YES NO			
A 282	1		P207-M E12					.25 .37	YES NO			
A 283	1		P207-S E12					.25 .37	YES NO			
A 284	1		P207-Z F12					.25 .37	YES NO			
A 285	1		P21-C* E13					.22 .37	NO NO		13	
A 286	1		P21-D* E13					.22 .37	NO NO		13	
A 287	1		P21-E* E13					.22 .37	NO NO		13	
A 288	1		P21-F* F13					.22 .37	NO NO		13	

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P21-G* F13					.22 .37	NO NO		13	
A 290	1		P4-F* P207-K					.22 .25	NO YES		13	
A 291	1		P4-G* P4-I*					.22 .22	NO NO		13 13	
A 292	1		P4-H* P207-B*					.22 .25	NO YES		13	
A 293	1		P207-F P21-H					.25 .22	YES NO		 13	
A 294	1		P21-K P21-X					.22 .22	NO NO		13 13	
A 295	1		P207-L P207-V					.25 .25	YES YES			
A 296	1		P21-U P21-M					.22 .22	NO NO		13 13	
A 297	1		P207-B P207-A					.25 .25	YES YES			
A 298	1		P21-P P21-S					.22 .22	NO NO		13 13	
A 299	1		P207-D P207-U					.25 .25	YES YES			
A 300	1		P21-W P21-Z					.22 .22	NO NO		13 13	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 30 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P4-K* P21-G					.22 .22	NO NO		13 13	
A 302	1		P4-J* P21-Y					.22 .22	NO NO		13 13	
A 303	1		P21-J P21-L					.22 .22	NO NO		13 13	
A 304	1		P21-T P21-N					.22 .22	NO NO		13 13	
A 305	1		P21-R P21-V					.22 .22	NO NO		13 13	
A 306	2		P7-I* P2-PP					.22 .22	NO NO		13	
A 307	1		P7-T P198-2					.22 .10	NO NO		13 12	
A 308	1		P7-U P198-1					.22 .10	NO NO		13 12	
A 309	1		P7-X P198-3					.22 .10	NO NO		13 12	
A 310	1		P7-P* P199-2					.22 .10	NO NO		13 12	
A 311	1		P7-O* P199-1					.22 .10	NO NO		13 12	
A 312	1		P4-E P196-34					.22 .10	NO NO		13 12	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 31 OF 33

CABLE ASSEMBLY 2901236 E

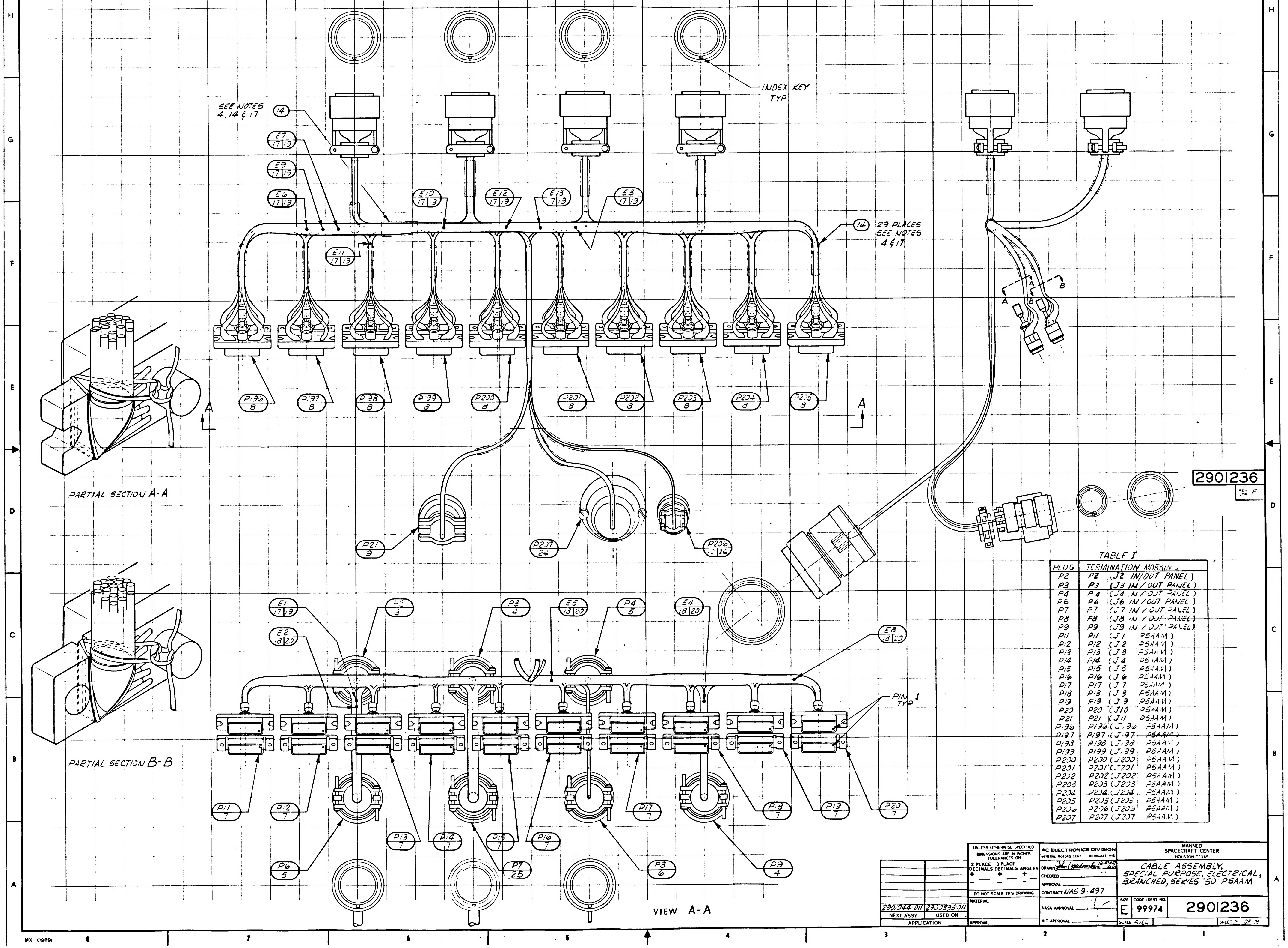
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT. LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	2		P4-F P9-O*					.22 .22	NO NO		13	
A 314	2		E3 P8-U					.37 .22	NO NO			

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 32 OF 33

REVISIONS				
SYM ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD



SEE NOTES 4,14 & 17
14
INDEX KEY TYP
E7 17/19
E9 17/19
E6 17/19
E10 17/19
E12 17/19
E13 7/19
E3 17/19
E11 17/19
14 29 PLACES SEE NOTES 4 & 17
A
B
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
PARTIAL SECTION A-A
P21 9
P207 24
P206 26
2901236
REV LTR F
E1 17/19
P2 3
P3 4
E5 18/20
P4 5
E4 18/20
E2 18/20
E8 18/20
PIN 1 TYP
PARTIAL SECTION B-B
P11 7
P12 7
P13 7
P14 7
P15 7
P16 7
P17 7
P18 7
P19 7
P20 7
P6 5
P7 25
P8 6
P9 4
VIEW A-A

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN / OUT PANEL)
P4	P4 (J4 IN / OUT PANEL)
P6	P6 (J6 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

NEXT ASSY	USED ON
2901044-011	2900895-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John Kudrowski DATE 16 MAR 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "50" PSAAM

SIZE E
CODE IDENT NO. 99974
2901236
SCALE FULL
SHEET 3 OF 3

MX 10891

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61871	4 APR 66	FRW
B	REVISED PER MXC 211538	22 APR 66	RLP JRS
C	REVISED PER MXC 211987.	3 MAY 66	R.W.T. J.E.G.
D	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY 66	GM EF
E	REVISED PER TDRR 29226	8 JUN 66	J.K.
F	REVISED PER TDRR 30483	16 AUG 66	T.A.
G	REVISED PER TDRR 30501	26 AUG 66	MEM

Charleston 25 MAR 66

REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	F
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

REV STATUS OF SHEETS															
REV	G	E	E	E	F	E	E	E	E	E	E	E	E	E
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Kendorske 16 MAR 66 (DAY MO YR)
CHECKER M. Manning 24 MAR 66
ENGINEER E. Perini 25 Mar 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL 6/6/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "0" & "50" PSAAM

SIZE A
CODE IDENT. NO 99974
2901236
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 15.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
10	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 23 OR ITEMS 21 AND 22.
11	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 7, 8 AND 10.
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	ASSEMBLE PER ND1002032.
14	SERIALIZE PER ND1002032.

SIZE A	CODE IDENT NO. 99974	2901236		
SCALE-NONE	REV LTR	E	SHEET	2 OF 33

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 13 SUPPLIED WITH ITEM 3 THRU 6 AND ITEM 9.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.
17	MARK ITEM 14 PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901236		
SCALE-NONE	REV LTR	E	SHEET	3 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901236-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, 366 FT TOTAL LENGTH
	2	1	2901236-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, 74 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR, ELECTRICAL
	7	10	2900274-001	CONNECTOR, ELECTRICAL
7	8	10	1897169-001	CONNECTOR, ELECTRICAL
	9	1	MS3126F20-41P	(1897043-410) CONNECTOR, ELECTRICAL
	10	1	1896913-001	CONNECTOR, ELECTRICAL
7	11	166	1010738-006	CONTACT SOCKET
7	12	172	1010738-005	CONTACT PIN
15	13	X	MS3192A-20A	(1896855-020) CONTACT ELEC PIN CRIMP
	14	30	1016128-011	BAND IDENTIFICATION
7	15	AR	1012507-004	TAPE LACING AND TYING
	16	AR	MIL-I-631	TYPE F, FORM T (BLACK, GRADE A CLASS 1, .62 WIDE, .02 THICK)
7	17	9	1016006-001	SPLICE REDUCER

SIZE A	CODE IDENT NO. 99974	2901236		
SCALE-NONE	REV LTR	E	SHEET	4 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	4	1016006-002	SPLICE REDUCER
7	19	9	1010490-228	INSULATION SLEEVING
7	20	4	1010490-258	INSULATION SLEEVING
	21	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	22	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	23	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
	24	1	1897107-080	CONNECTOR, ELECTRICAL
	25	1	MS3126F24-61PX	(1897047-612) CONNECTOR PLUG, ELECTRICAL
	26	1	MS3057-4A	CLAMP, CABLE, ELECTRICAL CONNECTOR

SIZE A	CODE IDENT NO. 99974	2901236		
SCALE-NONE	REV LTR	F	SHEET	5 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P196-14					.10	NO		12	
A 2	1		E2					.37	NO			
			P197-1					.10	NO		12	
A 3	1		E3					.37	NO			
			P12-1					.10	NO		11	
A 4	1		E4					.37	NO			
			P205-3					.10	NO		12	
A 5	1		E5					.37	NO			
			P20-23					.10	NO		11	
A 6	1		E8					.37	NO			
			P205-2					.10	NO		12	
A 7	1		E8					.37	NO			
			P205-10					.10	NO		12	
A 8	1		E8					.37	NO			
			P205-11					.10	NO		12	
A 9	1		E8					.37	NO			
			P205-17					.10	NO		12	
A 10	1		E8					.37	NO			
			P205-24					.10	NO		12	
A 11	1		E5					.37	NO			
			P20-31					.10	NO		11	
A 12	1		E8					.37	NO			
			P205-32					.10	NO		12	

SIZE A	CODE IDENT NO. 99974	2901236	
SCALE-NONE	REV LTR E	SHEET 6 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	2		P2-X					.22	NO			
			P21-C					.22	NO		13	
A 14	2		P2-Y					.22	NO			
			P21-A					.22	NO		13	
A 15	1		E6					.37	NO			
			P11-34					.10	NO		11	
A 16	1		E6					.37	NO			
			P13-2					.10	NO		11	
A 17	1		E6					.37	NO			
			P13-3					.10	NO		11	
A 18	1		E6					.37	NO			
			P14-2					.10	NO		11	
A 19	1		E7					.37	NO			
			P11-26					.10	NO		11	
A 20	1		E7					.37	NO			
			P13-1					.10	NO		11	
A 21	1		E7					.37	NO			
			P14-1					.10	NO		11	
A 22	1		P196-3					.10	NO		12	
			P196-4					.10	NO		12	
A 23	1		P11-4					.10	NO		11	
			P11-12					.10	NO		11	
A 24	1		P196-12					.10	NO		12	
			P196-32					.10	NO		12	

SIZE A	CODE IDENT NO. 99974	2901236	
SCALE-NONE	REV LTR E	SHEET 7 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32					.10	NO		11	
			P11-33					.10	NO		11	
A 26	1		P196-33					.10	NO		12	
			P197-9					.10	NO		12	
A 27	1		P12-9					.10	NO		11	
			P12-13					.10	NO		11	
A 28	1		P197-13					.10	NO		12	
			P197-14					.10	NO		12	
A 29	1		P12-14					.10	NO		11	
			P12-15					.10	NO		11	
A 30	1		P197-15					.10	NO		12	
			P197-20					.10	NO		12	
A 31	1		P12-20					.10	NO		11	
			P12-21					.10	NO		11	
A 32	1		P197-21					.10	NO		12	
			P198-23					.10	NO		12	
A 33	1		P13-23					.10	NO		11	
			P13-24					.10	NO		11	
A 34	1		P198-24					.10	NO		12	
			P198-31					.10	NO		12	
A 35	1		P13-31					.10	NO		11	
			P13-32					.10	NO		11	
A 36	1		P198-32					.10	NO		12	
			P199-23					.10	NO		12	

SIZE A	CODE IDENT NO. 99974	2901236	
SCALE-NONE	REV LTR E	SHEET 8 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23					.10	NO		11	
			P14-31					.10	NO		11	
A 38	1		P199-31					.10	NO		12	
			P200-20					.10	NO		12	
A 39	1		P15-20					.10	NO		11	
			P15-21					.10	NO		11	
A 40	1		P200-21					.10	NO		12	
			P200-23					.10	NO		12	
A 41	1		P15-23					.10	NO		11	
			P15-24					.10	NO		11	
A 42	1		P200-24					.10	NO		12	
			P200-25					.10	NO		12	
A 43	1		P15-25					.10	NO		11	
			P15-27					.10	NO		11	
A 44	1		P200-27					.10	NO		12	
			P200-28					.10	NO		12	
A 45	1		P15-28					.10	NO		11	
			P15-31					.10	NO		11	
A 46	1		P200-31					.10	NO		12	
			P200-32					.10	NO		12	
A 47	1		P15-32					.10	NO		11	
			P15-33					.10	NO		11	
A 48	1		P200-33					.10	NO		12	
			P200-35					.10	NO		12	

SIZE A	CODE IDENT NO. 99974	2901236	
SCALE-NONE	REV LTR E	SHEET 9 OF 33	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35					.10	NO		11	
			P15-36					.10	NO		11	
A 50	1		P200-36					.10	NO		12	
			P201-2					.10	NO		12	
A 51	1		P16-2					.10	NO		11	
			P16-25					.10	NO		11	
A 52	1		P201-25					.10	NO		12	
			P201-26					.10	NO		12	
A 53	1		P16-26					.10	NO		11	
			P16-33					.10	NO		11	
A 54	1		P201-33					.10	NO		12	
			P201-34					.10	NO		12	
A 55	1		P16-34					.10	NO		11	
			P17-1					.10	NO		11	
A 56	1		P202-1					.10	NO		12	
			P202-2					.10	NO		12	
A 57	1		P17-2					.10	NO		11	
			P17-3					.10	NO		11	
A 58	1		P202-3					.10	NO		12	
			P202-4					.10	NO		12	
A 59	1		P17-4					.10	NO		11	
			P17-5					.10	NO		11	
A 60	1		P202-5					.10	NO		12	
			P202-6					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR	E	SHEET 10 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6					.10	NO		11	
			P17-9					.10	NO		11	
A 62	1		P202-9					.10	NO		12	
			P202-10					.10	NO		12	
A 63	1		P17-10					.10	NO		11	
			P17-12					.10	NO		11	
A 64	1		P202-12					.10	NO		12	
			P202-13					.10	NO		12	
A 65	1		P17-13					.10	NO		11	
			P17-17					.10	NO		11	
A 66	1		P202-17					.10	NO		12	
			P202-18					.10	NO		12	
A 67	1		P17-18					.10	NO		11	
			P18-1					.10	NO		11	
A 68	1		P203-1					.10	NO		12	
			P203-2					.10	NO		12	
A 69	1		P18-2					.10	NO		11	
			P18-3					.10	NO		11	
A 70	1		P203-3					.10	NO		12	
			P203-6					.10	NO		12	
A 71	1		P18-6					.10	NO		11	
			P18-7					.10	NO		11	
A 72	1		P203-7					.10	NO		12	
			P203-8					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR	E	SHEET 11 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8					.10	NO		11	
			P18-9					.10	NO		11	
A 74	1		P203-9					.10	NO		12	
			P203-10					.10	NO		12	
A 75	1		P18-10					.10	NO		11	
			P18-11					.10	NO		11	
A 76	1		P203-11					.10	NO		12	
			P203-12					.10	NO		12	
A 77	1		P18-12					.10	NO		11	
			P18-13					.10	NO		11	
A 78	1		P203-13					.10	NO		12	
			P203-14					.10	NO		12	
A 79	1		P18-14					.10	NO		11	
			P18-15					.10	NO		11	
A 80	1		P203-15					.10	NO		12	
			P203-20					.10	NO		12	
A 81	1		P18-20					.10	NO		11	
			P18-21					.10	NO		11	
A 82	1		P203-21					.10	NO		12	
			P203-23					.10	NO		12	
A 83	1		P18-23					.10	NO		11	
			P18-25					.10	NO		11	
A 84	1		P203-25					.10	NO		12	
			P203-26					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR	F	SHEET 12 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26					.10	NO		11	
			P18-33					.10	NO		11	
A 86	1		P203-33					.10	NO		12	
			P203-34					.10	NO		12	
A 87	1		P18-34					.10	NO		11	
			P18-35					.10	NO		11	
A 88	1		P203-35					.10	NO		12	
			P203-36					.10	NO		12	
A 89	1		P18-36					.10	NO		11	
			P19-1					.10	NO		11	
A 90	1		P204-1					.10	NO		12	
			P204-2					.10	NO		12	
A 91	1		P19-2					.10	NO		11	
			P19-9					.10	NO		11	
A 92	1		P204-9					.10	NO		12	
			P204-10					.10	NO		12	
A 93	1		P19-10					.10	NO		11	
			P19-11					.10	NO		11	
A 94	1		P204-11					.10	NO		12	
			P204-13					.10	NO		12	
A 95	1		P19-13					.10	NO		11	
			P19-14					.10	NO		11	
A 96	1		P204-14					.10	NO		12	
			P204-17					.10	NO		12	

SIZE	CODE IDENT NO.		
A	99974	2901236	
SCALE-NONE	REV LTR	E	SHEET 13 OF 33

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P3-S P12-35					.22 .10	NO NO		13 11	
A 146	1		P3-T P196-20					.22 .10	NO NO		13 12	
A 147	1		P3-U P196-21					.22 .10	NO NO		13 12	
A 148	1		P3-V P11-20					.22 .10	NO NO		13 11	
A 149	1		P3-W P11-21					.22 .10	NO NO		13 11	
A 150	1		P3-X P196-27					.22 .10	NO NO		13 12	
A 151	1		P3-Y P196-28					.22 .10	NO NO		13 12	
A 152	1		P3-Z P11-27					.22 .10	NO NO		13 11	
A 153	1		P3-A* P11-28					.22 .10	NO NO		13 11	
A 154	1		P3-B* P196-35					.22 .10	NO NO		13 12	
A 155	1		P3-C* P196-36					.22 .10	NO NO		13 12	
A 156	1		P3-D* P11-35					.22 .10	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 18 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P3-E* P11-36					.22 .10	NO NO		13 11	
A 158	1		P4-A P202-14					.22 .10	NO NO		13 12	
A 159	1		P4-B P202-15					.22 .10	NO NO		13 12	
A 160	1		P4-C P17-14					.22 .10	NO NO		13 11	
A 161	1		P4-D P17-15					.22 .10	NO NO		13 11	
A 162	1		P4-M P199-18					.22 .10	NO NO		13 12	
A 163	1		P4-S P199-19					.22 .10	NO NO		13 12	
A 164	1		P4-T P11-23					.22 .10	NO NO		13 11	
A 165	1		P4-U E3					.22 .37	NO NO		13	
A 166	1		P4-W P199-20					.22 .10	NO NO		13 12	
A 167	1		P4-X P11-24					.22 .10	NO NO		13 11	
A 168	1		P4-A* P199-21					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 19 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P4-B* P11-31					.22 .10	NO NO		13 11	
A 170	1		P4-E* P199-22					.22 .10	NO NO		13 12	
A 171	1		P4-T* P2-V					.22 .22	NO NO		13 13	
A 172	1		P4-U* P2-W					.22 .22	NO NO		13 13	
A 173	1		P4-V* E6					.22 .37	NO NO		13	
A 174	1		P4-W* E7					.22 .37	NO NO		13	
A 175	1		P4-X* P19-12					.22 .10	NO NO		13 11	
A 176	1		P4-Z* P11-3					.22 .10	NO NO		13 11	
A 177	1		P6-A P196-7					.22 .10	NO NO		13 12	
A 178	1		P6-B E1					.22 .37	NO NO		13	
A 179	1		P6-C P11-7					.22 .10	NO NO		13 11	
A 180	1		P6-E P196-6					.22 .10	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 20 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-F E1					.22 .37	NO NO		13	
A 182	1		P6-G P11-6					.22 .10	NO NO		13 11	
A 183	1		P6-J P196-13					.22 .10	NO NO		13 12	
A 184	1		P6-K E1					.22 .37	NO NO		13	
A 185	1		P6-L P11-13					.22 .10	NO NO		13 11	
A 186	1		P6-M P11-14					.22 .10	NO NO		13 11	
A 187	1		P6-N P197-10					.22 .10	NO NO		13 12	
A 188	1		P6-P E2					.22 .37	NO NO		13	
A 189	1		P6-R P12-10					.22 .10	NO NO		13 11	
A 190	1		P6-S E3					.22 .37	NO NO		13	
A 191	1		P7-B* P197-17					.22 .10	NO NO		13 12	
A 192	1		P7-C* E2					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901236
SCALE-NONE	REV LTR E	SHEET 21 OF 33

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-D* P12-17					.22 .10	NO NO		13 11	
A 194	1		P7-E* E3					.22 .37	NO NO		13	
A 195	1		P6-X P197-18					.22 .10	NO NO		13 12	
A 196	1		P6-Y E2					.22 .37	NO NO		13	
A 197	1		P6-Z P12-18					.22 .10	NO NO		13 11	
A 198	1		P6-A* E3					.22 .37	NO NO		13	
A 199	1		P6-B* P200-9					.22 .10	NO NO		13 12	
A 200	1		P6-C* P200-1					.22 .10	NO NO		13 12	
A 201	1		P6-D* P15-9					.22 .10	NO NO		13 11	
A 202	1		P6-E* P15-1					.22 .10	NO NO		13 11	
A 203	1		P6-F* P200-17					.22 .10	NO NO		13 12	
A 204	1		P6-G* P200-29					.22 .10	NO NO		13 12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-H* P15-17					.22 .10	NO NO		13 11	
A 206	2		P6-I* P6-E*					.22 .22	NO NO		13 13	
A 207	1		P6-J* P202-7					.22 .10	NO NO		13 12	
A 208	1		P6-K* P202-8					.22 .10	NO NO		13 12	
A 209	1		P6-M* P17-7					.22 .10	NO NO		13 11	
A 210	1		P6-N* P17-8					.22 .10	NO NO		13 11	
A 211	1		P6-P* P202-20					.22 .10	NO NO		13 12	
A 212	1		P6-Q* P202-21					.22 .10	NO NO		13 12	
A 213	1		P6-R* P17-20					.22 .10	NO NO		13 11	
A 214	1		P6-S* P17-21					.22 .10	NO NO		13 11	
A 215	1		P6-T* P202-27					.22 .10	NO NO		13 12	
A 216	1		P6-U* P202-28					.22 .10	NO NO		13 12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P6-V* P17-27					.22 .10	NO NO		13 11	
A 218	1		P6-W* P17-28					.22 .10	NO NO		13 11	
A 219	1		P6-X* P202-35					.22 .10	NO NO		13 12	
A 220	1		P6-Y* P202-36					.22 .10	NO NO		13 12	
A 221	1		P6-Z* P17-35					.22 .10	NO NO		13 11	
A 222	1		P6-AA P17-36					.22 .10	NO NO		13 11	
A 223	1		P6-BB P201-20					.22 .10	NO NO		13 12	
A 224	1		P6-CC P201-21					.22 .10	NO NO		13 12	
A 225	1		P6-DD P16-20					.22 .10	NO NO		13 11	
A 226	1		P6-EE P16-21					.22 .10	NO NO		13 11	
A 227	1		P6-FF P201-27					.22 .10	NO NO		13 12	
A 228	1		P6-GG P201-28					.22 .10	NO NO		13 12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P6-HH P16-27					.22 .10	NO NO		13 11	
A 230	1		P6-JJ P16-28					.22 .10	NO NO		13 11	
A 231	1		P8-B E5					.22 .37	NO NO		13	
A 232	1		P8-K E5					.22 .37	NO NO		13	
A 233	1		P8-P E5					.22 .37	NO NO		13	
A 234	1		P8-T P2-X					.22 .22	NO NO		13 13	
A 235	1		P8-U P2-Y					.22 .22	NO NO		13 13	
A 236	1		P9-A P205-5					.22 .10	NO NO		13 12	
A 237	1		P9-B E4					.22 .37	NO NO		13	
A 238	1		P9-C P20-10					.22 .10	NO NO		13 11	
A 239	1		P9-E P205-9					.22 .10	NO NO		13 12	
A 240	1		P9-F E4					.22 .37	NO NO		13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-G P20-11					.22 .10	NO NO		13 11	
A 242	1		P9-B* P205-12					.22 .10	NO NO		13 12	
A 243	1		P9-C* E4					.22 .37	NO NO		13	
A 244	1		P9-D* P20-17					.22 .10	NO NO		13 11	
A 245	1		P9-F* P205-18					.22 .10	NO NO		13 12	
A 246	1		P9-G* E4					.22 .37	NO NO		13	
A 247	1		P9-H* P20-32					.22 .10	NO NO		13 11	
A 248	1		P9-J* P196-18					.22 .10	NO NO		13 12	
A 249	1		P9-M* P11-18					.22 .10	NO NO		13 12	
A 250	1		P9-P* P196-17					.22 .10	NO NO		13 12	
A 251	1		P9-O* P196-26					.22 .10	NO NO		13 12	
A 252	1		P9-R* P11-17					.22 .10	NO NO		13 11	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-S* E7					.22 .37	NO NO		13	
A 254	1		P9-T* P205-15					.22 .10	NO NO		13 12	
A 255	1		P9-U* E4					.22 .37	NO NO		13	
A 256	1		P9-V* P20-24					.22 .10	NO NO		13 11	
A 257	1		P9-X* P205-4					.22 .10	NO NO		13 12	
A 258	1		P9-Y* E4					.22 .37	NO NO		13	
A 259	1		P9-Z* P20-2					.22 .10	NO NO		13 11	
A 260	1		P9-FF P206-A					.22 .20	NO YES		13	
A 261	1		P9-GG P206-B					.22 .20	NO YES		13	
A 262	1		P9-JJ P199-16					.22 .10	NO NO		13 12	
A 263	1		P9-NN P199-17					.22 .10	NO NO		13 12	
A 264	1		E5 E8					.37 .37	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P13-8 E9					.10 .37	NO NO		11	
A 266	1		P13-16 E9					.10 .37	NO NO		11	
A 267	1		P13-22 E9					.10 .37	NO NO		11	
A 268	1		P13-30 E9					.10 .37	NO NO		11	
A 269	1		P13-38 E9					.10 .37	NO NO		11	
A 270	1		P14-8 E10					.10 .37	NO NO		11	
A 271	1		P14-16 E10					.10 .37	NO NO		11	
A 272	1		P14-22 E10					.10 .37	NO NO		11	
A 273	1		P14-30 E10					.10 .37	NO NO		11	
A 274	1		P14-38 E10					.10 .37	NO NO		11	
A 275	1		P198-7 E11					.10 .37	NO NO		12	
A 276	1		P198-15 E11					.10 .37	NO NO		12	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P198-36 E11					.10 .37	NO NO		12	
A 278	1		P198-37 E11					.10 .37	NO NO		12	
A 279	1		P2-U* P207-Y					.22 .25	NO YES		13	
A 280	1		P207-G P8-X					.25 .22	YES NO		 13	
A 281	1		P207-H P8-Y					.25 .22	YES NO		 13	
A 282	1		P207-M E12					.25 .37	YES NO			
A 283	1		P207-S E12					.25 .37	YES NO			
A 284	1		P207-Z E12					.25 .37	YES NO			
A 285	1		P21-C* E13					.22 .37	NO NO		13	
A 286	1		P21-D* E13					.22 .37	NO NO		13	
A 287	1		P21-E* E13					.22 .37	NO NO		13	
A 288	1		P21-F* E13					.22 .37	NO NO		13	

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P21-G* E13					.22 .37	NO NO		13	
A 290	1		P4-F* P207-K					.22 .25	NO YES		13	
A 291	1		P4-G* P4-I*					.22 .22	NO NO		13 13	
A 292	1		P4-H* P207-B*					.22 .25	NO YES		13	
A 293	1		P207-F P21-H					.25 .22	YES NO		 13	
A 294	1		P21-K P21-X					.22 .22	NO NO		13 13	
A 295	1		P207-L P207-V					.25 .25	YES YES			
A 296	1		P21-U P21-M					.22 .22	NO NO		13 13	
A 297	1		P207-B P207-A					.25 .25	YES YES			
A 298	1		P21-P P21-S					.22 .22	NO NO		13 13	
A 299	1		P207-D P207-U					.25 .25	YES YES			
A 300	1		P21-W P21-Z					.22 .22	NO NO		13 13	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 30 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P4-K* P21-G					.22 .22	NO NO		13 13	
A 302	1		P4-J* P21-Y					.22 .22	NO NO		13 13	
A 303	1		P21-J P21-L					.22 .22	NO NO		13 13	
A 304	1		P21-T P21-N					.22 .22	NO NO		13 13	
A 305	1		P21-R P21-V					.22 .22	NO NO		13 13	
A 306	2		P7-I* P2-PP					.22 .22	NO NO		13	
A 307	1		P7-T P198-2					.22 .10	NO NO		13 12	
A 308	1		P7-U P198-1					.22 .10	NO NO		13 12	
A 309	1		P7-X P198-3					.22 .10	NO NO		13 12	
A 310	1		P7-P* P199-2					.22 .10	NO NO		13 12	
A 311	1		P7-Q* P199-1					.22 .10	NO NO		13 12	
A 312	1		P4-E P196-34					.22 .10	NO NO		13 12	

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 31 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901236 E

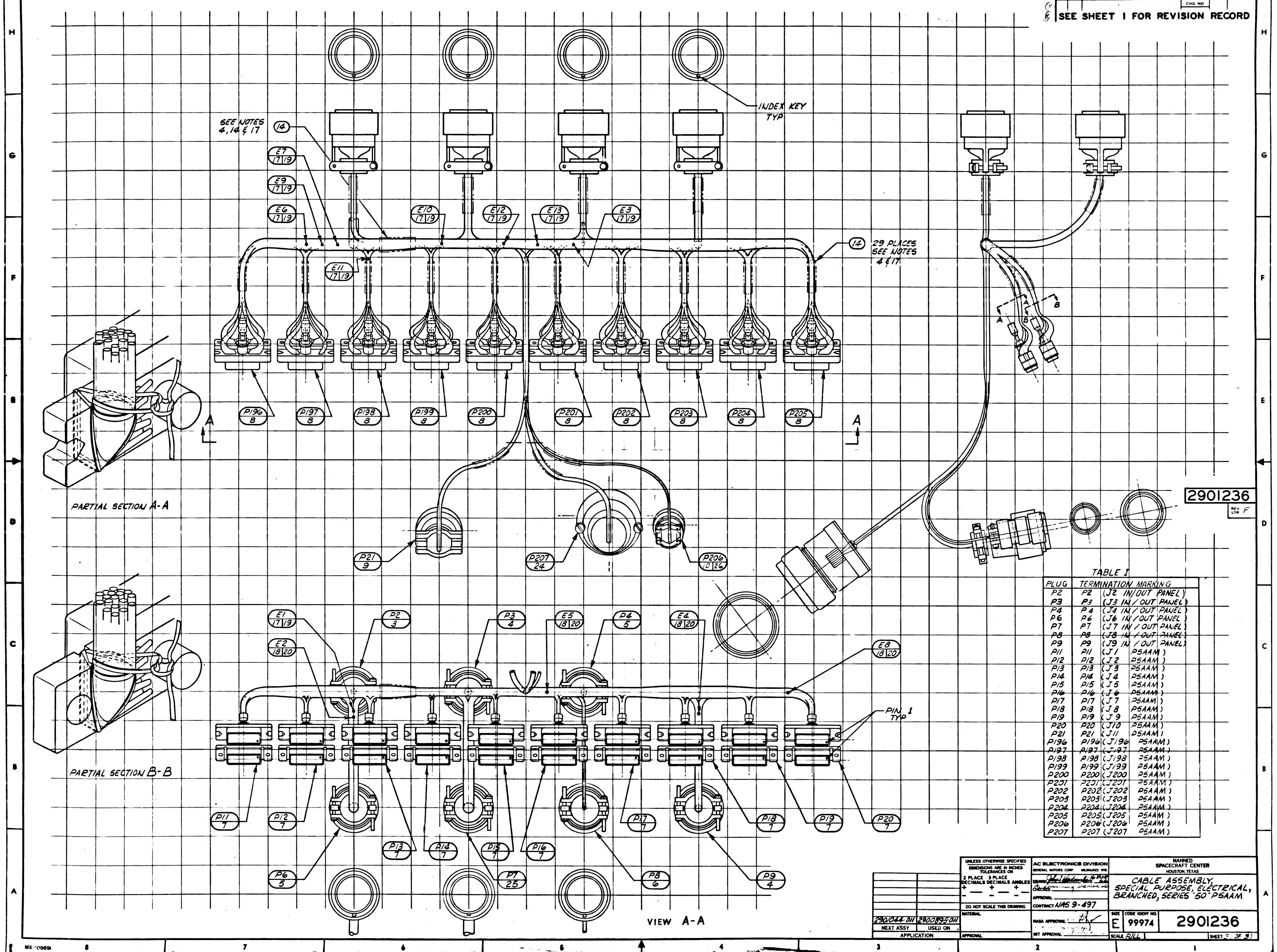
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	2		P4-F P9-Q*					.22 .22	NO NO		13	
A 314	2		E3 P8-U					.37 .22	NO NO			

SIZE A | CODE IDENT NO. 99974 | 2901236

SCALE-NONE | REV LTR E | SHEET 32 OF 33

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			



SEE NOTES 4, 14 & 17
14
E7 17 19
E9 17 19
E6 17 19
E10 17 19
E11 17 19
E12 17 19
E13 17 19
E3 17 19
INDEX KEY TYP
14 29 PLACES SEE NOTES 4 & 17
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P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
PARTIAL SECTION A-A
P21 9
P207 24
P206 10 26
E1 17 19
E2 18 20
P2 3
P3 4
E5 18 20
P4 5
E4 18 20
E8 18 20
PIN 1 TYP
P11 7
P12 7
P13 7
P14 7
P15 7
P16 7
P17 7
P18 7
P19 7
P20 7
P6 5
P7 25
P8 6
P9 4
PARTIAL SECTION B-B
VIEW A-A

2901236 REV LTR F

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN / OUT PANEL)
P4	P4 (J4 IN / OUT PANEL)
P6	P6 (J6 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 16 MAR 66
CHECKED 24 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "50" PSAAM

SIZE E
CODE IDENT NO. 99974
2901236
SCALE FULL
SHEET [illegible] OF 33

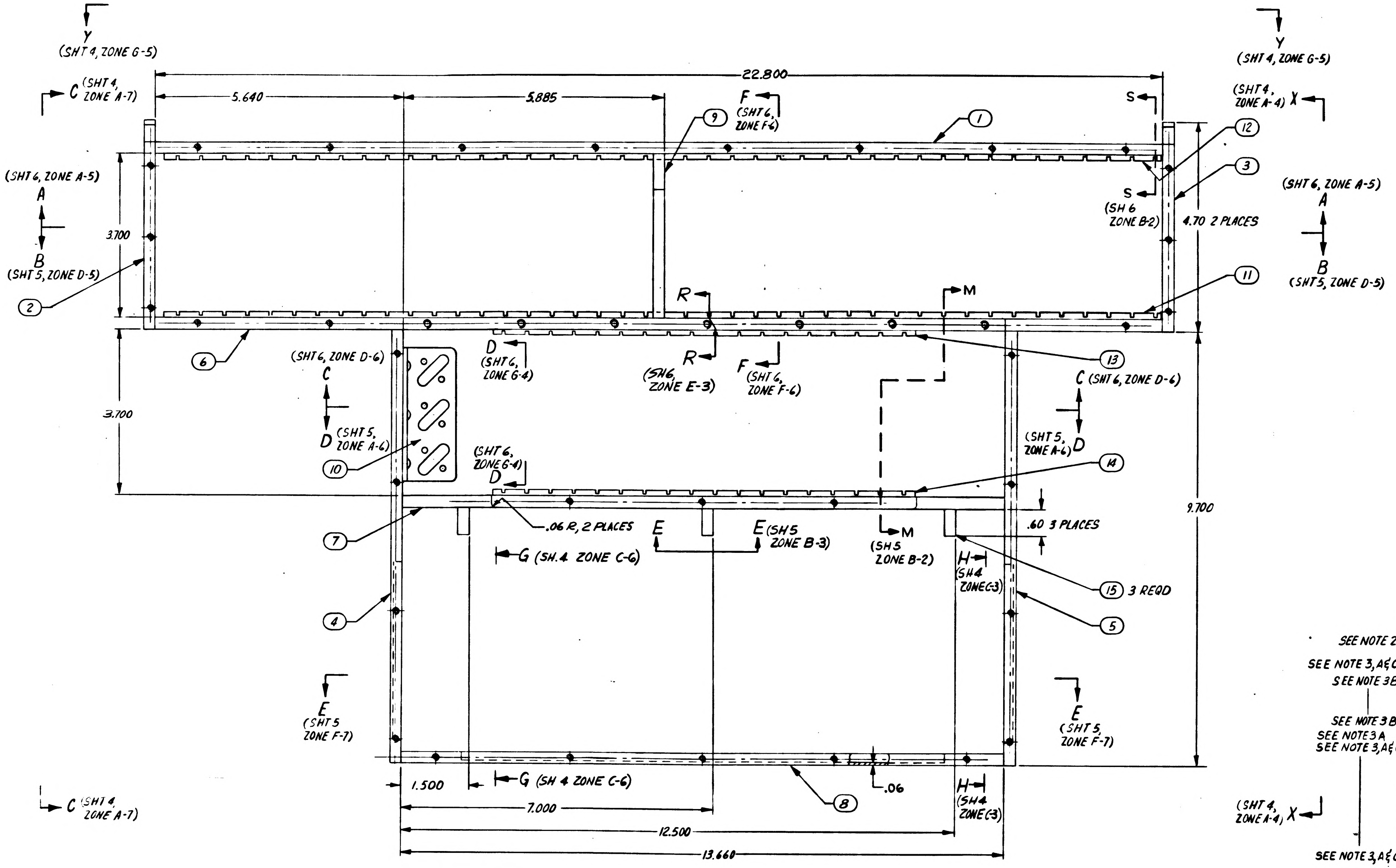
MX-10989

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.
3. MATERIAL:
   - A. ALUMINUM ALLOY PER QQ-A-250/8 TEMPER F (ES2105 TYPE 5052).
   - B. NYLON PER MIL-P-17091 TYPE I (ES2727).
   - C. UNLESS OTHERWISE SPECIFIED MATERIAL IS .237-.263 THICK.
4. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130(ES267).
6. MUST BE FREE FROM BURRS AND SHARP EDGES.
7. BONDING:
   - A. DEGREASE ITEMS (1), (6) AND (7) AND APPLY .002-.005 THICK FILM OF ADHESIVE PER ND1002187, TYPE I. CURE AT 145° TO 155°F FOR 1.0 TO 1.5 HOURS.
   - B. DEGREASE NYLON AND APPLY FILM OF ITEM (18) TO ITEMS (11), (12), (13) AND (14). PRESS ITEM (12) TO ITEM (1), ITEMS (11) AND (13) TO ITEM (6) AND ITEM (14) TO ITEM (7) AND REMOVE EXCESS ADHESIVE. CURE AT 145° TO 155°F FOR 2 HOURS MIN.
8. FINISH:
   - A. MIL-C-5541 (ES591 CHEMICAL FILM) ALL OVER.
   - B. APPLY ITEM (19) AND TWO COATS OF ITEM (20) TO ALL OUTSIDE SURFACES EXCEPT COVER MOUNTING SURFACES.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC211977		19 APR 66	
	B	INITIAL RELEASE CLASS A PER TDRR 2764		2 MAY 66	


Y (SHT 4, ZONE G-5)
Y (SHT 4, ZONE G-5)
C (SHT 4, ZONE A-7)
22.800
5.640
5.885
S
F (SHT 6, ZONE F-6)
9
1
(SHT 4, ZONE A-4) X
12
3
S (SH 6 ZONE B-2)
4.70 2 PLACES
(SHT 6, ZONE A-5) A
B (SHT 5, ZONE D-5)
(SHT 6, ZONE A-5) A
B (SHT 5, ZONE D-5)
3.700
2
11
R
M
6
13
(SHT 6, ZONE D-6) C
D (SHT 5, ZONE A-6)
D (SHT 6, ZONE G-4)
R (SH6, ZONE E-3)
F (SHT 6, ZONE F-6)
C (SHT 6, ZONE D-6)
(SHT 5, ZONE A-6) D
3.700
10
(SHT 6, ZONE G-4) D
14
9.700
7
.06 R, 2 PLACES
E
E (SH 5 ZONE B-3)
M (SH 5 ZONE B-2)
.60 3 PLACES
G (SH.4 ZONE C-6)
H (SH4 ZONE C-3)
15 3 REQD
4
5
E (SHT 5 ZONE F-7)
E (SHT 5 ZONE F-7)
C (SHT 4 ZONE A-7)
1.500
G (SH 4 ZONE C-6)
8
.06
H (SH4 ZONE C-3)
7.000
12.500
13.660
(SHT 4, ZONE A-4) X

	ITEM NO	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	20	AR	TT-E-529, CLASS B, COLOR 26440 OF FED-STD-595	LIGHT GRAY ENAMEL
	19	AR	MIL-P-8585	PRIMER (ES2589)
	18	AR	MMM-A-181	ADHESIVE
SEE NOTE 2	17	38	1897282-001	RIVET, BLIND-DRIVE PIN
	16	3	MS16535-157	RIVET
SEE NOTE 3, A&C	15	3	2901241-015	PAD
SEE NOTE 3B	14	1	-014	GUIDE
	13	1	-013	GUIDE
	12	1	-012	GUIDE
SEE NOTE 3B	11	1	-011	GUIDE
SEE NOTE 3A	10	1	-010	BRACKET
SEE NOTE 3, A&C	9	1	-009	SPACER
	8	1	-008	BOTTOM
	7	1	-007	DIVIDER
	6	1	-006	DIVIDER
	5	1	-005	SIDE
	4	1	-004	SIDE
	3	1	-003	SIDE
	2	1	-002	SIDE
SEE NOTE 3, A&C	1	1	2901241-001	TOP

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 3
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 30-MAR-66
CHECKED Ed Foster 2 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

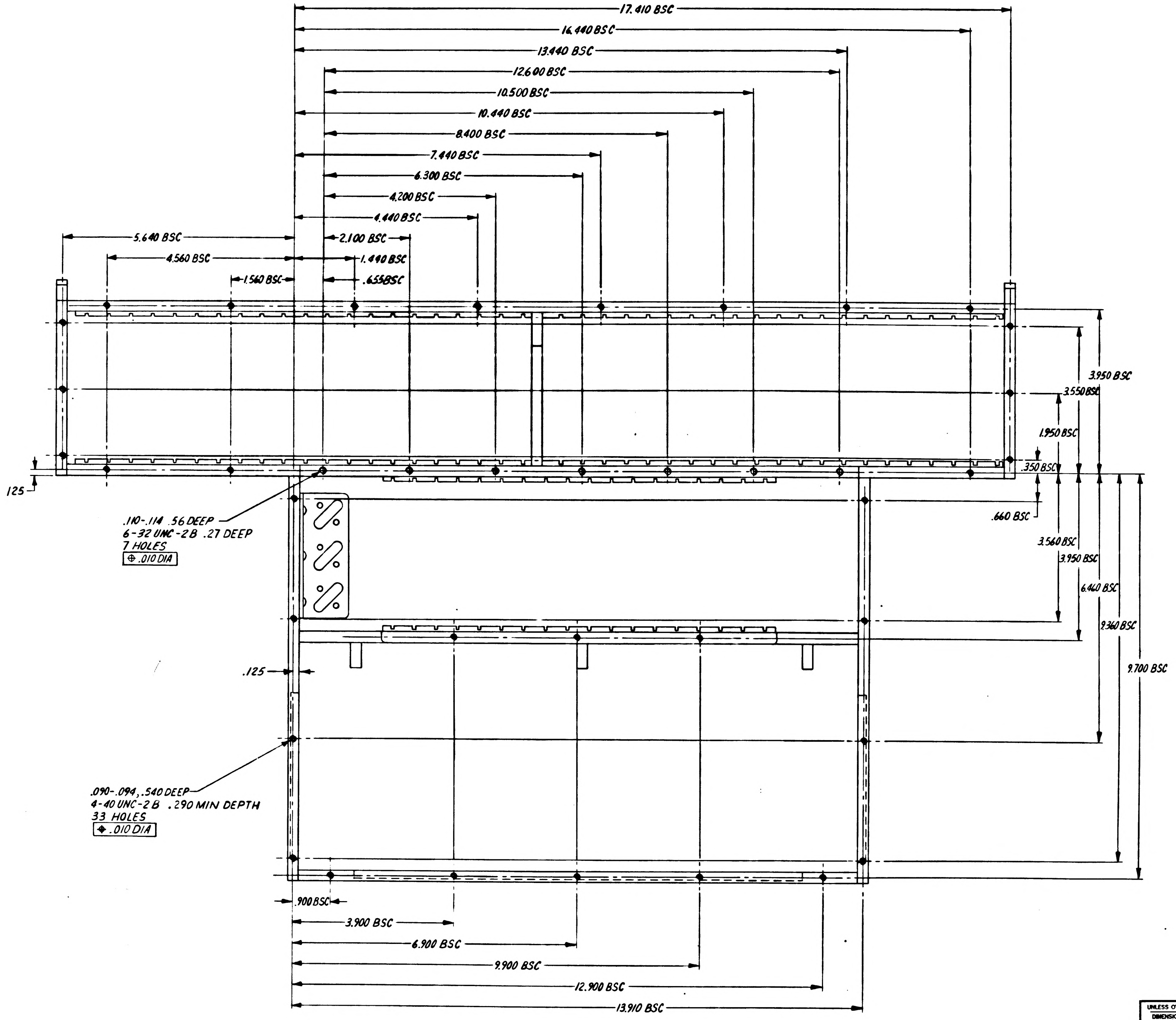
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET

4 APR 66

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 APR 66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28641		MAY 66	EF



17.410 BSC
16.440 BSC
13.440 BSC
12.600 BSC
10.500 BSC
10.440 BSC
8.400 BSC
7.440 BSC
6.300 BSC
4.200 BSC
4.440 BSC
5.640 BSC
4.560 BSC
2.100 BSC
1.440 BSC
1.560 BSC
.655 BSC
3.950 BSC
3.550 BSC
1.950 BSC
.350 BSC
.660 BSC
3.560 BSC
3.950 BSC
6.460 BSC
9.360 BSC
9.700 BSC
125
.110-.114 .56 DEEP
6-32 UNC-2B .27 DEEP
7 HOLES
⊕ .010 DIA
.125
.090-.094, .540 DEEP
4-40 UNC-2B .290 MIN DEPTH
33 HOLES
◆ .010 DIA
.900 BSC
3.900 BSC
6.900 BSC
9.900 BSC
12.900 BSC
13.910 BSC

TOP COVER MOUNTING HOLES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

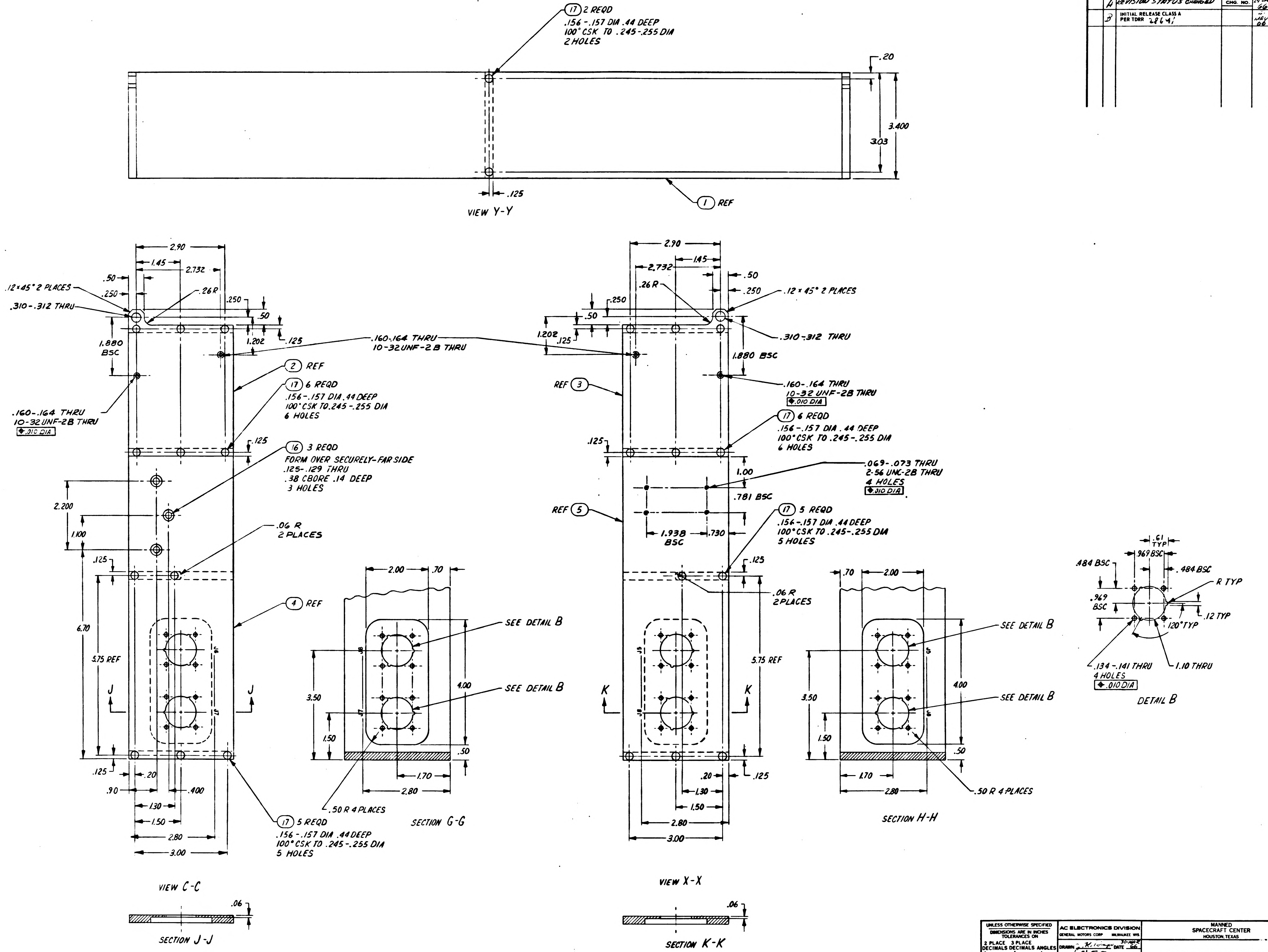
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN [illegible] DATE
CHECKED Ed Foster 1 APR 66
APPROVAL [illegible]
CONTRACT NAS 9-497
NASA APPROVAL [illegible]
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET 2 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 APR 66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28641		4 MAY 66	GW EF



(17) 2 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
2 HOLES
.20
3.400
3.03
.125
(1) REF
VIEW Y-Y
2.90
1.45
2.732
.50
.250
.12×45° 2 PLACES
.310-.312 THRU
.26R
.250
.50
1.202
.125
1.880 BSC
.160-.164 THRU
10-32UNF-2B THRU
(2) REF
(17) 6 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
.160-.164 THRU
10-32UNF-2B THRU
.010 DIA
.125
(16) 3 REQD
FORM OVER SECURELY-FAR SIDE
.125-.129 THRU
.38 CBORE .14 DEEP
3 HOLES
2.200
1.100
.06 R
2 PLACES
.125
6.70
5.75 REF
(4) REF
J
J
.125
.20
.90
.400
1.30
1.50
2.80
3.00
(17) 5 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
5 HOLES
VIEW C-C
2.00
.70
SEE DETAIL B
SEE DETAIL B
3.50
4.00
1.50
.50
1.70
2.80
.50 R 4 PLACES
SECTION G-G
REF (3)
.160-.164 THRU
10-32UNF-2B THRU
.010 DIA
(17) 6 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
.069-.073 THRU
2-56 UNC-2B THRU
4 HOLES
.010 DIA
1.00
.781 BSC
REF (5)
1.938 BSC
.730
(17) 5 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
5 HOLES
.125
.06 R
2 PLACES
K
K
5.75 REF
.20
.125
1.30
1.50
2.80
3.00
VIEW X-X
.70
2.00
SEE DETAIL B
SEE DETAIL B
3.50
4.00
1.50
.50
1.70
2.80
.50 R 4 PLACES
SECTION H-H
.61 TYP
.969 BSC
.484 BSC
.484 BSC
.969 BSC
R TYP
.12 TYP
120° TYP
.134-.141 THRU
4 HOLES
.010 DIA
1.10 THRU
DETAIL B
.06
SECTION J-J
.06
SECTION K-K

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
±.02	±.005	±2°

DO NOT SCALE THIS DRAWING

MATERIAL

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN J. Kilvinger DATE 30-MAR 66
CHECKED Ed Foster 2 APR 66
APPROVAL
CONTRACT NAS 9-497

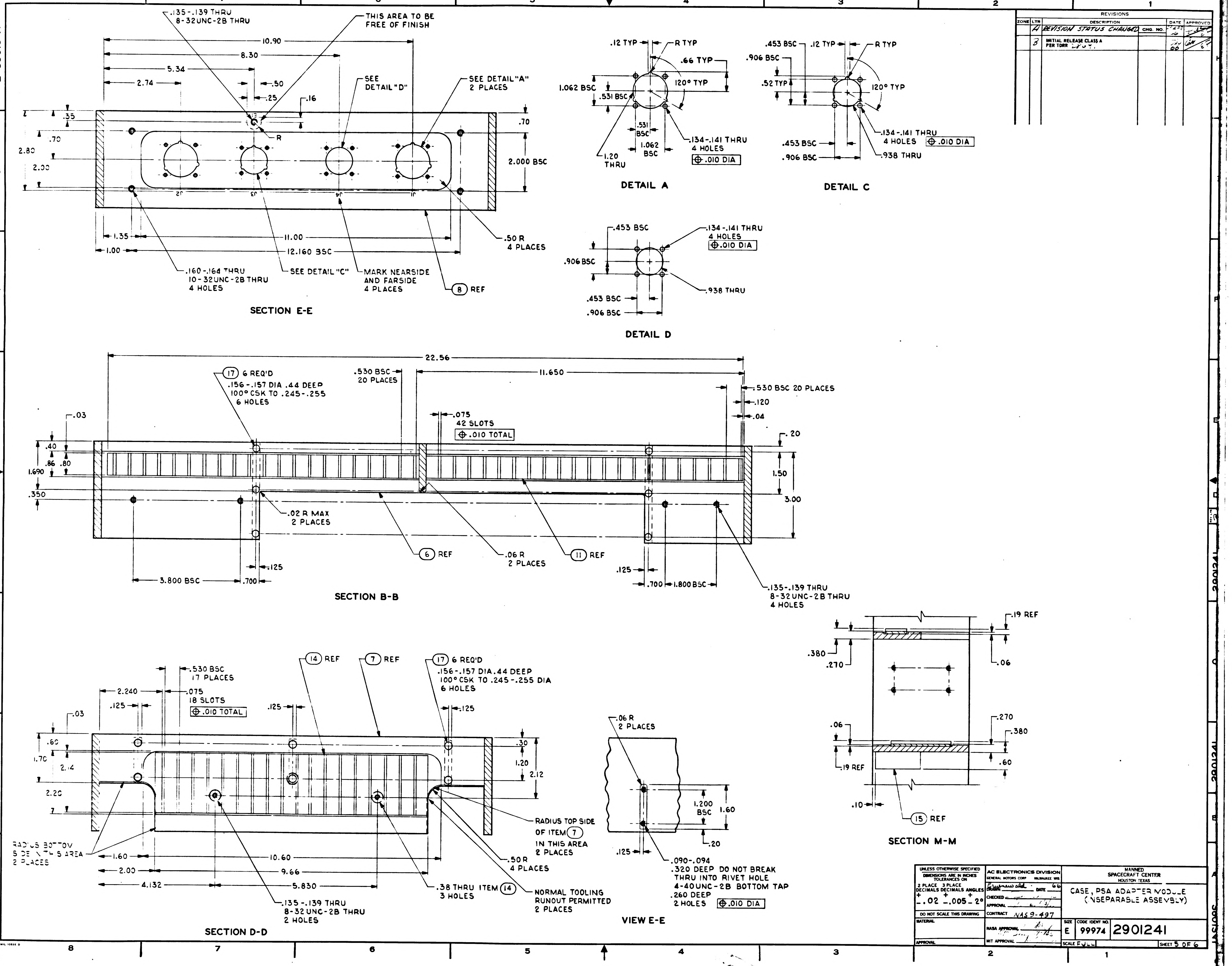
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241

SCALE FULL
SHEET 4 OF 6


.135-.139 THRU
8-32UNC-2B THRU
THIS AREA TO BE FREE OF FINISH
10.90
8.30
5.34
2.74
.50
.25
.16
SEE DETAIL "D"
SEE DETAIL "A" 2 PLACES
.35
.70
2.80
2.00
R
J2
J3
J4
J1
.70
2.000 BSC
1.35
11.00
1.00
12.160 BSC
.50 R 4 PLACES
.160-.164 THRU
10-32UNC-2B THRU
4 HOLES
SEE DETAIL "C"
MARK NEARSIDE AND FARSIDE 4 PLACES
8 REF
SECTION E-E
.12 TYP
R TYP
.66 TYP
120° TYP
1.062 BSC
.531 BSC
.531 BSC
1.062 BSC
1.20 THRU
.134-.141 THRU
4 HOLES
.010 DIA
DETAIL A
.453 BSC
.12 TYP
R TYP
.906 BSC
.52 TYP
120° TYP
.453 BSC
.906 BSC
.134-.141 THRU
4 HOLES
.010 DIA
.938 THRU
DETAIL C
.453 BSC
.134-.141 THRU
4 HOLES
.010 DIA
.906 BSC
.453 BSC
.906 BSC
.938 THRU
DETAIL D
22.56
17 6 REQ'D
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255
6 HOLES
.530 BSC 20 PLACES
11.650
.530 BSC 20 PLACES
.120
.04
.075
42 SLOTS
.010 TOTAL
.03
.40
.86
.80
1.690
.350
.20
1.50
3.00
.02 R MAX 2 PLACES
6 REF
.06 R 2 PLACES
11 REF
.125
3.800 BSC
.700
.125
.700
1.800 BSC
.135-.139 THRU
8-32UNC-2B THRU
4 HOLES
SECTION B-B
.19 REF
.380
.270
.06
.06
.270
.380
.19 REF
.60
.10
15 REF
SECTION M-M
.530 BSC 17 PLACES
14 REF
7 REF
17 6 REQ'D
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
2.240
.075
18 SLOTS
.010 TOTAL
.125
.125
.125
.03
.60
1.70
2.14
2.20
.30
1.20
2.12
RADIUS BOTTOM SIDE IN THIS AREA 2 PLACES
RADIUS TOP SIDE OF ITEM 7 IN THIS AREA 2 PLACES
1.60
10.60
2.00
9.66
4.132
5.830
.50 R 4 PLACES
.38 THRU ITEM 14 3 HOLES
NORMAL TOOLING RUNOUT PERMITTED 2 PLACES
.135-.139 THRU
8-32UNC-2B THRU
2 HOLES
SECTION D-D
.06 R
2 PLACES
1.200 BSC
1.60
.20
.125
.090-.094
.320 DEEP DO NOT BREAK THRU INTO RIVET HOLE
4-40UNC-2B BOTTOM TAP
.260 DEEP
2 HOLES
.010 DIA
VIEW E-E

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		[illegible] 66	[illegible]
	B	INITIAL RELEASE CLASS A PER TDRR [illegible]		[illegible] 66	[illegible]

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

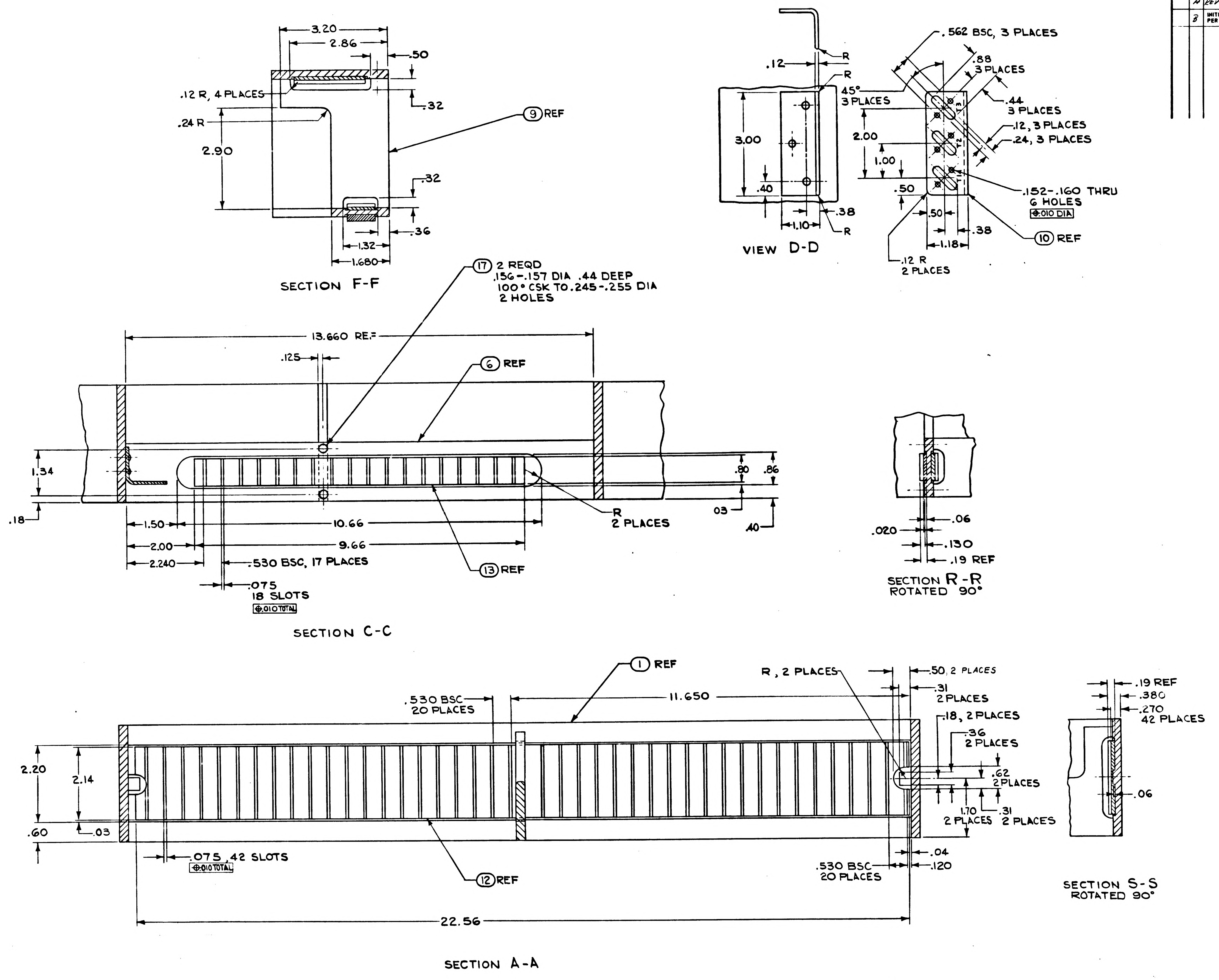
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Gruenewald DATE 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL 7-66
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET 5 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28041		66	EF



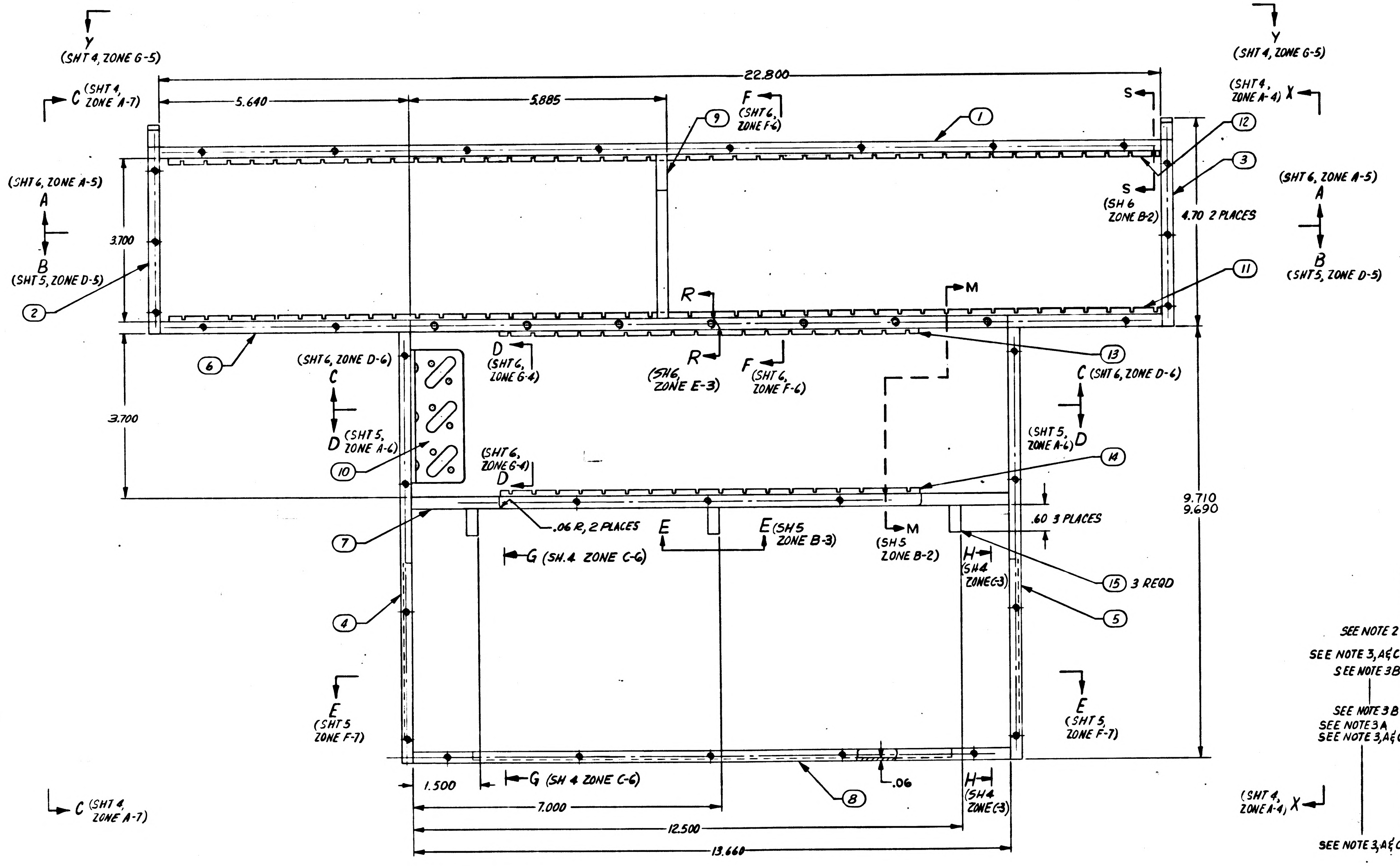
3.20
2.86
.50
.12 R, 4 PLACES
.32
9 REF
.24 R
2.90
.32
.36
1.32
1.680
SECTION F-F
.12
R
R
45°
3 PLACES
3.00
.40
1.10
.38
R
VIEW D-D
.562 BSC, 3 PLACES
.88
3 PLACES
.44
3 PLACES
.12, 3 PLACES
.24, 3 PLACES
2.00
1.00
.50
.152-.160 THRU
6 HOLES
⊕.010 DIA
.50
1.18
.38
10 REF
.12 R
2 PLACES
17 2 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
2 HOLES
13.660 REF
.125
6 REF
1.34
.18
.80
.86
03
.40
R
2 PLACES
1.50
10.66
2.00
9.66
2.240
.530 BSC, 17 PLACES
13 REF
.075
18 SLOTS
⊕.010 TOTAL
SECTION C-C
.020
.06
.130
.19 REF
SECTION R-R
ROTATED 90°
1 REF
R, 2 PLACES
.50, 2 PLACES
.31
2 PLACES
.530 BSC
20 PLACES
11.650
.18, 2 PLACES
.36
2 PLACES
.62
2 PLACES
1.70
2 PLACES
.31
2 PLACES
2.20
2.14
.60
.03
.075, 42 SLOTS
⊕.010 TOTAL
12 REF
.530 BSC
20 PLACES
.04
.120
22.56
SECTION A-A
.19 REF
.380
.270
42 PLACES
.06
SECTION S-S
ROTATED 90°

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES ±2°	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS. DRAWN M. Grabner DATE 30 MAR 66 CHECKED Ed Foster 2 APR 66 APPROVAL CONTRACT NAS9-497	MANNED SPACECRAFT CENTER HOUSTON, TEXAS CASE, PSA ADAPTER MODULE (INSEPARABLE ASSEMBLY)
DO NOT SCALE THIS DRAWING		
MATERIAL —	NASA APPROVAL	SIZE E CODE IDENT NO. 99974 2901241
APPROVAL	MIT APPROVAL	SCALE FULL SHEET 6 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 211977		29 APR 66	
	B	INITIAL RELEASE CLASS A PER TDRR 28641		66	
	C	REVISED PER TDRR 3025		26 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. MATERIAL:
   A. ALUMINUM ALLOY PER QQ-A-250/8 TEMPER F (ES2105 TYPE 5052).
   B. NYLON PER MIL-P-17091 TYPE I (ES2727).
   C. UNLESS OTHERWISE SPECIFIED MATERIAL IS .237-.263 THICK.
4. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
6. MUST BE FREE FROM BURRS AND SHARP EDGES.
7. BONDING:
   A. DEGREASE ITEMS ①, ⑥ AND ⑦ AND APPLY .002-.005 THICK FILM OF ADHESIVE PER ND1002187, TYPE I. CURE AT 145° TO 155°F FOR 1.0 TO 1.5 HOURS.
   B. DEGREASE NYLON AND APPLY FILM OF ITEM ⑱ TO ITEMS ⑪, ⑫, ⑬ AND ⑭. PRESS ITEM ⑫ TO ITEM ①, ITEMS ⑪ AND ⑬ TO ITEM ⑥ AND ITEM ⑭ TO ITEM ⑦ AND REMOVE EXCESS ADHESIVE. CURE AT 145° TO 155°F FOR 2 HOURS MIN.
8. FINISH:
   A. MIL-C-5541 (ES591 CHEMICAL FILM) ALL OVER.
   B. APPLY ITEM ⑲ AND TWO COATS OF ITEM ⑳ TO ALL OUTSIDE SURFACES EXCEPT COVER MOUNTING SURFACES.


Y
(SHT 4, ZONE G-5)
C (SHT 4, ZONE A-7)
22.800
5.640
5.885
F (SHT 6, ZONE F-6)
9
1
S
12
(SHT 4, ZONE A-4) X
3
S (SH 6 ZONE B-2)
4.70 2 PLACES
(SHT 6, ZONE A-5)
A
B
(SHT 5, ZONE D-5)
3.700
2
11
R
M
6
13
D (SHT 6, ZONE G-4)
R (SH6, ZONE E-3)
F (SHT 6, ZONE F-6)
C (SHT 6, ZONE D-6)
3.700
(SHT 6, ZONE D-6)
C
D (SHT 5, ZONE A-6)
(SHT 5, ZONE A-6) D
10
(SHT 6, ZONE G-4) D
14
9.710
9.690
.06 R, 2 PLACES
E
E (SH5 ZONE B-3)
M (SH5 ZONE B-2)
.60 3 PLACES
7
G (SH.4 ZONE C-6)
H (SH4 ZONE C-3)
15 3 REQD
4
5
E (SHT 5 ZONE F-7)
E (SHT 5, ZONE F-7)
1.500
G (SH 4 ZONE C-6)
.06
H (SH4 ZONE C-3)
8
7.000
12.500
13.660
C (SHT 4 ZONE A-7)
(SHT 4, ZONE A-4) X

	ITEM NO	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	20	AR	TT-E-529, CLASS B, COLOR 26440 OF FED-STD-595	LIGHT GRAY ENAMEL
	19	AR	MIL-P-8585	PRIMER (ES2589)
	18	AR	MMM-A-181	ADHESIVE
SEE NOTE 2	17	38	1897282-001	RIVET, BLIND-DRIVE PIN
	16	3	MS16535-157	RIVET
SEE NOTE 3, A&C	15	3	2901241-015	PAD
SEE NOTE 3B	14	1	-014	GUIDE
	13	1	-013	GUIDE
	12	1	-012	GUIDE
SEE NOTE 3B	11	1	-011	GUIDE
SEE NOTE 3A	10	1	-010	BRACKET
SEE NOTE 3, A&C	9	1	-009	SPACER
	8	1	-008	BOTTOM
	7	1	-007	DIVIDER
	6	1	-006	DIVIDER
	5	1	-005	SIDE
	4	1	-004	SIDE
	3	1	-003	SIDE
	2	1	-002	SIDE
SEE NOTE 3, A&C	1	1	2901241-001	TOP

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 3
APPROVAL

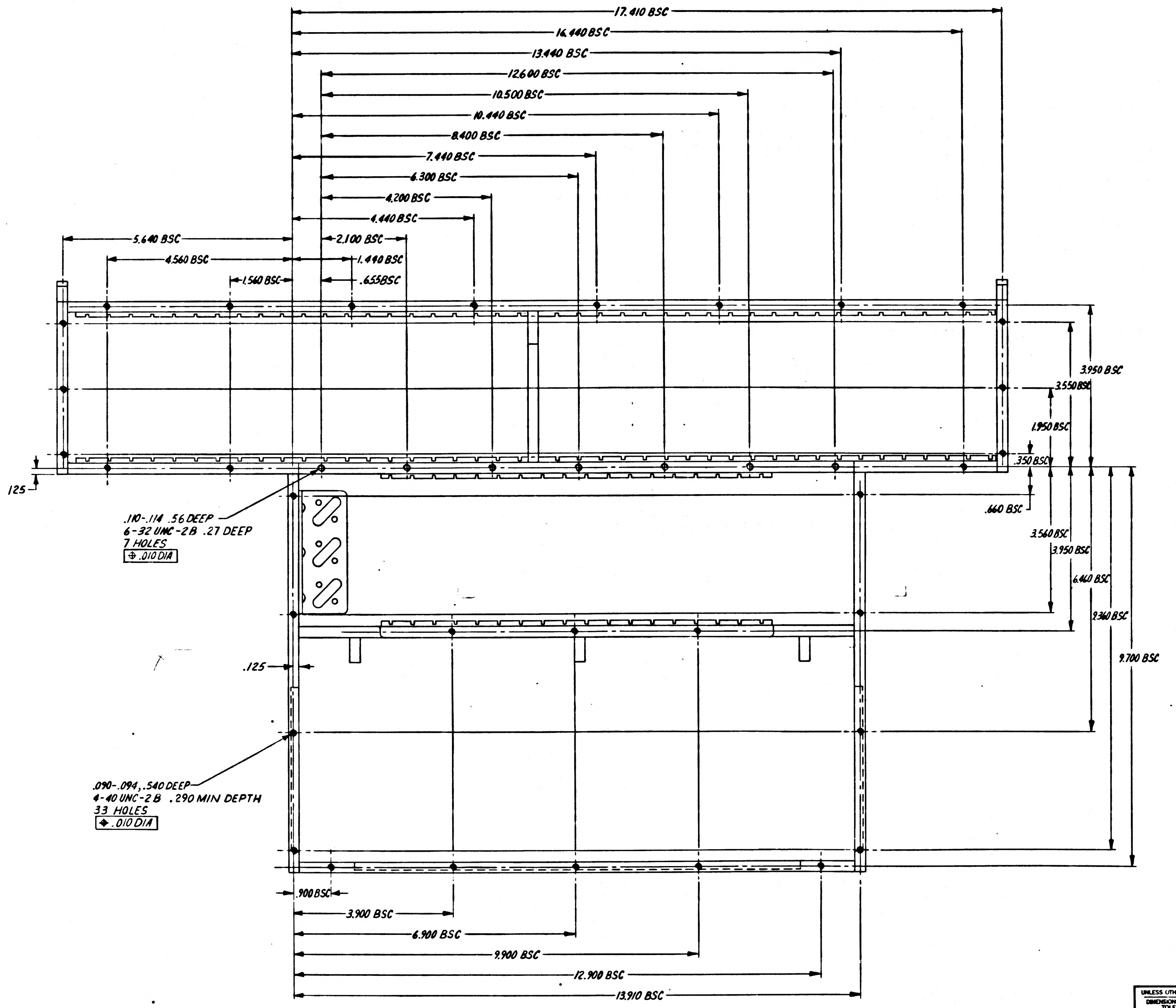
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN J. Kehrenger DATE 30-MAR 66
CHECKED Ed Foster 2 APR 66
APPROVAL L Yedman 4/5/66
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, FSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 APR 66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28641		4 MAY 66	GM EF
	C	REVISION STATUS CHANGED		26 JUN 66	



17.410 BSC
16.440 BSC
13.440 BSC
12.600 BSC
10.500 BSC
10.440 BSC
8.400 BSC
7.440 BSC
6.300 BSC
4.200 BSC
4.440 BSC
5.640 BSC
2.100 BSC
4.560 BSC
1.440 BSC
1.560 BSC
.655 BSC
3.950 BSC
3.550 BSC
1.950 BSC
.350 BSC
.125
.660 BSC
3.560 BSC
3.950 BSC
6.460 BSC
9.360 BSC
9.700 BSC
.110-.114 .56 DEEP
6-32 UNC-2B .27 DEEP
7 HOLES
⌖ .010 DIA
.125
.090-.094, .540 DEEP
4-40 UNC-2B .290 MIN DEPTH
33 HOLES
⌖ .010 DIA
.900 BSC
3.900 BSC
6.900 BSC
9.900 BSC
12.900 BSC
13.910 BSC

TOP COVER MOUNTING HOLES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
± .02	± .005	±

DO NOT SCALE THIS DRAWING

MATERIAL

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN Klinger DATE
CHECKED Ed Foster 1 APR 66
APPROVAL
CONTRACT NAS 9-497

NASA APPROVAL

MIT APPROVAL

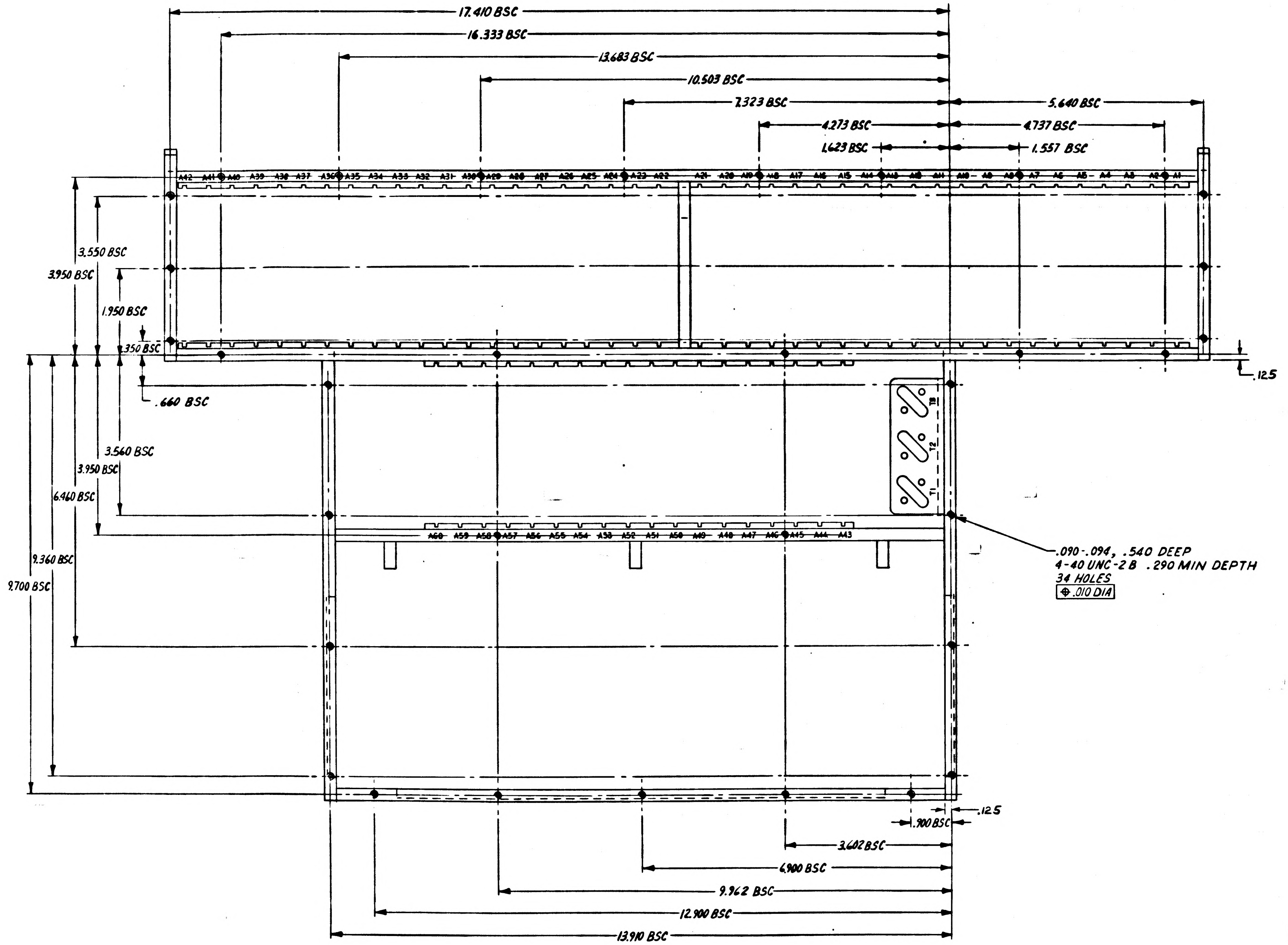
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241

SCALE FULL
SHEET 2 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 [illegible] 66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 24641		[illegible] 60	EF
	C	REVISION STATUS CHANGED		26 JUL 68	

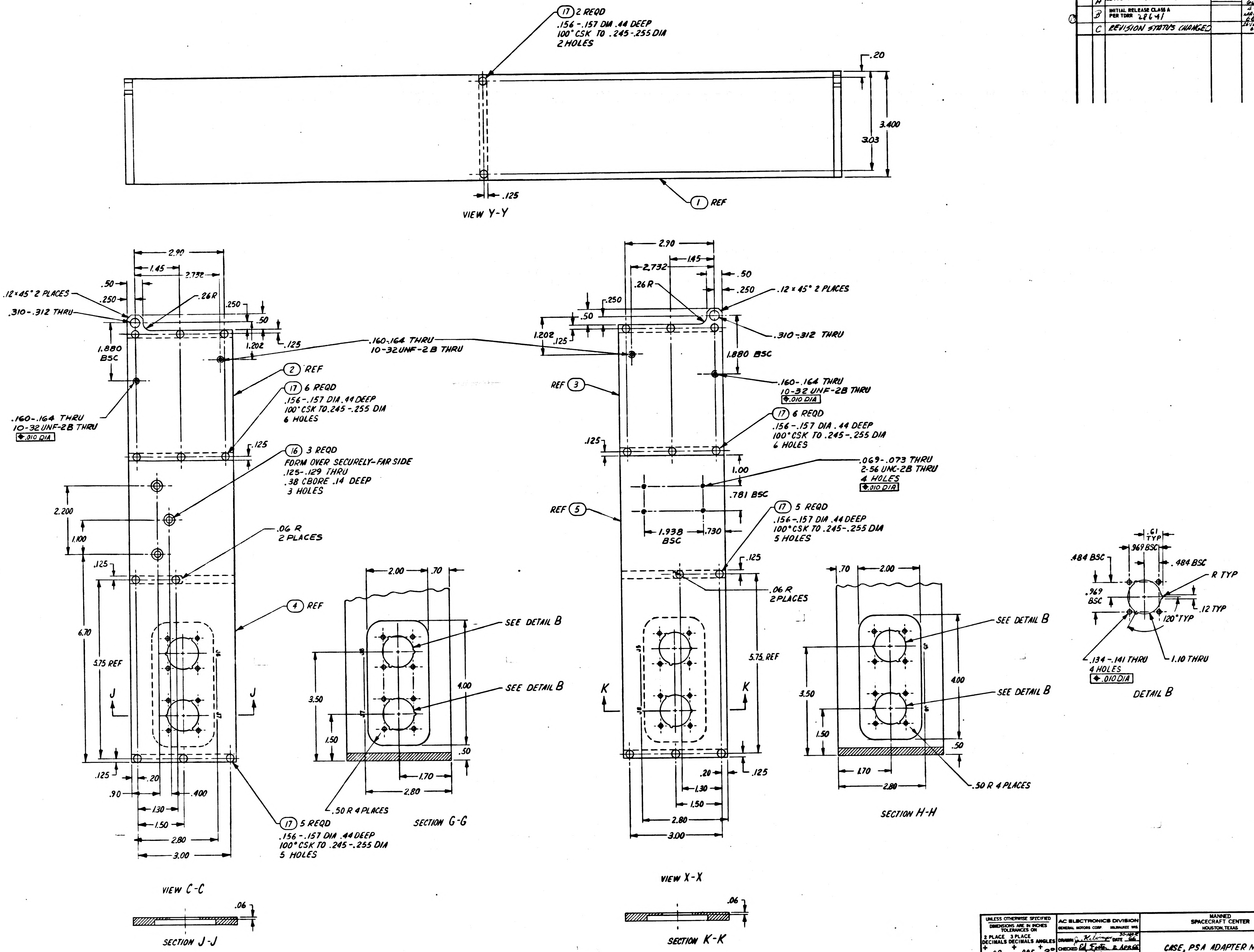


17.410 BSC
16.333 BSC
13.683 BSC
10.503 BSC
7.323 BSC
5.640 BSC
4.273 BSC
4.737 BSC
1.623 BSC
1.557 BSC
3.550 BSC
3.950 BSC
1.950 BSC
.350 BSC
.125
.660 BSC
3.560 BSC
3.950 BSC
6.460 BSC
9.360 BSC
9.700 BSC
.090-.094, .540 DEEP
4-40 UNC-2B .290 MIN DEPTH
34 HOLES
⊕ .010 DIA
.125
.900 BSC
3.602 BSC
6.900 BSC
9.962 BSC
12.900 BSC
13.910 BSC

BOTTOM COVER MOUNTING HOLES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .005 ANGLES ±	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN [illegible] DATE 29 MAR 66 CHECKED Ed Foster 1 APR 66 APPROVAL [illegible] CONTRACT NAS 9-497	CASE, PSA ADAPTER MODULE (INSEPARABLE ASSEMBLY)
MATERIAL	NASA APPROVAL [illegible]	SIZE E CODE IDENT NO. 99974 2901241
APPROVAL	MIT APPROVAL	SCALE FULL SHEET 5 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		29 APR 66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28641		4 MAY 66	EF
	C	REVISION STATUS CHANGED		26-JUL 66	



17 2 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
2 HOLES
.20
3.400
3.03
.125
1 REF
VIEW Y-Y
2.90
1.45
2.732
.50
.250
.12×45° 2 PLACES
.310-.312 THRU
.26R
.250
.50
1.202
.125
1.880 BSC
.160-.164 THRU
10-32UNF-2B THRU
2 REF
17 6 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
.160-.164 THRU
10-32 UNF-2B THRU
◆.010 DIA
.125
16 3 REQD
FORM OVER SECURELY-FAR SIDE
.125-.129 THRU
.38 CBORE .14 DEEP
3 HOLES
2.200
1.100
.06 R
2 PLACES
.125
4 REF
6.70
5.75 REF
J
J
.125
.20
.90
.400
1.30
1.50
2.80
3.00
17 5 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
5 HOLES
VIEW C-C
.06
SECTION J-J
2.00
.70
SEE DETAIL B
SEE DETAIL B
3.50
1.50
4.00
.50
1.70
2.80
.50 R 4 PLACES
SECTION G-G
REF 3
.160-.164 THRU
10-32 UNF-2B THRU
◆.010 DIA
17 6 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
.069-.073 THRU
2-56 UNC-2B THRU
4 HOLES
◆.010 DIA
1.00
.781 BSC
REF 5
1.938 BSC
.730
17 5 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
5 HOLES
.125
.06 R
2 PLACES
K
K
5.75 REF
.20
.125
1.30
1.50
2.80
3.00
VIEW X-X
.06
SECTION K-K
.70
2.00
SEE DETAIL B
SEE DETAIL B
3.50
1.50
4.00
.50
1.70
2.80
.50 R 4 PLACES
SECTION H-H
.61 TYP
.969 BSC
.484 BSC
.484 BSC
R TYP
.969 BSC
.12 TYP
120° TYP
.134-.141 THRU
4 HOLES
◆.010 DIA
1.10 THRU
DETAIL B

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
± .02	± .005	± 2°

DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

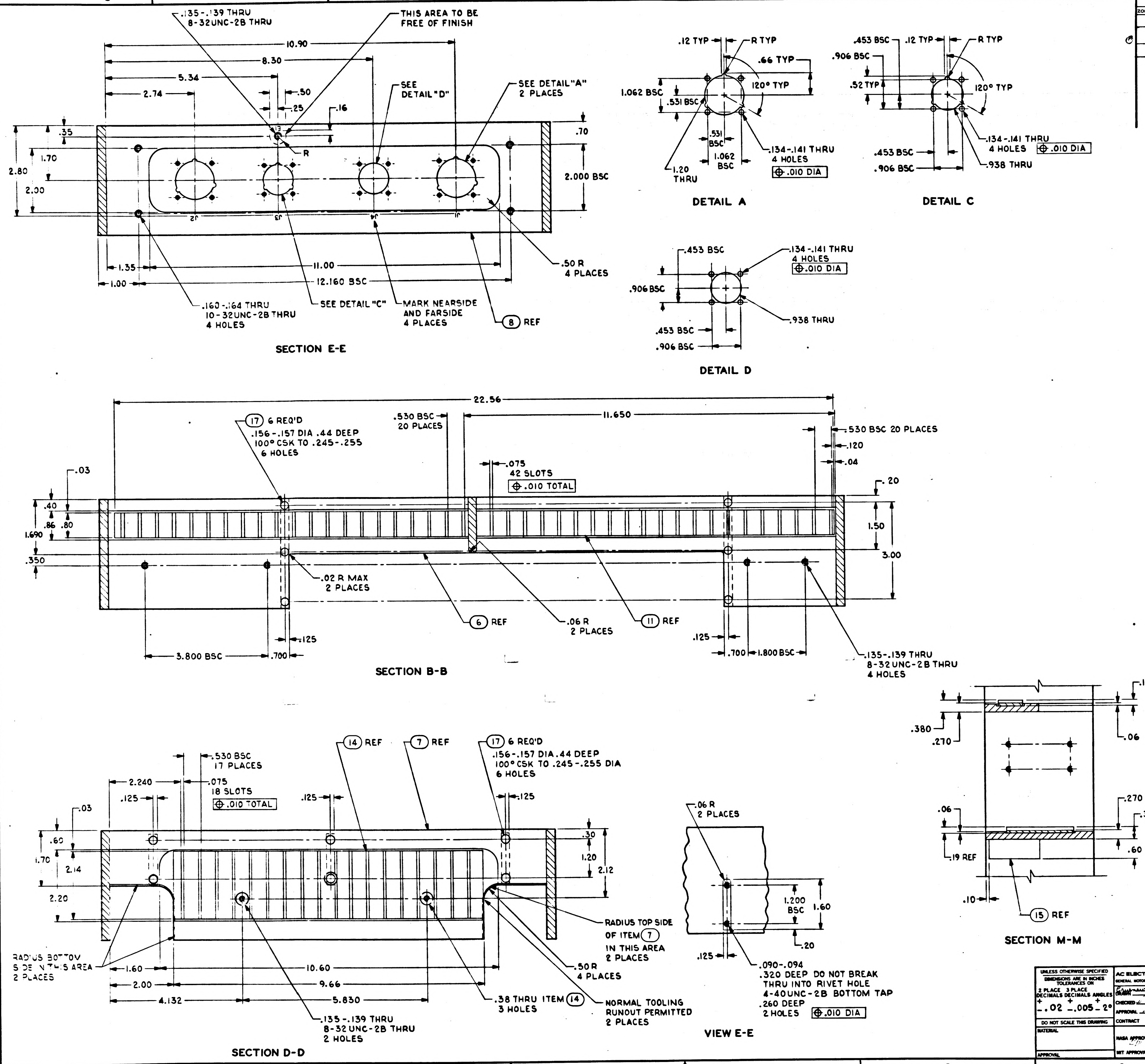
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. Kelvinger DATE 30-MAR 66
CHECKED Ed Foster 2 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET 4 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		66	
	B	INITIAL RELEASE CLASS A PER TDRR 28641		66	
	C	REVISION STATUS CHANGED			



.135-.139 THRU
8-32UNC-2B THRU
THIS AREA TO BE
FREE OF FINISH
10.90
8.30
5.34
2.74
.50
.25
.16
.13
R
SEE
DETAIL "D"
SEE DETAIL "A"
2 PLACES
.35
1.70
2.80
2.00
.70
2.000 BSC
1.35
1.00
11.00
12.160 BSC
.50 R
4 PLACES
.160-.164 THRU
10-32UNC-2B THRU
4 HOLES
SEE DETAIL "C"
MARK NEARSIDE
AND FARSIDE
4 PLACES
8 REF
SECTION E-E
.12 TYP
R TYP
.66 TYP
120° TYP
1.062 BSC
.531 BSC
.531 BSC
1.062 BSC
1.20 THRU
.134-.141 THRU
4 HOLES
.010 DIA
DETAIL A
.453 BSC
.906 BSC
.12 TYP
R TYP
.52 TYP
120° TYP
.453 BSC
.906 BSC
.134-.141 THRU
4 HOLES
.010 DIA
.938 THRU
DETAIL C
.453 BSC
.134-.141 THRU
4 HOLES
.010 DIA
.906 BSC
.453 BSC
.906 BSC
.938 THRU
DETAIL D
22.56
17 6 REQ'D
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255
6 HOLES
.530 BSC
20 PLACES
11.650
.530 BSC 20 PLACES
.120
.04
.075
42 SLOTS
.010 TOTAL
.03
.40
.86
.80
1.690
.350
.20
1.50
3.00
.02 R MAX
2 PLACES
6 REF
.06 R
2 PLACES
11 REF
.125
3.800 BSC
.700
.125
.700
1.800 BSC
.135-.139 THRU
8-32UNC-2B THRU
4 HOLES
SECTION B-B
.19 REF
.380
.270
.06
.06
.270
.380
.19 REF
.60
.10
15 REF
SECTION M-M
14 REF
7 REF
17 6 REQ'D
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
6 HOLES
.530 BSC
17 PLACES
.075
18 SLOTS
.010 TOTAL
2.240
.125
.125
.125
.03
.60
1.70
2.14
2.20
.30
1.20
2.12
RADIUS BOTTOM
SIDE IN THIS AREA
2 PLACES
1.60
2.00
4.132
10.60
9.66
5.830
RADIUS TOP SIDE
OF ITEM 7
IN THIS AREA
2 PLACES
.50 R
4 PLACES
.38 THRU ITEM 14
3 HOLES
NORMAL TOOLING
RUNOUT PERMITTED
2 PLACES
.135-.139 THRU
8-32UNC-2B THRU
2 HOLES
SECTION D-D
.06 R
2 PLACES
1.200 BSC
1.60
.20
.125
.090-.094
.320 DEEP DO NOT BREAK
THRU INTO RIVET HOLE
4-40UNC-2B BOTTOM TAP
.260 DEEP
2 HOLES
.010 DIA
VIEW E-E

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

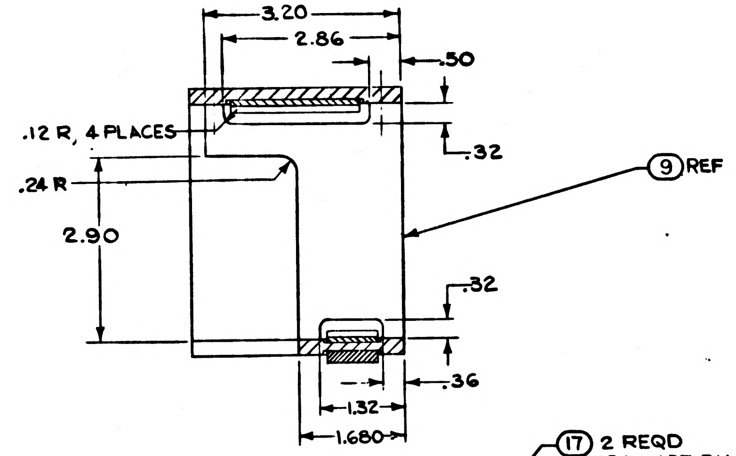
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Grunewald DATE 66
CHECKED
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

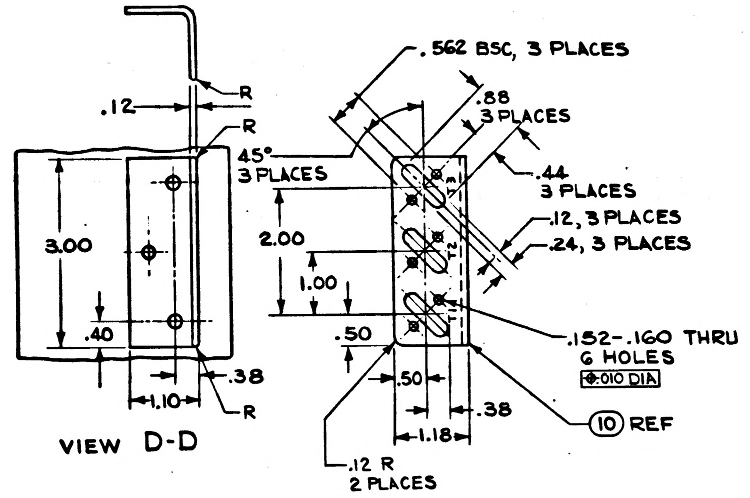
CASE, PSA ADAPTER MODULE
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901241
SCALE FULL
SHEET 5 OF 6

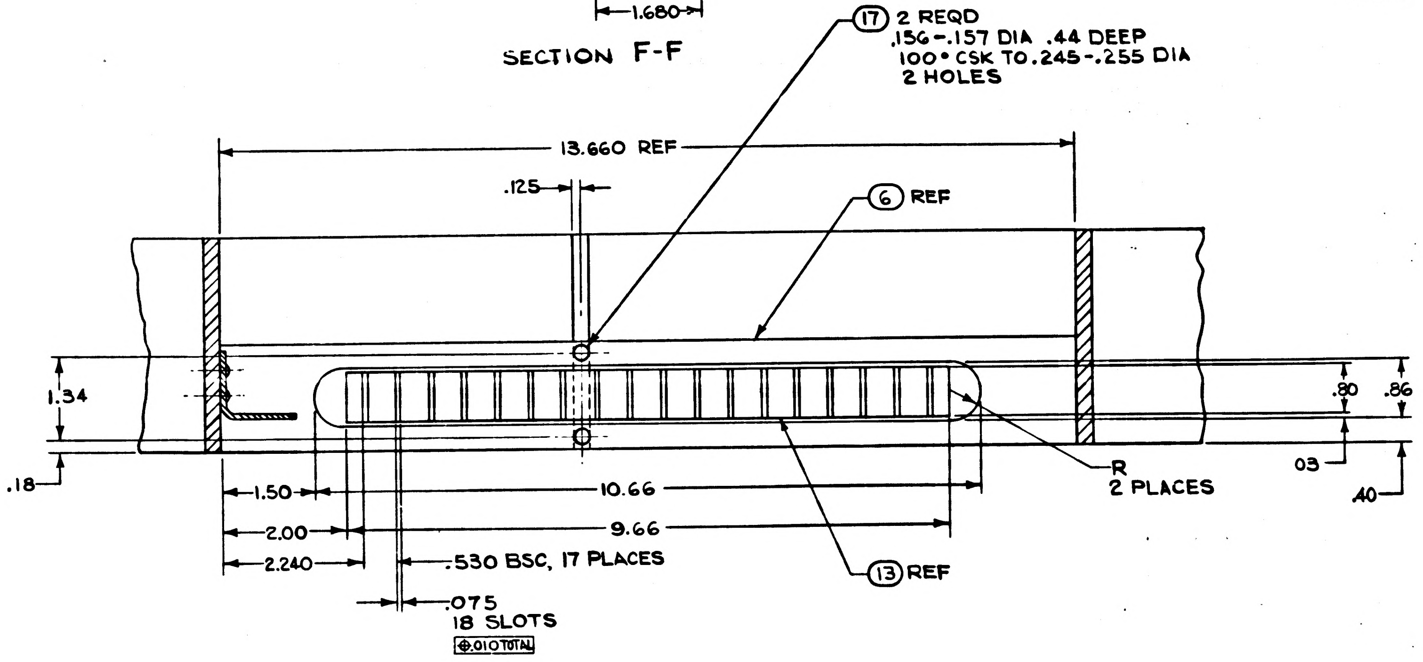
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISION STATUS CHANGED		66	EF
	B	INITIAL RELEASE CLASS A PER TDRR 28641		66	EF
	C	REVISION STATUS CHANGED		26 66	


3.20
2.86
.50
.12 R, 4 PLACES
.32
.24 R
⑨ REF
2.90
.32
.36
1.32
1.680

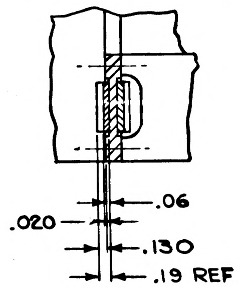
SECTION F-F


.12
R
R
45°
3 PLACES
.562 BSC, 3 PLACES
.88
3 PLACES
.44
3 PLACES
.12, 3 PLACES
.24, 3 PLACES
3.00
2.00
1.00
.40
.50
.152-.160 THRU
6 HOLES
⊕.010 DIA
1.10
.38
R
.50
1.18
.38
⑩ REF
.12 R
2 PLACES

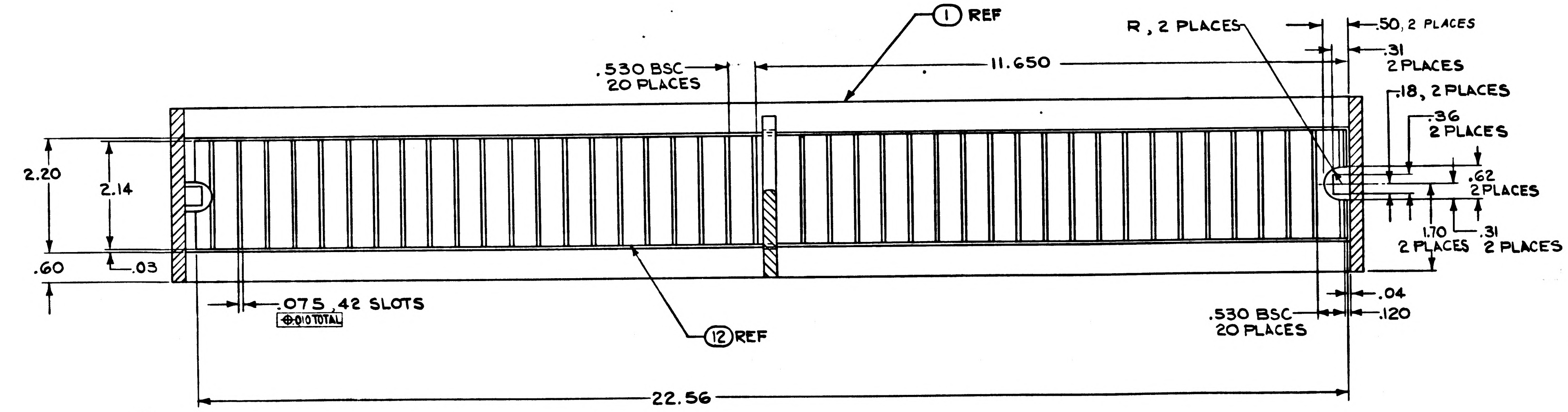
VIEW D-D


⑰ 2 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .245-.255 DIA
2 HOLES
13.660 REF
.125
⑥ REF
1.34
.18
.80
.86
.03
.40
R
2 PLACES
1.50
10.66
2.00
9.66
2.240
.530 BSC, 17 PLACES
⑬ REF
.075
18 SLOTS
⊕.010 TOTAL

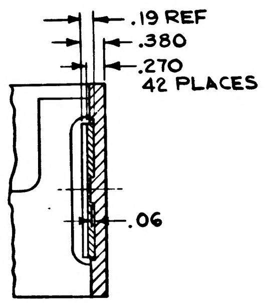
SECTION C-C


.06
.020
.130
.19 REF

SECTION R-R
ROTATED 90°


① REF
.530 BSC
20 PLACES
11.650
R, 2 PLACES
.50, 2 PLACES
.31
2 PLACES
.18, 2 PLACES
.36
2 PLACES
.62
2 PLACES
1.70
2 PLACES
.31
2 PLACES
2.20
2.14
.60
.03
.075 42 SLOTS
⊕.010 TOTAL
⑫ REF
.04
.120
.530 BSC
20 PLACES
22.56

SECTION A-A


.19 REF
.380
.270
42 PLACES
.06

SECTION S-S
ROTATED 90°

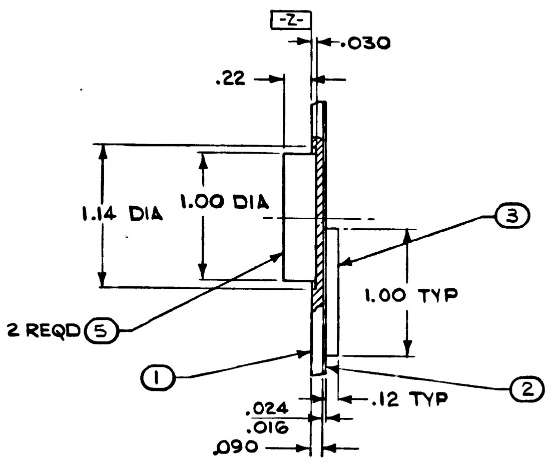
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES ±2°	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS. DRAWN M. Grabner DATE 30 MAR 66 CHECKED Ed Foster 2 APR 66 APPROVAL 5 Apr 66 CONTRACT NAS9-497	MANNED SPACECRAFT CENTER HOUSTON, TEXAS CASE, PSA ADAPTER MODULE (INSEPARABLE ASSEMBLY)
DO NOT SCALE THIS DRAWING MATERIAL — APPROVAL	NASA APPROVAL MIT APPROVAL	SIZE E CODE IDENT NO. 99974 2901241 SCALE FULL SHEET 6 OF 6

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   - A. ALUMINUM ALLOY PER QQ-A-250/11 TEMPER T-6 (ES2106 TYPE 6061).
   - B. RF GASKETING PER ND1002179 TYPE II.
   - C. SPONGE RUBBER PER MIL-R-6130 TYPE II GRADE A MEDIUM (ES2733-2).
   - D. SYNTHETIC NEOPRENE RUBBER PER MIL-R-6855 CLASS II GRADE 40 (ES2710-1).
3. BOND ITEMS ①② TOGETHER USING ITEM ⑥. ①② TO BE FREE OF ITEM ⑥ FOR DISTANCE OF .38 FROM EDGE ALL AROUND.
4. BOND ITEMS ③② TOGETHER & ITEMS ⑤① TOGETHER USING ITEM ⑥.
5. MUST BE FREE FROM BURRS AND SHARP EDGES.
6. EDGES OF ITEMS ②, ③, ④, & ⑤ MUST BE FREE FROM TEARS.
7. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267)
8. FINISH:
   - A. CHEMICAL FILM PER MIL-C-5541 (ES591) ALL OVER.
   - B. APPLY ITEM ⑦ AND 2 COATS OF ⑧ TO -Z- AND EDGES OF ITEM ①
9. NO MORE THAN ONE SPLICE PERMISSIBLE.

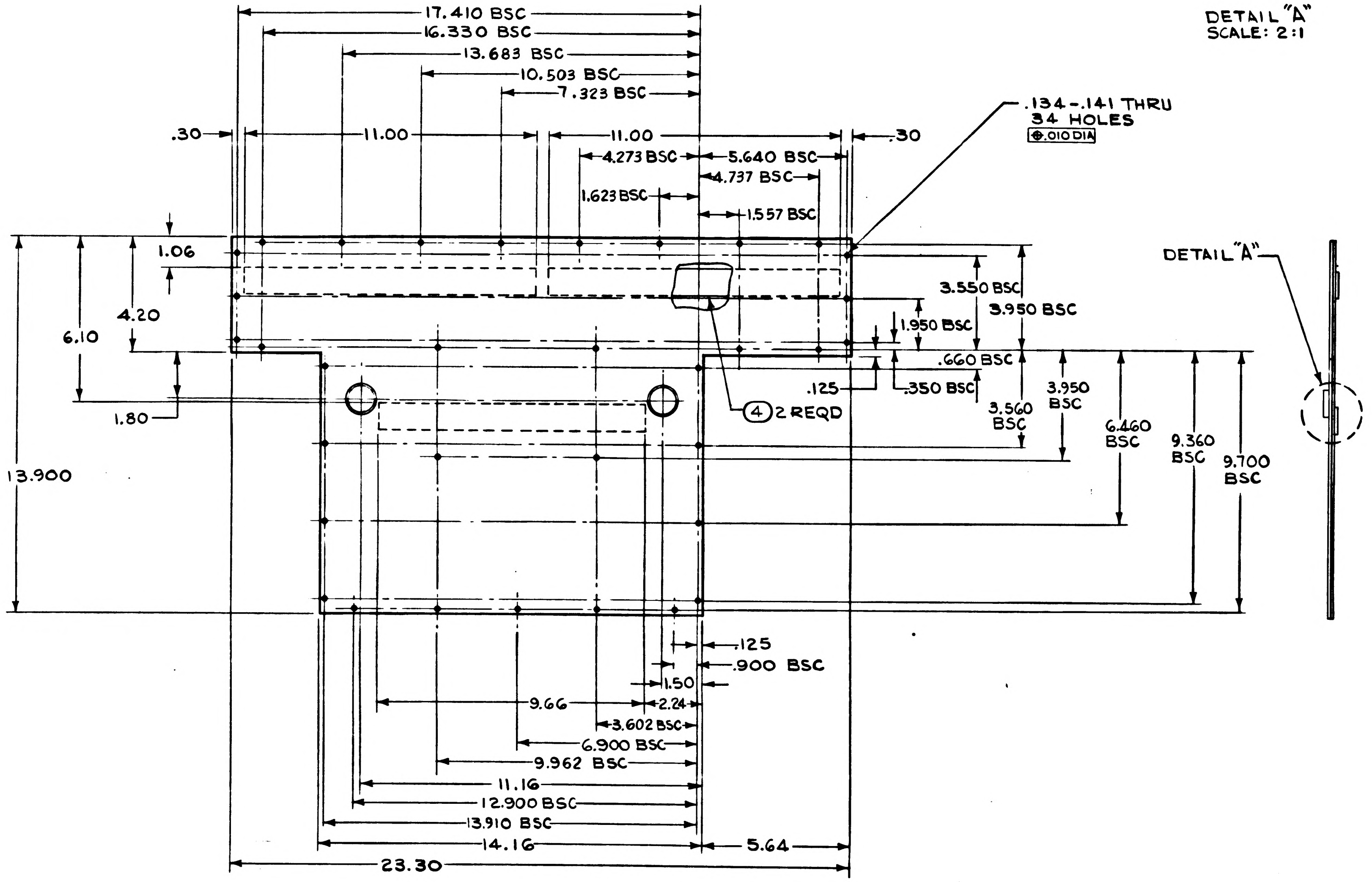
REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC2-994		29 AUG 66	F.H. T.
	B	INITIAL RELEASE CLASS A PER TDRR 28641		MAY 66	JM EF



-Z-
.030
.22
1.14 DIA
1.00 DIA
③
1.00 TYP
2 REQD ⑤
①
②
.12 TYP
.024
.016
.090

DETAIL "A"
SCALE: 2:1



17.410 BSC
16.330 BSC
13.683 BSC
10.503 BSC
7.323 BSC
.134-.141 THRU
34 HOLES
⊕ .010 DIA
.30
11.00
11.00
.30
4.273 BSC
5.640 BSC
4.737 BSC
1.623 BSC
1.557 BSC
1.06
4.20
6.10
1.80
13.900
3.550 BSC
3.950 BSC
1.950 BSC
.660 BSC
.125
.350 BSC
3.560 BSC
3.950 BSC
6.460 BSC
9.360 BSC
9.700 BSC
④ 2 REQD
DETAIL "A"
.125
.900 BSC
1.50
2.24
9.66
3.602 BSC
6.900 BSC
9.962 BSC
11.16
12.900 BSC
13.910 BSC
14.16
5.64
23.30

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
8	AR	TT-E-529 CLASS B COLOR 26440 OF FED-STD-595	LIGHT GRAY ENAMEL
7	AR	MIL-P-8585	PRIMER (ES2589)
6	AR	MIL-A-5092 TYPE II	ADHESIVE (ES2770-2)
5	2	2901243-005	STOP
4	2	-004	PAD
3	1	-003	PAD
2	1	-002	GASKET
1	1	2901243-001	COVER

SEE NOTE 2D (item 5), 2C (item 4), 2C (item 3), 2B-9 (item 2), SEE NOTE 2A (item 1)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ± –
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL
4 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN M. Fralness DATE 11 MAR 66
CHECKED Ed Foster 2 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

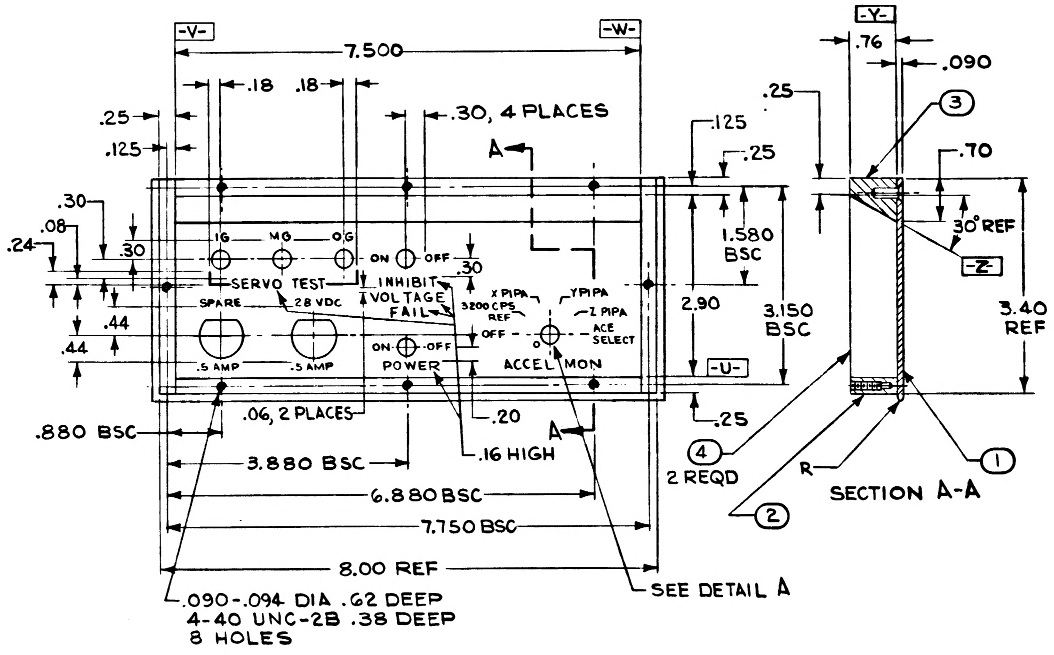
COVER, CASE, BOTTOM
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901243
SCALE 1:2
SHEET OF

NOTES:

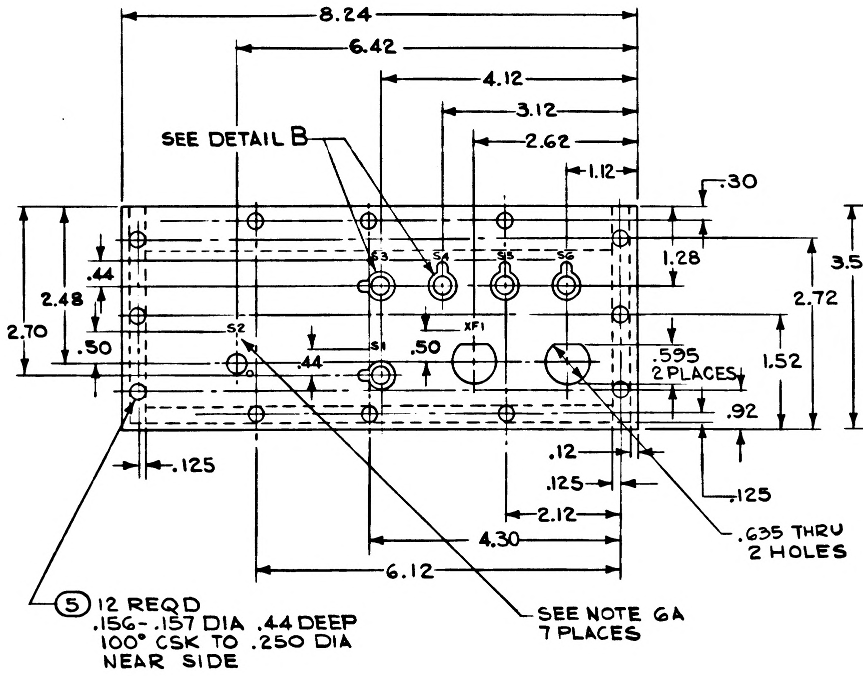
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   A. ALUMINUM ALLOY PER QQ-A-250/11 TEMPER T-6 (ES2106 TYPE 6061).
   B. ALUMINUM ALLOY PER QQ-A-250/8 TEMPER F (ES2105 TYPE 5052).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
5. FINISH:
   A. CHEMICAL FILM PER MIL-C-5541 (ES591) ALL OVER.
   B. APPLY ⑥ AND 2 COATS OF ⑦ TO $\boxed{U}\boxed{V}\boxed{W}\boxed{Y}\boxed{Z}$.
6. MARKING:
   A. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
   B. SILK SCREEN CHARACTERS AND LINES ON $\boxed{-Y-}$ PER ND1002112 USING ⑧. CHARACTERS TO BE FUTURA DEMI-BOLD PER ND1002122. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE .12 HIGH AND LINES TO BE .031 WIDE. CENTRALIZE AS SHOWN.
7. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 212046		3 MAY 66	HTO
	B	INITIAL RELEASE CLASS A PER TDRR 28641		4 MAY 66	EF

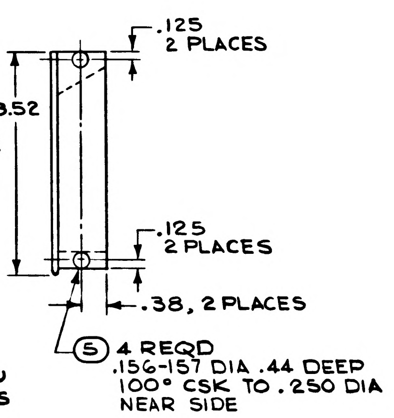


-V-
-W-
7.500
.18
.18
.30, 4 PLACES
.25
.125
A
.30
.08
.24
.30
.44
.44
SERVO TEST
28 VDC
SPARE
INHIBIT
VOLTAGE
FAIL
.30
ON
OFF
MG
OG
IG
X PIPA
Y PIPA
Z PIPA
3200 CPS REF
OFF
ACE SELECT
ACCEL MON
POWER
.5 AMP
.5 AMP
.06, 2 PLACES
.20
.16 HIGH
A
-U-
.25
.125
.25
1.580 BSC
2.90
3.150 BSC
.880 BSC
3.880 BSC
6.880 BSC
7.750 BSC
8.00 REF
.090-.094 DIA .62 DEEP
4-40 UNC-2B .38 DEEP
8 HOLES
SEE DETAIL A
-Y-
.76
.090
③
.70
30° REF
-Z-
3.40 REF
④
2 REQD
②
R
①

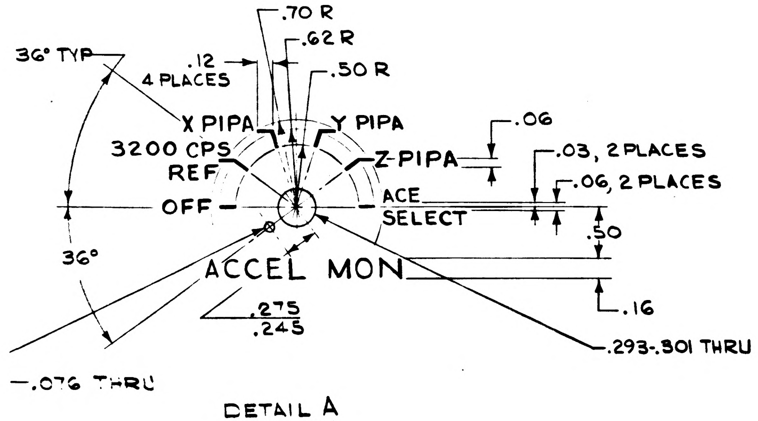
SECTION A-A



8.24
6.42
4.12
3.12
2.62
1.12
SEE DETAIL B
.30
.44
2.48
2.70
.50
.44
.50
XF1
S2
S1
S3
S4
S5
S6
1.28
3.52
2.72
.595
2 PLACES
1.52
.92
.125
.12
.125
2.12
4.30
6.12
.125
.635 THRU
2 HOLES
⑤ 12 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .250 DIA
NEAR SIDE
SEE NOTE 6A
7 PLACES

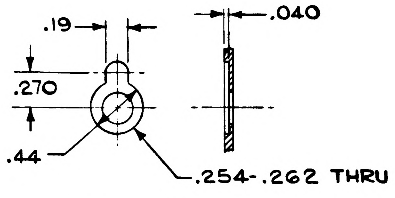


.125
2 PLACES
.125
2 PLACES
.38, 2 PLACES
⑤ 4 REQD
.156-.157 DIA .44 DEEP
100° CSK TO .250 DIA
NEAR SIDE



.70 R
.62 R
.50 R
36° TYP
.12
4 PLACES
X PIPA
Y PIPA
3200 CPS
REF
Z-PIPA
.06
.03, 2 PLACES
.06, 2 PLACES
OFF
ACE
SELECT
.50
36°
ACCEL MON
.275
.245
.16
.293-.301 THRU
.076 THRU

DETAIL A
SCALE: 2:1



.19
.040
.270
.44
.254-.262 THRU

DETAIL B
SCALE: 2:1
5 PLACES

	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	8	AR	ND1002111 COLOR 514 OF ANA BUL-157	BLACK SILK SCREEN ENAMEL
	7	AR	TT-E-529 CLASS B COLOR 26440 OF FED-STD-595	LIGHT GRAY ENAMEL
	6	AR	MIL-P-8585	PRIMER (ES2589)
SEE NOTE 7	5	16	1897282-001	RIVET, BLIND
2B	4	2	2901244-004	END PLATE
2B	3	1	-003	SIDE PLATE, REAR
2B	2	1	-002	SIDE PLATE, FRONT
SEE NOTE 2A	1	1	2901244-001	PANEL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN M Grabner DATE 8-1966
CHECKED Ed Foster 4 APR 66
APPROVAL Hileman 5/9/66
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, ELECTRONIC COMPONENTS
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901244
SCALE FULL
SHEET 1 OF 1

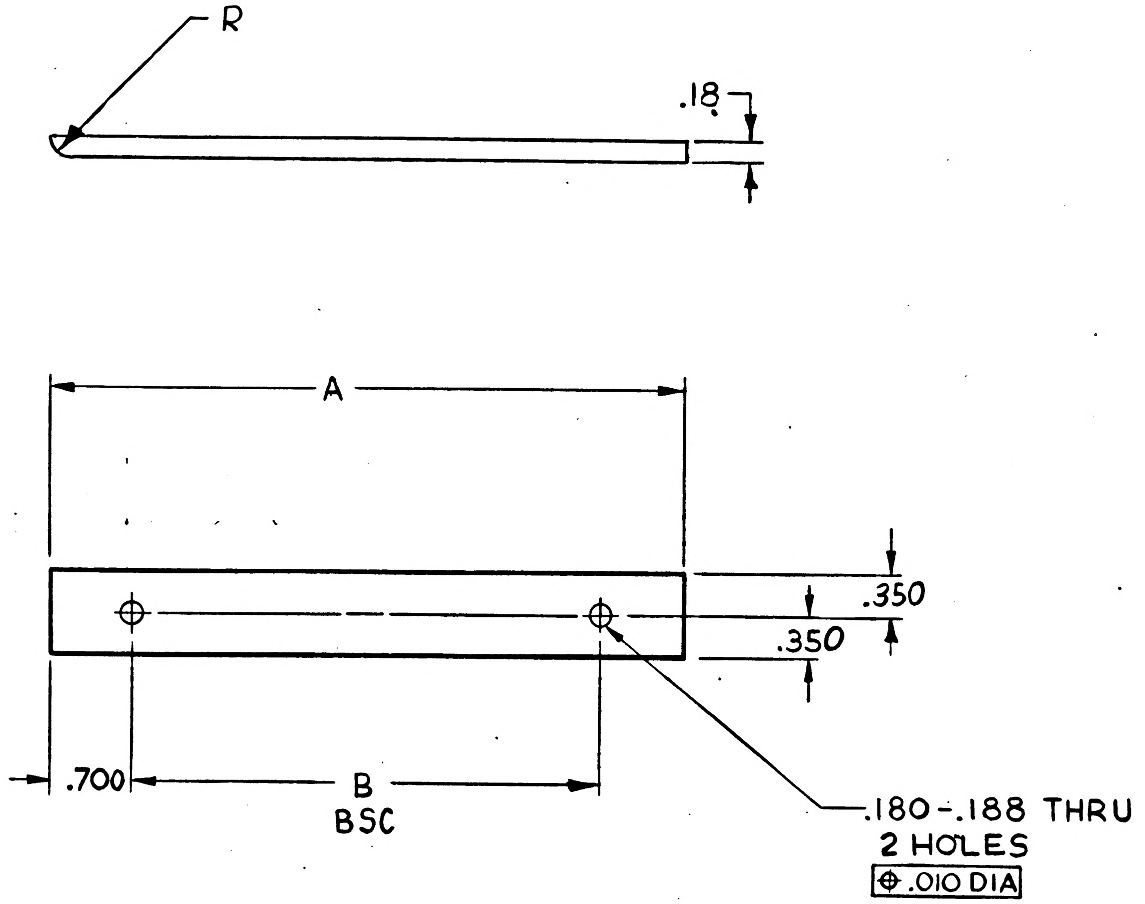
2901246

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28641		4 MAY 66	JHP / EF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MIL-P-17091, TYPE I, NYLON (ES 2727).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. IDENTIFY USING DRAWING NUMBER WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).

PART NUMBER	A	B
2901246-001	5.44	3.800
2901246-002	3.44	1.800



2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02 · 3 PLACE DECIMALS ± .005 · ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
APPROVAL Charleston 1 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN E. Miller DATE 8 MAR 66
CHECKED Ed Foster 31 MAR 66
APPROVAL L Goldman 5/4/66
CONTRACT NAS9-497
NASA APPROVAL [illegible] 5/5/66
MIT APPROVAL [illegible] 5-6-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

STOP, BLOCK

SIZE C
CODE IDENT NO. 99974
2901246
SCALE None
SHEET 1 OF 1

MIL-1082D D

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901270-011	2900926-011	A	INITIAL RELEASE CLASS A PER TDRR 28672	3 MAY 66	PG / EF

Charleston
17 FEB 66

REV STATUS OF SHEETS	REV	A	A	A	A	A	A
	SHEET	1	2	3	4	5	6

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN John R Kudonahi DATE 8 FEB 66
CHECKED Fesler 17 FEB 66
APPROVAL G Yo HPE 17 FEB 66
APPROVAL

NASA APPROVAL D McTeeney 5/5/66
MIT APPROVAL 5-11-66

CONTRACT NAS9-497

LEAD SET "A-A", ELECTRICAL-NO.6

CODE IDENT NO.	SIZE		REV
99974	A	2901273	A

SCALE —
SHEET 1 OF 6

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 5 OR ITEMS 3 AND 4.
4	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.
5	APPLY LEAD IDENTIFICATIONS PER ND1002019.
6	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901273
SCALE-NONE
REV LTR A
SHEET 2 OF 6

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901273-001	WIRE, BUS QQ-W-343 TYPE S COATED (ES110-1) 24AWG, 2.0 INCHES TOTAL LENGTH
	2	1	2901273-002	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG COLOR WHITE, 7 FEET 4 INCHES TOTAL LENGTH
	3	AR	SN60WS	SOLDER, QQ-S-571 (ES2175-1)
	4	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	5	AR	SN60WRAP	SOLDER, QQ-S-571 (ES2175-3)

SIZE A
CODE IDENT NO. 99974
2901273
SCALE-NONE
REV LTR A
SHEET 3 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	2	3.50	P1-A TERM.2					.25 .25	YES YES			
AA 2	2	5.00	P1-B TERM.1					.25 .25	YES YES			
AA 3	2	1.50	P1-C TERM.12					.25 .25	YES YES			
AA 4	2	1.50	P1-E TERM.12					.25 .25	YES YES			
AA 5	1	1.00	TERM.12 TERM.16						NO NO			
AA 6	2	1.50	P1-J TERM.16					.25 .25	YES YES			
AA 7	2	1.50	P1-K TERM.16					.25 .25	YES YES			
AA 8	1	1.00	TERM.16 TERM.32						NO NO			
AA 9	2	1.50	P1-N TERM.32					.25 .25	YES YES			
AA 10	2	1.50	P1-P TERM.32					.25 .25	YES YES			
AA 11	2	3.50	P1-F TERM.6					.25 .25	YES YES			
AA 12	2	5.00	P1-H TERM.5					.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901273
SCALE-NONE
REV LTR A
SHEET 4 OF 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	2	3.50	P1-L TERM.18					.25 .25	YES YES			
AA 14	2	5.00	P1-M TERM.17					.25 .25	YES YES			
AA 15	2	3.50	P1-R TERM.22					.25 .25	YES YES			
AA 16	2	5.00	P1-S TERM.21					.25 .25	YES YES			
AA 17	2	2.00	P1-T P1-U					.25 .25	YES YES			
AA 18	2	3.50	P1-V TERM.26					.25 .25	YES YES			
AA 19	2	5.00	P1-W TERM.25					.25 .25	YES YES			
AA 20	2	2.00	P1-X P1-Y					.25 .25	YES YES			
AA 21	2	1.50	P2-A TERM.4					.25 .25	YES YES			
AA 22	2	3.00	P2-B TERM.3					.25 .25	YES YES			
AA 23	2	2.00	P2-C P2-D					.25 .25	YES YES			
AA 24	2	1.50	P2-E TERM.8					.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901273
SCALE-NONE
REV L A
SHEET 5 OF

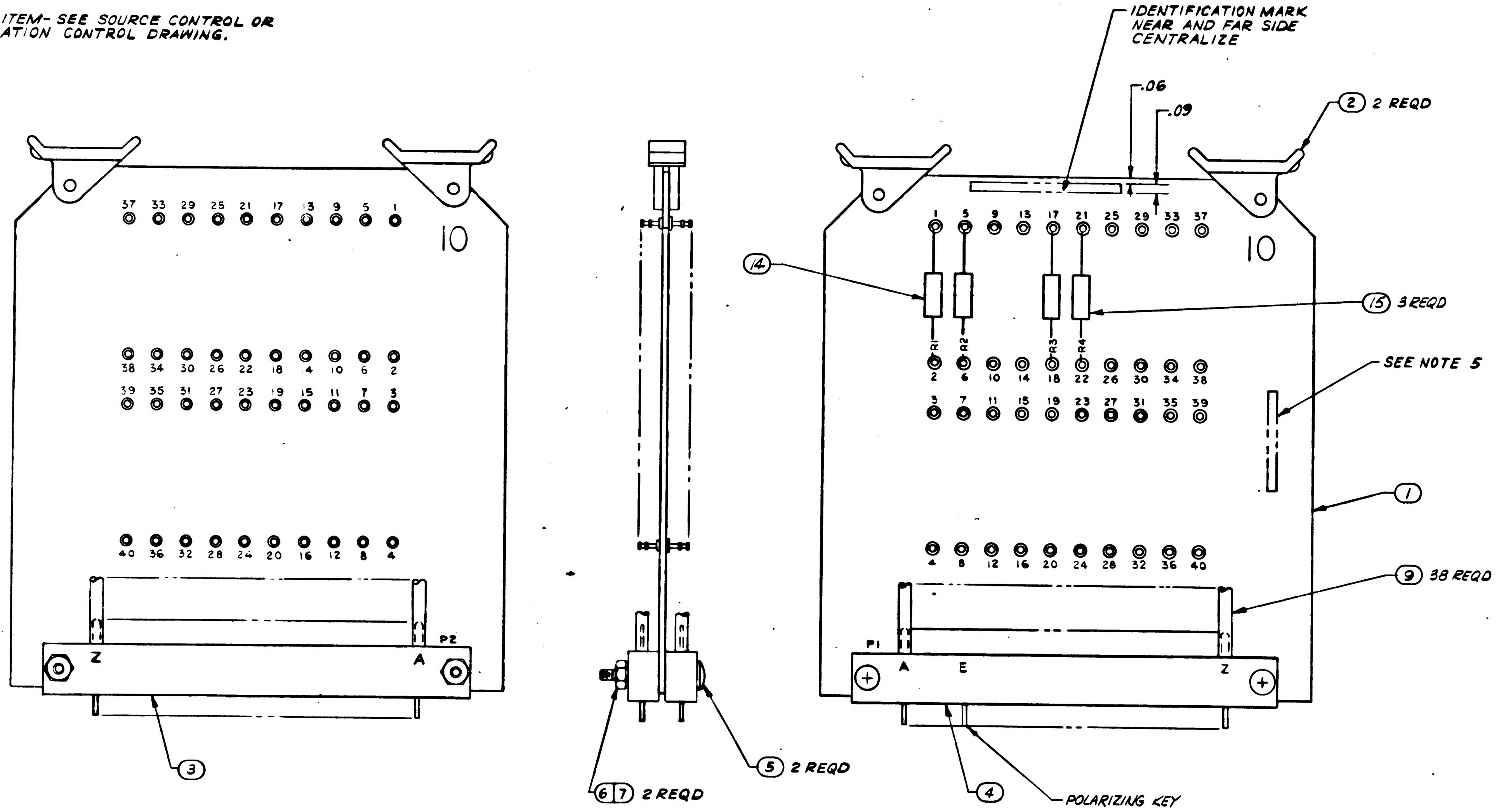
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	2	3.00	P2-F TERM.7					.25 .25	YES YES			
AA 26	2	2.00	P2-H P2-J					.25 .25	YES YES			
AA 27	2	1.50	P2-K TERM.20					.25 .25	YES YES			
AA 28	2	3.00	P2-L TERM.19					.25 .25	YES YES			
AA 29	2	2.00	P2-M P2-N					.25 .25	YES YES			
AA 30	2	1.50	P2-P TERM.24					.25 .25	YES YES			
AA 31	2	3.00	P2-R TERM.23					.25 .25	YES YES			
AA 32	2	2.00	P2-S P2-T					.25 .25	YES YES			
AA 33	2	1.50	P2-U TERM.28					.25 .25	YES YES			
AA 34	2	3.00	P2-V TERM.27					.25 .25	YES YES			
AA 35	2	2.00	P2-W P2-X					.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	99974	2901273	
SCALE-NONE	REV LTR	A	SHEET 6 OF 6

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR		3 MAY 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM ⑩ OR ⑪ AND ⑫.
3. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
4. SERIALIZE PER ND1002023.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NO. PER ND 1002019, .09 HIGH, COLOR BLACK IN LOCATION SHOWN.
6. CHECK CONTINUITY AND RESISTANCE PER SCHEMATIC DIAGRAM AFTER ASSEMBLY.
7. VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.


IDENTIFICATION MARK NEAR AND FAR SIDE CENTRALIZE
.06
.09
② 2 REQD
10
37 33 29 25 21 17 13 9 5 1
38 34 30 26 22 18 4 10 6 2
39 35 31 27 23 19 15 11 7 3
40 36 32 28 24 20 16 12 8 4
Z
A
P2
③
⑥⑦ 2 REQD
⑤ 2 REQD
1 5 9 13 17 21 25 29 33 37
R1 R2 R3 R4
2 6 10 14 18 22 26 30 34 38
3 7 11 15 19 23 27 31 35 39
4 8 12 16 20 24 28 32 36 40
⑭
⑮ 3 REQD
SEE NOTE 5
①
⑨ 38 REQD
P1
A
E
Z
④
POLARIZING KEY

SEE NOTE 7

SEE NOTE 7 {

QUANTITY REQUIRED							
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			3		15	RN60B1003F	(1896977-481) RESISTOR MIL-R-10509/1
			1		14	RN60B5112F	(1896977-453) RESISTOR MIL-R-10509/1
			X		13	2901288	SCHEMATIC DIAGRAM, ELECT
			AR		12	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
			AR		11	SN 60 WS	SOLDER QQ-S-571 (ES2175-1)
			AR		10	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
			38		9	1015864-109	INSULATION-SLEEVING, ELECT
			1		8	2901289	LEAD SET A A, ELECTRICAL
			2		7	MS35333-70	WASHER, LOCK INT TOOTH
			2		6	AN340C4	(1896988-041) NUT-PLAIN HEX
			2		5	MS35216-20	SCREW, PAN HEAD
			1		4	1015956-172	CONNECTOR, ADAPTER ELECT
			1		3	1015956-166	CONNECTOR, ADAPTER ELECT
			2		2	1015999-001	EJECTOR, CIRCUIT BOARD
			1		1	2901287	TERMINAL BOARD (INSEP ASSY)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901034-011	2900895-011	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN DATE 9 FEB 66
CHECKED 18 FEB 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT BOARD ASSEMBLY-NO.10

SIZE E
CODE IDENT NO. 99974
2901286
SCALE 2/1
SHEET 1 OF 1

2901286

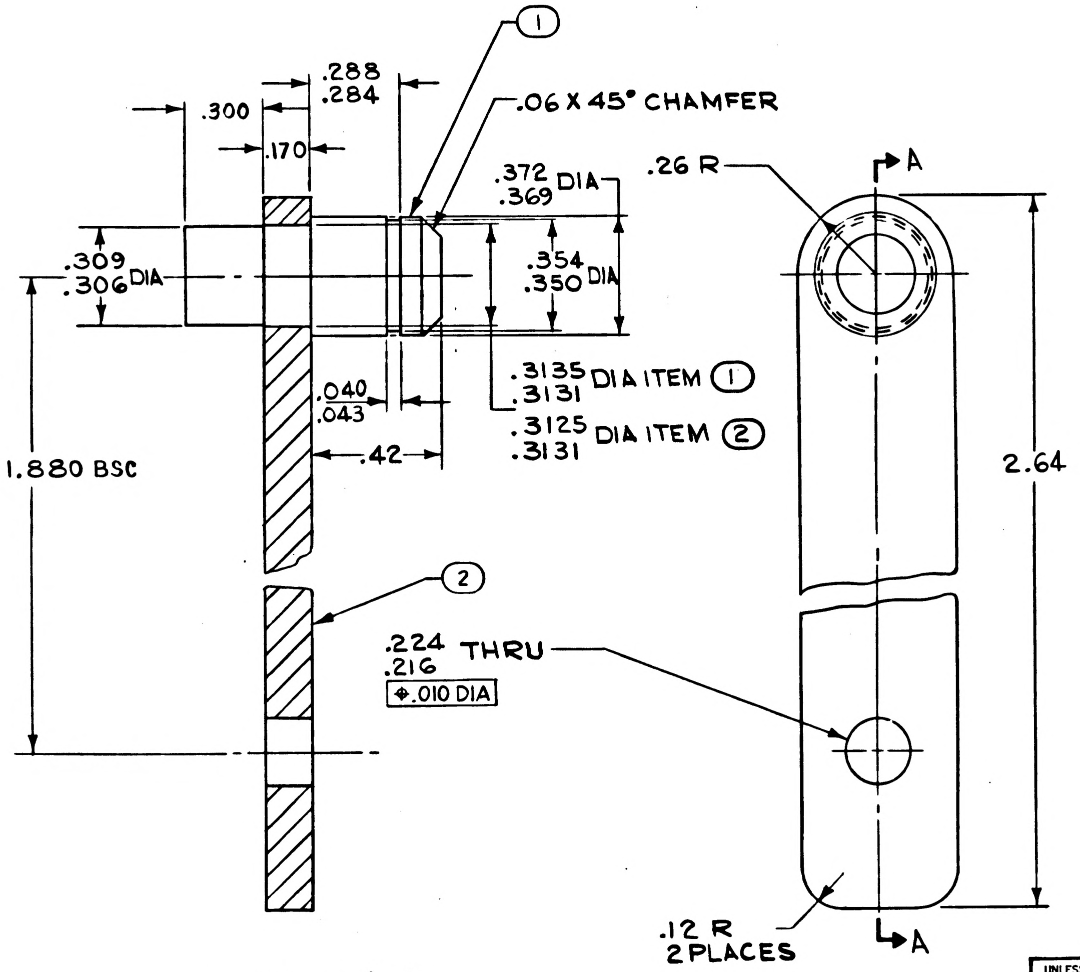
Sa01589

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: STAINLESS STEEL PER QQ-S-763 CLASS 410 COND A (ES 2124)
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
5. UNLESS OTHERWISE SPECIFIED:
    - A. SURFACE ROUGHNESS MUST NOT EXCEED 63/.
    - B. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
6. FINISH: PASSIVATE PER MIL-F-14072 (SIG C) FIN E300 (ES585)

REVISIONS 28641

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28641			JHP / EF



①
.300
.288
.284
.170
.06 X 45° CHAMFER
.372
.369 DIA
.26 R
A
.309
.306 DIA
.354
.350 DIA
.3135
.3131 DIA ITEM ①
.040
.043
.3125
.3131 DIA ITEM ②
.42
1.880 BSC
2.64
②
.224
.216 THRU
⌖.010 DIA
.12 R
2 PLACES
A

SECTION A-A

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	1	2901347-002	SUPPORT
1	1	2901347-001	PIN

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901143-011	2901143-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN M Gabner DATE 30 Mar 66
CHECKED Ed Foster 31 MAR 66
APPROVAL Gedeman 3/1/66
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SUPPORT, HOOK
(INSEPARABLE ASSEMBLY)

SIZE D
CODE IDENT NO. 99974
2901347
SCALE 4:1
SHEET 1 OF 1

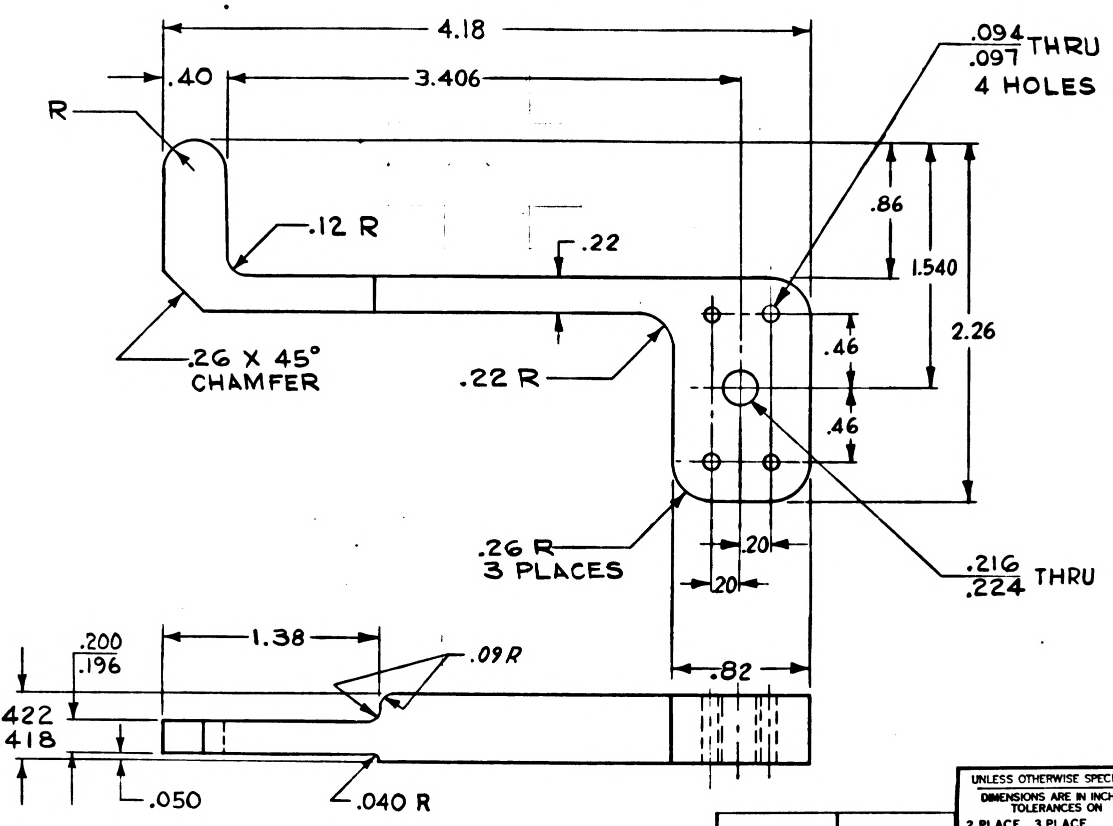
1 APR 66

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP EDGES
3. MATERIAL: SPRING STEEL PER MIL-S-7947 COND A (ES2120, ANNEALED)
4. HEAT TREAT PER MIL-H-6875 TO 1500°±25°F. OIL QUENCH AND DRAW AT 700°-800°F.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267)
6. UNLESS OTHERWISE SPECIFIED:
   - A. SURFACE ROUGHNESS MUST NOT EXCEED 63√.
   - B. ALL CORNERS MUST BE .005 TO .015 R, OR CHAMFER.
7. FINISH: CHROME PLATING PER QQ-C-320 CLASS 2 (ES387)

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 212609		20 MAY 66	DKD CP
	B	INITIAL RELEASE CLASS A PER TDRR 29186		21 MAY 66	JHP



4.18
.40
3.406
R
.12 R
.22
.86
1.540
2.26
.094
.097 THRU
4 HOLES
.46
.46
.26 X 45° CHAMFER
.22 R
.26 R
3 PLACES
.20
.20
.216
.224 THRU
.200
.196
1.38
.09 R
.82
.422
.418
.050
.040 R

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 3
APPROVAL
4 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN M. Grabner DATE 25 MAR 66
CHECKED Ed Foster 31 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SPRING, RETAINING
RIGHT HAND

SIZE D
CODE IDENT NO. 99974
2901348
SCALE 2:1
SHEET 1 OF 1

MIL-1085D D

APPLICATION	
NEXT ASSY	USED ON
2901076-011	2901076-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV (-) WITH CHANGE PER MXC 210922	7 APR 66	JJJ.
B	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	E.S.

REV												
SHEET												
REV STATUS OF SHEETS	REV	B	B	B	B	B	B	B	B	B	B	B
	SHEET	1	2	3	4	5	6	7	8	9	10	11

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 3 MAR 66 (DAY MO YR)
CHECKER 24 MAR 66
ENGINEER 24 Mar 66
APPROVAL Jelman 5/3/66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL Murphy 5-10-66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W586

SIZE	CODE IDENT. NO	
A	99974	2901351
SCALE NONE		SHEET 1 OF 11

MIL 1377A6 12-65

NOTE / GENERAL NOTES

NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 10.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 10.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
8	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 9 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.
9	SERIALIZE PER ND1002032.
10	MARK IDENTIFICATION BANDS WITH DESIGNATION AS NOTED, .12 INCH HIGH COLOR BLACK PER ND1002019, CENTRALIZE.
11	ASSEMBLE PER ND1002032.
12	AT ASSEMBLY OF ITEM 4 TO ITEM 7, REMOVE 4 SELF-LOCKING NUTS SECURING LOCATING PINS TO ITEM 4 AND DISCARD. ATTACH ITEM 4 TO ITEM 7 USING LOCATING PINS.

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901351-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 256 FT.-0 IN. TOTAL LENGTH
	2	1	2901351-002	ZIPPER TUBING PER ND1002155, TYPE 1, GRAY, 1 DIA, 4 FT-0 IN. TOTAL LENGTH.
	3	1	2901070-011	CONNECTOR ASSEMBLY, FEMALE
	4	1	1897336-001	CONNECTOR, PLUG, ELECTRICAL
	5	64	1016369-421	CONTACT, FEMALE
	6	64	1897300-002	CONTACT, SPRING SOCKET
	7	1	1897391	CLAMP, STRAIN RELIEF
	8	64	1015864-232	INSULATION SLEEVING, ELECTRICAL
	9	AR	MIL-I-631 TYPE F FORM T, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .020 THICK
	10	AR	MIL-T-713B TYPE P CLASS 2, BLACK	LACING TAPE
	11	3	1016128-021	BAND, IDENTIFICATION

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-A3 P2-A5					.15 .19	NO NO		6, 8 5	
A 2	1		P1-A4 P2-A6					.15 .19	NO NO		6, 8 5	
A 3	1		P1-A5 P2-B1					.15 .19	NO NO		6, 8 5	
A 4	1		P1-A6 P2-B2					.15 .19	NO NO		6, 8 5	
A 5	1		P1-A7 P2-B3					.15 .19	NO NO		6, 8 5	
A 6	1		P1-B1 P2-C4					.15 .19	NO NO		6, 8 5	
A 7	1		P1-B2 P2-C5					.15 .19	NO NO		6, 8 5	
A 8	1		P1-B3 P2-C6					.15 .19	NO NO		6, 8 5	
A 9	1		P1-B4 P2-C7					.15 .19	NO NO		6, 8 5	
A 10	1		P1-B5 P2-C8					.15 .19	NO NO		6, 8 5	
A 11	1		P1-B6 P2-D1					.15 .19	NO NO		6, 8 5	
A 12	1		P1-B7 P2-D2					.15 .19	NO NO		6, 8 5	

CABLE ASSEMBLY W586

2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-B8 P2-D3					.15 .19	NO NO		6, 8 5	
A 14	1		P1-B9 P2-D4					.15 .19	NO NO		6, 8 5	
A 15	1		P1-C1 P2-E3					.15 .19	NO NO		6, 8 5	
A 16	1		P1-C2 P2-E4					.15 .19	NO NO		6, 8 5	
A 17	1		P1-C3 P2-E5					.15 .19	NO NO		6, 8 5	
A 18	1		P1-C4 P2-E6					.15 .19	NO NO		6, 8 5	
A 19	1		P1-C5 P2-E7					.15 .19	NO NO		6, 8 5	
A 20	1		P1-C6 P2-E8					.15 .19	NO NO		6, 8 5	
A 21	1		P1-C7 P2-F1					.15 .19	NO NO		6, 8 5	
A 22	1		P1-C8 P2-F2					.15 .19	NO NO		6, 8 5	
A 23	1		P1-C9 P2-F3					.15 .19	NO NO		6, 8 5	
A 24	1		P1-D1 P2-G2					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901351
SCALE-NONE
REV LTR ~~A~~ B
SHEET 6 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586

2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P1-D2 P2-G3					.15 .19	NO NO		6, 8 5	
A 26	1		P1-D3 P2-G4					.15 .19	NO NO		6, 8 5	
A 27	1		P1-D4 P2-G5					.15 .19	NO NO		6, 8 5	
A 28	1		P1-D5 P2-G6					.15 .19	NO NO		6, 8 5	
A 29	1		P1-D6 P2-G7					.15 .19	NO NO		6, 8 5	
A 30	1		P1-D7 P2-G8					.15 .19	NO NO		6, 8 5	
A 31	1		P1-D8 P2-H1					.15 .19	NO NO		6, 8 5	
A 32	1		P1-D9 P2-H2					.15 .19	NO NO		6, 8 5	
A 33	1		P1-F1 P2-J1					.15 .19	NO NO		6, 8 5	
A 34	1		P1-F2 P2-J2					.15 .19	NO NO		6, 8 5	
A 35	1		P1-F3 P2-J3					.15 .19	NO NO		6, 8 5	
A 36	1		P1-F4 P2-J4					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901351
SCALE-NONE
REV LTR B ~~A~~
SHEET 7 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586

2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-F5 P2-J5					.15 .19	NO NO		6, 8 5	
A 38	1		P1-F6 P2-J6					.15 .19	NO NO		6, 8 5	
A 39	1		P1-F7 P2-J7					.15 .19	NO NO		6, 8 5	
A 40	1		P1-F8 P2-J8					.15 .19	NO NO		6, 8 5	
A 41	1		P1-F9 P2-K1					.15 .19	NO NO		6, 8 5	
A 42	1		P1-G1 P2-L2					.15 .19	NO NO		6, 8 5	
A 43	1		P1-G2 P2-L7					.15 .19	NO NO		6, 8 5	
A 44	1		P1-G3 P2-L8					.15 .19	NO NO		6, 8 5	
A 45	1		P1-G4 P2-M1					.15 .19	NO NO		6, 8 5	
A 46	1		P1-G5 P2-M2					.15 .19	NO NO		6, 8 5	
A 47	1		P1-G6 P2-M3					.15 .19	NO NO		6, 8 5	
A 48	1		P1-G7 P2-M6					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901351
SCALE-NONE
REV LTR B ~~A~~
SHEET 8 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586

2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P1-G8 P2-M7					.15 .19	NO NO		6, 8 5	
A 50	1		P1-G9 P2-M8					.15 .19	NO NO		6, 8 5	
A 51	1		P1-H1 P2-N7					.15 .19	NO NO		6, 8 5	
A 52	1		P1-H2 P2-N8					.15 .19	NO NO		6, 8 5	
A 53	1		P1-H3 P2-P1					.15 .19	NO NO		6, 8 5	
A 54	1		P1-H4 P2-P2					.15 .19	NO NO		6, 8 5	
A 55	1		P1-H5 P2-P3					.15 .19	NO NO		6, 8 5	
A 56	1		P1-H6 P2-P4					.15 .19	NO NO		6, 8 5	
A 57	1		P1-H7 P2-P5					.15 .19	NO NO		6, 8 5	
A 58	1		P1-H8 P2-P6					.15 .19	NO NO		6, 8 5	
A 59	1		P1-H9 P2-P7					.15 .19	NO NO		6, 8 5	
A 60	1		P1-K3 P2-R8					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901351
SCALE-NONE
REV LTR B ~~A~~
SHEET 9 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586 2901351 B

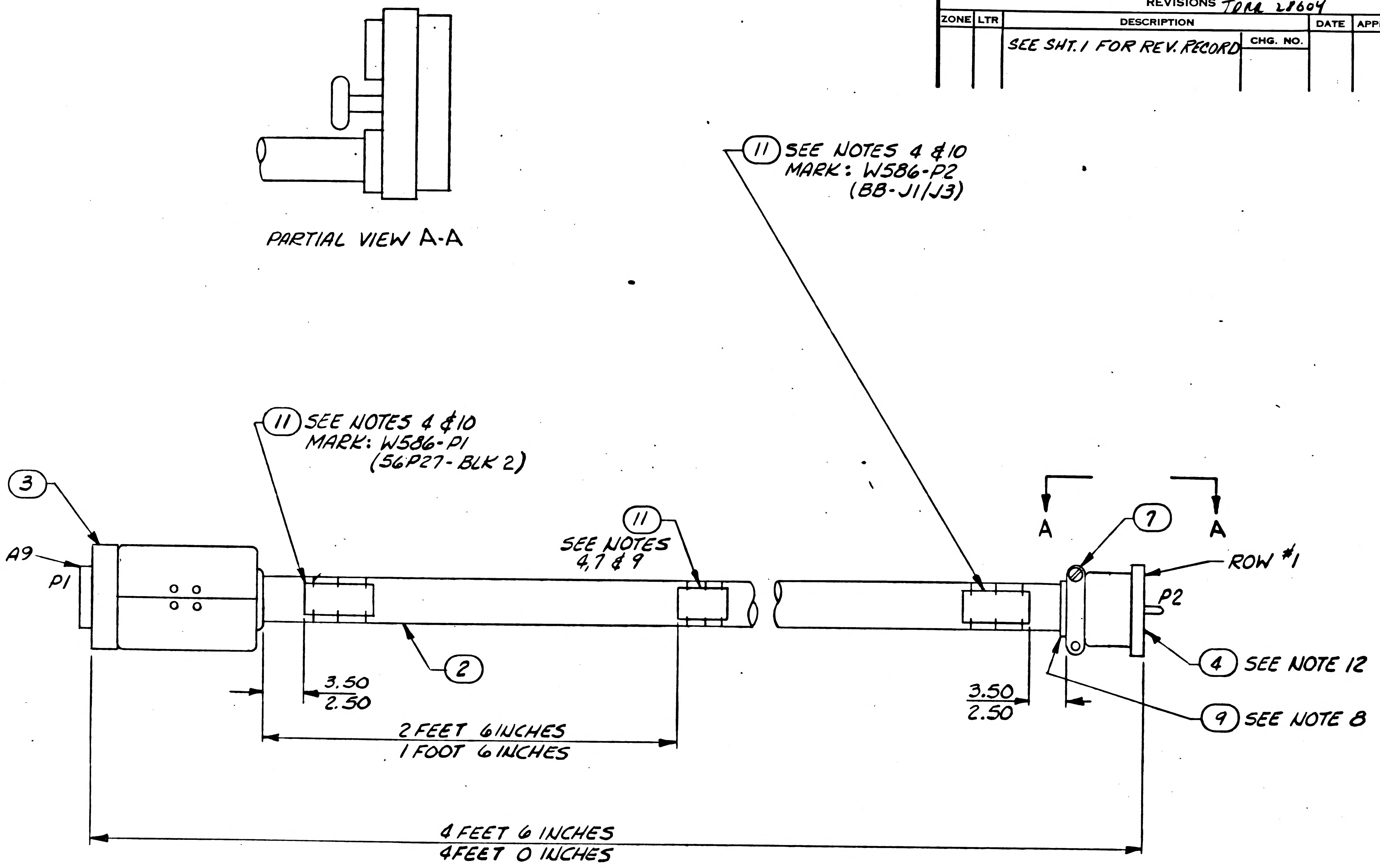
	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	61	1		P1-K4					.15	NO		6, 8	
				P2-S1					.19	NO		5	
A	62	1		P1-K5					.15	NO		6, 8	
				P2-S2					.19	NO		5	
A	63	1		P1-K6					.15	NO		6, 8	
				P2-S3					.19	NO		5	
A	64	1		P1-K7					.15	NO		6, 8	
				P2-S4					.19	NO		5	

SIZE	CODE IDENT NO.		
A	99974	2901351	
SCALE-NONE	REV LTR B	SHEET 10 OF 11	

MIL 2084 9-65

REVISIONS TDRR 28604

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHT. 1 FOR REV. RECORD			



PARTIAL VIEW A-A
11 SEE NOTES 4 & 10
MARK: W586-P2
(BB-J1/J3)
11 SEE NOTES 4 & 10
MARK: W586-P1
(56P27-BLK 2)
3
A9
P1
11
SEE NOTES
4, 7 & 9
2
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES
A
A
7
ROW #1
P2
4 SEE NOTE 12
9 SEE NOTE 8
3.50
2.50

2901076-011	2901076-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − | 3 PLACE DECIMALS + — − | ANGLES + — −

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN A. J. Fleuder DATE 3 MAR 66
CHECKED J. K. Sazler 24 MAR 66
APPROVAL W. Ekman 5/3/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5-10-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W586

SIZE C | CODE IDENT NO. 99974 | 2901351

SCALE — | SHEET 11 OF 11

APPLICATION	
NEXT ASSY	USED ON
2901076-011	2901076-011

Ⓜ

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV (-) WITH CHANGE PER MXC 210922	7 APR 66	JJJ.
B	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	EJ
C	REVISED PER TDRR 30347	16 AUG 66	JI

REV													
SHEET													
REV STATUS OF SHEETS	REV			C	C	B	C	B	B	B	B	B	B	C
	SHEET			1	2	3	4	5	6	7	8	9	10	11

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 3 MAR 66 (DAY MO YR)
CHECKER 24 MAR 66
ENGINEER 24 Mar 66
APPROVAL 5/3/66
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W586

SIZE	CODE IDENT. NO	
A	99974	2901351
SCALE NONE		SHEET 1 OF 11

MIL 1377A6 12-65

CABLE ASSEMBLY W586 2901351 C

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 10.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 10.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
8	FILL THE SPACE BETWEEN WIRE BUNDLE AND CLAMP USING ITEM 9 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP. USE ONLY IF REQUIRED.
9	SERIALIZE PER ND 1002023.
10	MARK IDENTIFICATION BANDS WITH DESIGNATION AS NOTED, .12 INCH HIGH COLOR BLACK PER ND1002019, CENTRALIZE.
11	ASSEMBLE PER ND1002032.
12	AT ASSEMBLY OF ITEM 4 TO ITEM 7, REMOVE 4 SELF-LOCKING NUTS SECURING LOCATING PINS TO ITEM 4 AND DISCARD. ATTACH ITEM 4 TO ITEM 7 USING LOCATING PINS.
13	SPOT TIE GROUPS OF LEADS ADJACENT TO INTERNAL CLAMP (CONNECTOR SIDE). USE ITEM 12 TO SHAPE WIRE BUNDLE IN CLAMP. USE ITEM 9 TO SECURE WIRE BUNDLE IN CLAMP, IF REQUIRED.

SIZE	CODE IDENT NO.		
A	99974	2901351	
SCALE-NONE	REV LTR	C	SHEET 2 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586 2901351 B ~~A~~

NOTE NUMBER GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901351	
SCALE-NONE	REV LTR	B ~~A~~	SHEET 3 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586 2901351 C

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	CTY	PART NO.	DESCRIPTION
	1	1	2901351-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 256 FT.-0 IN. TOTAL LENGTH
	2	1	2901351-002	ZIPPER TUBING PER ND1002155, TYPE 1, GRAY, 1 DIA, 4 FT-0 IN. TOTAL LENGTH.
	3	1	2901070-011	CONNECTOR ASSEMBLY, FEMALE
	4	1	1897336-001	CONNECTOR, PLUG, ELECTRICAL
	5	64	1016369-421	CONTACT, FEMALE
	6	64	1897300-002	CONTACT, SPRING SOCKET
	7	1	1897391	CLAMP, STRAIN RELIEF
	8	64	1015864-232	INSULATION SLEEVING, ELECTRICAL
	9	AR	MIL-I-631 TYPE F FORM T, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .020 THICK
	10	AR	MIL-T-713B TYPE P CLASS 2, BLACK	LACING TAPE
	11	3	1016128-021	BAND, IDENTIFICATION
	12	AR	MIL-I-15126 TYPE ACT	INSULATION, TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMO SETTING ADHESIVE .75 + OR - .03 WIDE (ES2716 TYPE C)

SIZE	CODE IDENT NO.		
A	99974	2901351	
SCALE-NONE	REV LTR	C	SHEET 4 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586 2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-A3 P2-A5					.15 .19	NO NO		6, 8 5	
A 2	1		P1-A4 P2-A6					.15 .19	NO NO		6, 8 5	
A 3	1		P1-A5 P2-B1					.15 .19	NO NO		6, 8 5	
A 4	1		P1-A6 P2-B2					.15 .19	NO NO		6, 8 5	
A 5	1		P1-A7 P2-B3					.15 .19	NO NO		6, 8 5	
A 6	1		P1-B1 P2-C4					.15 .19	NO NO		6, 8 5	
A 7	1		P1-B2 P2-C5					.15 .19	NO NO		6, 8 5	
A 8	1		P1-B3 P2-C6					.15 .19	NO NO		6, 8 5	
A 9	1		P1-B4 P2-C7					.15 .19	NO NO		6, 8 5	
A 10	1		P1-B5 P2-C8					.15 .19	NO NO		6, 8 5	
A 11	1		P1-B6 P2-D1					.15 .19	NO NO		6, 8 5	
A 12	1		P1-B7 P2-D2					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.		
A	99974	2901351	
SCALE-NONE	REV LTR	B	SHEET 5 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W586 2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-B8 P2-D3					.15 .19	NO NO		6, 8 5	
A 14	1		P1-B9 P2-D4					.15 .19	NO NO		6, 8 5	
A 15	1		P1-C1 P2-E3					.15 .19	NO NO		6, 8 5	
A 16	1		P1-C2 P2-E4					.15 .19	NO NO		6, 8 5	
A 17	1		P1-C3 P2-E5					.15 .19	NO NO		6, 8 5	
A 18	1		P1-C4 P2-E6					.15 .19	NO NO		6, 8 5	
A 19	1		P1-C5 P2-E7					.15 .19	NO NO		6, 8 5	
A 20	1		P1-C6 P2-E8					.15 .19	NO NO		6, 8 5	
A 21	1		P1-C7 P2-F1					.15 .19	NO NO		6, 8 5	
A 22	1		P1-C8 P2-F2					.15 .19	NO NO		6, 8 5	
A 23	1		P1-C9 P2-F3					.15 .19	NO NO		6, 8 5	
A 24	1		P1-D1 P2-G2					.15 .19	NO NO		6, 8 5	

SIZE A | CODE IDENT NO. 99974 | 2901351

SCALE-NONE | REV LTR ~~A~~ B | SHEET 6 OF 11

CABLE ASSEMBLY W586 2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P1-D2 P2-G3					.15 .19	NO NO		6, 8 5	
A 26	1		P1-D3 P2-G4					.15 .19	NO NO		6, 8 5	
A 27	1		P1-D4 P2-G5					.15 .19	NO NO		6, 8 5	
A 28	1		P1-D5 P2-G6					.15 .19	NO NO		6, 8 5	
A 29	1		P1-D6 P2-G7					.15 .19	NO NO		6, 8 5	
A 30	1		P1-D7 P2-G8					.15 .19	NO NO		6, 8 5	
A 31	1		P1-D8 P2-H1					.15 .19	NO NO		6, 8 5	
A 32	1		P1-D9 P2-H2					.15 .19	NO NO		6, 8 5	
A 33	1		P1-F1 P2-J1					.15 .19	NO NO		6, 8 5	
A 34	1		P1-F2 P2-J2					.15 .19	NO NO		6, 8 5	
A 35	1		P1-F3 P2-J3					.15 .19	NO NO		6, 8 5	
A 36	1		P1-F4 P2-J4					.15 .19	NO NO		6, 8 5	

SIZE A | CODE IDENT NO. 99974 | 2901351

SCALE-NONE | REV LTR B ~~A~~ | SHEET 7 OF 11

CABLE ASSEMBLY W586 2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-F5 P2-J5					.15 .19	NO NO		6, 8 5	
A 38	1		P1-F6 P2-J6					.15 .19	NO NO		6, 8 5	
A 39	1		P1-F7 P2-J7					.15 .19	NO NO		6, 8 5	
A 40	1		P1-F8 P2-J8					.15 .19	NO NO		6, 8 5	
A 41	1		P1-F9 P2-K1					.15 .19	NO NO		6, 8 5	
A 42	1		P1-G1 P2-L2					.15 .19	NO NO		6, 8 5	
A 43	1		P1-G2 P2-L7					.15 .19	NO NO		6, 8 5	
A 44	1		P1-G3 P2-L8					.15 .19	NO NO		6, 8 5	
A 45	1		P1-G4 P2-M1					.15 .19	NO NO		6, 8 5	
A 46	1		P1-G5 P2-M2					.15 .19	NO NO		6, 8 5	
A 47	1		P1-G6 P2-M3					.15 .19	NO NO		6, 8 5	
A 48	1		P1-G7 P2-M6					.15 .19	NO NO		6, 8 5	

SIZE A | CODE IDENT NO. 99974 | 2901351

SCALE-NONE | REV LTR B ~~A~~ | SHEET 8 OF 11

CABLE ASSEMBLY W586 2901351 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P1-G8 P2-M7					.15 .19	NO NO		6, 8 5	
A 50	1		P1-G9 P2-M8					.15 .19	NO NO		6, 8 5	
A 51	1		P1-H1 P2-N7					.15 .19	NO NO		6, 8 5	
A 52	1		P1-H2 P2-N8					.15 .19	NO NO		6, 8 5	
A 53	1		P1-H3 P2-P1					.15 .19	NO NO		6, 8 5	
A 54	1		P1-H4 P2-P2					.15 .19	NO NO		6, 8 5	
A 55	1		P1-H5 P2-P3					.15 .19	NO NO		6, 8 5	
A 56	1		P1-H6 P2-P4					.15 .19	NO NO		6, 8 5	
A 57	1		P1-H7 P2-P5					.15 .19	NO NO		6, 8 5	
A 58	1		P1-H8 P2-P6					.15 .19	NO NO		6, 8 5	
A 59	1		P1-H9 P2-P7					.15 .19	NO NO		6, 8 5	
A 60	1		P1-K3 P2-R8					.15 .19	NO NO		6, 8 5	

SIZE A | CODE IDENT NO. 99974 | 2901351

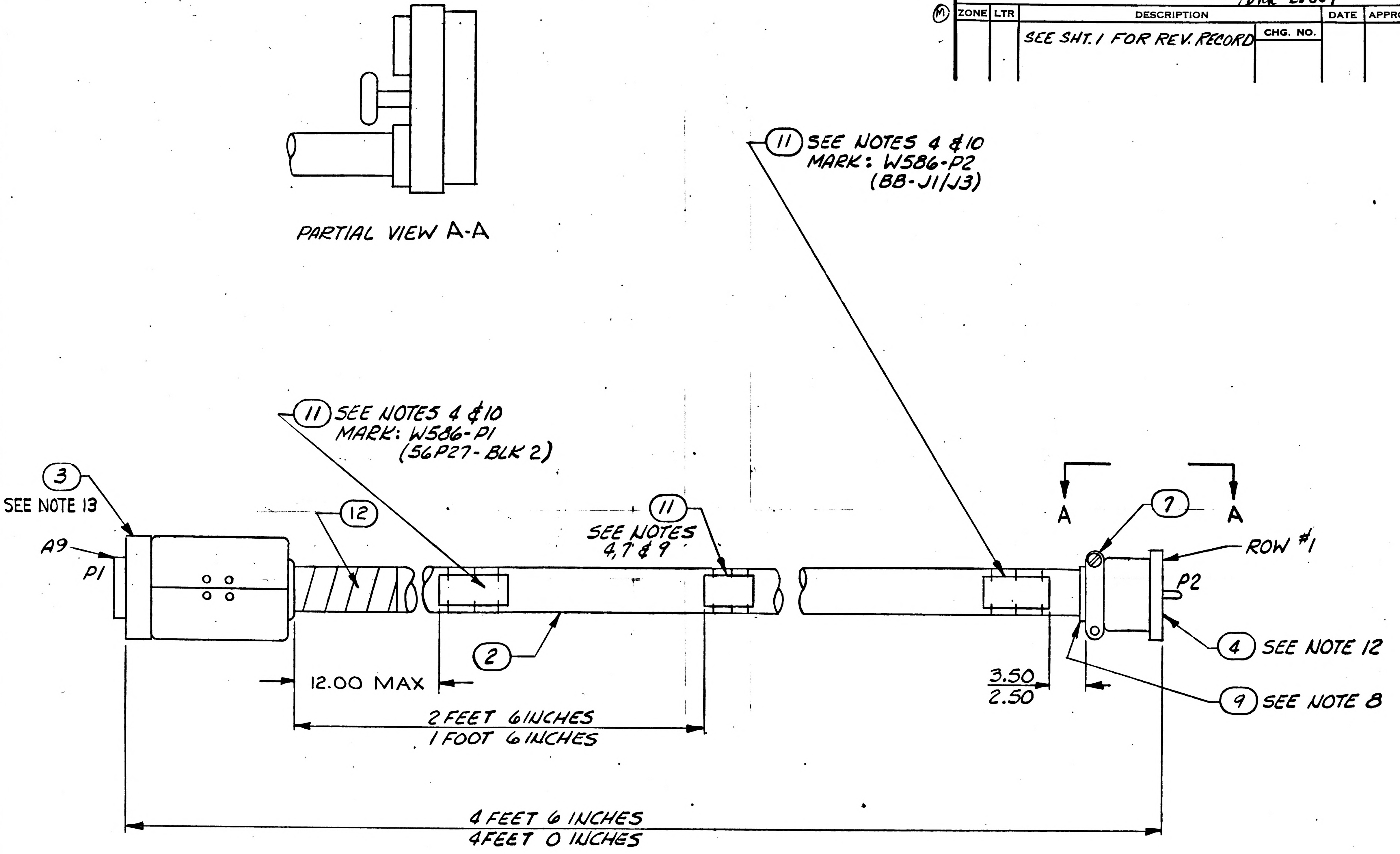
SCALE-NONE | REV LTR B ~~A~~ | SHEET 9 OF 11

CABLE ASSEMBLY W586 2901351 B ★ *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P1-K4 P2-S1					.15 .19	NO NO		6, 8 5	
A 62	1		P1-K5 P2-S2					.15 .19	NO NO		6, 8 5	
A 63	1		P1-K6 P2-S3					.15 .19	NO NO		6, 8 5	
A 64	1		P1-K7 P2-S4					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901351
SCALE-NONE	REV LTR B ~~A~~ *	SHEET 10 OF 11

REVISIONS TORR 28604					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHT. 1 FOR REV. RECORD			


PARTIAL VIEW A-A

(11) SEE NOTES 4 & 10
MARK: W586-P2
(BB-J1/J3)
(11) SEE NOTES 4 & 10
MARK: W586-P1
(56P27-BLK 2)
(3) SEE NOTE 13
A9
P1
(12)
(11) SEE NOTES 4, 7 & 9
A
A
(7)
ROW #1
P2
(4) SEE NOTE 12
(9) SEE NOTE 8
(2)
12.00 MAX
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	DRAWN D. J. Fisher DATE 3 MAR 66 CHECKED J. Barber 24 MAR 66 APPROVAL Wildman 5/3/66 CONTRACT NAS 9-497	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W586	
MATERIAL —	NASA APPROVAL	SIZE C	CODE IDENT NO. 99974 — 2901351
APPROVAL	MIT APPROVAL 5-10	SCALE —	SHEET 11 OF 11

NEXT ASSY	USED ON
2901076	2901076
APPLICATION	

MIL-1002D D

APPLICATION	
NEXT ASSY	USED ON
2901076-011	2901076-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV (-) WITH CHANGE PER MXC 210923	7-APR -66	B.
B	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	EF

REV												
SHEET												
REV STATUS OF SHEETS	REV	B	B	B	B	B	B	B	B	B	B	B
	SHEET	1	2	3	4	5	6	7	8	9	10	11

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 3 MAR-66 (DAY MO YR)
CHECKER 24 MAR 66
ENGINEER 24 Mar 66
APPROVAL
CONTR NO. NAS9-497

NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W587

SIZE A
CODE IDENT. NO 99974
2901352

SCALE NONE
SHEET 1 OF 11

MIL 1377A6 12-65

CABLE ASSEMBLY W587 2901352 B A#

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 10.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 10.

5 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

6 APPLY LEAD IDENTIFICATIONS PER ND1002019.

7 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

8 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 9 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

9 SERIALIZE PER ND1002032.

10 MARK IDENTIFICATION BANDS WITH DESIGNATION AS NOTED, .12 INCH HIGH COLOR BLACK PER ND1002019, CENTRALIZE.

11 ASSEMBLE PER ND1002032.

12 AT ASSEMBLY OF ITEM 4 TO ITEM 7, REMOVE 4 SELF-LOCKING NUTS SECURING LOCATING PINS TO ITEM 4 AND DISCARD. ATTACH ITEM 4 TO ITEM 7 USING LOCATING PINS.

SIZE A	CODE IDENT NO. 99974	2901352	
SCALE-NONE	REV LTR B A#		SHEET 2 OF 11

CABLE ASSEMBLY W587 2901352 B A#

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901352	
SCALE-NONE	REV LTR B A#		SHEET 3 OF 11

CABLE ASSEMBLY W587 2901352 B A#

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901352-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 256 FT.-0 IN. TOTAL LENGTH
	2	1	2901352-002	ZIPPER TUBING PER ND1002155, TYPE 1, GRAY, 1 DIA, 4 FT-0 IN. TOTAL LENGTH.
	3	1	2901072-011 ~~2901070-011~~	CONNECTOR ASSEMBLY, FEMALE
	4	1	1897336-001	CONNECTOR, PLUG, ELECTRICAL
	5	64	1016369-421	CONTACT, FEMALE
	6	64	1897300-002	CONTACT, SPRING SOCKET
	7	1	1897391	CLAMP, STRAIN RELIEF
	8	64	1015864-232	INSULATION SLEEVING, ELECTRICAL
	9	AR	MIL-I-631 TYPE F FORM T, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .020 THICK
	10	AR	MIL-T-713B TYPE P CLASS 2, BLACK	LACING TAPE
	11	3	1016128-021	BAND, IDENTIFICATION

SIZE A	CODE IDENT NO. 99974	2901352	
SCALE-NONE	REV LTR B A#		SHEET 4 OF 11

CABLE ASSEMBLY W587 2901352 B A#

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-A3 P2-A5					.15 .19	NO NO		6, 8 5	
A 2	1		P1-A4 P2-A6					.15 .19	NO NO		6, 8 5	
A 3	1		P1-A5 P2-B1					.15 .19	NO NO		6, 8 5	
A 4	1		P1-A6 P2-B2					.15 .19	NO NO		6, 8 5	
A 5	1		P1-A7 P2-B3					.15 .19	NO NO		6, 8 5	
A 6	1		P1-B1 P2-C4					.15 .19	NO NO		6, 8 5	
A 7	1		P1-B2 P2-C5					.15 .19	NO NO		6, 8 5	
A 8	1		P1-B3 P2-C6					.15 .19	NO NO		6, 8 5	
A 9	1		P1-B4 P2-C7					.15 .19	NO NO		6, 8 5	
A 10	1		P1-B5 P2-C8					.15 .19	NO NO		6, 8 5	
A 11	1		P1-B6 P2-D1					.15 .19	NO NO		6, 8 5	
A 12	1		P1-B7 P2-D2					.15 .19	NO NO		6, 8 5	

SIZE A	CODE IDENT NO. 99974	2901352	
SCALE-NONE	REV LTR B A#		SHEET 5 OF 11

CABLE ASSEMBLY W587 2901352 B A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-B8 P2-D3					.15 .19	NO NO		6, 8 5	
A 14	1		P1-B9 P2-D4					.15 .19	NO NO		6, 8 5	
A 15	1		P1-C1 P2-E3					.15 .19	NO NO		6, 8 5	
A 16	1		P1-C2 P2-E4					.15 .19	NO NO		6, 8 5	
A 17	1		P1-C3 P2-E5					.15 .19	NO NO		6, 8 5	
A 18	1		P1-C4 P2-E6					.15 .19	NO NO		6, 8 5	
A 19	1		P1-C5 P2-E7					.15 .19	NO NO		6, 8 5	
A 20	1		P1-C6 P2-E8					.15 .19	NO NO		6, 8 5	
A 21	1		P1-C7 P2-F1					.15 .19	NO NO		6, 8 5	
A 22	1		P1-C8 P2-F2					.15 .19	NO NO		6, 8 5	
A 23	1		P1-C9 P2-F3					.15 .19	NO NO		6, 8 5	
A 24	1		P1-D1 P2-G2					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A
SHEET 6 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W587 2901352 B A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P1-D2 P2-G3					.15 .19	NO NO		6, 8 5	
A 26	1		P1-D3 P2-G4					.15 .19	NO NO		6, 8 5	
A 27	1		P1-D4 P2-G5					.15 .19	NO NO		6, 8 5	
A 28	1		P1-D5 P2-G6					.15 .19	NO NO		6, 8 5	
A 29	1		P1-D6 P2-G7					.15 .19	NO NO		6, 8 5	
A 30	1		P1-D7 P2-G8					.15 .19	NO NO		6, 8 5	
A 31	1		P1-D8 P2-H1					.15 .19	NO NO		6, 8 5	
A 32	1		P1-D9 P2-H2					.15 .19	NO NO		6, 8 5	
A 33	1		P1-F1 P2-J1					.15 .19	NO NO		6, 8 5	
A 34	1		P1-F2 P2-J2					.15 .19	NO NO		6, 8 5	
A 35	1		P1-F3 P2-J3					.15 .19	NO NO		6, 8 5	
A 36	1		P1-F4 P2-J4					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A
SHEET 7 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W587 2901352 B A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-F5 P2-J5					.15 .19	NO NO		6, 8 5	
A 38	1		P1-F6 P2-J6					.15 .19	NO NO		6, 8 5	
A 39	1		P1-F7 P2-J7					.15 .19	NO NO		6, 8 5	
A 40	1		P1-F8 P2-J8					.15 .19	NO NO		6, 8 5	
A 41	1		P1-F9 P2-K1					.15 .19	NO NO		6, 8 5	
A 42	1		P1-G1 P2-L2					.15 .19	NO NO		6, 8 5	
A 43	1		P1-G2 P2-L7					.15 .19	NO NO		6, 8 5	
A 44	1		P1-G3 P2-L8					.15 .19	NO NO		6, 8 5	
A 45	1		P1-G4 P2-M1					.15 .19	NO NO		6, 8 5	
A 46	1		P1-G5 P2-M2					.15 .19	NO NO		6, 8 5	
A 47	1		P1-G6 P2-M3					.15 .19	NO NO		6, 8 5	
A 48	1		P1-G7 P2-M6					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A
SHEET 8 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W587 2901352 B A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P1-G8 P2-M7					.15 .19	NO NO		6, 8 5	
A 50	1		P1-G9 P2-M8					.15 .19	NO NO		6, 8 5	
A 51	1		P1-H1 P2-N7					.15 .19	NO NO		6, 8 5	
A 52	1		P1-H2 P2-N8					.15 .19	NO NO		6, 8 5	
A 53	1		P1-H3 P2-P1					.15 .19	NO NO		6, 8 5	
A 54	1		P1-H4 P2-P2					.15 .19	NO NO		6, 8 5	
A 55	1		P1-H5 P2-P3					.15 .19	NO NO		6, 8 5	
A 56	1		P1-H6 P2-P4					.15 .19	NO NO		6, 8 5	
A 57	1		P1-H7 P2-P5					.15 .19	NO NO		6, 8 5	
A 58	1		P1-H8 P2-P6					.15 .19	NO NO		6, 8 5	
A 59	1		P1-H9 P2-P7					.15 .19	NO NO		6, 8 5	
A 60	1		P1-K3 P2-R8					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A
SHEET 9 OF 11

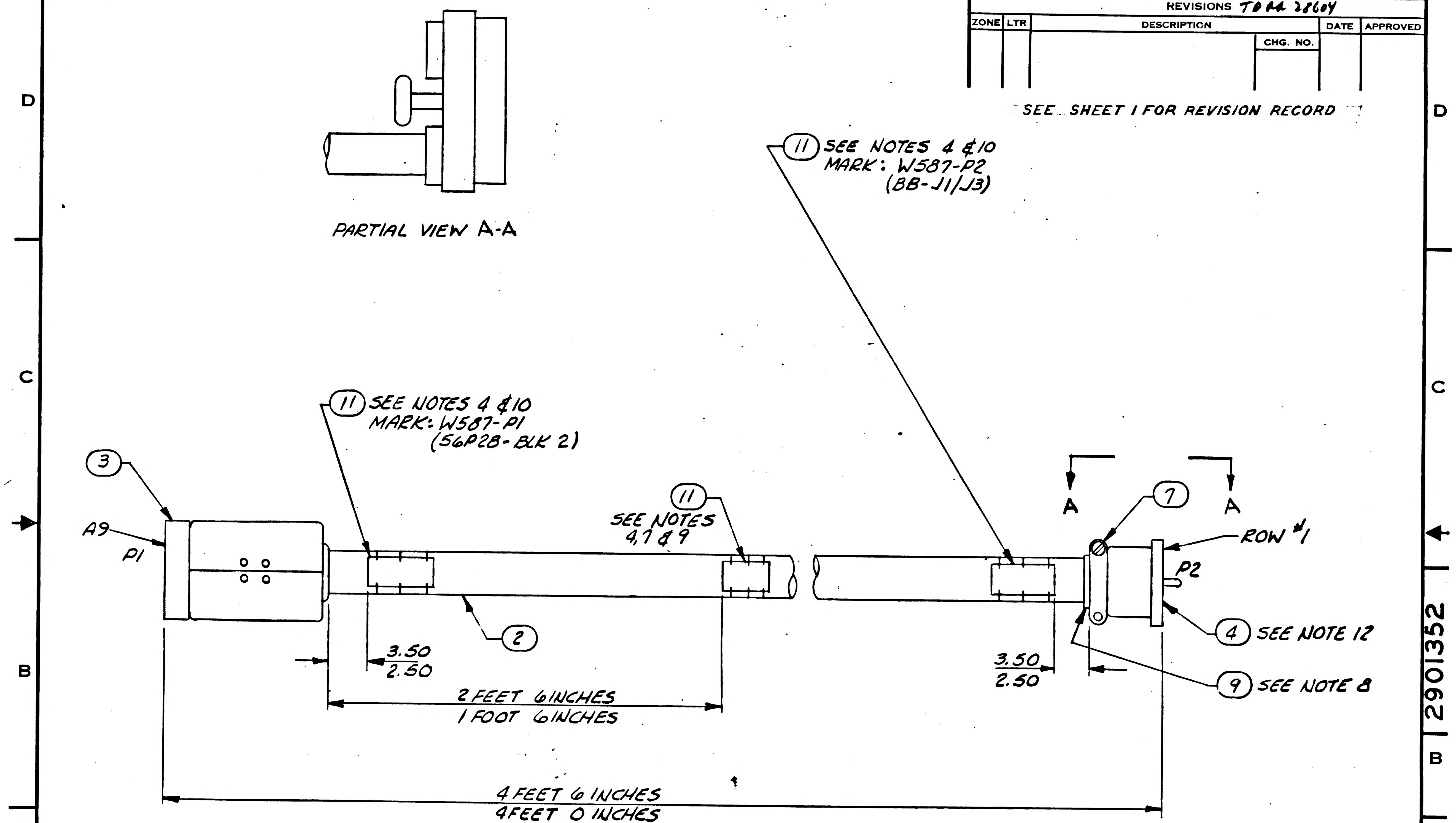
MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P1-K4 P2-S1					.15 .19	NO NO		6, 8 5	
A 62	1		P1-K5 P2-S2					.15 .19	NO NO		6, 8 5	
A 63	1		P1-K6 P2-S3					.15 .19	NO NO		6, 8 5	
A 64	1		P1-K7 P2-S4					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B ~~A~~	SHEET 10 OF 11

REVISIONS TDRR 28604				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
		CHG. NO.		

SEE SHEET 1 FOR REVISION RECORD


PARTIAL VIEW A-A
11 SEE NOTES 4 & 10
MARK: W587-P2
(BB-J1/J3)
11 SEE NOTES 4 & 10
MARK: W587-P1
(56P28-BLK 2)
3
A9
P1
11
SEE NOTES
4, 7 & 9
2
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES
A
A
7
ROW #1
P2
4 SEE NOTE 12
9 SEE NOTE 8
3.50
2.50
D
C
B
A
4
3
2
1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
2 PLACE DECIMALS ± —— 3 PLACE DECIMALS ± —— ANGLES ± ——	DRAWN A. J. Fleder DATE 3-MAR-66 CHECKED Mrazek 24 MAR 66 APPROVAL L. Eckman 3/31/66 CONTRACT NAS9-497	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W587
DO NOT SCALE THIS DRAWING		
MATERIAL ——	NASA APPROVAL	SIZE C · CODE IDENT NO. 99974 · 2901352
APPROVAL	MIT APPROVAL	SCALE —— · SHEET 11 OF 11

NEXT ASSY	USED ON
2901076-011	2901076-011
APPLICATION	

MIL-1052D D

APPLICATION	
NEXT ASSY	USED ON
2901076-011	2901076-011

LTR	DESCRIPTION	DATE	APPROVED
A	REPLACES REV (-) WITH CHANGE PER MXC 210923	7-APR-66	B.
Ⓜ B	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	EF
C	REVISED PER TDRR 30346	15 AUG 66	JJB RLW

REV STATUS OF SHEETS											
REV	C	C	B	C	B	B	B	B	B	B	C
SHEET	1	2	3	4	5	6	7	8	9	10	11

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 3-MAR-66 (DAY MO YR)
CHECKER 24 MAR 66
ENGINEER 24 Mar 66
APPROVAL
CONTR NO. NAS9-497

NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W587

SIZE A | CODE IDENT. NO 99974 | 2901352

SCALE NONE | SHEET 1 OF 11

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 10.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 10.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	IDENTIFY PER MIL-STD-130 (ES2671) USING PART NUMBER.
8	FILL THE SPACE BETWEEN WIRE BUNDLE AND CLAMP USING ITEM 9 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP. USE ONLY IF REQUIRED.
9	SERIALIZE PER ND1002023
10	MARK IDENTIFICATION BANDS WITH DESIGNATION AS NOTED, .12 INCH HIGH COLOR BLACK PER ND1002019, CENTRALIZE.
11	ASSEMBLE PER ND1002032.
12	AT ASSEMBLY OF ITEM 4 TO ITEM 7, REMOVE 4 SELF-LOCKING NUTS SECURING LOCATING PINS TO ITEM 4 AND DISCARD. ATTACH ITEM 4 TO ITEM 7 USING LOCATING PINS.
13	SPOT TIE GROUPS OF LEADS ADJACENT TO INTERNAL CLAMP (CONNECTOR SIDE). USE ITEM 12 TO SHAPE WIRE BUNDLE IN CLAMP. USE ITEM 9 TO SECURE WIRE BUNDLE IN CLAMP, IF REQUIRED.

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR C SHEET 2 OF 11

MIL 2084 9-65

NOTE NUMBER
GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A SHEET 3 OF 11

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901352-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 256 FT.-0 IN. TOTAL LENGTH
	2	1	2901352-002	ZIPPER TUBING PER ND1002155, TYPE 1, GRAY, 1 DIA, 4 FT-0 IN. TOTAL LENGTH.
	3	1	2901072-011	CONNECTOR ASSEMBLY, FEMALE
	4	1	1897336-001	CONNECTOR, PLUG, ELECTRICAL
	5	64	1016369-421	CONTACT, FEMALE
	6	64	1897300-002	CONTACT, SPRING SOCKET
	7	1	1897391	CLAMP, STRAIN RELIEF
	8	64	1015864-232	INSULATION SLEEVING, ELECTRICAL
	9	AR	MIL-I-631 TYPE F FORM T, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .020 THICK
	10	AR	MIL-T-713B TYPE P CLASS 2, BLACK	LACING TAPE
	11	3	1016128-021	BAND, IDENTIFICATION
	12	AR	MIL-I-15126 TYPE ACT	INSULATION, TAPE, ELECTRICAL, PRESSURE SENSITIVE THERMO SETTING ADHESIVE .75 + OR - .03 WIDE (ES2716 TYPE C)

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR C SHEET 4 OF 11

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-A3 P2-A5					.15 .19	NO NO		6, 8 5	
A 2	1		P1-A4 P2-A6					.15 .19	NO NO		6, 8 5	
A 3	1		P1-A5 P2-B1					.15 .19	NO NO		6, 8 5	
A 4	1		P1-A6 P2-B2					.15 .19	NO NO		6, 8 5	
A 5	1		P1-A7 P2-B3					.15 .19	NO NO		6, 8 5	
A 6	1		P1-B1 P2-C4					.15 .19	NO NO		6, 8 5	
A 7	1		P1-B2 P2-C5					.15 .19	NO NO		6, 8 5	
A 8	1		P1-B3 P2-C6					.15 .19	NO NO		6, 8 5	
A 9	1		P1-B4 P2-C7					.15 .19	NO NO		6, 8 5	
A 10	1		P1-B5 P2-C8					.15 .19	NO NO		6, 8 5	
A 11	1		P1-B6 P2-D1					.15 .19	NO NO		6, 8 5	
A 12	1		P1-B7 P2-D2					.15 .19	NO NO		6, 8 5	

SIZE A
CODE IDENT NO. 99974
2901352
SCALE-NONE REV LTR B A SHEET 5 OF 11

MIL 2084 9-65

CABLE ASSEMBLY W587 2901352 B A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	P1-B8 P2-D3					.15 .19	NO NO		6, 8 5	
A	14	1	P1-B9 P2-D4					.15 .19	NO NO		6, 8 5	
A	15	1	P1-C1 P2-E3					.15 .19	NO NO		6, 8 5	
A	16	1	P1-C2 P2-E4					.15 .19	NO NO		6, 8 5	
A	17	1	P1-C3 P2-E5					.15 .19	NO NO		6, 8 5	
A	18	1	P1-C4 P2-E6					.15 .19	NO NO		6, 8 5	
A	19	1	P1-C5 P2-E7					.15 .19	NO NO		6, 8 5	
A	20	1	P1-C6 P2-E8					.15 .19	NO NO		6, 8 5	
A	21	1	P1-C7 P2-F1					.15 .19	NO NO		6, 8 5	
A	22	1	P1-C8 P2-F2					.15 .19	NO NO		6, 8 5	
A	23	1	P1-C9 P2-F3					.15 .19	NO NO		6, 8 5	
A	24	1	P1-D1 P2-G2					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B A✓	SHEET 6 OF 11

CABLE ASSEMBLY W587 2901352 B A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1	P1-D2 P2-G3					.15 .19	NO NO		6, 8 5	
A	26	1	P1-D3 P2-G4					.15 .19	NO NO		6, 8 5	
A	27	1	P1-D4 P2-G5					.15 .19	NO NO		6, 8 5	
A	28	1	P1-D5 P2-G6					.15 .19	NO NO		6, 8 5	
A	29	1	P1-D6 P2-G7					.15 .19	NO NO		6, 8 5	
A	30	1	P1-D7 P2-G8					.15 .19	NO NO		6, 8 5	
A	31	1	P1-D8 P2-H1					.15 .19	NO NO		6, 8 5	
A	32	1	P1-D9 P2-H2					.15 .19	NO NO		6, 8 5	
A	33	1	P1-F1 P2-J1					.15 .19	NO NO		6, 8 5	
A	34	1	P1-F2 P2-J2					.15 .19	NO NO		6, 8 5	
A	35	1	P1-F3 P2-J3					.15 .19	NO NO		6, 8 5	
A	36	1	P1-F4 P2-J4					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B A✓	SHEET 7 OF 11

CABLE ASSEMBLY W587 2901352 B A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1	P1-F5 P2-J5					.15 .19	NO NO		6, 8 5	
A	38	1	P1-F6 P2-J6					.15 .19	NO NO		6, 8 5	
A	39	1	P1-F7 P2-J7					.15 .19	NO NO		6, 8 5	
A	40	1	P1-F8 P2-J8					.15 .19	NO NO		6, 8 5	
A	41	1	P1-F9 P2-K1					.15 .19	NO NO		6, 8 5	
A	42	1	P1-G1 P2-L2					.15 .19	NO NO		6, 8 5	
A	43	1	P1-G2 P2-L7					.15 .19	NO NO		6, 8 5	
A	44	1	P1-G3 P2-L8					.15 .19	NO NO		6, 8 5	
A	45	1	P1-G4 P2-M1					.15 .19	NO NO		6, 8 5	
A	46	1	P1-G5 P2-M2					.15 .19	NO NO		6, 8 5	
A	47	1	P1-G6 P2-M3					.15 .19	NO NO		6, 8 5	
A	48	1	P1-G7 P2-M6					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B A✓	SHEET 8 OF 11

CABLE ASSEMBLY W587 2901352 B A✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	49	1	P1-G8 P2-M7					.15 .19	NO NO		6, 8 5	
A	50	1	P1-G9 P2-M8					.15 .19	NO NO		6, 8 5	
A	51	1	P1-H1 P2-N7					.15 .19	NO NO		6, 8 5	
A	52	1	P1-H2 P2-N8					.15 .19	NO NO		6, 8 5	
A	53	1	P1-H3 P2-P1					.15 .19	NO NO		6, 8 5	
A	54	1	P1-H4 P2-P2					.15 .19	NO NO		6, 8 5	
A	55	1	P1-H5 P2-P3					.15 .19	NO NO		6, 8 5	
A	56	1	P1-H6 P2-P4					.15 .19	NO NO		6, 8 5	
A	57	1	P1-H7 P2-P5					.15 .19	NO NO		6, 8 5	
A	58	1	P1-H8 P2-P6					.15 .19	NO NO		6, 8 5	
A	59	1	P1-H9 P2-P7					.15 .19	NO NO		6, 8 5	
A	60	1	P1-K3 P2-R8					.15 .19	NO NO		6, 8 5	

SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B A✓	SHEET 9 OF 11

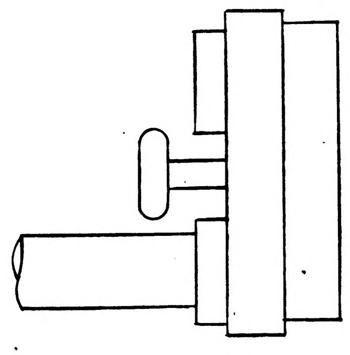
CABLE ASSEMBLY W587 2901352 B ~~A~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P1-K4 P2-S1					.15 .19	NO NO		6, 8 5	
A 62	1		P1-K5 P2-S2					.15 .19	NO NO		6, 8 5	
A 63	1		P1-K6 P2-S3					.15 .19	NO NO		6, 8 5	
A 64	1		P1-K7 P2-S4					.15 .19	NO NO		6, 8 5	

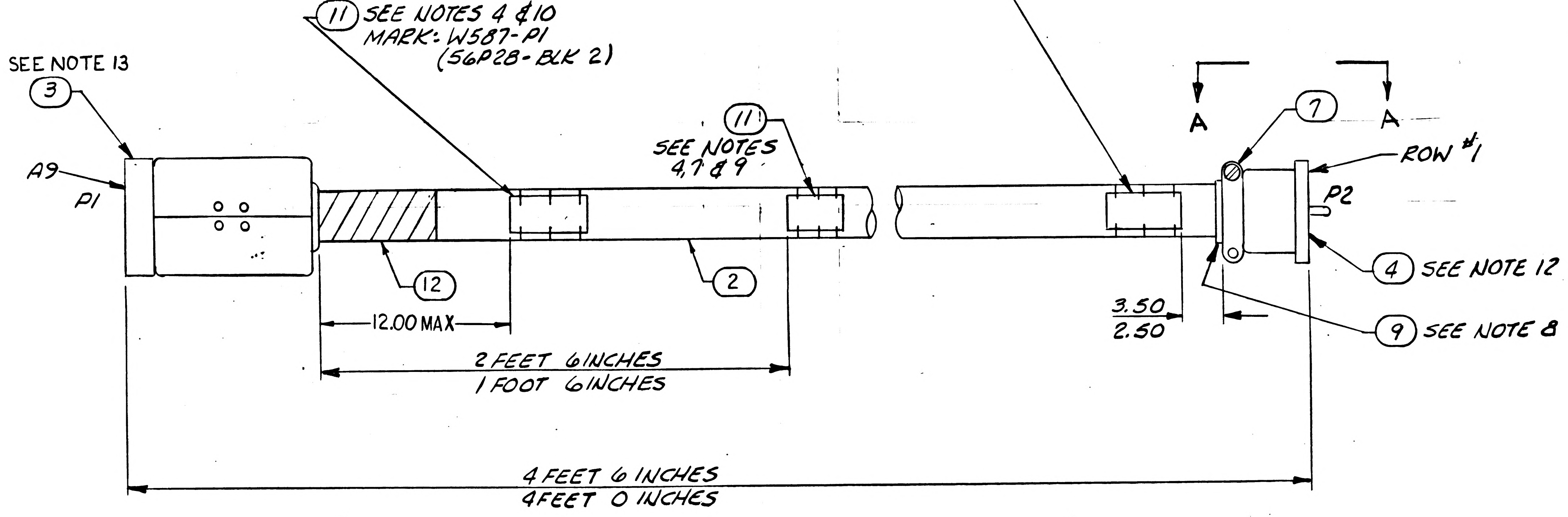
SIZE	CODE IDENT NO.	
A	99974	2901352
SCALE-NONE	REV LTR B ~~A~~	SHEET 10 OF 11

REVISIONS TDRR 28604					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED

SEE SHEET 1 FOR REVISION RECORD



PARTIAL VIEW A-A



SEE NOTE 13
3
A9
P1
11 SEE NOTES 4 & 10
MARK: W587-P1
(56P28-BLK 2)
11
SEE NOTES 4, 7 & 9
12
2
12.00 MAX
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES
11 SEE NOTES 4 & 10
MARK: W587-P2
(BB-J1/J3)
A
A
7
ROW #1
P2
4 SEE NOTE 12
9 SEE NOTE 8
3.50
2.50

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___

DO NOT SCALE THIS DRAWING

MATERIAL ______

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN A. J. Fluder DATE 3-MAR-66
CHECKED [illegible] 24 MAR 66
APPROVAL [illegible]
CONTRACT NAS9-497
NASA APPROVAL [illegible]
MIT APPROVAL ______

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W587

SIZE	CODE IDENT NO.	
C	99974	2901352

SCALE — SHEET 11 OF 11

MIL-1052D D

APPLICATION	
NEXT ASSY	USED ON
8102197	8102157

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211577	22 APR 66	PHG
B	REVISED PER MXC 211682	27 APR 66	JJJ JAC
C	INITIAL RELEASE CLASS A PER TDRR 28595	2 MAY 66	DKD JAL

REV STATUS OF SHEETS									
REV	C	C	C	C	C	C	C	C	C
SHEET	1	2	3	4	5	6	7	8	9

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 23-MAR-66 (DAY MO YR)
CHECKER C. WILSON 7APR66
ENGINEER
APPROVAL J M Watson 5-3-66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET - ELECTRICAL FOR RETROFIT KIT FOR GSE DISTRIBUTION BOX

SIZE A
CODE IDENT. NO 99974
2901358
SCALE NONE
SHEET 1 OF 9

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	SHIELD TERMINATION FIGURES ARE PER- A - ND1002071 B - ND1002032
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	MARK IDENTIFICATION BANDS 2901373, 2901470, AND 2901507 RESPECTIVELY PER ND1002019, .12 INCH HIGH, COLOR BLACK. CENTRALIZE.
6	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER. W - WHITE

SIZE	CODE IDENT NO.	
A	99974	2901358
SCALE-NONE	REV LTR C	SHEET 2 of 9

NOTE NUMBER — GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	99974	2901358
SCALE-NONE	REV LTR C	SHEET 3 OF 9

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901358-001	WIRE, ND1002181, TYPE 1, CLASS 1, 20AWG, WHT 102 FT 6 IN. TOTAL LENGTH
	2	1	2901358-002	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 13 FT 6 IN. TOTAL LENGTH
	3	1	2901358-003	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG, WHT, 27 FT 0 IN. TOTAL LENGTH
	4	1	2901358-004	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 24AWG, WHT/BLU, WHT/RED 12 FT 6 IN. TOT LG
	5	1	2901358-005	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 22AWG, WHT/BLU, WHT/RED, 15 FT 6 IN. TOT. LG.
	6	1	2901358-006	WIRE, ND1002181, TYPE 1, CLASS 4, WHT JKT 22AWG, WHT 20 FT 0 IN. TOT LG.
	7	1	2901358-007	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG, WHT ~~12~~ 13 FT ~~0~~ 6 IN. TOT. LG.
	8		1897190- 2	DELETED
	9	3	1016369-721	CONTACT, SOCKET
	10	3	1016128-011	BAND, IDENTIFICATION
	11	3	1016369-421	CONTACT, SOCKET
	12	7	1010490-228	INSULATION, SLEEVING
	13	5	1897266-001	CONTACT, RECEPTACLE
	14	6	MS3193A-20A	(1896877-020) CONTACT, SOCKET
	15	9	1010763- 2	SOLDER SLEEVE

SIZE	CODE IDENT NO.	
A	99974	2901358
SCALE-NONE	REV LTR ~~B~~ C	SHEET 4 OF 9

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	16	2	1010490-232	INSULATION SLEEVING
	17	3	1015902- 49	TERMINAL LUG

SIZE	CODE IDENT NO.	
A	99974	2901358
SCALE-NONE	REV LTR C	SHEET 5 OF 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A)	TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 114	1	36.00					.19			NO		17	
A 115	1	36.00					.19			NO		17	
D 786	1	108.00	NONE						.19	NO		11	
D 787	1	108.00	NONE						.19	NO		11	
D 788	1	108.00	NONE						.19	NO		11	
D 789	1	12.00	NONE										
D 790	1	96.00	NONE						.12	NO		13	
D 791	1	96.00	NONE						.22	NO		14	
D 792			DELETED										
D 793	2	120.00	NONE						.15	NO		8	
D 794	3	108.00	NONE						.22	NO		9	
D 795	3	108.00	NONE						.22	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A)	TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 796	3	108.00	NONE						.22	NO		9	
D 797	1	108.00	NONE						.22	NO		14	
D 798	1	96.00	NONE						.22	NO		14	
D 817	5	90.00				3.30	3.00				A,6A	15, 12	
D 817A	2	30.00	SHLD	D817					.25	NO			
D 818	5	96.00				3.30	3.00				A,6A	15, 12	
D 818A	2	36.00	SHLD	D818					.25	NO			
D 818L									.22	NO		14	
D 818R									.22	NO		14	
D 819	6	120.00				3.30	3.00				A,6A	15, 16	
D 819A	2	60.00	SHLD	D819					.25	NO			
D 819W									.12	NO		13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A)	TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 820	6	120.00				3.30	3.00					15, 16	
D 820A	2	36.00	SHLD	D820					.25	NO			
D 821	7	~~24.00~~ 42.00											
D 822	1	96.00					.22			NO		14	
D 823	1	96.00					.12			NO		13	
D 824	1	78.00					.12			NO		13	
D 825	4	30.00				4.30	4.00				A,6B	15, 12	
D 825A	7	12.00	SHLD	D825					.25	NO			
D 825B	7	12.00											
D 826	4	30.00				4.30	4.00				A,6B	15, 12	
D 826A	7	12.00	SHLD	D826					.25	NO			
D 826B	7	12.00											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A)	TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 827	4	30.00				4.30	4.00				A,6B	15, 12	
D 827A	22	12.00	SHLD	D827					.25	NO			
D 827B	7	12.00											
D 828	4	30.00				4.30	4.00				A,6B	15, 12	
D 828A	7	12.00	SHLD	D828					.25	NO			
D 828B	7	12.00											
D 829	4	30.00				4.30	4.00				A,6B	15, 12	
D 829A	7	12.00	SHLD	D829					.25	NO			
D 829B	7	12.00											
D 830	1	48.00					.19			NO		17	

APPLICATION	
NEXT ASSY	USED ON
8102197	8102157

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A.	REVISED PER MXC 211577	22 APR 66	PHG
B	REVISED PER MXC 211682	27 APR 66	JJJ JAC
C	INITIAL RELEASE CLASS A PER TDRR 28593	2 MAY 66	JAL
D	REVISED PER TDRR 29037	26 MAY -66	B. PJ

REV										
SHEET										
REV STATUS OF SHEETS	REV	D	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 28-MAR-66 DAY MO YR
CHECKER C WILSON 7APR66
ENGINEER 11APR66
APPROVAL J M Watson 5-2-66
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET - ELECTRICAL FOR
RETROFIT KIT FOR GSE
DISTRIBUTION BOX

SIZE A
CODE IDENT. NO 99974
2901358
SCALE NONE
SHEET 1 OF 9

MIL 1377A6 12-65

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2 SHIELD TERMINATION FIGURES ARE PER-
A - ND1C02071
B - ND1002032

3 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

4 APPLY LEAD IDENTIFICATIONS PER ND1002019.

5 MARK IDENTIFICATION BANDS 2901373, 2901470, AND 2901507 RESPECTIVELY PER ND1002019, .12 INCH HIGH, COLOR BLACK. CENTRALIZE.

6 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
L - WHITE WITH BLUE TRACER.
R - WHITE WITH RED TRACER.
W - WHITE

SIZE	CODE IDENT NO.			
A	99974	2901358		
SCALE-NONE	REV LTR	D	SHEET	2 OF 9

NOTE NUMBER | GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.			
A	99974	2901358		
SCALE-NONE	REV LTR	D	SHEET	3 OF 9

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901358-001	WIRE, ND1002181, TYPE 1, CLASS 1, 20AWG, WHT 102 FT 6 IN. TOTAL LENGTH
	2	1	2901358-002	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 13 FT 6 IN. TOTAL LENGTH
	3	1	2901358-003	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG, WHT, 27 FT 0 IN. TOTAL LENGTH
	4	1	2901358-004	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 24AWG, WHT/BLU, WHT/RED 12 FT 6 IN. TOT LG
	5	1	2901358-005	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 22AWG, WHT/BLU, WHT/RED, 15 FT 6 IN. TOT. LG.
	6	1	2901358-006	WIRE, ND1002181, TYPE 1, CLASS 4, WHT JKT 22AWG, WHT 20 FT 0 IN. TOT LG.
	7	1	2901358-007	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG, WHT 13 FT 6 IN. TOT. LG.
	8		1897190- 2	DELETED
	9	3	1016369-721	CONTACT, SOCKET
	10	3	1016128-011	BAND, IDENTIFICATION
	11	3	1016369-421	CONTACT, SOCKET
	12	7	1010490-228	INSULATION, SLEEVING
	13	5	1897266-001	CONTACT, RECEPTACLE
	14	6	MS3193A-20A	(1896877-020) CONTACT, SOCKET
	15	9	1010763- 2	SOLDER SLEEVE

SIZE	CODE IDENT NO.			
A	99974	2901358		
SCALE-NONE	REV LTR	D	SHEET	4 OF 9

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	16	2	1010490-232	INSULATION SLEEVING
	17	3	1015902- 49	TERMINAL LUG

SIZE	CODE IDENT NO.			
A	99974	2901358		
SCALE-NONE	REV LTR	D	SHEET	5 OF 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 114	1	36.00				.19			NO		17	
A 115	1	36.00				.19			NO		17	
D 786	1	108.00	NONE					.19	NO		11	
D 787	1	108.00	NONE					.19	NO		11	
D 788	1	108.00	NONE					.19	NO		11	
D 789	1	12.00	NONE									
D 790	1	96.00	NONE					.12	NO		13	
D 791	1	96.00	NONE					.22	NO		14	
D 792			DELETED									
D 793	2	120.00	NONE					.15	NO		8	
D 794	3	108.00	NONE					.22	NO		9	
D 795	3	108.00	NONE					.22	NO		9	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 796	3	108.00	NONE					.22	NO		9	
D 797	1	108.00	NONE					.22	NO		14	
D 798	1	96.00	NONE					.22	NO		14	
D 817	5	90.00			3.30	3.00				A,6A	15, 12	
D 817A	2	30.00	SHLD D817					.25	NO			
D 818	5	96.00			3.30	3.00				A,6A	15, 12	
D 818A	2	36.00	SHLD D818					.25	NO			
D 818L								.22	NO		14	
D 818R								.22	NO		14	
D 819	6	120.00			3.30	3.00				A,6A	15, 16	
D 819A	2	60.00	SHLD D819					.25	NO			
D 819W								.12	NO		13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 820	6	120.00			3.30	3.00				A,6A	15, 16	
D 820A	2	36.00	SHLD D820					.25	NO			
D 821	7	42.00										
D 822	1	96.00				.22			NO		14	
D 823	1	96.00				.12			NO		13	
D 824	1	78.00				.12			NO		13	
D 825	4	30.00			4.30	4.00				A,6B	15, 12	
D 825A	7	12.00	SHLD D825					.25	NO			
D 825B	7	12.00										
D 826	4	30.00			4.30	4.00				A,6B	15, 12	
D 826A	7	12.00	SHLD D826					.25	NO			
D 826B	7	12.00										

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
D 827	4	30.00			4.30	4.00				A,6B	15, 12	
D 827A	22	12.00	SHLD D827					.25	NO			
D 827B	7	12.00										
D 828	4	30.00			4.30	4.00				A,6B	15, 12	
D 828A	7	12.00	SHLD D828					.25	NO			
D 828B	7	12.00										
D 829	4	30.00			4.30	4.00				A,6B	15, 12	
D 829A	7	12.00	SHLD D829					.25	NO			
D 829B	7	12.00										
D 830	1	48.00				.19			NO		17	

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61870	4 APR 66	FRW / WJM
B	REVISED PER MXC 211539	21 APR 66	B. / W.A.
C	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP / EF

28 MAR 66

REV		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C														
SHEET		15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32														
REV STATUS OF SHEETS	REV												C	C	C	C	C	C	C	C	C	C	C	C	C	C								
	SHEET												1	2	3	4	5	6	7	8	9	10	11	12	13	14								

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66
DAY MO YR
CHECKER 28 MAR 66
ENGINEER 28 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE A
CODE IDENT. NO 99974
2901375
SCALE NONE
SHEET 1 OF 32

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 16.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK

10 SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21 OR ITEMS 19 AND 20.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 11.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 ASSEMBLE PER ND1002032.

14 SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 2 OF 32

NOTE GENERAL NOTES

NUMBER DESCRIPTION

15 ITEM 14 SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 10.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.

17 MARK IDENTIFICATION BANDS AS NOTED IN TABLE 1, PER ND1002019. CENTRALIZE.

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 3 OF 32

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901375-001	WIRE ND1002181,TYPE 1 CLASS 1,22 AWG WHT 357 FEET TOTAL LENGTH
	2	1	2901375-002	WIRE ND1002181,TYPE 1 CLASS 1,24 AWG WHT 36 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG,ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG,ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG,ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG,ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG,ELECTRICAL
7	8	10	1897169- 1	CONNECTOR,PLUG,ELECTRICAL
	9	10	2900274-001	CONNECTOR,PLUG,ELECTRICAL
	10	1	MS3126F20-41P	(1897043-410) CONNECTOR-PLUG,ELECTRICAL
	11	1	MS3106A12S-3P	(1896913-001) CONNECTOR-PLUG,ELECTRICAL
7	12	181	1010738-006	CONTACT,SOCKET
7	13	180	1010738-005	CONTACT,PIN
15	14	X	MS3192A-20A	(1896855-020) CONTACT,ELECTRICAL,PIN
7	15	30	1016128-011	BAND-IDENTIFICATION
7	16	AR	1012507-004	TAPE,LACING AND TYING

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 4 OF 32

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F, FORM T BLACK, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .02 THICK
7	18	11	1016006-001	SPLICE REDUCER
	19	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	20	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	22	2	1016006-002	SPLICE REDUCER
7	23	11	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
7	24	2	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
	25	1	MS3106R32-8S	(1897107-080) CONNECTOR-PLUG,ELECTRICAL

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 5 OF 32

CABLE ASSEMBLY 2901375

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P196-14					.37 .10	NO NO		 13	
A 2	1		E2 P12-1					.37 .10	NO NO		 12	
A 3	1		E3 P197-1					.37 .10	NO NO		 13	
A 4	1		E4 P205-3					.37 .10	NO NO		 13	
A 5	1		E5 P20-23					.37 .10	NO NO		 12	
A 6	1		E5 E6					.37 .37	NO NO			
A 7	1		E6 P205-2					.37 .10	NO NO		 13	
A 8	1		E6 P205-10					.37 .10	NO NO		 13	
A 9	1		E6 P205-11					.37 .10	NO NO		 13	
A 10	1		E6 P205-17					.37 .10	NO NO		 13	
A 11	1		E6 P205-24					.37 .10	NO NO		 13	
A 12	1		E6 P205-32					.37 .10	NO NO		 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR
SHEET 6 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E6 P205-31					.37 .10	NO NO		 13	
A 14	1		P2-X P21-C					.22 .22	NO NO		14 14	
A 15	1		P2-Y P21-A					.22 .22	NO NO		14 14	
A 16	1		E7 P11-34					.37 .10	NO NO		 12	
A 17	1		E7 P13-2					.37 .10	NO NO		 12	
A 18	1		E7 P13-3					.37 .10	NO NO		 12	
A 19	1		E7 P14-2					.37 .10	NO NO		 12	
A 20	1		E8 P11-26					.37 .10	NO NO		 12	
A 21	1		E8 P13-1					.37 .10	NO NO		 12	
A 22	1		P196-3 P196-4					.10 .10	NO NO		13 13	
A 23	1		P11-4 P11-12					.10 .10	NO NO		12 12	
A 24	1		P196-12 P196-32					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR
SHEET 7 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32 P11-33					.10 .10	NO NO		12 12	
A 26	1		P196-33 P197-9					.10 .10	NO NO		13 13	
A 27	1		P12-9 P12-13					.10 .10	NO NO		12 12	
A 28	1		P197-13 P197-14					.10 .10	NO NO		13 13	
A 29	1		P12-14 P12-15					.10 .10	NO NO		12 12	
A 30	1		P197-15 P197-20					.10 .10	NO NO		13 13	
A 31	1		P12-20 P12-21					.10 .10	NO NO		12 12	
A 32	1		P197-21 P198-23					.10 .10	NO NO		13 13	
A 33	1		P13-23 P13-24					.10 .10	NO NO		12 12	
A 34	1		P198-24 P198-31					.10 .10	NO NO		13 13	
A 35	1		P13-31 P13-32					.10 .10	NO NO		12 12	
A 36	1		P198-32 P199-23					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR
SHEET 8 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23 P14-31					.10 .10	NO NO		12 12	
A 38	1		P199-31 P200-20					.10 .10	NO NO		13 13	
A 39	1		P15-20 P15-21					.10 .10	NO NO		12 12	
A 40	1		P200-21 P200-23					.10 .10	NO NO		13 13	
A 41	1		P15-23 P15-24					.10 .10	NO NO		12 12	
A 42	1		P200-24 P200-25					.10 .10	NO NO		13 13	
A 43	1		P15-25 P15-27					.10 .10	NO NO		12 12	
A 44	1		P200-27 P200-28					.10 .10	NO NO		13 13	
A 45	1		P15-28 P15-31					.10 .10	NO NO		12 12	
A 46	1		P200-31 P200-32					.10 .10	NO NO		13 13	
A 47	1		P15-32 P15-33					.10 .10	NO NO		12 12	
A 48	1		P200-33 P200-35					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR
SHEET 9 OF 32

MIL 2084

CABLE ASSEMBLY 2901375 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35					.10	NO		12	
			P15-36					.10	NO		12	
A 50	1		P200-36					.10	NO		13	
			P201-2					.10	NO		13	
A 51	1		P16-2					.10	NO		12	
			P16-25					.10	NO		12	
A 52	1		P201-25					.10	NO		13	
			P201-26					.10	NO		13	
A 53	1		P16-26					.10	NO		12	
			P16-33					.10	NO		12	
A 54	1		P201-33					.10	NO		13	
			P201-34					.10	NO		13	
A 55	1		P16-34					.10	NO		12	
			P17-1					.10	NO		12	
A 56	1		P202-1					.10	NO		13	
			P202-2					.10	NO		13	
A 57	1		P17-2					.10	NO		12	
			P17-3					.10	NO		12	
A 58	1		P202-3					.10	NO		13	
			P202-4					.10	NO		13	
A 59	1		P17-4					.10	NO		12	
			P17-5					.10	NO		12	
A 60	1		P202-5					.10	NO		13	
			P202-6					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 10 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6					.10	NO		12	
			P17-9					.10	NO		12	
A 62	1		P202-9					.10	NO		13	
			P202-10					.10	NO		13	
A 63	1		P17-10					.10	NO		12	
			P17-12					.10	NO		12	
A 64	1		P202-12					.10	NO		13	
			P202-13					.10	NO		13	
A 65	1		P17-13					.10	NO		12	
			P17-17					.10	NO		12	
A 66	1		P202-17					.10	NO		13	
			P202-18					.10	NO		13	
A 67	1		P17-18					.10	NO		12	
			P18-1					.10	NO		12	
A 68	1		P203-1					.10	NO		13	
			P203-2					.10	NO		13	
A 69	1		P18-2					.10	NO		12	
			P18-3					.10	NO		12	
A 70	1		P203-3					.10	NO		13	
			P203-6					.10	NO		13	
A 71	1		P18-6					.10	NO		12	
			P18-7					.10	NO		12	
A 72	1		P203-7					.10	NO		13	
			P203-8					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 11 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8					.10	NO		12	
			P18-9					.10	NO		12	
A 74	1		P203-9					.10	NO		13	
			P203-10					.10	NO		13	
A 75	1		P18-10					.10	NO		12	
			P18-11					.10	NO		12	
A 76	1		P203-11					.10	NO		13	
			P203-12					.10	NO		13	
A 77	1		P18-12					.10	NO		12	
			P18-13					.10	NO		12	
A 78	1		P203-13					.10	NO		13	
			P203-14					.10	NO		13	
A 79	1		P18-14					.10	NO		12	
			P18-15					.10	NO		12	
A 80	1		P203-15					.10	NO		13	
			P203-20					.10	NO		13	
A 81	1		P18-20					.10	NO		12	
			P18-21					.10	NO		12	
A 82	1		P203-21					.10	NO		13	
			P203-23					.10	NO		13	
A 83	1		P18-23					.10	NO		12	
			P18-25					.10	NO		12	
A 84	1		P203-25					.10	NO		13	
			P203-26					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 12 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26					.10	NO		12	
			P18-33					.10	NO		12	
A 86	1		P203-33					.10	NO		13	
			P203-34					.10	NO		13	
A 87	1		P18-34					.10	NO		12	
			P18-35					.10	NO		12	
A 88	1		P203-35					.10	NO		13	
			P203-36					.10	NO		13	
A 89	1		P18-36					.10	NO		12	
			P19-1					.10	NO		12	
A 90	1		P204-1					.10	NO		13	
			P204-2					.10	NO		13	
A 91	1		P19-2					.10	NO		12	
			P19-9					.10	NO		12	
A 92	1		P204-9					.10	NO		13	
			P204-10					.10	NO		13	
A 93	1		P19-10					.10	NO		12	
			P19-11					.10	NO		12	
A 94	1		P204-11					.10	NO		13	
			P204-13					.10	NO		13	
A 95	1		P19-13					.10	NO		12	
			P19-14					.10	NO		12	
A 96	1		P204-14					.10	NO		13	
			P204-17					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 13 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		12	
			P19-18					.10	NO		12	
A 98	1		P204-18					.10	NO		13	
			P204-19					.10	NO		13	
A 99	1		P19-19					.10	NO		12	
			P19-20					.10	NO		12	
A 100	1		P204-20					.10	NO		13	
			P204-21					.10	NO		13	
A 101	1		P19-21					.10	NO		12	
			P19-23					.10	NO		12	
A 102	1		P204-23					.10	NO		13	
			P204-24					.10	NO		13	
A 103	1		P19-24					.10	NO		12	
			P19-27					.10	NO		12	
A 104	1		P204-27					.10	NO		13	
			P204-28					.10	NO		13	
A 105	1		P19-28					.10	NO		12	
			P20-5					.10	NO		12	
A 106	1		P205-16					.10	NO		13	
			P205-6					.10	NO		13	
A 107	1		P20-6					.10	NO		12	
			P20-7					.10	NO		12	
A 108	1		P205-7					.10	NO		13	
			P205-8					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 14 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		12	
			P20-13					.10	NO		12	
A 110	1		P205-13					.10	NO		13	
			P205-14					.10	NO		13	
A 111	1		P20-14					.10	NO		12	
			P20-19					.10	NO		12	
A 112	1		P205-19					.10	NO		13	
			P205-20					.10	NO		13	
A 113	1		P20-20					.10	NO		12	
			P20-21					.10	NO		12	
A 114	1		P205-21					.10	NO		13	
			P205-27					.10	NO		13	
A 115	1		P20-27					.10	NO		12	
			P20-28					.10	NO		12	
A 116	1		P205-28					.10	NO		13	
			P205-35					.10	NO		13	
A 117	1		P20-35					.10	NO		12	
			P20-36					.10	NO		12	
A 118	1		P205-36					.10	NO		13	
			P197-28					.10	NO		13	
A 119	1		P12-28					.10	NO		12	
			P12-27					.10	NO		12	
A 120	1		E8					.37	NO			
			P14-1					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 15 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P197-27					.10	NO		13	
			P197-36					.10	NO		13	
A 122	1		P12-36					.10	NO		12	
			P12-35					.10	NO		12	
A 123	1		P197-35					.10	NO		13	
			P203-17					.10	NO		13	
A 124	1		P18-17					.10	NO		12	
			P18-18					.10	NO		12	
A 125	1		P203-18					.10	NO		13	
			P203-19					.10	NO		13	
A 126	1		P18-19					.10	NO		12	
			P18-24					.10	NO		12	
A 127	1		P203-24					.10	NO		13	
			P203-27					.10	NO		13	
A 128	1		P18-27					.10	NO		12	
			P18-28					.10	NO		12	
A 129	1		P203-28					.10	NO		13	
			P205-18					.10	NO		13	
A 130	1		P2-F*					.22	NO		14	
			P201-35					.10	NO		13	
A 131	1		P2-G*					.22	NO		14	
			P201-36					.10	NO		13	
A 132	1		P2-H*					.22	NO		14	
			P16-35					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 16 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P2-I*					.22	NO		14	
			P16-36					.10	NO		12	
A 134	1		P4-A					.22	NO		14	
			P202-14					.10	NO		13	
A 135	1		P4-B					.22	NO		14	
			P202-15					.10	NO		13	
A 136	1		P4-C					.22	NO		14	
			P17-14					.10	NO		12	
A 137	1		P4-D					.22	NO		14	
			P17-15					.10	NO		12	
A 138	1		P4-M					.22	NO		14	
			P199-18					.10	NO		13	
A 139	1		P4-S					.22	NO		14	
			P199-19					.10	NO		13	
A 140	1		P4-T					.22	NO		14	
			P11-23					.10	NO		12	
A 141	1		P4-U					.22	NO		14	
			E2					.37	NO			
A 142	1		P4-W					.22	NO		14	
			P199-20					.10	NO		13	
A 143	1		P4-X					.22	NO		14	
			P11-24					.10	NO		12	
A 144	1		P4-A*					.22	NO		14	
			P199-21					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 17 OF 32

CABLE ASSEMBLY 2901375 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P4-B* P11-31					.22 .10	NO NO		14 12	
A 146	1		P4-E* P199-22					.22 .10	NO NO		14 13	
A 147	1		P4-T* P2-V					.22 .22	NO NO		14 14	
A 148	1		P4-U* P2-W					.22 .22	NO NO		14 14	
A 149	1		P4-V* E7					.22 .37	NO NO		14	
A 150	1		P4-W* E8					.22 .37	NO NO		14	
A 151	1		P4-X* P19-12					.22 .10	NO NO		14 12	
A 152	1		P4-Z* P11-3					.22 .10	NO NO		14 12	
A 153	1		P6-A P196-7					.22 .10	NO NO		14 13	
A 154	1		P6-B E1					.22 .37	NO NO		14	
A 155	1		P6-C P11-7					.22 .10	NO NO		14 12	
A 156	1		P6-E P196-6					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR ~~B~~ C	SHEET 18 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-F E1					.22 .37	NO NO		14	
A 158	1		P6-G P11-6					.22 .10	NO NO		14 12	
A 159	1		P6-J P196-13					.22 .10	NO NO		14 13	
A 160	1		P6-K E1					.22 .37	NO NO		14	
A 161	1		P6-L P11-13					.22 .10	NO NO		14 12	
A 162	1		P6-M P11-14					.22 .10	NO NO		14 12	
A 163	1		P6-N P196-20					.22 .10	NO NO		14 13	
A 164	1		P6-P P196-21					.22 .10	NO NO		14 13	
A 165	1		P6-R P11-20					.22 .10	NO NO		14 12	
A 166	1		P6-S P11-21					.22 .10	NO NO		14 12	
A 167	1		P6-T P196-27					.22 .10	NO NO		14 13	
A 168	1		P6-U P196-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR ~~B~~ C	SHEET 19 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P6-V P11-27					.22 .10	NO NO		14 12	
A 170	1		P6-W P11-28					.22 .10	NO NO		14 12	
A 171	1		P6-X P196-35					.22 .10	NO NO		14 13	
A 172	1		P6-Y P196-36					.22 .10	NO NO		14 13	
A 173	1		P6-Z P11-35					.22 .10	NO NO		14 12	
A 174	1		P6-A* P11-36					.22 .10	NO NO		14 12	
A 175	1		P6-B* P200-9					.22 .10	NO NO		14 13	
A 176	1		P6-C* P200-1					.22 .10	NO NO		14 13	
A 177	1		P6-D* P15-9					.22 .10	NO NO		14 12	
A 178	1		P6-E* P15-1					.22 .10	NO NO		 12	
A 179	1		P6-F* P200-17					.22 .10	NO NO		14 13	
A 180	1		P6-G* P200-29					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR ~~B~~ C	SHEET 20 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-H* P15-17					.22 .10	NO NO		14 12	
A 182	2		P6-I* P6-E*					.22 .22	NO NO		14 14	
A 183	1		P6-J* P202-7					.22 .10	NO NO		14 13	
A 184	1		P6-K* P202-8					.22 .10	NO NO		14 13	
A 185	1		P6-M* P17-7					.22 .10	NO NO		14 12	
A 186	1		P6-N* P17-8					.22 .10	NO NO		14 12	
A 187	1		P6-P* P202-20					.22 .10	NO NO		14 13	
A 188	1		P6-Q* P202-21					.22 .10	NO NO		14 13	
A 189	1		P6-R* P17-20					.22 .10	NO NO		14 12	
A 190	1		P6-S* P17-21					.22 .10	NO NO		14 12	
A 191	1		P6-T* P202-27					.22 .10	NO NO		14 13	
A 192	1		P6-U* P202-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR ~~B~~ C	SHEET 21 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-V* P17-27					.22 .10	NO NO		14 12	
A 194	1		P6-W* P17-28					.22 .10	NO NO		14 12	
A 195	1		P6-X* P202-35					.22 .10	NO NO		14 13	
A 196	1		P6-Y* P202-36					.22 .10	NO NO		14 13	
A 197	1		P6-Z* P17-35					.22 .10	NO NO		14 12	
A 198	1		P6-AA P17-36					.22 .10	NO NO		14 12	
A 199	1		P6-BB P201-20					.22 .10	NO NO		14 13	
A 200	1		P6-CC P201-21					.22 .10	NO NO		14 13	
A 201	1		P6-DD P16-20					.22 .10	NO NO		14 12	
A 202	1		P6-EE P16-21					.22 .10	NO NO		14 12	
A 203	1		P6-FF P201-27					.22 .10	NO NO		14 13	
A 204	1		P6-GG P201-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR A C	SHEET 22 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-HH P16-27					.22 .10	NO NO		14 12	
A 206	1		P6-JJ P16-28					.22 .10	NO NO		14 12	
A 207	1		P7-T P201-9					.22 .10	NO NO		14 13	
A 208	1		P7-U P201-1					.22 .10	NO NO		14 13	
A 209	1		P7-V P16-9					.22 .10	NO NO		14 12	
A 210	1		P7-W P16-1					.22 .10	NO NO		14 12	
A 211	1		P7-X P201-10					.22 .10	NO NO		14 13	
A 212	1		P7-Z P16-10					.22 .10	NO NO		14 12	
A 213	1		P7-B* P197-10					.22 .10	NO NO		14 13	
A 214	1		P7-C* E3					.22 .37	NO NO		14	
A 215	1		P7-D* P12-10					.22 .10	NO NO		14 12	
A 216	1		P7-E* E2					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR A C	SHEET 23 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P7-F* P197-17					.22 .10	NO NO		14 13	
A 218	1		P7-G* E3					.22 .37	NO NO		14	
A 219	1		P7-H* P12-17					.22 .10	NO NO		14 12	
A 220	1		P7-I* E2					.22 .37	NO NO		14	
A 221	1		P7-J* P197-18					.22 .10	NO NO		14 13	
A 222	1		P7-K* E3					.22 .37	NO NO		14	
A 223	1		P7-M* P12-18					.22 .10	NO NO		14 12	
A 224	1		P7-N* E2					.22 .37	NO NO		14	
A 225	1		P7-P* P204-5					.22 .10	NO NO		14 13	
A 226	1		P7-Q* P204-6					.22 .10	NO NO		14 13	
A 227	1		P7-R* P19-5					.22 .10	NO NO		14 12	
A 228	1		P7-S* P19-6					.22 .10	NO NO		14 12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR A C	SHEET 24 OF 32

MIL 2084 9

CABLE ASSEMBLY 2901375 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P7-T* P204-7					.22 .10	NO NO		14 13	
A 230	1		P7-U* P204-8					.22 .10	NO NO		14 13	
A 231	1		P7-V* P19-7					.22 .10	NO NO		14 12	
A 232	1		P7-W* P19-8					.22 .10	NO NO		14 12	
A 233	1		P4-E P205-34					.22 .10	NO NO		14 13	
A 234	1		P4-F P205-26					.22 .10	NO NO		14 13	
A 235	1		P4-G P20-34					.22 .10	NO NO		14 12	
A 236	1		P4-H P20-26					.22 .10	NO NO		14 12	
A 237	2		P8-T P2-X					.22 .22	NO NO		14 14	
A 238	2		P8-U P2-Y					.22 .22	NO NO		14 14	
A 239	1		P9-A P205-5					.22 .10	NO NO		14 13	
A 240	1		P9-B E4					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR A C	SHEET 25 OF 32

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-C P20-10					.22 .10	NO NO		14 12	
A 242	1		P9-E P205-9					.22 .10	NO NO		14 13	
A 243	1		P9-F E4					.22 .37	NO NO		14	
A 244	1		P9-G P20-11					.22 .10	NO NO		14 12	
A 245	1		P9-J P205-33					.22 .10	NO NO		14 13	
A 246	1		P9-K E4					.22 .37	NO NO		14	
A 247	1		P9-L P20-32					.22 .10	NO NO		14 12	
A 248	1		P9-M P20-31					.22 .10	NO NO		14 12	
A 249	1		P9-N P205-15					.22 .10	NO NO		14 13	
A 250	1		P9-P E4					.22 .37	NO NO		14	
A 251	1		P9-R P20-24					.22 .10	NO NO		14 12	
A 252	1		P9-T P205-12					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR	SHEET 26 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-U E4					.22 .37	NO NO		14	
A 254	1		P9-V P20-17					.22 .10	NO NO		14 12	
A 255	1		P9-W E5					.22 .37	NO NO		14	
A 256	1		P9-X P205-4					.22 .10	NO NO		14 13	
A 257	1		P9-Y E4					.22 .37	NO NO		14	
A 258	1		P9-Z P20-2					.22 .10	NO NO		14 12	
A 259	1		P9-A* E5					.22 .37	NO NO		14	
A 260	1		P9-M* P11-18					.22 .10	NO NO		14 12	
A 261	1		P9-P* P196-17					.22 .10	NO NO		14 13	
A 262	1		P9-Q* P196-26					.22 .10	NO NO		14 13	
A 263	1		P9-R* P11-17					.22 .10	NO NO		14 12	
A 264	1		P9-S* E8					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR	SHEET 27 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P9-FF P206-A					.22 .25	NO YES		14	
A 266	1		P9-GG P206-B					.22 .25	NO YES		14	
A 267	1		P9-JJ P199-16					.22 .10	NO NO		14 13	
A 268	1		P9-NN P199-17					.22 .10	NO NO		14 13	
A 269	1		P9-J* P196-18					.22 .10	NO NO		14 13	
A 270	1		P20-18 P19-3					.10 .10	NO NO		12 12	
A 271	1		P204-3 P204-12					.10 .10	NO NO		13 13	
A 272	1		P13-7 E9					.10 .37	NO NO		12	
A 273	1		P13-8 E9					.10 .37	NO NO		12	
A 274	1		P13-15 E9					.10 .37	NO NO		12	
A 275	1		P13-16 E9					.10 .37	NO NO		12	
A 276	1		P13-21 E9					.10 .37	NO NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR	SHEET 28 OF 32

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P14-15 E10					.10 .37	NO NO		12	
A 278	1		P14-16 E10					.10 .37	NO NO		12	
A 279	1		P14-21 E10					.10 .37	NO NO		12	
A 280	1		P14-22 E10					.10 .37	NO NO		12	
A 281	1		P21-C* E11					.22 .37	NO NO		14	
A 282	1		P21-D* E11					.22 .37	NO NO		14	
A 283	1		P21-E* E11					.22 .37	NO NO		14	
A 284	1		P21-F* E11					.22 .37	NO NO		14	
A 285	1		P21-G* E11					.22 .37	NO NO		14	
A 286	1		P198-7 E12					.10 .37	NO NO		13	
A 287	1		P198-8 E12					.10 .37	NO NO		13	
A 288	1		P198-15 E12					.10 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR	SHEET 29 OF 32

CABLE ASSEMBLY 2901375 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P198-16 E12					.10 .37	NO NO		13	
A 290	1		P207-G E13					.25 .37	YES NO			
A 291	1		P207-H E13					.25 .37	YES NO			
A 292	1		P207-M E13					.25 .37	YES NO			
A 293	1		P207-S E13					.25 .37	YES NO			
A 294	1		P207-Z E13					.25 .37	YES NO			
A 295	1		P207-Y P2-U*					.25 .22	YES NO		 14	
A 296	1		P4-F* P207-K					.22 .25	NO YES		14	
A 297	1		P4-G* P4-I*					.22 .22	NO NO		14 14	
A 298	1		P4-H* P207-B*					.22 .25	NO YES		14	
A 299	1		P207-F P21-H					.25 .22	YES NO		 14	
A 300	1		P21-K P21-X					.22 .22	NO NO		14 14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 30 OF 32

MIL 2084 9-65

CABLE ASSEMBLY 2901375 C

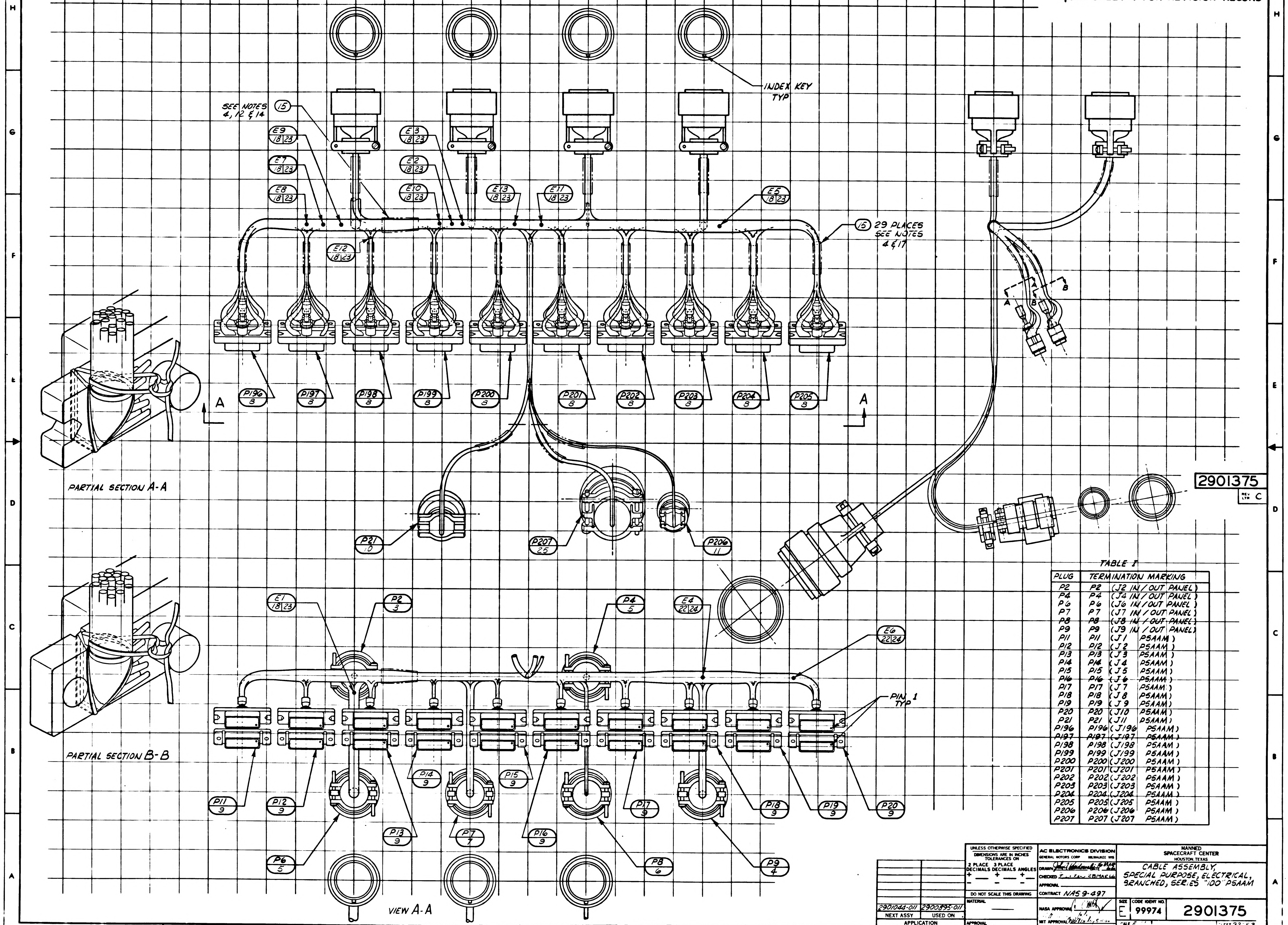
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P207-L P207-V					.25 .25	YES YES			
A 302	1		P21-U P21-M					.22 .22	NO NO		14 14	
A 303	1		P207-B P207-A					.25 .25	YES YES			
A 304	1		P21-P P21-S					.22 .22	NO NO		14 14	
A 305	1		P207-D P207-U					.25 .25	YES YES			
A 306	1		P21-W P21-Z					.22 .22	NO NO		14 14	
A 307	1		P4-K* P21-G					.22 .22	NO NO		14 14	
A 308	1		P4-J* P21-Y					.22 .22	NO NO		14 14	
A 309	1		P21-J P21-L					.22 .22	NO NO		14 14	
A 310	1		P21-T P21-N					.22 .22	NO NO		14 14	
A 311	1		P21-R P21-V					.22 .22	NO NO		14 14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR C	SHEET 31 OF 32

MIL 2084 9-65

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD


SEE NOTES 4, 12 & 14
15
E9 18 23
E7 18 23
E8 18 23
E3 18 23
E2 18 23
E10 18 23
E13 18 23
E11 18 23
E5 18 23
E12 18 23
INDEX KEY TYP
15 29 PLACES SEE NOTES 4 & 17
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
B
B
PARTIAL SECTION A-A
P21 10
P207 25
P206 11
PARTIAL SECTION B-B
E1 18 23
P2 3
P4 5
E4 22 24
E6 22 24
PIN 1 TYP
P11 9
P12 9
P14 9
P15 9
P17 9
P18 9
P19 9
P20 9
P13 9
P7 7
P16 9
P6 5
P8 6
P9 4
VIEW A-A

2901375
REV LTR C

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P4	P4 (J4 IN/OUT PANEL)
P6	P6 (J6 IN/OUT PANEL)
P7	P7 (J7 IN/OUT PANEL)
P8	P8 (J8 IN/OUT PANEL)
P9	P9 (J9 IN/OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John A. [illegible] DATE 16 MAR 66
CHECKED [illegible] 28 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE E
CODE IDENT NO. 99974
2901375
SCALE F[illegible]
SHEET 3 OF 3

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61870	4 APR 66	FRW
B	REVISED PER MXC 211539	21 APR-66	B.
C	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
D	REVISED PER TDRR 29227	8-JUN-66	B.

28 MAR 66

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

REV STATUS OF SHEETS															
REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66 (DAY MO YR)
CHECKER 28 MAR 66
ENGINEER 28 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL 5/10/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE ELECTRICAL, BRANCHED, SERIES "100" PSAAM

SIZE A
CODE IDENT. NO 99974
2901375
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 16.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK

10 SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21 OR ITEMS 19 AND 20.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 11.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 ASSEMBLE PER ND1002032.

14 SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 2 OF 33

NOTE GENERAL NOTES

NUMBER DESCRIPTION

15 ITEM 14 SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 10.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.

17 MARK IDENTIFICATION BANDS AS NOTED IN TABLE 1, PER ND1002019. CENTRALIZE.

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 3 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901375-001	WIRE ND1002181,TYPE 1 CLASS 1,22 AWG WHT 365 FEET TOTAL LENGTH
	2	1	2901375-002	WIRE ND1002181,TYPE 1 CLASS 1,24 AWG WHT 60 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG,ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG,ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG,ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG,ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG,ELECTRICAL
7	8	10	1897169- 1	CONNECTOR,PLUG,ELECTRICAL
	9	10	2900274-001	CONNECTOR,PLUG,ELECTRICAL
	10	1	MS3126F20-41P	(1897043-410) CONNECTOR-PLUG,ELECTRICAL
	11	1	MS3106A12S-3P	(1896913-001) CONNECTOR-PLUG,ELECTRICAL
7	12	181	1010738-006	CONTACT,SOCKET
7	13	186	1010738-005	CONTACT,PIN
15	14	X	MS3192A-20A	(1896855-020) CONTACT,ELECTRICAL,PIN
7	15	30	1016128-011	BAND-IDENTIFICATION
7	16	AR	1012507-004	TAPE,LACING AND TYING

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 4 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F, FORM T BLACK, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .02 THICK
7	18	11	1016006-001	SPLICE REDUCER
	19	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	20	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	22	2	1016006-002	SPLICE REDUCER
7	23	11	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
7	24	2	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
	25	1	MS3106R32-8S	(1897107-080) CONNECTOR-PLUG,ELECTRICAL

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 5 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P196-14					.37 .10	NO NO		 13	
A 2	1		E2 P12-1					.37 .10	NO NO		 12	
A 3	1		E3 P197-1					.37 .10	NO NO		 13	
A 4	1		E4 P205-3					.37 .10	NO NO		 13	
A 5	1		E5 P20-23					.37 .10	NO NO		 12	
A 6	1		E5 E6					.37 .37	NO NO			
A 7	1		E6 P205-2					.37 .10	NO NO		 13	
A 8	1		E6 P205-10					.37 .10	NO NO		 13	
A 9	1		E6 P205-11					.37 .10	NO NO		 13	
A 10	1		E6 P205-17					.37 .10	NO NO		 13	
A 11	1		E6 P205-24					.37 .10	NO NO		 13	
A 12	1		E6 P205-32					.37 .10	NO NO		 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 6 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E6 P205-31					.37 .10	NO NO		 13	
A 14	1		P2-X P21-C					.22 .22	NO NO		14 14	
A 15	1		P2-Y P21-A					.22 .22	NO NO		14 14	
A 16	1		E7 P11-34					.37 .10	NO NO		 12	
A 17	1		E7 P13-2					.37 .10	NO NO		 12	
A 18	1		E7 P13-3					.37 .10	NO NO		 12	
A 19	1		E7 P14-2					.37 .10	NO NO		 12	
A 20	1		E8 P11-26					.37 .10	NO NO		 12	
A 21	1		E8 P13-1					.37 .10	NO NO		 12	
A 22	1		P196-3 P196-4					.10 .10	NO NO		13 13	
A 23	1		P11-4 P11-12					.10 .10	NO NO		12 12	
A 24	1		P196-12 P196-32					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 7 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32 P11-33					.10 .10	NO NO		12 12	
A 26	1		P196-33 P197-9					.10 .10	NO NO		13 13	
A 27	1		P12-9 P12-13					.10 .10	NO NO		12 12	
A 28	1		P197-13 P197-14					.10 .10	NO NO		13 13	
A 29	1		P12-14 P12-15					.10 .10	NO NO		12 12	
A 30	1		P197-15 P197-20					.10 .10	NO NO		13 13	
A 31	1		P12-20 P12-21					.10 .10	NO NO		12 12	
A 32	1		P197-21 P198-23					.10 .10	NO NO		13 13	
A 33	1		P13-23 P13-24					.10 .10	NO NO		12 12	
A 34	1		P198-24 P198-31					.10 .10	NO NO		13 13	
A 35	1		P13-31 P13-32					.10 .10	NO NO		12 12	
A 36	1		P198-32 P199-23					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 8 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23 P14-31					.10 .10	NO NO		12 12	
A 38	1		P199-31 P200-20					.10 .10	NO NO		13 13	
A 39	1		P15-20 P15-21					.10 .10	NO NO		12 12	
A 40	1		P200-21 P200-23					.10 .10	NO NO		13 13	
A 41	1		P15-23 P15-24					.10 .10	NO NO		12 12	
A 42	1		P200-24 P200-25					.10 .10	NO NO		13 13	
A 43	1		P15-25 P15-27					.10 .10	NO NO		12 12	
A 44	1		P200-27 P200-28					.10 .10	NO NO		13 13	
A 45	1		P15-28 P15-31					.10 .10	NO NO		12 12	
A 46	1		P200-31 P200-32					.10 .10	NO NO		13 13	
A 47	1		P15-32 P15-33					.10 .10	NO NO		12 12	
A 48	1		P200-33 P200-35					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 9 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35 P15-36					.10 .10	NO NO		12 12	
A 50	1		P200-36 P201-2					.10 .10	NO NO		13 13	
A 51	1		P16-2 P16-25					.10 .10	NO NO		12 12	
A 52	1		P201-25 P201-26					.10 .10	NO NO		13 13	
A 53	1		P16-26 P16-33					.10 .10	NO NO		12 12	
A 54	1		P201-33 P201-34					.10 .10	NO NO		13 13	
A 55	1		P16-34 P17-1					.10 .10	NO NO		12 12	
A 56	1		P202-1 P202-2					.10 .10	NO NO		13 13	
A 57	1		P17-2 P17-3					.10 .10	NO NO		12 12	
A 58	1		P202-3 P202-4					.10 .10	NO NO		13 13	
A 59	1		P17-4 P17-5					.10 .10	NO NO		12 12	
A 60	1		P202-5 P202-6					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 10 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6 P17-9					.10 .10	NO NO		12 12	
A 62	1		P202-9 P202-10					.10 .10	NO NO		13 13	
A 63	1		P17-10 P17-12					.10 .10	NO NO		12 12	
A 64	1		P202-12 P202-13					.10 .10	NO NO		13 13	
A 65	1		P17-13 P17-17					.10 .10	NO NO		12 12	
A 66	1		P202-17 P202-18					.10 .10	NO NO		13 13	
A 67	1		P17-18 P18-1					.10 .10	NO NO		12 12	
A 68	1		P203-1 P203-2					.10 .10	NO NO		13 13	
A 69	1		P18-2 P18-3					.10 .10	NO NO		12 12	
A 70	1		P203-3 P203-6					.10 .10	NO NO		13 13	
A 71	1		P18-6 P18-7					.10 .10	NO NO		12 12	
A 72	1		P203-7 P203-8					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 11 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8 P18-9					.10 .10	NO NO		12 12	
A 74	1		P203-9 P203-10					.10 .10	NO NO		13 13	
A 75	1		P18-10 P18-11					.10 .10	NO NO		12 12	
A 76	1		P203-11 P203-12					.10 .10	NO NO		13 13	
A 77	1		P18-12 P18-13					.10 .10	NO NO		12 12	
A 78	1		P203-13 P203-14					.10 .10	NO NO		13 13	
A 79	1		P18-14 P18-15					.10 .10	NO NO		12 12	
A 80	1		P203-15 P203-20					.10 .10	NO NO		13 13	
A 81	1		P18-20 P18-21					.10 .10	NO NO		12 12	
A 82	1		P203-21 P203-23					.10 .10	NO NO		13 13	
A 83	1		P18-23 P18-25					.10 .10	NO NO		12 12	
A 84	1		P203-25 P203-26					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 12 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26 P18-33					.10 .10	NO NO		12 12	
A 86	1		P203-33 P203-34					.10 .10	NO NO		13 13	
A 87	1		P18-34 P18-35					.10 .10	NO NO		12 12	
A 88	1		P203-35 P203-36					.10 .10	NO NO		13 13	
A 89	1		P18-36 P19-1					.10 .10	NO NO		12 12	
A 90	1		P204-1 P204-2					.10 .10	NO NO		13 13	
A 91	1		P19-2 P19-9					.10 .10	NO NO		12 12	
A 92	1		P204-9 P204-10					.10 .10	NO NO		13 13	
A 93	1		P19-10 P19-11					.10 .10	NO NO		12 12	
A 94	1		P204-11 P204-13					.10 .10	NO NO		13 13	
A 95	1		P19-13 P19-14					.10 .10	NO NO		12 12	
A 96	1		P204-14 P204-17					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 13 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17					.10	NO		12	
			P19-18					.10	NO		12	
A 98	1		P204-18					.10	NO		13	
			P204-19					.10	NO		13	
A 99	1		P19-19					.10	NO		12	
			P19-20					.10	NO		12	
A 100	1		P204-20					.10	NO		13	
			P204-21					.10	NO		13	
A 101	1		P19-21					.10	NO		12	
			P19-23					.10	NO		12	
A 102	1		P204-23					.10	NO		13	
			P204-24					.10	NO		13	
A 103	1		P19-24					.10	NO		12	
			P19-27					.10	NO		12	
A 104	1		P204-27					.10	NO		13	
			P204-28					.10	NO		13	
A 105	1		P19-28					.10	NO		12	
			P20-5					.10	NO		12	
A 106	1		P205-16					.10	NO		13	
			P205-6					.10	NO		13	
A 107	1		P20-6					.10	NO		12	
			P20-7					.10	NO		12	
A 108	1		P205-7					.10	NO		13	
			P205-8					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 14 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8					.10	NO		12	
			P20-13					.10	NO		12	
A 110	1		P205-13					.10	NO		13	
			P205-14					.10	NO		13	
A 111	1		P20-14					.10	NO		12	
			P20-19					.10	NO		12	
A 112	1		P205-19					.10	NO		13	
			P205-20					.10	NO		13	
A 113	1		P20-20					.10	NO		12	
			P20-21					.10	NO		12	
A 114	1		P205-21					.10	NO		13	
			P205-27					.10	NO		13	
A 115	1		P20-27					.10	NO		12	
			P20-28					.10	NO		12	
A 116	1		P205-28					.10	NO		13	
			P205-35					.10	NO		13	
A 117	1		P20-35					.10	NO		12	
			P20-36					.10	NO		12	
A 118	1		P205-36					.10	NO		13	
			P197-28					.10	NO		13	
A 119	1		P12-28					.10	NO		12	
			P12-27					.10	NO		12	
A 120	1		E8					.37	NO			
			P14-1					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 15 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P197-27					.10	NO		13	
			P197-36					.10	NO		13	
A 122	1		P12-36					.10	NO		12	
			P12-35					.10	NO		12	
A 123	1		P197-35					.10	NO		13	
			P203-17					.10	NO		13	
A 124	1		P18-17					.10	NO		12	
			P18-18					.10	NO		12	
A 125	1		P203-18					.10	NO		13	
			P203-19					.10	NO		13	
A 126	1		P18-19					.10	NO		12	
			P18-24					.10	NO		12	
A 127	1		P203-24					.10	NO		13	
			P203-27					.10	NO		13	
A 128	1		P18-27					.10	NO		12	
			P18-28					.10	NO		12	
A 129	1		P203-28					.10	NO		13	
			P205-18					.10	NO		13	
A 130	1		P2-F*					.22	NO		14	
			P201-35					.10	NO		13	
A 131	1		P2-G*					.22	NO		14	
			P201-36					.10	NO		13	
A 132	1		P2-H*					.22	NO		14	
			P16-35					.10	NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 16 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P2-I*					.22	NO		14	
			P16-36					.10	NO		12	
A 134	1		P4-A					.22	NO		14	
			P202-14					.10	NO		13	
A 135	1		P4-B					.22	NO		14	
			P202-15					.10	NO		13	
A 136	1		P4-C					.22	NO		14	
			P17-14					.10	NO		12	
A 137	1		P4-D					.22	NO		14	
			P17-15					.10	NO		12	
A 138	1		P4-M					.22	NO		14	
			P199-18					.10	NO		13	
A 139	1		P4-S					.22	NO		14	
			P199-19					.10	NO		13	
A 140	1		P4-T					.22	NO		14	
			P11-23					.10	NO		12	
A 141	1		P4-U					.22	NO		14	
			E2					.37	NO			
A 142	1		P4-W					.22	NO		14	
			P199-20					.10	NO		13	
A 143	1		P4-X					.22	NO		14	
			P11-24					.10	NO		12	
A 144	1		P4-A*					.22	NO		14	
			P199-21					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 17 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P4-B* P11-31					.22 .10	NO NO		14 12	
A 146	1		P4-E* P199-22					.22 .10	NO NO		14 13	
A 147	1		P4-T* P2-V					.22 .22	NO NO		14 14	
A 148	1		P4-U* P2-W					.22 .22	NO NO		14 14	
A 149	1		P4-V* E7					.22 .37	NO NO		14	
A 150	1		P4-W* E8					.22 .37	NO NO		14	
A 151	1		P4-X* P19-12					.22 .10	NO NO		14 12	
A 152	1		P4-Z* P11-3					.22 .10	NO NO		14 12	
A 153	1		P6-A P196-7					.22 .10	NO NO		14 13	
A 154	1		P6-B E1					.22 .37	NO NO		14	
A 155	1		P6-C P11-7					.22 .10	NO NO		14 12	
A 156	1		P6-E P196-6					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 18 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-F E1					.22 .37	NO NO		14	
A 158	1		P6-G P11-6					.22 .10	NO NO		14 12	
A 159	1		P6-J P196-13					.22 .10	NO NO		14 13	
A 160	1		P6-K E1					.22 .37	NO NO		14	
A 161	1		P6-L P11-13					.22 .10	NO NO		14 12	
A 162	1		P6-M P11-14					.22 .10	NO NO		14 12	
A 163	1		P6-N P196-20					.22 .10	NO NO		14 13	
A 164	1		P6-P P196-21					.22 .10	NO NO		14 13	
A 165	1		P6-R P11-20					.22 .10	NO NO		14 12	
A 166	1		P6-S P11-21					.22 .10	NO NO		14 12	
A 167	1		P6-T P196-27					.22 .10	NO NO		14 13	
A 168	1		P6-U P196-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 19 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P6-V P11-27					.22 .10	NO NO		14 12	
A 170	1		P6-W P11-28					.22 .10	NO NO		14 12	
A 171	1		P6-X P196-35					.22 .10	NO NO		14 13	
A 172	1		P6-Y P196-36					.22 .10	NO NO		14 13	
A 173	1		P6-Z P11-35					.22 .10	NO NO		14 12	
A 174	1		P6-A* P11-36					.22 .10	NO NO		14 12	
A 175	1		P6-B* P200-9					.22 .10	NO NO		14 13	
A 176	1		P6-C* P200-1					.22 .10	NO NO		14 13	
A 177	1		P6-D* P15-9					.22 .10	NO NO		14 12	
A 178	1		P6-E* P15-1					.22 .10	NO NO		 12	
A 179	1		P6-F* P200-17					.22 .10	NO NO		14 13	
A 180	1		P6-G* P200-29					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 20 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-H* P15-17					.22 .10	NO NO		14 12	
A 182	2		P6-I* P6-E*					.22 .22	NO NO		14 14	
A 183	1		P6-J* P202-7					.22 .10	NO NO		14 13	
A 184	1		P6-K* P202-8					.22 .10	NO NO		14 13	
A 185	1		P6-M* P17-7					.22 .10	NO NO		14 12	
A 186	1		P6-N* P17-8					.22 .10	NO NO		14 12	
A 187	1		P6-P* P202-20					.22 .10	NO NO		14 13	
A 188	1		P6-Q* P202-21					.22 .10	NO NO		14 13	
A 189	1		P6-R* P17-20					.22 .10	NO NO		14 12	
A 190	1		P6-S* P17-21					.22 .10	NO NO		14 12	
A 191	1		P6-T* P202-27					.22 .10	NO NO		14 13	
A 192	1		P6-U* P202-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 21 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-V* P17-27					.22 .10	NO NO		14 12	
A 194	1		P6-W* P17-28					.22 .10	NO NO		14 12	
A 195	1		P6-X* P202-35					.22 .10	NO NO		14 13	
A 196	1		P6-Y* P202-36					.22 .10	NO NO		14 13	
A 197	1		P6-Z* P17-35					.22 .10	NO NO		14 12	
A 198	1		P6-AA P17-36					.22 .10	NO NO		14 12	
A 199	1		P6-BB P201-20					.22 .10	NO NO		14 13	
A 200	1		P6-CC P201-21					.22 .10	NO NO		14 13	
A 201	1		P6-DD P16-20					.22 .10	NO NO		14 12	
A 202	1		P6-EE P16-21					.22 .10	NO NO		14 12	
A 203	1		P6-FF P201-27					.22 .10	NO NO		14 13	
A 204	1		P6-GG P201-28					.22 .10	NO NO		14 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 22 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-HH P16-27					.22 .10	NO NO		14 12	
A 206	1		P6-JJ P16-28					.22 .10	NO NO		14 12	
A 207	1		P7-T P201-9					.22 .10	NO NO		14 13	
A 208	1		P7-U P201-1					.22 .10	NO NO		14 13	
A 209	1		P7-V P16-9					.22 .10	NO NO		14 12	
A 210	1		P7-W P16-1					.22 .10	NO NO		14 12	
A 211	1		P7-X P201-10					.22 .10	NO NO		14 13	
A 212	1		P7-Z P16-10					.22 .10	NO NO		14 12	
A 213	1		P7-B* P197-10					.22 .10	NO NO		14 13	
A 214	1		P7-C* E3					.22 .37	NO NO		14	
A 215	1		P7-D* P12-10					.22 .10	NO NO		14 12	
A 216	1		P7-E* E2					.22 .37	NO NO		14	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 23 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P7-F* P197-17					.22 .10	NO NO		14 13	
A 218	1		P7-G* E3					.22 .37	NO NO		14	
A 219	1		P7-H* P12-17					.22 .10	NO NO		14 12	
A 220	1		P7-I* E2					.22 .37	NO NO		14	
A 221	1		P7-J* P197-18					.22 .10	NO NO		14 13	
A 222	1		P7-K* E3					.22 .37	NO NO		14	
A 223	1		P7-M* P12-18					.22 .10	NO NO		14 12	
A 224	1		P7-N* E2					.22 .37	NO NO		14	
A 225	1		P7-P* P204-5					.22 .10	NO NO		14 13	
A 226	1		P7-Q* P204-6					.22 .10	NO NO		14 13	
A 227	1		P7-R* P19-5					.22 .10	NO NO		14 12	
A 228	1		P7-S* P19-6					.22 .10	NO NO		14 12	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 24 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P7-T* P204-7					.22 .10	NO NO		14 13	
A 230	1		P7-U* P204-8					.22 .10	NO NO		14 13	
A 231	1		P7-V* P19-7					.22 .10	NO NO		14 12	
A 232	1		P7-W* P19-8					.22 .10	NO NO		14 12	
A 233	1		P4-E P205-34					.22 .10	NO NO		14 13	
A 234	1		P4-F P205-26					.22 .10	NO NO		14 13	
A 235	1		P4-G P20-34					.22 .10	NO NO		14 12	
A 236	1		P4-H P20-26					.22 .10	NO NO		14 12	
A 237	2		P8-T P2-X					.22 .22	NO NO		14 14	
A 238	2		P8-U P2-Y					.22 .22	NO NO		14 14	
A 239	1		P9-A P205-5					.22 .10	NO NO		14 13	
A 240	1		P9-B E4					.22 .37	NO NO		14	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D
SHEET 25 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-C P20-10					.22 .10	NO NO		14 12	
A 242	1		P9-E P205-9					.22 .10	NO NO		14 13	
A 243	1		P9-F E4					.22 .37	NO NO		14	
A 244	1		P9-G P20-11					.22 .10	NO NO		14 12	
A 245	1		P9-J P205-33					.22 .10	NO NO		14 13	
A 246	1		P9-K E4					.22 .37	NO NO		14	
A 247	1		P9-L P20-32					.22 .10	NO NO		14 12	
A 248	1		P9-M P20-31					.22 .10	NO NO		14 12	
A 249	1		P9-N P205-15					.22 .10	NO NO		14 13	
A 250	1		P9-P E4					.22 .37	NO NO		14	
A 251	1		P9-R P20-24					.22 .10	NO NO		14 12	
A 252	1		P9-T P205-12					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 26 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-U E4					.22 .37	NO NO		14	
A 254	1		P9-V P20-17					.22 .10	NO NO		14 12	
A 255	1		P9-W E5					.22 .37	NO NO		14	
A 256	1		P9-X P205-4					.22 .10	NO NO		14 13	
A 257	1		P9-Y E4					.22 .37	NO NO		14	
A 258	1		P9-Z P20-2					.22 .10	NO NO		14 12	
A 259	1		P9-A* E5					.22 .37	NO NO		14	
A 260	1		P9-M* P11-18					.22 .10	NO NO		14 12	
A 261	1		P9-P* P196-17					.22 .10	NO NO		14 13	
A 262	1		P9-Q* P196-26					.22 .10	NO NO		14 13	
A 263	1		P9-R* P11-17					.22 .10	NO NO		14 12	
A 264	1		P9-S* E8					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 27 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P9-FF P206-A					.22 .25	NO YES		14	
A 266	1		P9-GG P206-B					.22 .25	NO YES		14	
A 267	1		P9-JJ P199-16					.22 .10	NO NO		14 13	
A 268	1		P9-NN P199-17					.22 .10	NO NO		14 13	
A 269	1		P9-J* P196-18					.22 .10	NO NO		14 13	
A 270	1		P20-18 P19-3					.10 .10	NO NO		12 12	
A 271	1		P204-3 P204-12					.10 .10	NO NO		13 13	
A 272	1		P13-7 E9					.10 .37	NO NO		12	
A 273	1		P13-8 E9					.10 .37	NO NO		12	
A 274	1		P13-15 E9					.10 .37	NO NO		12	
A 275	1		P13-16 E9					.10 .37	NO NO		12	
A 276	1		P13-21 E9					.10 .37	NO NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 28 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P14-15 E10					.10 .37	NO NO		12	
A 278	1		P14-16 E10					.10 .37	NO NO		12	
A 279	1		P14-21 E10					.10 .37	NO NO		12	
A 280	1		P14-22 E10					.10 .37	NO NO		12	
A 281	1		P21-C* E11					.22 .37	NO NO		14	
A 282	1		P21-D* E11					.22 .37	NO NO		14	
A 283	1		P21-E* E11					.22 .37	NO NO		14	
A 284	1		P21-F* E11					.22 .37	NO NO		14	
A 285	1		P21-G* E11					.22 .37	NO NO		14	
A 286	1		P198-7 E12					.10 .37	NO NO		13	
A 287	1		P198-8 E12					.10 .37	NO NO		13	
A 288	1		P198-15 E12					.10 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 29 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P198-16					.10	NO		13	
			E12					.37	NO			
A 290	1		P207-G					.25	YES			
			E13					.37	NO			
A 291	1		P207-H					.25	YES			
			E13					.37	NO			
A 292	1		P207-M					.25	YES			
			E13					.37	NO			
A 293	1		P207-S					.25	YES			
			E13					.37	NO			
A 294	1		P207-Z					.25	YES			
			E13					.37	NO			
A 295	1		P207-Y					.25	YES			
			P2-U*					.22	NO		14	
A 296	1		P4-F*					.22	NO		14	
			P207-K					.25	YES			
A 297	1		P4-G*					.22	NO		14	
			P4-I*					.22	NO		14	
A 298	1		P4-H*					.22	NO		14	
			P207-B*					.25	YES			
A 299	1		P207-F					.25	YES			
			P21-H					.22	NO		14	
A 300	1		P21-K					.22	NO		14	
			P21-X					.22	NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 30 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P207-L					.25	YES			
			P207-V					.25	YES			
A 302	1		P21-U					.22	NO		14	
			P21-M					.22	NO		14	
A 303	1		P207-B					.25	YES			
			P207-A					.25	YES			
A 304	1		P21-P					.22	NO		14	
			P21-S					.22	NO		14	
A 305	1		P207-D					.25	YES			
			P207-U					.25	YES			
A 306	1		P21-W					.22	NO		14	
			P21-Z					.22	NO		14	
A 307	1		P4-K*					.22	NO		14	
			P21-G					.22	NO		14	
A 308	1		P4-J*					.22	NO		14	
			P21-Y					.22	NO		14	
A 309	1		P21-J					.22	NO		14	
			P21-L					.22	NO		14	
A 310	1		P21-T					.22	NO		14	
			P21-N					.22	NO		14	
A 311	1		P21-R					.22	NO		14	
			P21-V					.22	NO		14	
A 312	1		P3-A					.22	NO		14	
			P198-2					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 31 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	1		P3-B					.22	NO		14	
			P198-1					.10	NO		13	
A 314	1		P3-E					.22	NO		14	
			P198-3					.10	NO		13	
A 315	2		P3-F					.22	NO		14	
			P3-B					.22	NO			
A 316	1		P3-J					.22	NO		14	
			P199-2					.10	NO		13	
A 317	1		P3-K					.22	NO		14	
			P199-1					.10	NO		13	
A 318	1		P3-N					.22	NO		14	
			P196-34					.10	NO		13	
A 319	2		P3-P					.22	NO		14	
			P9-Q*					.22	NO			
A 320	2		E2					.37	NO			
			P8-U					.22	NO			

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 32 OF 33

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

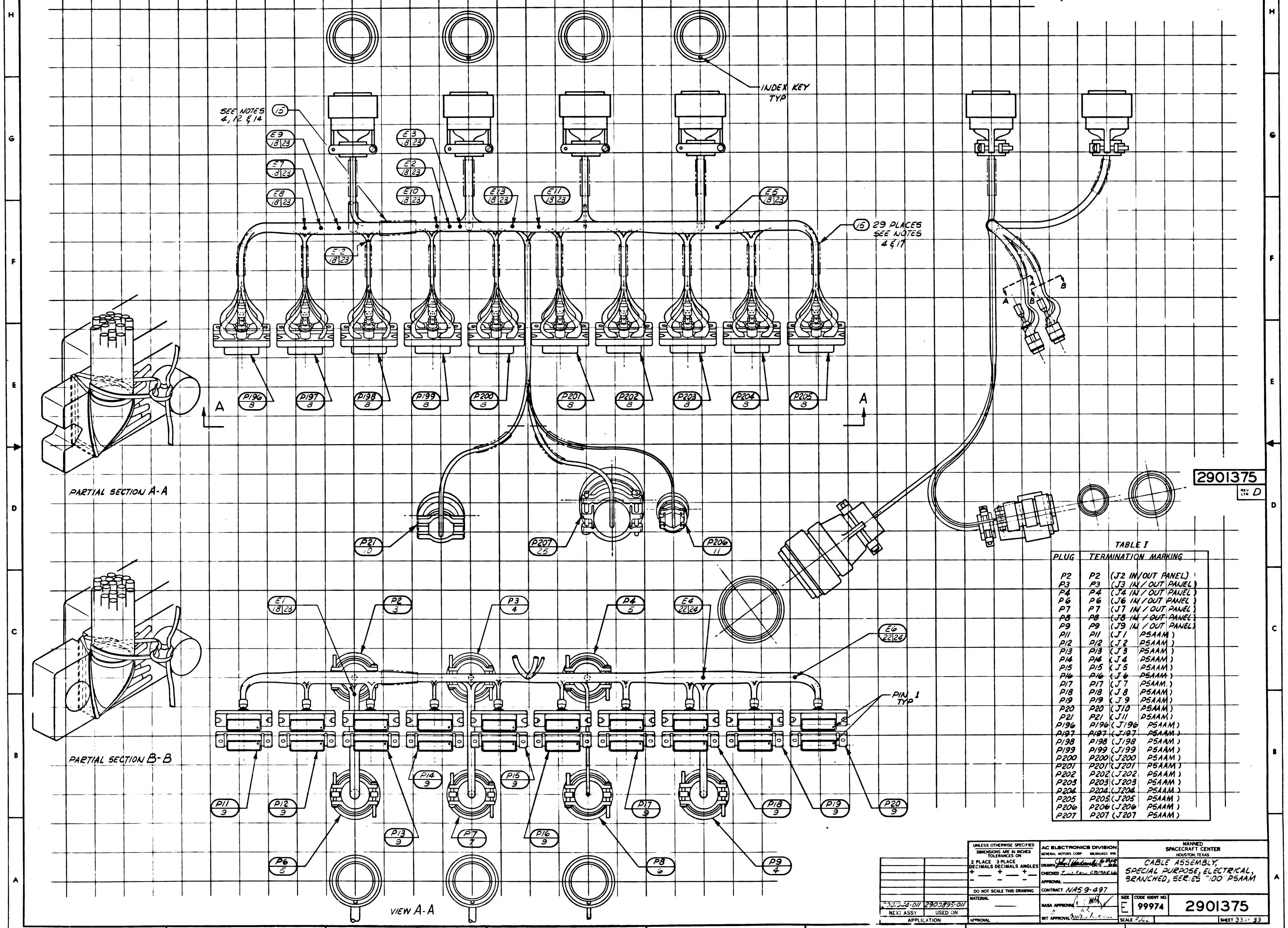

SEE NOTES 4, 12 & 14
15
INDEX KEY TYP
E9 18 23
E7 18 23
E8 18 23
E3 18 23
E2 18 23
E10 18 23
E13 18 23
E11 18 23
E5 18 23
E12 18 23
15 29 PLACES SEE NOTES 4 & 17
A
B
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
PARTIAL SECTION A-A
P21 10
P207 25
P206 11
2901375
REV LTR D
E1 18 23
P2 3
P3 4
P4 5
E4 22 24
E6 22 24
PIN 1 TYP
PARTIAL SECTION B-B
P11 9
P12 9
P13 9
P14 9
P15 9
P16 9
P7 7
P17 9
P18 9
P19 9
P20 9
P6 5
P8 6
P9 4
VIEW A-A

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN / OUT PANEL)
P4	P4 (J4 IN / OUT PANEL)
P6	P6 (J6 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

NEXT ASSY	USED ON
2901024-011	2900895-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ___
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John J. Kudowski DATE 16 MAR 66
CHECKED 28 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE E
CODE IDENT NO. 99974
2901375
SCALE FULL
SHEET 33 OF 33

MX-10989I

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61870	4 APR 66	FRW / mlm
B	REVISED PER MXC 211539	21-APR-66	B. / W.A.
C	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP / EF
D	REVISED PER TDRR 29227	8-JUN-66	B. / mlm
E	REVISED PER TDRR 30077	16 JUL 66	E

(m) (m)

Charleston 28 MAR 66

REV		D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	E						
SHEET		15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33						
REV STATUS OF SHEETS	REV													E	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET													1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Koudonaka 16 MAR 66 (DAY MO YR)
CHECKER 28 MAR 66
ENGINEER 28 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL 5/16/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE A
CODE IDENT. NO 99974
2901375
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 16.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING.
UNLESS OTHERWISE SPECIFIED
HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 APPLY LEAD IDENTIFICATIONS PER ND1002019.

9 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK

10 SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21 OR ITEMS 19 AND 20.

11 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 11.

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 ASSEMBLE PER ND1002032.

14 SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 2 OF 33

NOTE NUMBER — GENERAL NOTES DESCRIPTION

15 ITEM 14 SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 10.

16 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.

17 MARK IDENTIFICATION BANDS AS NOTED IN TABLE 1, PER ND1002019. CENTRALIZE.

18 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 3 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901375-001	WIRE ND1002181,TYPE 1 CLASS 1,22 AWG WHT 365 FEET TOTAL LENGTH
	2	1	2901375-002	WIRE ND1002181,TYPE 1 CLASS 1,24 AWG WHT 60 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG,ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG,ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG,ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG,ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG,ELECTRICAL
7	8	10	1897169- 1	CONNECTOR,PLUG,ELECTRICAL
	9	10	2900274-001	CONNECTOR,PLUG,ELECTRICAL
	10	1	MS3126F20-41P	(1897043-410) CONNECTOR-PLUG,ELECTRICAL
	11	1	MS3106A12S-3P	(1896913-001) CONNECTOR-PLUG,ELECTRICAL
7	12	181	1010738-006	CONTACT,SOCKET
7	13	186	1010738-005	CONTACT,PIN
15	14	X	MS3192A-20A	(1896855-020) CONTACT,ELECTRICAL,PIN
7	15	30	1016128-011	BAND-IDENTIFICATION
7	16	AR	1012507-004	TAPE,LACING AND TYING

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 4 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F, FORM T BLACK, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .02 THICK
7	18	11	1016006-001	SPLICE REDUCER
	19	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	20	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	22	2	1016006-002	SPLICE REDUCER
7	23	11	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
7	24	2	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
	25	1	MS3106R32-8S	(1897107-080) CONNECTOR-PLUG,ELECTRICAL

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 5 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P196-14					.37 .10	NO NO		13	
A 2	1		E2 P12-1					.37 .10	NO NO		12	
A 3	1		E3 P197-1					.37 .10	NO NO		13	
A 4	1		E4 P205-3					.37 .10	NO NO		13	
A 5	1		E5 P20-23					.37 .10	NO NO		12	
A 6	1		E5 F6					.37 .37	NO NO			
A 7	1		E6 P205-2					.37 .10	NO NO		13	
A 8	1		E6 P205-10					.37 .10	NO NO		13	
A 9	1		E6 P205-11					.37 .10	NO NO		13	
A 10	1		E6 P205-17					.37 .10	NO NO		13	
A 11	1		E6 P205-24					.37 .10	NO NO		13	
A 12	1		E6 P205-32					.37 .10	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 6 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E6 P205-31					.37 .10	NO NO		13	
A 14	1		P2-X P21-C					.22 .22	NO NO		14 14	
A 15	1		P2-Y P21-A					.22 .22	NO NO		14 14	
A 16	1		E7 P11-34					.37 .10	NO NO		12	
A 17	1		E7 P13-2					.37 .10	NO NO		12	
A 18	1		E7 P13-3					.37 .10	NO NO		12	
A 19	1		E7 P14-2					.37 .10	NO NO		12	
A 20	1		E8 P11-26					.37 .10	NO NO		12	
A 21	1		E8 P13-1					.37 .10	NO NO		12	
A 22	1		P196-3 P196-4					.10 .10	NO NO		13 13	
A 23	1		P11-4 P11-12					.10 .10	NO NO		12 12	
A 24	1		P196-12 P196-32					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 7 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32 P11-33					.10 .10	NO NO		12 12	
A 26	1		P196-33 P197-9					.10 .10	NO NO		13 13	
A 27	1		P12-9 P12-13					.10 .10	NO NO		12 12	
A 28	1		P197-13 P197-14					.10 .10	NO NO		13 13	
A 29	1		P12-14 P12-15					.10 .10	NO NO		12 12	
A 30	1		P197-15 P197-20					.10 .10	NO NO		13 13	
A 31	1		P12-20 P12-21					.10 .10	NO NO		12 12	
A 32	1		P197-21 P198-23					.10 .10	NO NO		13 13	
A 33	1		P13-23 P13-24					.10 .10	NO NO		12 12	
A 34	1		P198-24 P198-31					.10 .10	NO NO		13 13	
A 35	1		P13-31 P13-32					.10 .10	NO NO		12 12	
A 36	1		P198-32 P199-23					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 8 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23 P14-31					.10 .10	NO NO		12 12	
A 38	1		P199-31 P200-20					.10 .10	NO NO		13 13	
A 39	1		P15-20 P15-21					.10 .10	NO NO		12 12	
A 40	1		P200-21 P200-23					.10 .10	NO NO		13 13	
A 41	1		P15-23 P15-24					.10 .10	NO NO		12 12	
A 42	1		P200-24 P200-25					.10 .10	NO NO		13 13	
A 43	1		P15-25 P15-27					.10 .10	NO NO		12 12	
A 44	1		P200-27 P200-28					.10 .10	NO NO		13 13	
A 45	1		P15-28 P15-31					.10 .10	NO NO		12 12	
A 46	1		P200-31 P200-32					.10 .10	NO NO		13 13	
A 47	1		P15-32 P15-33					.10 .10	NO NO		12 12	
A 48	1		P200-33 P200-35					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 9 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	49	1		P15-35 P15-36					.10 .10	NO NO		12 12	
A	50	1		P200-36 P201-2					.10 .10	NO NO		13 13	
A	51	1		P16-2 P16-25					.10 .10	NO NO		12 12	
A	52	1		P201-25 P201-26					.10 .10	NO NO		13 13	
A	53	1		P16-26 P16-33					.10 .10	NO NO		12 12	
A	54	1		P201-33 P201-34					.10 .10	NO NO		13 13	
A	55	1		P16-34 P17-1					.10 .10	NO NO		12 12	
A	56	1		P202-1 P202-2					.10 .10	NO NO		13 13	
A	57	1		P17-2 P17-3					.10 .10	NO NO		12 12	
A	58	1		P202-3 P202-4					.10 .10	NO NO		13 13	
A	59	1		P17-4 P17-5					.10 .10	NO NO		12 12	
A	60	1		P202-5 P202-6					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.			
A	99974	2901375		
SCALE-NONE	REV LTR	D	SHEET 10 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	61	1		P17-6 P17-9					.10 .10	NO NO		12 12	
A	62	1		P202-9 P202-10					.10 .10	NO NO		13 13	
A	63	1		P17-10 P17-12					.10 .10	NO NO		12 12	
A	64	1		P202-12 P202-13					.10 .10	NO NO		13 13	
A	65	1		P17-13 P17-17					.10 .10	NO NO		12 12	
A	66	1		P202-17 P202-18					.10 .10	NO NO		13 13	
A	67	1		P17-18 P18-1					.10 .10	NO NO		12 12	
A	68	1		P203-1 P203-2					.10 .10	NO NO		13 13	
A	69	1		P18-2 P18-3					.10 .10	NO NO		12 12	
A	70	1		P203-3 P203-6					.10 .10	NO NO		13 13	
A	71	1		P18-6 P18-7					.10 .10	NO NO		12 12	
A	72	1		P203-7 P203-8					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.			
A	99974	2901375		
SCALE-NONE	REV LTR	D	SHEET 11 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	73	1		P18-8 P18-9					.10 .10	NO NO		12 12	
A	74	1		P203-9 P203-10					.10 .10	NO NO		13 13	
A	75	1		P18-10 P18-11					.10 .10	NO NO		12 12	
A	76	1		P203-11 P203-12					.10 .10	NO NO		13 13	
A	77	1		P18-12 P18-13					.10 .10	NO		12 12	
A	78	1		P203-13 P203-14					.10 .10	NO NO		13 13	
A	79	1		P18-14 P18-15					.10 .10	NO NO		12 12	
A	80	1		P203-15 P203-20					.10 .10	NO NO		13 13	
A	81	1		P18-20 P18-21					.10 .10	NO NO		12 12	
A	82	1		P203-21 P203-23					.10 .10	NO NO		13 13	
A	83	1		P18-23 P18-25					.10 .10	NO NO		12 12	
A	84	1		P203-25 P203-26					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.			
A	99974	2901375		
SCALE-NONE	REV LTR	D	SHEET 12 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	85	1		P18-26 P18-33					.10 .10	NO NO		12 12	
A	86	1		P203-33 P203-34					.10 .10	NO NO		13 13	
A	87	1		P18-34 P18-35					.10 .10	NO NO		12 12	
A	88	1		P203-35 P203-36					.10 .10	NO NO		13 13	
A	89	1		P18-36 P19-1					.10 .10	NO NO		12 12	
A	90	1		P204-1 P204-2					.10 .10	NO NO		13 13	
A	91	1		P19-2 P19-9					.10 .10	NO NO		12 12	
A	92	1		P204-9 P204-10					.10 .10	NO NO		13 13	
A	93	1		P19-10 P19-11					.10 .10	NO NO		12 12	
A	94	1		P204-11 P204-13					.10 .10	NO NO		13 13	
A	95	1		P19-13 P19-14					.10 .10	NO NO		12 12	
A	96	1		P204-14 P204-17					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.			
A	99974	2901375		
SCALE-NONE	REV LTR	D	SHEET 13 OF 33	

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17 P19-18					.10 .10	NO NO		12 12	
A 98	1		P204-18 P204-19					.10 .10	NO NO		13 13	
A 99	1		P19-19 P19-20					.10 .10	NO NO		12 12	
A 100	1		P204-20 P204-21					.10 .10	NO NO		13 13	
A 101	1		P19-21 P19-23					.10 .10	NO NO		12 12	
A 102	1		P204-23 P204-24					.10 .10	NO NO		13 13	
A 103	1		P19-24 P19-27					.10 .10	NO NO		12 12	
A 104	1		P204-27 P204-28					.10 .10	NO NO		13 13	
A 105	1		P19-28 P20-5					.10 .10	NO NO		12 12	
A 106	1		P205-16 P205-6					.10 .10	NO NO		13 13	
A 107	1		P20-6 P20-7					.10 .10	NO NO		12 12	
A 108	1		P205-7 P205-8					.10 .10	NO NO		13 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 14 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8 P20-13					.10 .10	NO NO		12 12	
A 110	1		P205-13 P205-14					.10 .10	NO NO		13 13	
A 111	1		P20-14 P20-19					.10 .10	NO NO		12 12	
A 112	1		P205-19 P205-20					.10 .10	NO NO		13 13	
A 113	1		P20-20 P20-21					.10 .10	NO NO		12 12	
A 114	1		P205-21 P205-27					.10 .10	NO NO		13 13	
A 115	1		P20-27 P20-28					.10 .10	NO NO		12 12	
A 116	1		P205-28 P205-35					.10 .10	NO NO		13 13	
A 117	1		P20-35 P20-36					.10 .10	NO NO		12 12	
A 118	1		P205-36 P197-28					.10 .10	NO NO		13 13	
A 119	1		P12-28 P12-27					.10 .10	NO NO		12 12	
A 120	1		E8 P14-1					.37 .10	NO NO		 12	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 15 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P197-27 P197-36					.10 .10	NO NO		13 13	
A 122	1		P12-36 P12-35					.10 .10	NO NO		12 12	
A 123	1		P197-35 P203-17					.10 .10	NO NO		13 13	
A 124	1		P18-17 P18-18					.10 .10	NO NO		12 12	
A 125	1		P203-18 P203-19					.10 .10	NO NO		13 13	
A 126	1		P18-19 P18-24					.10 .10	NO NO		12 12	
A 127	1		P203-24 P203-27					.10 .10	NO NO		13 13	
A 128	1		P18-27 P18-28					.10 .10	NO NO		12 12	
A 129	1		P203-28 P205-18					.10 .10	NO NO		13 13	
A 130	1		P2-F* P201-35					.22 .10	NO NO		14 13	
A 131	1		P2-G* P201-36					.22 .10	NO NO		14 13	
A 132	1		P2-H* P16-35					.22 .10	NO NO		14 12	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 16 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P2-I* P16-36					.22 .10	NO NO		14 12	
A 134	1		P4-A P202-14					.22 .10	NO NO		14 13	
A 135	1		P4-B P202-15					.22 .10	NO NO		14 13	
A 136	1		P4-C P17-14					.22 .10	NO NO		14 12	
A 137	1		P4-D P17-15					.22 .10	NO NO		14 12	
A 138	1		P4-M P199-18					.22 .10	NO NO		14 13	
A 139	1		P4-S P199-19					.22 .10	NO NO		14 13	
A 140	1		P4-T P11-23					.22 .10	NO NO		14 12	
A 141	1		P4-U E2					.22 .37	NO NO		14	
A 142	1		P4-W P199-20					.22 .10	NO NO		14 13	
A 143	1		P4-X P11-24					.22 .10	NO NO		14 12	
A 144	1		P4-A* P199-21					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 17 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P4-R* P11-31					.22 .10	NO NO		14 12	
A 146	1		P4-E* P199-22					.22 .10	NO NO		14 13	
A 147	1		P4-T* P2-V					.22 .22	NO NO		14 14	
A 148	1		P4-U* P2-W					.22 .22	NO NO		14 14	
A 149	1		P4-V* E7					.22 .37	NO NO		14	
A 150	1		P4-W* E8					.22 .37	NO NO		14	
A 151	1		P4-X* P19-12					.22 .10	NO NO		14 12	
A 152	1		P4-Z* P11-3					.22 .10	NO NO		14 12	
A 153	1		P6-A P196-7					.22 .10	NO NO		14 13	
A 154	1		P6-B E1					.22 .37	NO NO		14	
A 155	1		P6-C P11-7					.22 .10	NO NO		14 12	
A 156	1		P6-E P196-6					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 18 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-F E1					.22 .37	NO NO		14	
A 158	1		P6-G P11-6					.22 .10	NO NO		14 12	
A 159	1		P6-J P196-13					.22 .10	NO NO		14 13	
A 160	1		P6-K E1					.22 .37	NO NO		14	
A 161	1		P6-L P11-13					.22 .10	NO NO		14 12	
A 162	1		P6-M P11-14					.22 .10	NO NO		14 12	
A 163	1		P6-N P196-20					.22 .10	NO NO		14 13	
A 164	1		P6-P P196-21					.22 .10	NO NO		14 13	
A 165	1		P6-R P11-20					.22 .10	NO NO		14 12	
A 166	1		P6-S P11-21					.22 .10	NO NO		14 12	
A 167	1		P6-T P196-27					.22 .10	NO NO		14 13	
A 168	1		P6-U P196-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 19 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P6-V P11-27					.22 .10	NO NO		14 12	
A 170	1		P6-W P11-28					.22 .10	NO NO		14 12	
A 171	1		P6-X P196-35					.22 .10	NO NO		14 13	
A 172	1		P6-Y P196-36					.22 .10	NO NO		14 13	
A 173	1		P6-Z P11-35					.22 .10	NO NO		14 12	
A 174	1		P6-A* P11-36					.22 .10	NO NO		14 12	
A 175	1		P6-B* P200-9					.22 .10	NO NO		14 13	
A 176	1		P6-C* P200-1					.22 .10	NO NO		14 13	
A 177	1		P6-D* P15-9					.22 .10	NO NO		14 12	
A 178	1		P6-E* P15-1					.22 .10	NO NO		 12	
A 179	1		P6-F* P200-17					.22 .10	NO NO		14 13	
A 180	1		P6-G* P200-29					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 20 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-H* P15-17					.22 .10	NO NO		14 12	
A 182	2		P6-I* P6-E*					.22 .22	NO NO		14 14	
A 183	1		P6-J* P202-7					.22 .10	NO NO		14 13	
A 184	1		P6-K* P202-8					.22 .10	NO NO		14 13	
A 185	1		P6-M* P17-7					.22 .10	NO NO		14 12	
A 186	1		P6-N* P17-8					.22 .10	NO NO		14 12	
A 187	1		P6-P* P202-20					.22 .10	NO NO		14 13	
A 188	1		P6-Q* P202-21					.22 .10	NO NO		14 13	
A 189	1		P6-R* P17-20					.22 .10	NO NO		14 12	
A 190	1		P6-S* P17-21					.22 .10	NO NO		14 12	
A 191	1		P6-T* P202-27					.22 .10	NO NO		14 13	
A 192	1		P6-U* P202-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 21 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-V* P17-27					.22 .10	NO NO		14 12	
A 194	1		P6-W* P17-28					.22 .10	NO NO		14 12	
A 195	1		P6-X* P202-35					.22 .10	NO NO		14 13	
A 196	1		P6-Y* P202-36					.22 .10	NO NO		14 13	
A 197	1		P6-Z* P17-35					.22 .10	NO NO		14 12	
A 198	1		P6-AA P17-36					.22 .10	NO NO		14 12	
A 199	1		P6-BB P201-20					.22 .10	NO NO		14 13	
A 200	1		P6-CC P201-21					.22 .10	NO NO		14 13	
A 201	1		P6-DD P16-20					.22 .10	NO NO		14 12	
A 202	1		P6-EE P16-21					.22 .10	NO NO		14 12	
A 203	1		P6-FF P201-27					.22 .10	NO NO		14 13	
A 204	1		P6-GG P201-28					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 22 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-HH P16-27					.22 .10	NO NO		14 12	
A 206	1		P6-JJ P16-28					.22 .10	NO NO		14 12	
A 207	1		P7-T P201-9					.22 .10	NO NO		14 13	
A 208	1		P7-U P201-1					.22 .10	NO NO		14 13	
A 209	1		P7-V P16-9					.22 .10	NO NO		14 12	
A 210	1		P7-W P16-1					.22 .10	NO NO		14 12	
A 211	1		P7-X P201-10					.22 .10	NO NO		14 13	
A 212	1		P7-Z P16-10					.22 .10	NO NO		14 12	
A 213	1		P7-B* P197-10					.22 .10	NO NO		14 13	
A 214	1		P7-C* E3					.22 .37	NO NO		14	
A 215	1		P7-D* P12-10					.22 .10	NO NO		14 12	
A 216	1		P7-E* E2					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 23 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P7-F* P197-17					.22 .10	NO NO		14 13	
A 218	1		P7-G* E3					.22 .37	NO NO		14	
A 219	1		P7-H* P12-17					.22 .10	NO NO		14 12	
A 220	1		P7-I* E2					.22 .37	NO NO		14	
A 221	1		P7-J* P197-18					.22 .10	NO NO		14 13	
A 222	1		P7-K* E3					.22 .37	NO NO		14	
A 223	1		P7-M* P12-18					.22 .10	NO NO		14 12	
A 224	1		P7-N* E2					.22 .37	NO NO		14	
A 225	1		P7-P* P204-5					.22 .10	NO NO		14 13	
A 226	1		P7-Q* P204-6					.22 .10	NO NO		14 13	
A 227	1		P7-R* P19-5					.22 .10	NO NO		14 12	
A 228	1		P7-S* P19-6					.22 .10	NO NO		14 12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 24 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P7-T* P204-7					.22 .10	NO NO		14 13	
A 230	1		P7-U* P204-8					.22 .10	NO NO		14 13	
A 231	1		P7-V* P19-7					.22 .10	NO NO		14 12	
A 232	1		P7-W* P19-8					.22 .10	NO NO		14 12	
A 233	1		P4-E P205-34					.22 .10	NO NO		14 13	
A 234	1		P4-F P205-26					.22 .10	NO NO		14 13	
A 235	1		P4-G P20-34					.22 .10	NO NO		14 12	
A 236	1		P4-H P20-26					.22 .10	NO NO		14 12	
A 237	2		P8-T P2-X					.22 .22	NO NO		14 14	
A 238	2		P8-U P2-Y					.22 .22	NO NO		14 14	
A 239	1		P9-A P205-5					.22 .10	NO NO		14 13	
A 240	1		P9-B E4					.22 .37	NO NO		14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 25 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-C					.22	NO		14	
			P20-11					.10	NO		12	
A 242	1		P9-E					.22	NO		14	
			P205-9					.10	NO		13	
A 243	1		P9-F					.22	NO		14	
			E4					.37	NO			
A 244	1		P9-G					.22	NO		14	
			P20-10					.10	NO		12	
A 245	1		P9-J					.22	NO		14	
			P205-33					.10	NO		13	
A 246	1		P9-K					.22	NO		14	
			E4					.37	NO			
A 247	1		P9-L					.22	NO		14	
			P20-32					.10	NO		12	
A 248	1		P9-M					.22	NO		14	
			P20-31					.10	NO		12	
A 249	1		P9-N					.22	NO		14	
			P205-15					.10	NO		13	
A 250	1		P9-P					.22	NO		14	
			E4					.37	NO			
A 251	1		P9-R					.22	NO		14	
			P20-24					.10	NO		12	
A 252	1		P9-T					.22	NO		14	
			P205-12					.10	NO		13	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR E	SHEET 26 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-U					.22	NO		14	
			E4					.37	NO			
A 254	1		P9-V					.22	NO		14	
			P20-17					.10	NO		12	
A 255	1		P9-W					.22	NO		14	
			E5					.37	NO			
A 256	1		P9-X					.22	NO		14	
			P205-4					.10	NO		13	
A 257	1		P9-Y					.22	NO		14	
			E4					.37	NO			
A 258	1		P9-Z					.22	NO		14	
			P20-2					.10	NO		12	
A 259	1		P9-A*					.22	NO		14	
			E5					.37	NO			
A 260	1		P9-M*					.22	NO		14	
			P11-18					.10	NO		12	
A 261	1		P9-P*					.22	NO		14	
			P196-17					.10	NO		13	
A 262	1		P9-Q*					.22	NO		14	
			P196-26					.10	NO		13	
A 263	1		P9-R*					.22	NO		14	
			P11-17					.10	NO		12	
A 264	1		P9-S*					.22	NO		14	
			E8					.37	NO			

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 27 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P9-FF					.22	NO		14	
			P206-A					.25	YES			
A 266	1		P9-GG					.22	NO		14	
			P206-B					.25	YES			
A 267	1		P9-JJ					.22	NO		14	
			P199-16					.10	NO		13	
A 268	1		P9-NN					.22	NO		14	
			P199-17					.10	NO		13	
A 269	1		P9-J*					.22	NO		14	
			P196-18					.10	NO		13	
A 270	1		P20-18					.10	NO		12	
			P19-3					.10	NO		12	
A 271	1		P204-3					.10	NO		13	
			P204-12					.10	NO		13	
A 272	1		P13-7					.10	NO		12	
			E9					.37	NO			
A 273	1		P13-8					.10	NO		12	
			E9					.37	NO			
A 274	1		P13-15					.10	NO		12	
			E9					.37	NO			
A 275	1		P13-16					.10	NO		12	
			E9					.37	NO			
A 276	1		P13-21					.10	NO		12	
			E9					.37	NO			

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 28 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P14-15					.10	NO		12	
			E10					.37	NO			
A 278	1		P14-16					.10	NO		12	
			E10					.37	NO			
A 279	1		P14-21					.10	NO		12	
			E10					.37	NO			
A 280	1		P14-22					.10	NO		12	
			E10					.37	NO			
A 281	1		P21-C*					.22	NO		14	
			E11					.37	NO			
A 282	1		P21-D*					.22	NO		14	
			E11					.37	NO			
A 283	1		P21-E*					.22	NO		14	
			E11					.37	NO			
A 284	1		P21-F*					.22	NO		14	
			E11					.37	NO			
A 285	1		P21-G*					.22	NO		14	
			E11					.37	NO			
A 286	1		P198-7					.10	NO		13	
			E12					.37	NO			
A 287	1		P198-8					.10	NO		13	
			E12					.37	NO			
A 288	1		P198-15					.10	NO		13	
			E12					.37	NO			

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 29 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P198-16 E12					.10 .37	NO NO		13	
A 290	1		P207-G E13					.25 .37	YES NO			
A 291	1		P207-H E13					.25 .37	YES NO			
A 292	1		P207-M E13					.25 .37	YES NO			
A 293	1		P207-S E13					.25 .37	YES NO			
A 294	1		P207-Z E13					.25 .37	YES NO			
A 295	1		P207-Y P2-U*					.25 .22	YES NO		 14	
A 296	1		P4-F* P207-K					.22 .25	NO YES		14	
A 297	1		P4-G* P4-14					.22 .22	NO NO		14 14	
A 298	1		P4-H* P207-B*					.22 .25	NO YES		14	
A 299	1		P207-F P21-H					.25 .22	YES NO		 14	
A 300	1		P21-K P21-X					.22 .22	NO NO		14 14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 30 OF 33

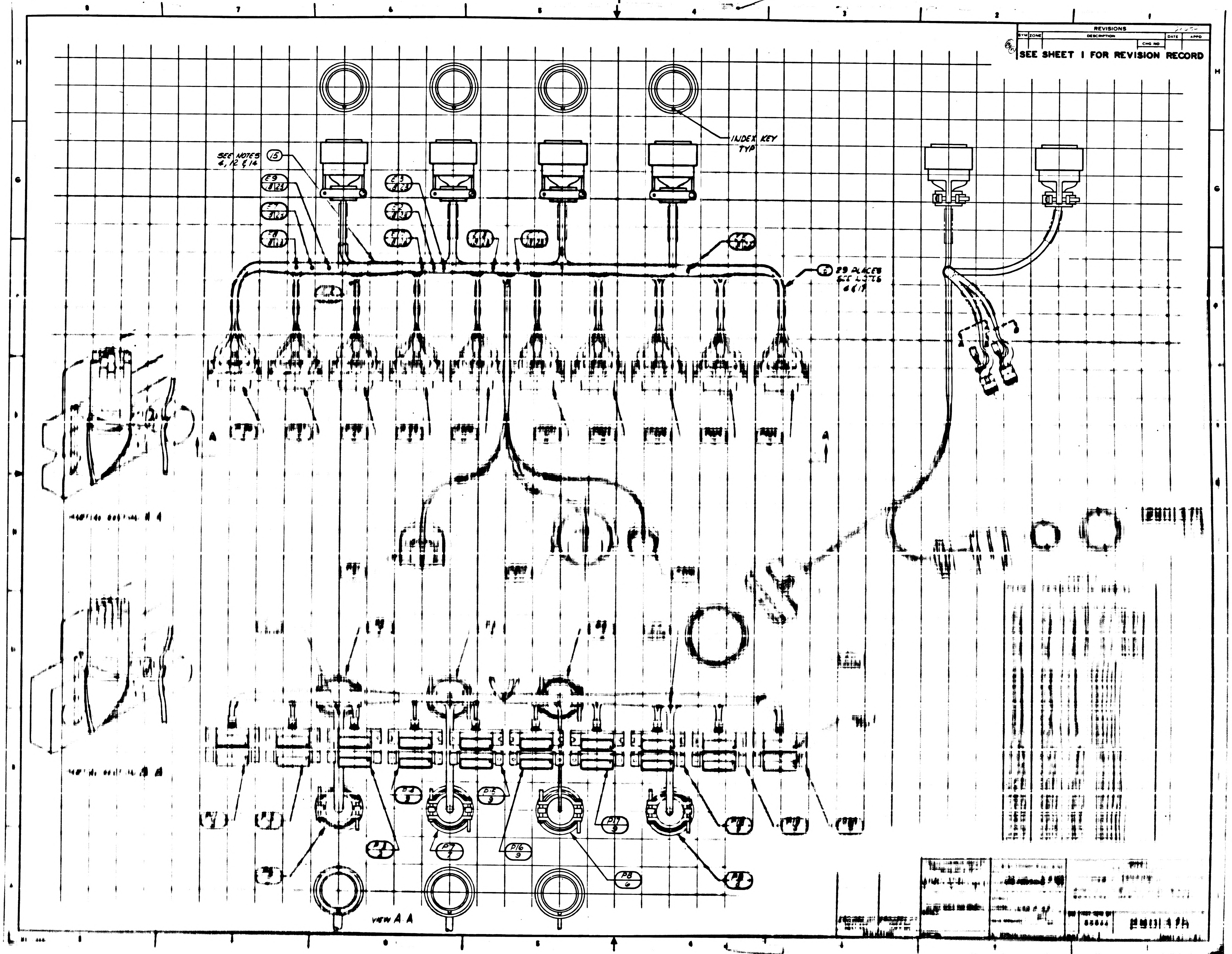
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P207-L P207-V					.25 .25	YES YES			
A 302	1		P21-U P21-M					.22 .22	NO NO		14 14	
A 303	1		P207-B P207-A					.25 .25	YES YES			
A 304	1		P21-P P21-S					.22 .22	NO NO		14 14	
A 305	1		P207-D P207-U					.25 .25	YES YES			
A 306	1		P21-W P21-Z					.22 .22	NO NO		14 14	
A 307	1		P4-K* P21-G					.22 .22	NO NO		14 14	
A 308	1		P4-J* P21-Y					.22 .22	NO NO		14 14	
A 309	1		P21-J P21-L					.22 .22	NO NO		14 14	
A 310	1		P21-T P21-N					.22 .22	NO NO		14 14	
A 311	1		P21-R P21-V					.22 .22	NO NO		14 14	
A 312	1		P3-A P198-2					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 31 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 313	1		P3-B P198-1					.22 .10	NO NO		14 13	
A 314	1		P3-E P198-3					.22 .10	NO NO		14 13	
A 315	2		P3-F P3-B					.22 .22	NO NO		14	
A 316	1		P3-J P199-2					.22 .10	NO NO		14 13	
A 317	1		P3-K P199-1					.22 .10	NO NO		14 13	
A 318	1		P3-N P196-34					.22 .10	NO NO		14 13	
A 319	2		P3-P P9-Q*					.22 .22	NO NO		14	
A 320	2		E2 P8-U					.37 .22	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 32 OF 33

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


8
7
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INDEX KEY TYP
SEE NOTES 4, 12 & 14
15
E9
29 PLACES SEE NOTE 6 & 13
A
A
P4 9
P15 9
P7 7
P16 9
P17 9
P8 6
VIEW A A

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61870	4 APR 66	FRW / WM
B	REVISED PER MXC 211539	21-APR-66	B. / W.A.
C	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP / EF
D	REVISED PER TDRR 29227	8-JUN-66	B. / wlm
E	REVISED PER TDRR 30077	16 JUL 66	F
F	REVISED PER TDRR 30500	12 AUG '66	JI / RW

28 MAR 66

REV	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	F	D	D	E						
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33						

REV STATUS OF SHEETS																						
REV STATUS OF SHEETS	REV									F	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET									1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Koudnake 16 MAR 66
DAY MO YR
CHECKER 28 MAR 66
ENGINEER 26 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL 5/6/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE A
CODE IDENT. NO 99974
2901375
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 16.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK
10	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21 OR ITEMS 19 AND 20.
11	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 11.
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	ASSEMBLE PER ND1002032.
14	SERIALIZE PER ND1002023.

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 2 OF 33

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
15	ITEM 14 SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 10.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.
17	MARK IDENTIFICATION BANDS AS NOTED IN TABLE 1, PER ND1002019. CENTRALIZE.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 3 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901375-001	WIRE ND1002181,TYPE 1 CLASS 1,22 AWG WHT 365 FEET TOTAL LENGTH
	2	1	2901375-002	WIRE ND1002181,TYPE 1 CLASS 1,24 AWG WHT 60 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG,ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG,ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG,ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG,ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG,ELECTRICAL
7	8	10	1897169- 1	CONNECTOR,PLUG,ELECTRICAL
	9	10	2900274-001	CONNECTOR,PLUG,ELECTRICAL
	10	1	MS3126F20-41P	(1897043-410) CONNECTOR-PLUG,ELECTRICAL
	11	1	MS3106A12S-3P	(1896913-001) CONNECTOR-PLUG,ELECTRICAL
7	12	181	1010738-006	CONTACT,SOCKET
7	13	186	1010738-005	CONTACT,PIN
15	14	X	MS3192A-20A	(1896855-020) CONTACT,ELECTRICAL,PIN
7	15	30	1016128-011	BAND-IDENTIFICATION
7	16	AR	1012507-004	TAPE,LACING AND TYING

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 4 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F, FORM T BLACK, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .02 THICK
7	18	11	1016006-001	SPLICE REDUCER
	19	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	20	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	22	2	1016006-002	SPLICE REDUCER
7	23	11	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
7	24	2	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
	25	1	MS3106R32-8S	(1897107-080) CONNECTOR-PLUG,ELECTRICAL

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 5 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P196-14					.37 .10	NO NO		 13	
A 2	1		E2 P12-1					.37 .10	NO NO		 12	
A 3	1		E3 P197-1					.37 .10	NO NO		 13	
A 4	1		E4 P205-3					.37 .10	NO NO		 13	
A 5	1		E5 P20-23					.37 .10	NO NO		 12	
A 6	1		E5 E6					.37 .37	NO NO			
A 7	1		E6 P205-2					.37 .10	NO NO		 13	
A 8	1		E6 P205-10					.37 .10	NO NO		 13	
A 9	1		E6 P205-11					.37 .10	NO NO		 13	
A 10	1		E6 P205-17					.37 .10	NO NO		 13	
A 11	1		E6 P205-24					.37 .10	NO NO		 13	
A 12	1		E6 P205-32					.37 .10	NO NO		 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 6 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E6 P205-31					.37 .10	NO NO		 13	
A 14	1		P2-X P21-C					.22 .22	NO NO		14 14	
A 15	1		P2-Y P21-A					.22 .22	NO NO		14 14	
A 16	1		E7 P11-34					.37 .10	NO NO		 12	
A 17	1		E7 P13-2					.37 .10	NO NO		 12	
A 18	1		E7 P13-3					.37 .10	NO NO		 12	
A 19	1		E7 P14-2					.37 .10	NO NO		 12	
A 20	1		E8 P11-26					.37 .10	NO NO		 12	
A 21	1		E8 P13-1					.37 .10	NO NO		 12	
A 22	1		P196-3 P196-4					.10 .10	NO NO		13 13	
A 23	1		P11-4 P11-12					.10 .10	NO NO		12 12	
A 24	1		P196-12 P196-32					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 7 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		P11-32 P11-33					.10 .10	NO NO		12 12	
A 26	1		P196-33 P197-9					.10 .10	NO NO		13 13	
A 27	1		P12-9 P12-13					.10 .10	NO NO		12 12	
A 28	1		P197-13 P197-14					.10 .10	NO NO		13 13	
A 29	1		P12-14 P12-15					.10 .10	NO NO		12 12	
A 30	1		P197-15 P197-20					.10 .10	NO NO		13 13	
A 31	1		P12-20 P12-21					.10 .10	NO NO		12 12	
A 32	1		P197-21 P198-23					.10 .10	NO NO		13 13	
A 33	1		P13-23 P13-24					.10 .10	NO NO		12 12	
A 34	1		P198-24 P198-31					.10 .10	NO NO		13 13	
A 35	1		P13-31 P13-32					.10 .10	NO NO		12 12	
A 36	1		P198-32 P199-23					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 8 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P14-23 P14-31					.10 .10	NO NO		12 12	
A 38	1		P199-31 P200-20					.10 .10	NO NO		13 13	
A 39	1		P15-20 P15-21					.10 .10	NO NO		12 12	
A 40	1		P200-21 P200-23					.10 .10	NO NO		13 13	
A 41	1		P15-23 P15-24					.10 .10	NO NO		12 12	
A 42	1		P200-24 P200-25					.10 .10	NO NO		13 13	
A 43	1		P15-25 P15-27					.10 .10	NO NO		12 12	
A 44	1		P200-27 P200-28					.10 .10	NO NO		13 13	
A 45	1		P15-28 P15-31					.10 .10	NO NO		12 12	
A 46	1		P200-31 P200-32					.10 .10	NO NO		13 13	
A 47	1		P15-32 P15-33					.10 .10	NO NO		12 12	
A 48	1		P200-33 P200-35					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 9 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35					.10	NO		12	
			P15-36					.10	NO		12	
A 50	1		P200-36					.10	NO		13	
			P201-2					.10	NO		13	
A 51	1		P16-2					.10	NO		12	
			P16-25					.10	NO		12	
A 52	1		P201-25					.10	NO		13	
			P201-26					.10	NO		13	
A 53	1		P16-26					.10	NO		12	
			P16-33					.10	NO		12	
A 54	1		P201-33					.10	NO		13	
			P201-34					.10	NO		13	
A 55	1		P16-34					.10	NO		12	
			P17-1					.10	NO		12	
A 56	1		P202-1					.10	NO		13	
			P202-2					.10	NO		13	
A 57	1		P17-2					.10	NO		12	
			P17-3					.10	NO		12	
A 58	1		P202-3					.10	NO		13	
			P202-4					.10	NO		13	
A 59	1		P17-4					.10	NO		12	
			P17-5					.10	NO		12	
A 60	1		P202-5					.10	NO		13	
			P202-6					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 10 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6					.10	NO		12	
			P17-9					.10	NO		12	
A 62	1		P202-9					.10	NO		13	
			P202-10					.10	NO		13	
A 63	1		P17-10					.10	NO		12	
			P17-12					.10	NO		12	
A 64	1		P202-12					.10	NO		13	
			P202-13					.10	NO		13	
A 65	1		P17-13					.10	NO		12	
			P17-17					.10	NO		12	
A 66	1		P202-17					.10	NO		13	
			P202-18					.10	NO		13	
A 67	1		P17-18					.10	NO		12	
			P18-1					.10	NO		12	
A 68	1		P203-1					.10	NO		13	
			P203-2					.10	NO		13	
A 69	1		P18-2					.10	NO		12	
			P18-3					.10	NO		12	
A 70	1		P203-3					.10	NO		13	
			P203-6					.10	NO		13	
A 71	1		P18-6					.10	NO		12	
			P18-7					.10	NO		12	
A 72	1		P203-7					.10	NO		13	
			P203-8					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 11 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8					.10	NO		12	
			P18-9					.10	NO		12	
A 74	1		P203-9					.10	NO		13	
			P203-10					.10	NO		13	
A 75	1		P18-10					.10	NO		12	
			P18-11					.10	NO		12	
A 76	1		P203-11					.10	NO		13	
			P203-12					.10	NO		13	
A 77	1		P18-12					.10	NO		12	
			P18-13					.10	NO		12	
A 78	1		P203-13					.10	NO		13	
			P203-14					.10	NO		13	
A 79	1		P18-14					.10	NO		12	
			P18-15					.10	NO		12	
A 80	1		P203-15					.10	NO		13	
			P203-20					.10	NO		13	
A 81	1		P18-20					.10	NO		12	
			P18-21					.10	NO		12	
A 82	1		P203-21					.10	NO		13	
			P203-23					.10	NO		13	
A 83	1		P18-23					.10	NO		12	
			P18-25					.10	NO		12	
A 84	1		P203-25					.10	NO		13	
			P203-26					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 12 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26					.10	NO		12	
			P18-33					.10	NO		12	
A 86	1		P203-33					.10	NO		13	
			P203-34					.10	NO		13	
A 87	1		P18-34					.10	NO		12	
			P18-35					.10	NO		12	
A 88	1		P203-35					.10	NO		13	
			P203-36					.10	NO		13	
A 89	1		P18-36					.10	NO		12	
			P19-1					.10	NO		12	
A 90	1		P204-1					.10	NO		13	
			P204-2					.10	NO		13	
A 91	1		P19-2					.10	NO		12	
			P19-9					.10	NO		12	
A 92	1		P204-9					.10	NO		13	
			P204-10					.10	NO		13	
A 93	1		P19-10					.10	NO		12	
			P19-11					.10	NO		12	
A 94	1		P204-11					.10	NO		13	
			P204-13					.10	NO		13	
A 95	1		P19-13					.10	NO		12	
			P19-14					.10	NO		12	
A 96	1		P204-14					.10	NO		13	
			P204-17					.10	NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 13 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P19-17 P19-18					.10 .10	NO NO		12 12	
A 98	1		P204-18 P204-19					.10 .10	NO NO		13 13	
A 99	1		P19-19 P19-20					.10 .10	NO NO		12 12	
A 100	1		P204-20 P204-21					.10 .10	NO NO		13 13	
A 101	1		P19-21 P19-23					.10 .10	NO NO		12 12	
A 102	1		P204-23 P204-24					.10 .10	NO NO		13 13	
A 103	1		P19-24 P19-27					.10 .10	NO NO		12 12	
A 104	1		P204-27 P204-28					.10 .10	NO NO		13 13	
A 105	1		P19-28 P20-5					.10 .10	NO NO		12 12	
A 106	1		P205-16 P205-6					.10 .10	NO NO		13 13	
A 107	1		P20-6 P20-7					.10 .10	NO NO		12 12	
A 108	1		P205-7 P205-8					.10 .10	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 14 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P20-8 P20-13					.10 .10	NO NO		12 12	
A 110	1		P205-13 P205-14					.10 .10	NO NO		13 13	
A 111	1		P20-14 P20-19					.10 .10	NO NO		12 12	
A 112	1		P205-19 P205-20					.10 .10	NO NO		13 13	
A 113	1		P20-20 P20-21					.10 .10	NO NO		12 12	
A 114	1		P205-21 P205-27					.10 .10	NO NO		13 13	
A 115	1		P20-27 P20-28					.10 .10	NO NO		12 12	
A 116	1		P205-28 P205-35					.10 .10	NO NO		13 13	
A 117	1		P20-35 P20-36					.10 .10	NO NO		12 12	
A 118	1		P205-36 P197-28					.10 .10	NO NO		13 13	
A 119	1		P12-28 P12-27					.10 .10	NO NO		12 12	
A 120	1		E8 P14-1					.37 .10	NO NO		 12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 15 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P197-27 P197-36					.10 .10	NO NO		13 13	
A 122	1		P12-36 P12-35					.10 .10	NO NO		12 12	
A 123	1		P197-35 P203-17					.10 .10	NO NO		13 13	
A 124	1		P18-17 P18-18					.10 .10	NO NO		12 12	
A 125	1		P203-18 P203-19					.10 .10	NO NO		13 13	
A 126	1		P18-19 P18-24					.10 .10	NO NO		12 12	
A 127	1		P203-24 P203-27					.10 .10	NO NO		13 13	
A 128	1		P18-27 P18-28					.10 .10	NO NO		12 12	
A 129	1		P203-28 P205-18					.10 .10	NO NO		13 13	
A 130	1		P2-F* P201-35					.22 .10	NO NO		14 13	
A 131	1		P2-G* P201-36					.22 .10	NO NO		14 13	
A 132	1		P2-H* P16-35					.22 .10	NO NO		14 12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 16 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P2-I* P16-36					.22 .10	NO NO		14 12	
A 134	1		P4-A P202-14					.22 .10	NO NO		14 13	
A 135	1		P4-B P202-15					.22 .10	NO NO		14 13	
A 136	1		P4-C P17-14					.22 .10	NO NO		14 12	
A 137	1		P4-D P17-15					.22 .10	NO NO		14 12	
A 138	1		P4-M P199-18					.22 .10	NO NO		14 13	
A 139	1		P4-S P199-19					.22 .10	NO NO		14 13	
A 140	1		P4-T P11-23					.22 .10	NO NO		14 12	
A 141	1		P4-U E2					.22 .37	NO NO		14	
A 142	1		P4-W P199-20					.22 .10	NO NO		14 13	
A 143	1		P4-X P11-24					.22 .10	NO NO		14 12	
A 144	1		P4-A* P199-21					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 17 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P4-B* P11-31					.22 .10	NO NO		14 12	
A 146	1		P4-E* P199-22					.22 .10	NO NO		14 13	
A 147	1		P4-T* P2-V					.22 .22	NO NO		14 14	
A 148	1		P4-U* P2-W					.22 .22	NO NO		14 14	
A 149	1		P4-V* E7					.22 .37	NO NO		14	
A 150	1		P4-W* E8					.22 .37	NO NO		14	
A 151	1		P4-X* P19-12					.22 .10	NO NO		14 12	
A 152	1		P4-Z* P11-3					.22 .10	NO NO		14 12	
A 153	1		P6-A P196-7					.22 .10	NO NO		14 13	
A 154	1		P6-B E1					.22 .37	NO NO		14	
A 155	1		P6-C P11-7					.22 .10	NO NO		14 12	
A 156	1		P6-E P196-6					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 18 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-F E1					.22 .37	NO NO		14	
A 158	1		P6-G P11-6					.22 .10	NO NO		14 12	
A 159	1		P6-J P196-13					.22 .10	NO NO		14 13	
A 160	1		P6-K E1					.22 .37	NO NO		14	
A 161	1		P6-L P11-13					.22 .10	NO NO		14 12	
A 162	1		P6-M P11-14					.22 .10	NO NO		14 12	
A 163	1		P6-N P196-20					.22 .10	NO NO		14 13	
A 164	1		P6-P P196-21					.22 .10	NO NO		14 13	
A 165	1		P6-R P11-20					.22 .10	NO NO		14 12	
A 166	1		P6-S P11-21					.22 .10	NO NO		14 12	
A 167	1		P6-T P196-27					.22 .10	NO NO		14 13	
A 168	1		P6-U P196-28					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 19 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P6-V P11-27					.22 .10	NO NO		14 12	
A 170	1		P6-W P11-28					.22 .10	NO NO		14 12	
A 171	1		P6-X P196-35					.22 .10	NO NO		14 13	
A 172	1		P6-Y P196-36					.22 .10	NO NO		14 13	
A 173	1		P6-Z P11-35					.22 .10	NO NO		14 12	
A 174	1		P6-A* P11-36					.22 .10	NO NO		14 12	
A 175	1		P6-B* P200-9					.22 .10	NO NO		14 13	
A 176	1		P6-C* P200-1					.22 .10	NO NO		14 13	
A 177	1		P6-D* P15-9					.22 .10	NO NO		14 12	
A 178	1		P6-E* P15-1					.22 .10	NO NO		 12	
A 179	1		P6-F* P200-17					.22 .10	NO NO		14 13	
A 180	1		P6-G* P200-29					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 20 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-H* P15-17					.22 .10	NO NO		14 12	
A 182	2		P6-I* P6-E*					.22 .22	NO NO		14 14	
A 183	1		P6-J* P202-7					.22 .10	NO NO		14 13	
A 184	1		P6-K* P202-8					.22 .10	NO NO		14 13	
A 185	1		P6-M* P17-7					.22 .10	NO NO		14 12	
A 186	1		P6-N* P17-8					.22 .10	NO NO		14 12	
A 187	1		P6-P* P202-20					.22 .10	NO NO		14 13	
A 188	1		P6-Q* P202-21					.22 .10	NO NO		14 13	
A 189	1		P6-R* P17-20					.22 .10	NO NO		14 12	
A 190	1		P6-S* P17-21					.22 .10	NO NO		14 12	
A 191	1		P6-T* P202-27					.22 .10	NO NO		14 13	
A 192	1		P6-U* P202-28					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 21 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-V* P17-27					.22 .10	NO NO		14 12	
A 194	1		P6-W* P17-28					.22 .10	NO NO		14 12	
A 195	1		P6-X* P202-35					.22 .10	NO NO		14 13	
A 196	1		P6-Y* P202-36					.22 .10	NO NO		14 13	
A 197	1		P6-Z* P17-35					.22 .10	NO NO		14 12	
A 198	1		P6-AA P17-36					.22 .10	NO NO		14 12	
A 199	1		P6-BB P201-20					.22 .10	NO NO		14 13	
A 200	1		P6-CC P201-21					.22 .10	NO NO		14 13	
A 201	1		P6-DD P16-20					.22 .10	NO NO		14 12	
A 202	1		P6-EE P16-21					.22 .10	NO NO		14 12	
A 203	1		P6-FF P201-27					.22 .10	NO NO		14 13	
A 204	1		P6-GG P201-28					.22 .10	NO NO		14 13	

SIZE A CODE IDENT NO. 99974 2901375

SCALE-NONE REV LTR D SHEET 22 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-HH P16-27					.22 .10	NO NO		14 12	
A 206	1		P6-JJ P16-28					.22 .10	NO NO		14 12	
A 207	1		P7-T P201-9					.22 .10	NO NO		14 13	
A 208	1		P7-U P201-1					.22 .10	NO NO		14 13	
A 209	1		P7-V P16-9					.22 .10	NO NO		14 12	
A 210	1		P7-W P16-1					.22 .10	NO NO		14 12	
A 211	1		P7-X P201-10					.22 .10	NO NO		14 13	
A 212	1		P7-Z P16-13					.22 .10	NO NO		14 12	
A 213	1		P7-B* P197-10					.22 .10	NO NO		14 13	
A 214	1		P7-C* E3					.22 .37	NO NO		14	
A 215	1		P7-D* P12-10					.22 .10	NO NO		14 12	
A 216	1		P7-E* E2					.22 .37	NO NO		14	

SIZE A CODE IDENT NO. 99974 2901375

SCALE-NONE REV LTR D SHEET 23 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P7-F* P197-17					.22 .10	NO NO		14 13	
A 218	1		P7-G* E3					.22 .37	NO NO		14	
A 219	1		P7-H* P12-17					.22 .10	NO NO		14 12	
A 220	1		P7-I* E2					.22 .37	NO NO		14	
A 221	1		P7-J* P197-18					.22 .10	NO NO		14 13	
A 222	1		P7-K* E3					.22 .37	NO NO		14	
A 223	1		P7-M* P12-18					.22 .10	NO NO		14 12	
A 224	1		P7-N* E2					.22 .37	NO NO		14	
A 225	1		P7-P* P204-5					.22 .10	NO NO		14 13	
A 226	1		P7-Q* P204-6					.22 .10	NO NO		14 13	
A 227	1		P7-R* P19-5					.22 .10	NO NO		14 12	
A 228	1		P7-S* P19-6					.22 .10	NO NO		14 12	

SIZE A CODE IDENT NO. 99974 .2901375

SCALE-NONE REV LTR D SHEET 24 OF 33

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P7-T* P204-7					.22 .10	NO NO		14 13	
A 230	1		P7-U* P204-8					.22 .10	NO NO		14 13	
A 231	1		P7-V* P19-7					.22 .10	NO NO		14 12	
A 232	1		P7-W* P19-8					.22 .10	NO NO		14 12	
A 233	1		P4-E P205-34					.22 .10	NO NO		14 13	
A 234	1		P4-F P205-26					.22 .10	NO NO		14 13	
A 235	1		P4-G P20-34					.22 .10	NO NO		14 12	
A 236	1		P4-H P20-26					.22 .10	NO NO		14 12	
A 237	2		P8-T P2-X					.22 .22	NO NO		14 14	
A 238	2		P8-U P2-Y					.22 .22	NO NO		14 14	
A 239	1		P9-A P205-5					.22 .10	NO NO		14 13	
A 240	1		P9-B E4					.22 .37	NO NO		14	

SIZE A CODE IDENT NO. 99974 2901375

SCALE-NONE REV LTR D SHEET 25 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-C P20-11					.22 .10	NO NO		14 12	
A 242	1		P9-E P205-9					.22 .10	NO NO		14 13	
A 243	1		P9-F E4					.22 .37	NO NO		14	
A 244	1		P9-G P20-10					.22 .10	NO NO		14 12	
A 245	1		P9-J P205-33					.22 .10	NO NO		14 13	
A 246	1		P9-K E4					.22 .37	NO NO		14	
A 247	1		P9-L P20-32					.22 .10	NO NO		14 12	
A 248	1		P9-M P20-31					.22 .10	NO NO		14 12	
A 249	1		P9-N P205-15					.22 .10	NO NO		14 13	
A 250	1		P9-P E4					.22 .37	NO NO		14	
A 251	1		P9-R P20-24					.22 .10	NO NO		14 12	
A 252	1		P9-T P205-12					.22 .10	NO NO		14 13	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR F	SHEET 26 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P9-U E4					.22 .37	NO NO		14	
A 254	1		P9-V P20-17					.22 .10	NO NO		14 12	
A 255	1		P9-W E5					.22 .37	NO NO		14	
A 256	1		P9-X P205-4					.22 .10	NO NO		14 13	
A 257	1		P9-Y E4					.22 .37	NO NO		14	
A 258	1		P9-Z P20-2					.22 .10	NO NO		14 12	
A 259	1		P9-A* E5					.22 .37	NO NO		14	
A 260	1		P9-M* P11-18					.22 .10	NO NO		14 12	
A 261	1		P9-P* P196-17					.22 .10	NO NO		14 13	
A 262	1		P9-Q* P196-26					.22 .10	NO NO		14 13	
A 263	1		P9-R* P11-17					.22 .10	NO NO		14 12	
A 264	1		P9-S* E8					.22 .37	NO NO		14	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 27 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P9-FF P206-A					.22 .25	NO YES		14	
A 266	1		P9-GG P206-B					.22 .25	NO YES		14	
A 267	1		P9-JJ P199-16					.22 .10	NO NO		14 13	
A 268	1		P9-NN P199-17					.22 .10	NO NO		14 13	
A 269	1		P9-J* P196-18					.22 .10	NO NO		14 13	
A 270	1		P20-18 P19-3					.10 .10	NO NO		12 12	
A 271	1		P204-3 P204-12					.10 .10	NO NO		13 13	
A 272	1		P13-7 E9					.10 .37	NO NO		12	
A 273	1		P13-8 E9					.10 .37	NO NO		12	
A 274	1		P13-15 E9					.10 .37	NO NO		12	
A 275	1		P13-16 E9					.10 .37	NO NO		12	
A 276	1		P13-21 E9					.10 .37	NO NO		12	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 28 OF 33

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P14-15 E10					.10 .37	NO NO		12	
A 278	1		P14-16 E10					.10 .37	NO NO		12	
A 279	1		P14-21 E10					.10 .37	NO NO		12	
A 280	1		P14-22 E10					.10 .37	NO NO		12	
A 281	1		P21-C* E11					.22 .37	NO NO		14	
A 282	1		P21-D* E11					.22 .37	NO NO		14	
A 283	1		P21-F* E11					.22 .37	NO NO		14	
A 284	1		P21-F* E11					.22 .37	NO NO		14	
A 285	1		P21-G* E11					.22 .37	NO NO		14	
A 286	1		P198-7 E12					.10 .37	NO NO		13	
A 287	1		P198-8 E12					.10 .37	NO NO		13	
A 288	1		P198-15 E12					.10 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901375
SCALE-NONE	REV LTR D	SHEET 29 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P198-16					.10	NO		13	
			E12					.37	NO			
A 290	1		P207-G					.25	YES			
			P8-X					.22	NO		14	
A 291	1		P207-H					.25	YES			
			P8-Y					.22	NO		14	
A 292	1		P207-M					.25	YES			
			E13					.37	NO			
A 293	1		P207-S					.25	YES			
			E13					.37	NO			
A 294	1		P207-Z					.25	YES			
			E13					.37	NO			
A 295	1		P207-Y					.25	YES			
			P2-U*					.22	NO		14	
A 296	1		P4-F*					.22	NO		14	
			P207-K					.25	YES			
A 297	1		P4-G*					.22	NO		14	
			P4-I*					.22	NO		14	
A 298	1		P4-H*					.22	NO		14	
			P207-B*					.25	YES			
A 299	1		P207-F					.25	YES			
			P21-H					.22	NO		14	
A 300	1		P21-K					.22	NO		14	
			P21-X					.22	NO		14	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	F	SHEET 30 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P207-L					.25	YES			
			P207-V					.25	YES			
A 302	1		P21-U					.22	NO		14	
			P21-M					.22	NO		14	
A 303	1		P207-B					.25	YES			
			P207-A					.25	YES			
A 304	1		P21-P					.22	NO		14	
			P21-S					.22	NO		14	
A 305	1		P207-D					.25	YES			
			P207-U					.25	YES			
A 306	1		P21-W					.22	NO		14	
			P21-Z					.22	NO		14	
A 307	1		P4-K*					.22	NO		14	
			P21-G					.22	NO		14	
A 308	1		P4-J*					.22	NO		14	
			P21-Y					.22	NO		14	
A 309	1		P21-J					.22	NO		14	
			P21-L					.22	NO		14	
A 310	1		P21-T					.22	NO		14	
			P21-N					.22	NO		14	
A 311	1		P21-R					.22	NO		14	
			P21-V					.22	NO		14	
A 312	1		P3-A					.22	NO		14	
			P198-2					.10	NO		13	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 31 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	1		P3-B					.22	NO		14	
			P198-1					.10	NO		13	
A 314	1		P3-E					.22	NO		14	
			P198-3					.10	NO		13	
A 315	2		P3-F					.22	NO		14	
			P3-B					.22	NO			
A 316	1		P3-J					.22	NO		14	
			P199-2					.10	NO		13	
A 317	1		P3-K					.22	NO		14	
			P199-1					.10	NO		13	
A 318	1		P3-N					.22	NO		14	
			P196-34					.10	NO		13	
A 319	2		P3-P					.22	NO		14	
			P9-Q*					.22	NO			
A 320	2		E2					.37	NO			
			P8-U					.22	NO			

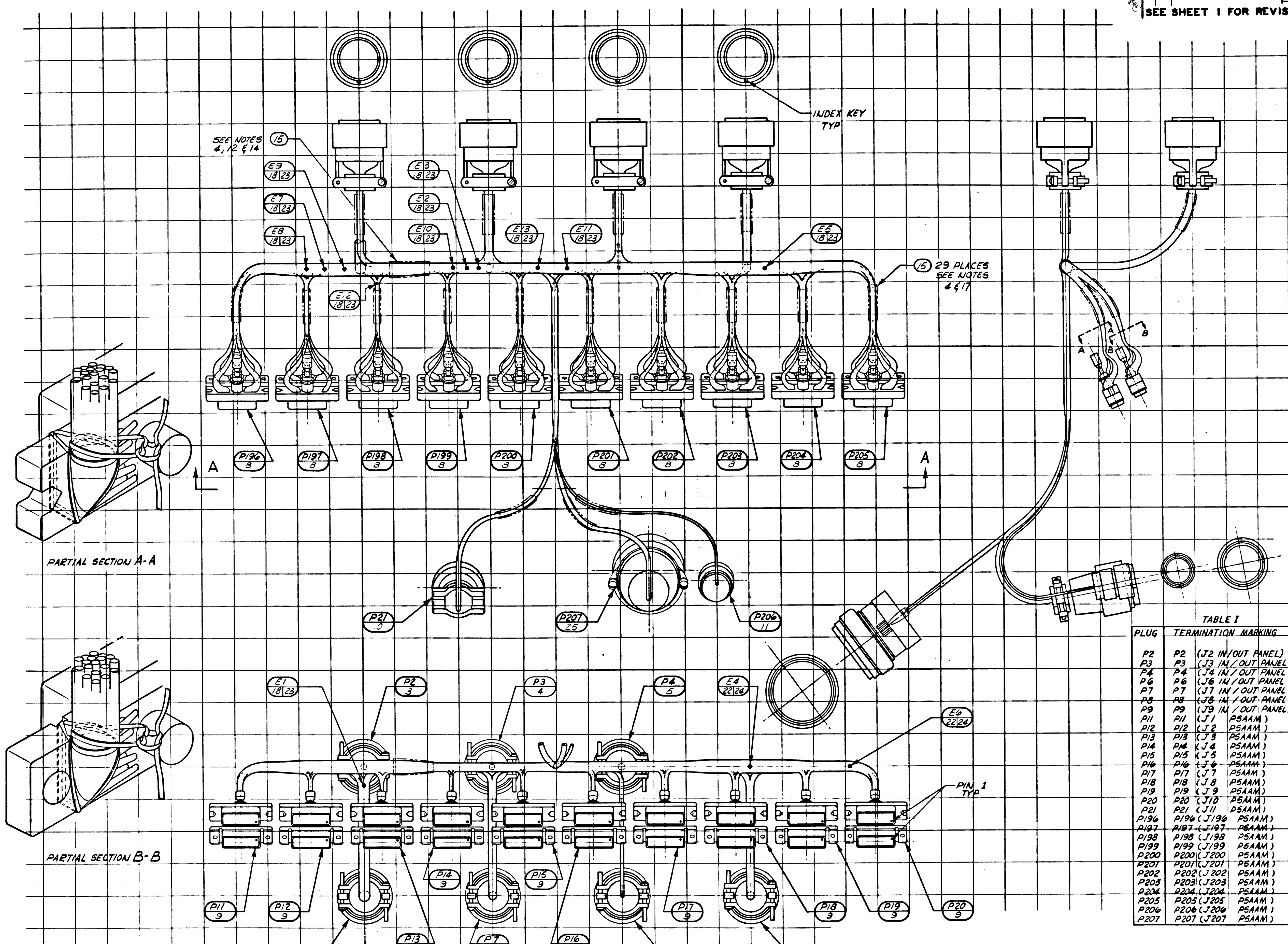
SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR	D	SHEET 32 OF 33

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD

2901375

REV LTR E



SEE NOTES 4, 12 & 14
15
INDEX KEY TYP
E9 18 23
E7 18 23
E8 18 23
E3 18 23
E2 18 23
E10 18 23
E13 18 23
E11 18 23
E5 18 23
E12 18 23
15 29 PLACES SEE NOTES 4 & 17
A
B
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
PARTIAL SECTION A-A
P21 10
P207 25
P206 11
PARTIAL SECTION B-B
E1 18 23
P2 3
P3 4
P4 5
E4 22 24
E6 22 24
PIN 1 TYP
P11 9
P12 9
P14 9
P15 9
P17 9
P18 9
P19 9
P20 9
P13 9
P7 7
P16 9
P6 5
P8 6
P9 4
VIEW A-A

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN / OUT PANEL)
P4	P4 (J4 IN / OUT PANEL)
P6	P6 (J6 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

NEXT ASSY	USED ON
2901044-011	2900895-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —— 3 PLACE DECIMALS ± —— ANGLES ± ——
DO NOT SCALE THIS DRAWING
MATERIAL ——
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN John T. Kardowski DATE 16 MAR 66
CHECKED 28 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE E
CODE IDENT NO. 99974
2901375
SCALE FULL
SHEET 33 OF 33

MX-09851

5A01312

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS				
	LTR	DESCRIPTION	DATE	APPROVED
	A	REVISED PER D.O. 61870	4 APR 66	FRW
	B	REVISED PER MXC 211539	21 APR-66	B. W.A.
(M)	C	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
(M)	D	REVISED PER TDRR 29227	8-JUN-66	B.
(M)	E	REVISED PER TDRR 30077	16 JUL 66	F
(M)	F	REVISED PER TDRR 30500	12 AUG '66	JI RW
	G	REVISED PER TDRR 30808	6 SEP 66	

28 MAR 66

REV	D	D	D	D	D	D	D	D	D	D	D	E	G	D	D	F	D	D	E
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

REV STATUS OF SHEETS															
REV	G	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN John A. Koudmake 16 MAR 66
DAY MO YR
CHECKER 28 MAR 66
ENGINEER 28 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL 5/6/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, SERIES "100" PSAAM

SIZE A
CODE IDENT. NO 99974
2901375
SCALE NONE
SHEET 1 OF 33

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 16.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 16.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK
10	SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 21 OR ITEMS 19 AND 20.
11	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8, 9 AND 11.
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	ASSEMBLE PER ND1002032.
14	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR D		SHEET 2 OF 33

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 14 SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 10.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP.
17	MARK IDENTIFICATION BANDS AS NOTED IN TABLE 1. PER ND1002019. CENTRALIZE.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR D		SHEET 3 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901375-001	WIRE ND1002181,TYPE 1 CLASS 1,22 AWG WHT 365 FEET TOTAL LENGTH
	2	1	2901375-002	WIRE ND1002181,TYPE 1 CLASS 1,24 AWG WHT 60 INCHES TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG,ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG,ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG,ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG,ELECTRICAL
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG,ELECTRICAL
7	8	10	1897169- 1	CONNECTOR,PLUG,ELECTRICAL
	9	10	2900274-001	CONNECTOR,PLUG,ELECTRICAL
	10	1	MS3126F20-41P	(1897043-410) CONNECTOR-PLUG,ELECTRICAL
	11	1	MS3106A12S-3P	(1896913-001) CONNECTOR-PLUG,ELECTRICAL
7	12	181	1010738-006	CONTACT,SOCKET
7	13	186	1010738-005	CONTACT,PIN
15	14	X	MS3192A-20A	(1896855-020) CONTACT,ELECTRICAL,PIN
7	15	30	1016128-011	BAND-IDENTIFICATION
7	16	AR	1012507-004	TAPE,LACING AND TYING

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR D		SHEET 4 OF 33

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F, FORM T BLACK, GRADE A CLASS 1	FILLER TAPE, .62 WIDE, .02 THICK
7	18	11	1016006-001	SPLICE REDUCER
	19	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	20	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	21	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	22	2	1016006-002	SPLICE REDUCER
7	23	11	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
7	24	2	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
	25	1	MS3106R32-8S	(1897107-080) CONNECTOR-PLUG,ELECTRICAL

SIZE	CODE IDENT NO.		
A	99974	2901375	
SCALE-NONE	REV LTR D		SHEET 5 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P15-35 P15-36					.10 .10	NO NO		12 12	
A 50	1		P200-36 P201-2					.10 .10	NO NO		13 13	
A 51	1		P16-2 P16-25					.10 .10	NO NO		12 12	
A 52	1		P201-25 P201-26					.10 .10	NO NO		13 13	
A 53	1		P16-26 P16-33					.10 .10	NO NO		12 12	
A 54	1		P201-33 P201-34					.10 .10	NO NO		13 13	
A 55	1		P16-34 P17-1					.10 .10	NO NO		12 12	
A 56	1		P202-1 P202-2					.10 .10	NO NO		13 13	
A 57	1		P17-2 P17-3					.10 .10	NO NO		12 12	
A 58	1		P202-3 P202-4					.10 .10	NO NO		13 13	
A 59	1		P17-4 P17-5					.10 .10	NO NO		12 12	
A 60	1		P202-5 P202-6					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P17-6 P17-9					.10 .10	NO NO		12 12	
A 62	1		P202-9 P202-10					.10 .10	NO NO		13 13	
A 63	1		P17-10 P17-12					.10 .10	NO NO		12 12	
A 64	1		P202-12 P202-13					.10 .10	NO NO		13 13	
A 65	1		P17-13 P17-17					.10 .10	NO NO		12 12	
A 66	1		P202-17 P202-18					.10 .10	NO NO		13 13	
A 67	1		P17-18 P18-1					.10 .10	NO NO		12 12	
A 68	1		P203-1 P203-2					.10 .10	NO NO		13 13	
A 69	1		P18-2 P18-3					.10 .10	NO NO		12 12	
A 70	1		P203-3 P203-6					.10 .10	NO NO		13 13	
A 71	1		P18-6 P18-7					.10 .10	NO NO		12 12	
A 72	1		P203-7 P203-8					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P18-8 P18-9					.10 .10	NO NO		12 12	
A 74	1		P203-9 P203-10					.10 .10	NO NO		13 13	
A 75	1		P18-10 P18-11					.10 .10	NO NO		12 12	
A 76	1		P203-11 P203-12					.10 .10	NO NO		13 13	
A 77	1		P18-12 P18-13					.10 .10	NO NO		12 12	
A 78	1		P203-13 P203-14					.10 .10	NO NO		13 13	
A 79	1		P18-14 P18-15					.10 .10	NO NO		12 12	
A 80	1		P203-15 P203-20					.10 .10	NO NO		13 13	
A 81	1		P18-20 P18-21					.10 .10	NO NO		12 12	
A 82	1		P203-21 P203-23					.10 .10	NO NO		13 13	
A 83	1		P18-23 P18-25					.10 .10	NO NO		12 12	
A 84	1		P203-25 P203-26					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P18-26 P18-33					.10 .10	NO NO		12 12	
A 86	1		P203-33 P203-34					.10 .10	NO NO		13 13	
A 87	1		P18-34 P18-35					.10 .10	NO NO		12 12	
A 88	1		P203-35 P203-36					.10 .10	NO NO		13 13	
A 89	1		P18-36 P19-1					.10 .10	NO NO		12 12	
A 90	1		P204-1 P204-2					.10 .10	NO NO		13 13	
A 91	1		P19-2 P19-9					.10 .10	NO NO		12 12	
A 92	1		P204-9 P204-10					.10 .10	NO NO		13 13	
A 93	1		P19-10 P19-11					.10 .10	NO NO		12 12	
A 94	1		P204-11 P204-13					.10 .10	NO NO		13 13	
A 95	1		P19-13 P19-14					.10 .10	NO NO		12 12	
A 96	1		P204-14 P204-17					.10 .10	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901375
SCALE-NONE
REV LTR D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P4-B* P11-31					.22 .10	NO NO		14 12	
A 146	1		P4-E* P199-22					.22 .10	NO NO		14 13	
A 147	1		P4-T* P2-V					.22 .22	NO NO		14 14	
A 148	1		P4-U* P2-W					.22 .22	NO NO		14 14	
A 149	1		P4-V* E7					.22 .37	NO NO		14	
A 150	1		P4-W* E8					.22 .37	NO NO		14	
A 151	1		P4-X* P19-12					.22 .10	NO NO		14 12	
A 152	1		P4-Z* P11-3					.22 .10	NO NO		14 12	
A 153	1		P6-A P196-7					.22 .10	NO NO		14 13	
A 154	1		P6-B E1					.22 .37	NO NO		14	
A 155	1		P6-C P11-7					.22 .10	NO NO		14 12	
A 156	1		P6-E P196-6					.22 .10	NO NO		14 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-F E1					.22 .37	NO NO		14	
A 158	1		P6-G P11-6					.22 .10	NO NO		14 12	
A 159	1		P6-J P196-13					.22 .10	NO NO		14 13	
A 160	1		P6-K E1					.22 .37	NO NO		14	
A 161	1		P6-L P11-13					.22 .10	NO NO		14 12	
A 162	1		P6-M P11-14					.22 .10	NO NO		14 12	
A 163	1		P6-N P196-20					.22 .10	NO NO		14 13	
A 164	1		P6-P P196-21					.22 .10	NO NO		14 13	
A 165	1		P6-R P11-20					.22 .10	NO NO		14 12	
A 166	1		P6-S P11-21					.22 .10	NO NO		14 12	
A 167	1		P6-T P196-27					.22 .10	NO NO		14 13	
A 168	1		P6-U P196-28					.22 .10	NO NO		14 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P6-V P11-27					.22 .10	NO NO		14 12	
A 170	1		P6-W P11-28					.22 .10	NO NO		14 12	
A 171	1		P6-X P196-35					.22 .10	NO NO		14 13	
A 172	1		P6-Y P196-36					.22 .10	NO NO		14 13	
A 173	1		P6-Z P11-35					.22 .10	NO NO		14 12	
A 174	1		P6-A* P11-36					.22 .10	NO NO		14 12	
A 175	1		P6-B* P200-9					.22 .10	NO NO		14 13	
A 176	1		P6-C* P200-1					.22 .10	NO NO		14 13	
A 177	1		P6-D* P15-9					.22 .10	NO NO		14 12	
A 178	1		P6-E* P15-1					.22 .10	NO NO		 12	
A 179	1		P6-F* P200-17					.22 .10	NO NO		14 13	
A 180	1		P6-G* P200-29					.22 .10	NO NO		14 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P6-H* P15-17					.22 .10	NO NO		14 12	
A 182	2		P6-I* P6-E*					.22 .22	NO NO		14 14	
A 183	1		P6-J* P202-7					.22 .10	NO NO		14 13	
A 184	1		P6-K* P202-8					.22 .10	NO NO		14 13	
A 185	1		P6-M* P17-7					.22 .10	NO NO		14 12	
A 186	1		P6-N* P17-8					.22 .10	NO NO		14 12	
A 187	1		P6-P* P202-20					.22 .10	NO NO		14 13	
A 188	1		P6-Q* P202-21					.22 .10	NO NO		14 13	
A 189	1		P6-R* P17-20					.22 .10	NO NO		14 12	
A 190	1		P6-S* P17-21					.22 .10	NO NO		14 12	
A 191	1		P6-T* P202-27					.22 .10	NO NO		14 13	
A 192	1		P6-U* P202-28					.22 .10	NO NO		14 13	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P6-V* P17-27					.22 .10	NO NO		14 12	
A 194	1		P6-W* P17-28					.22 .10	NO NO		14 12	
A 195	1		P6-X* P202-35					.22 .10	NO NO		14 13	
A 196	1		P6-Y* P202-36					.22 .10	NO NO		14 13	
A 197	1		P6-Z* P17-35					.22 .10	NO NO		14 12	
A 198	1		P6-AA P17-36					.22 .10	NO NO		14 12	
A 199	1		P6-BB P201-20					.22 .10	NO NO		14 13	
A 200	1		P6-CC P201-21					.22 .10	NO NO		14 13	
A 201	1		P6-DD P16-20					.22 .10	NO NO		14 12	
A 202	1		P6-EE P16-21					.22 .10	NO NO		14 12	
A 203	1		P6-FF P201-27					.22 .10	NO NO		14 13	
A 204	1		P6-GG P201-28					.22 .10	NO NO		14 13	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 22 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P6-HH P16-27					.22 .10	NO NO		14 12	
A 206	1		P6-JJ P16-28					.22 .10	NO NO		14 12	
A 207	1		P7-T P201-9					.22 .10	NO NO		14 13	
A 208	1		P7-U P201-1					.22 .10	NO NO		14 13	
A 209	1		P7-V P16-9					.22 .10	NO NO		14 12	
A 210	1		P7-W P16-1					.22 .10	NO NO		14 12	
A 211	1		P7-X P201-10					.22 .10	NO NO		14 13	
A 212	1		P7-Z P16-10					.22 .10	NO NO		14 12	
A 213	1		P7-B* P197-10					.22 .10	NO NO		14 13	
A 214	1		P7-C* E3					.22 .37	NO NO		14	
A 215	1		P7-D* P12-10					.22 .10	NO NO		14 12	
A 216	1		P7-E* E2					.22 .37	NO NO		14	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 23 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P7-F* P197-17					.22 .10	NO NO		14 13	
A 218	1		P7-G* E3					.22 .37	NO NO		14	
A 219	1		P7-H* P12-17					.22 .10	NO NO		14 12	
A 220	1		P7-I* E2					.22 .37	NO NO		14	
A 221	1		P7-J* P197-18					.22 .10	NO NO		14 13	
A 222	1		P7-K* E3					.22 .37	NO NO		14	
A 223	1		P7-M* P12-18					.22 .10	NO NO		14 12	
A 224	1		P7-N* E2					.22 .37	NO NO		14	
A 225	1		P7-P* P204-5					.22 .10	NO NO		14 13	
A 226	1		P7-Q* P204-6					.22 .10	NO NO		14 13	
A 227	1		P7-R* P19-5					.22 .10	NO NO		14 12	
A 228	1		P7-S* P19-6					.22 .10	NO NO		14 12	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 24 OF 33

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P7-T* P204-7					.22 .10	NO NO		14 13	
A 230	1		P7-U* P204-8					.22 .10	NO NO		14 13	
A 231	1		P7-V* P19-7					.22 .10	NO NO		14 12	
A 232	1		P7-W* P19-8					.22 .10	NO NO		14 12	
A 233	1		P4-E P205-34					.22 .10	NO NO		14 13	
A 234	1		P4-F P205-26					.22 .10	NO NO		14 13	
A 235	1		P4-G P20-34					.22 .10	NO NO		14 12	
A 236	1		P4-H P20-26					.22 .10	NO NO		14 12	
A 237	2		P8-T P2-X					.22 .22	NO NO		14 14	
A 238	2		P8-U P2-Y					.22 .22	NO NO		14 14	
A 239	1		P9-A P205-5					.22 .10	NO NO		14 13	
A 240	1		P9-B E4					.22 .37	NO NO		14	

SIZE A | CODE IDENT NO. 99974 | 2901375

SCALE-NONE | REV LTR D | SHEET 25 OF 33

CABLE ASSEMBLY 2901375 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P9-C P20-11					.22 .10	NO NO		14 12	
A 242	1		P9-F P205-9					.22 .10	NO NO		14 13	
A 243	1		P9-F E4					.22 .37	NO NO		14	
A 244	1		P9-G P20-10					.22 .10	NO NO		14 12	
A 245	1		P9-J P205-33					.22 .10	NO NO		14 13	
A 246	1		P9-K E4					.22 .37	NO NO		14	
A 247	1		P9-L P20-32					.22 .10	NO NO		14 12	
A 248	1		P9-M P20-31					.22 .10	NO NO		14 12	
A 249	1		P9-N P205-15					.22 .10	NO NO		14 13	
A 250	1		P9-P E4					.22 .37	NO NO		14	
A 251	1		P9-R P20-24					.22 .10	NO NO		14 12	
A 252	1		P9-T P205-12					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR F	SHEET 26 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
A 253	1		P9-U E4					.22 .37	NO NO		14		A
A 254	1		P9-V P20-17					.22 .10	NO NO		14 12		A
A 255	1		P2-W* E5					.22 .37	NO NO		14		A
A 256	1		P9-X P205-4					.22 .10	NO NO		14 13		A
A 257	1		P9-Y E4					.22 .37	NO NO		14		A
A 258	1		P9-Z P20-2					.22 .10	NO NO		14 12		A
A 259	1		P2-B E5					.22 .37	NO NO		14		A
A 260	1		P9-M* P11-18					.22 .10	NO NO		14 12		A
A 261	1		P9-P* P196-17					.22 .10	NO NO		14 13		A
A 262	1		P9-Q* P196-26					.22 .10	NO NO		14 13		A
A 263	1		P9-R* P11-17					.22 .10	NO NO		14 12		A
A 264	1		P9-S* E8					.22 .37	NO NO		14		A

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR G	SHEET 27 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 265	1		P9-FF P206-A					.22 .25	NO YES		14	
A 266	1		P9-GG P206-B					.22 .25	NO YES		14	
A 267	1		P9-JJ P199-16					.22 .10	NO NO		14 13	
A 268	1		P9-NN P199-17					.22 .10	NO NO		14 13	
A 269	1		P9-J* P196-18					.22 .10	NO NO		14 13	
A 270	1		P20-18 P19-3					.10 .10	NO NO		12 12	
A 271	1		P204-3 P204-12					.10 .10	NO NO		13 13	
A 272	1		P13-7 E9					.10 .37	NO NO		12	
A 273	1		P13-8 E9					.10 .37	NO NO		12	
A 274	1		P13-15 E9					.10 .37	NO NO		12	
A 275	1		P13-16 E9					.10 .37	NO NO		12	
A 276	1		P13-21 E9					.10 .37	NO NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 28 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 277	1		P14-15 E10					.10 .37	NO NO		12	
A 278	1		P14-16 E10					.10 .37	NO NO		12	
A 279	1		P14-21 E10					.10 .37	NO NO		12	
A 280	1		P14-22 E10					.10 .37	NO NO		12	
A 281	1		P21-C* E11					.22 .37	NO NO		14	
A 282	1		P21-D* E11					.22 .37	NO NO		14	
A 283	1		P21-E* E11					.22 .37	NO NO		14	
A 284	1		P21-F* E11					.22 .37	NO NO		14	
A 285	1		P21-G* E11					.22 .37	NO NO		14	
A 286	1		P198-7 E12					.10 .37	NO NO		13	
A 287	1		P198-8 E12					.10 .37	NO NO		13	
A 288	1		P198-15 E12					.10 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 29 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 289	1		P198-16 E12					.10 .37	NO NO		13	
A 290	1		P207-G P8-X					.25 .22	YES NO		 14	
A 291	1		P207-H P8-Y					.25 .22	YES NO		 14	
A 292	1		P207-M E13					.25 .37	YES NO			
A 293	1		P207-S E13					.25 .37	YES NO			
A 294	1		P207-Z E13					.25 .37	YES NO			
A 295	1		P207-Y P2-U*					.25 .22	YES NO		 14	
A 296	1		P4-F* P207-K					.22 .25	NO YES		14	
A 297	1		P4-G* P4-I*					.22 .22	NO NO		14 14	
A 298	1		P4-H* P207-B*					.22 .25	NO YES		14	
A 299	1		P207-F P21-H					.25 .22	YES NO		 14	
A 300	1		P21-K P21-X					.22 .22	NO NO		14 14	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR F	SHEET 30 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 301	1		P207-L P207-V					.25 .25	YES YES			
A 302	1		P21-U P21-M					.22 .22	NO NO		14 14	
A 303	1		P207-B P207-A					.25 .25	YES YES			
A 304	1		P21-P P21-S					.22 .22	NO NO		14 14	
A 305	1		P207-D P207-U					.25 .25	YES YES			
A 306	1		P21-W P21-Z					.22 .22	NO NO		14 14	
A 307	1		P4-K* P21-G					.22 .22	NO NO		14 14	
A 308	1		P4-J* P21-Y					.22 .22	NO NO		14 14	
A 309	1		P21-J P21-L					.22 .22	NO NO		14 14	
A 310	1		P21-T P21-N					.22 .22	NO NO		14 14	
A 311	1		P21-R P21-V					.22 .22	NO NO		14 14	
A 312	1		P3-A P198-2					.22 .10	NO NO		14 13	

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 31 OF 33

MIL 2084 9-65

CABLE ASSEMBLY 2901375 D

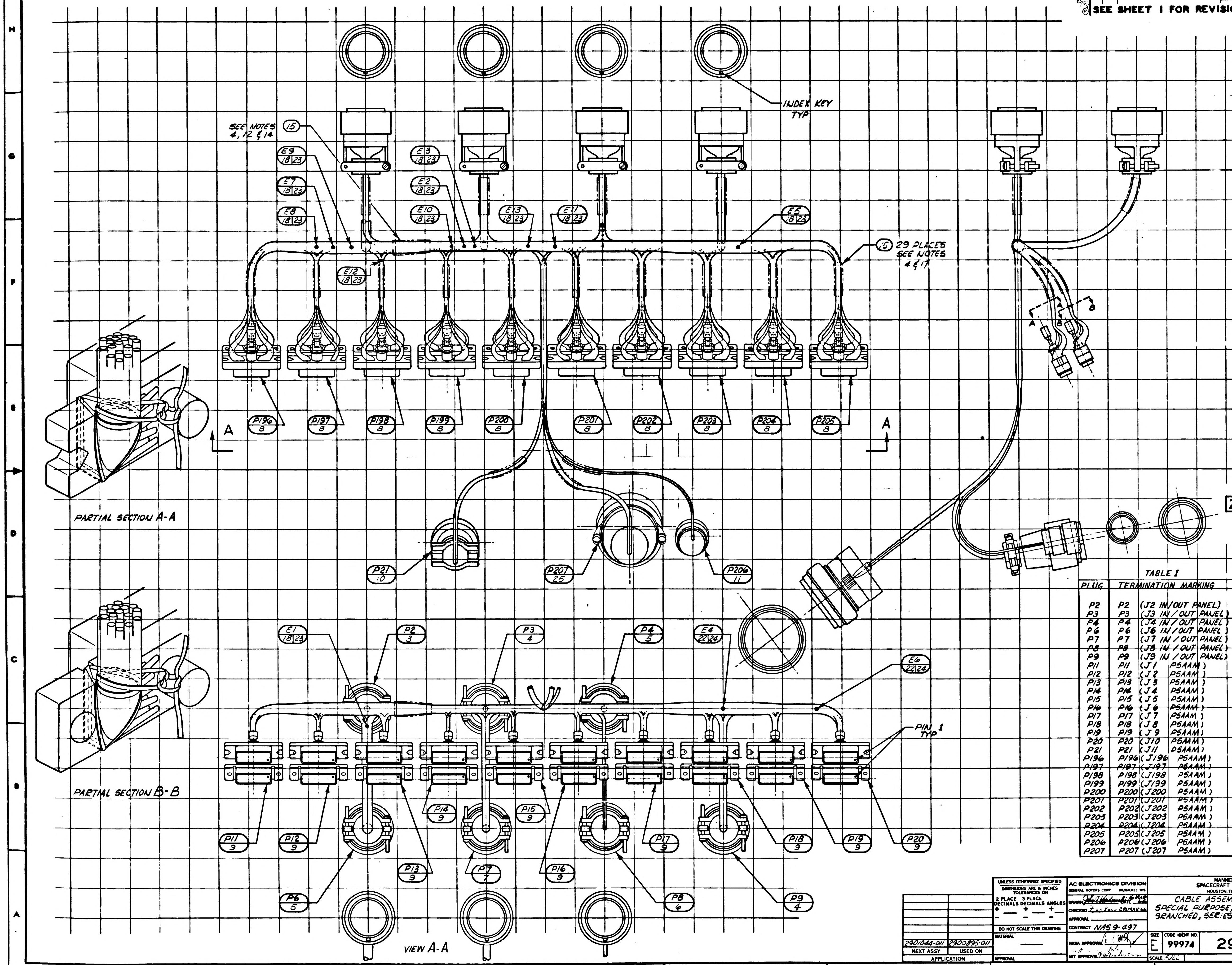
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 313	1		P3-B P198-1					.22 .10	NO NO		14 13	
A 314	1		P3-E P198-3					.22 .10	NO NO		14 13	
A 315	2		P3-F P3-B					.22 .22	NO NO		14	
A 316	1		P3-J P199-2					.22 .10	NO NO		14 13	
A 317	1		P3-K P199-1					.22 .10	NO NO		14 13	
A 318	1		P3-N P196-34					.22 .10	NO NO		14 13	
A 319	2		P3-P P9-Q*					.22 .22	NO NO		14	
A 320	2		E2 P8-U					.37 .22	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901375
SCALE-NONE	REV LTR D	SHEET 32 OF 33

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD


INDEX KEY TYP
SEE NOTES 4, 12 & 14
15
E9 18 23
E7 18 23
E8 18 23
E3 18 23
E2 18 23
E10 18 23
E13 18 23
E11 18 23
E5 18 23
E12 18 23
15 29 PLACES SEE NOTES 4 & 17
A
B
P196 8
P197 8
P198 8
P199 8
P200 8
P201 8
P202 8
P203 8
P204 8
P205 8
A
A
PARTIAL SECTION A-A
P21 10
P207 25
P206 11
E1 18 23
P2 3
P3 4
P4 5
E4 22 24
E6 22 24
PIN 1 TYP
PARTIAL SECTION B-B
P11 9
P12 9
P13 9
P14 9
P15 9
P16 9
P7 7
P17 9
P18 9
P19 9
P20 9
P6 5
P8 6
P9 4
VIEW A-A

2901375
REV LTR E

TABLE I

PLUG	TERMINATION MARKING
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 IN / OUT PANEL)
P4	P4 (J4 IN / OUT PANEL)
P6	P6 (J6 IN / OUT PANEL)
P7	P7 (J7 IN / OUT PANEL)
P8	P8 (J8 IN / OUT PANEL)
P9	P9 (J9 IN / OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 PSAAM)
P13	P13 (J3 PSAAM)
P14	P14 (J4 PSAAM)
P15	P15 (J5 PSAAM)
P16	P16 (J6 PSAAM)
P17	P17 (J7 PSAAM)
P18	P18 (J8 PSAAM)
P19	P19 (J9 PSAAM)
P20	P20 (J10 PSAAM)
P21	P21 (J11 PSAAM)
P196	P196 (J196 PSAAM)
P197	P197 (J197 PSAAM)
P198	P198 (J198 PSAAM)
P199	P199 (J199 PSAAM)
P200	P200 (J200 PSAAM)
P201	P201 (J201 PSAAM)
P202	P202 (J202 PSAAM)
P203	P203 (J203 PSAAM)
P204	P204 (J204 PSAAM)
P205	P205 (J205 PSAAM)
P206	P206 (J206 PSAAM)
P207	P207 (J207 PSAAM)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ___
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 16 MAR 66
CHECKED 28 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE, ELECTRICAL,
BRANCHED, SERIES "100" PSAAM

SIZE E
CODE IDENT NO. 99974
2901375
SCALE FULL
SHEET 33 OF 33

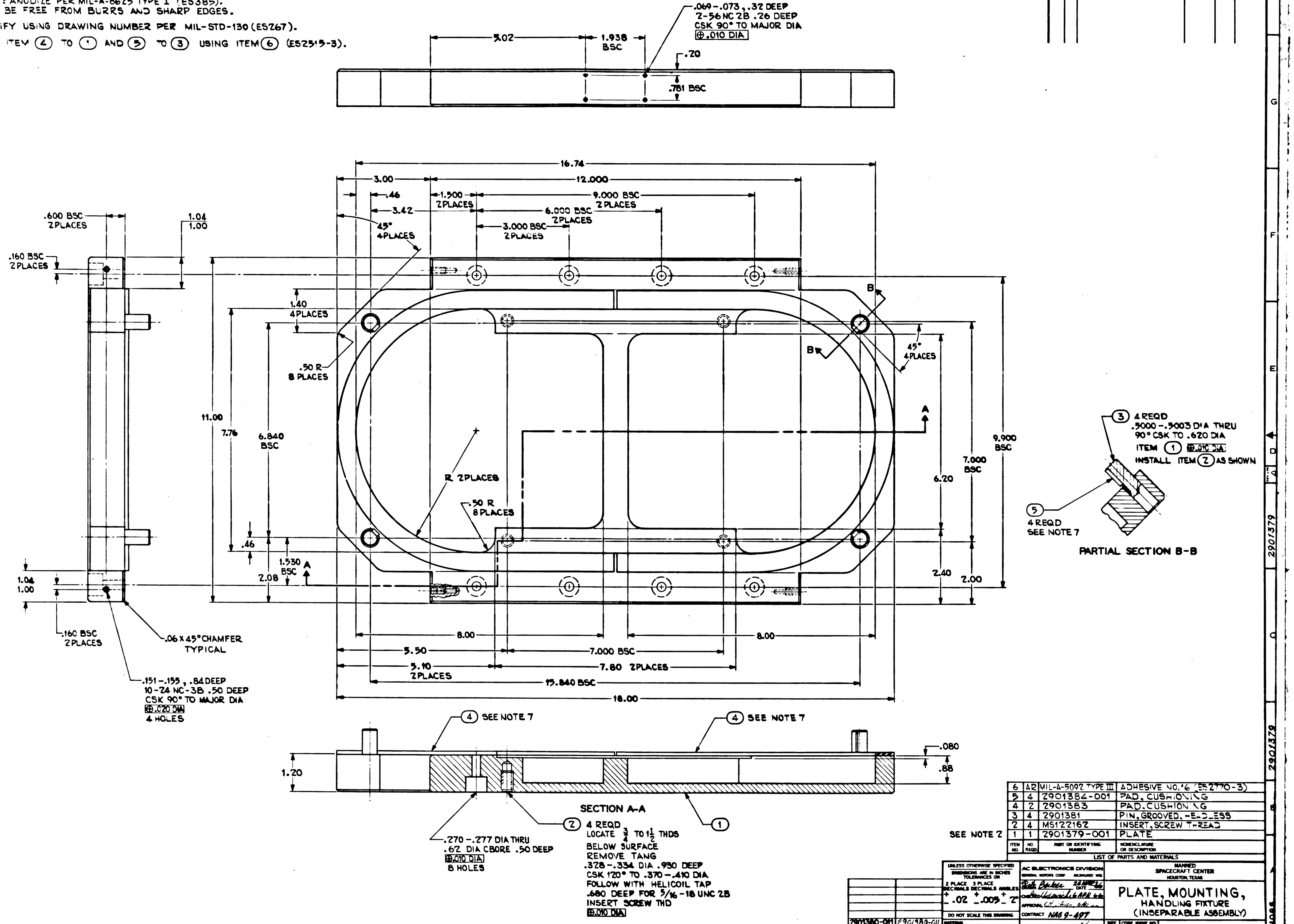
MX-10981

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-250/11 TEMPER T6-51 AL ALY (ES2106 TYPE 6061).
3. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 125√.
4. FINISH: ANODIZE PER MIL-A-8625 TYPE I (ES385).
5. MUST BE FREE FROM BURRS AND SHARP EDGES.
6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
7. BOND ITEM ④ TO ① AND ⑤ TO ③ USING ITEM ⑥ (ES2515-3).

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 2E 756		26 APRIL 66	



.069-.073, .32 DEEP
2-56 NC 2B .26 DEEP
CSK 90° TO MAJOR DIA
⊕.010 DIA
5.02
1.938 BSC
.70
.781 BSC
16.74
3.00
12.000
.46
1.500 2 PLACES
9.000 BSC 2 PLACES
3.42
6.000 BSC 2 PLACES
3.000 BSC 2 PLACES
45° 4 PLACES
.600 BSC 2 PLACES
1.04
1.00
.160 BSC 2 PLACES
1.40 4 PLACES
B
B
45° 4 PLACES
.50 R 8 PLACES
11.00
7.76
6.840 BSC
R 2 PLACES
.50 R 8 PLACES
A
A
9.900 BSC
7.000 BSC
6.20
.46
1.530 BSC
2.08
2.40
2.00
1.04
1.00
.160 BSC 2 PLACES
.06 X 45° CHAMFER TYPICAL
.151-.155, .84 DEEP
10-24 NC-3B .50 DEEP
CSK 90° TO MAJOR DIA
⊕.020 DIA
4 HOLES
8.00
8.00
5.50
7.000 BSC
5.10 2 PLACES
7.80 2 PLACES
15.840 BSC
18.00
③ 4 REQD
.5000-.5003 DIA THRU
90° CSK TO .620 DIA
ITEM ① ⊕.010 DIA
INSTALL ITEM ② AS SHOWN
⑤ 4 REQD
SEE NOTE 7
PARTIAL SECTION B-B
④ SEE NOTE 7
④ SEE NOTE 7
.080
.88
1.20
SECTION A-A
.270-.277 DIA THRU
.62 DIA CBORE .50 DEEP
⊕.010 DIA
8 HOLES
② 4 REQD
LOCATE 3/4 TO 1 1/2 THDS
BELOW SURFACE
REMOVE TANG
.328-.334 DIA .930 DEEP
CSK 120° TO .370-.410 DIA
FOLLOW WITH HELICOIL TAP
.680 DEEP FOR 5/16-18 UNC 2B
INSERT SCREW THD
⊕.010 DIA
①

SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
6	AR	MIL-A-5092 TYPE III	ADHESIVE NO. 6 (ES2770-3)
5	4	2901384-001	PAD, CUSHIONING
4	2	2901383	PAD, CUSHIONING
3	4	2901381	PIN, GROOVED, HEADLESS
2	4	MS122162	INSERT, SCREW THREAD
1	1	2901379-001	PLATE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901380-011	2901380-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R. L. Barker DATE 24 MAR 66
CHECKED Udovich 6 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, MOUNTING, HANDLING FIXTURE (INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901379
SCALE FULL
SHEET 1 OF 1

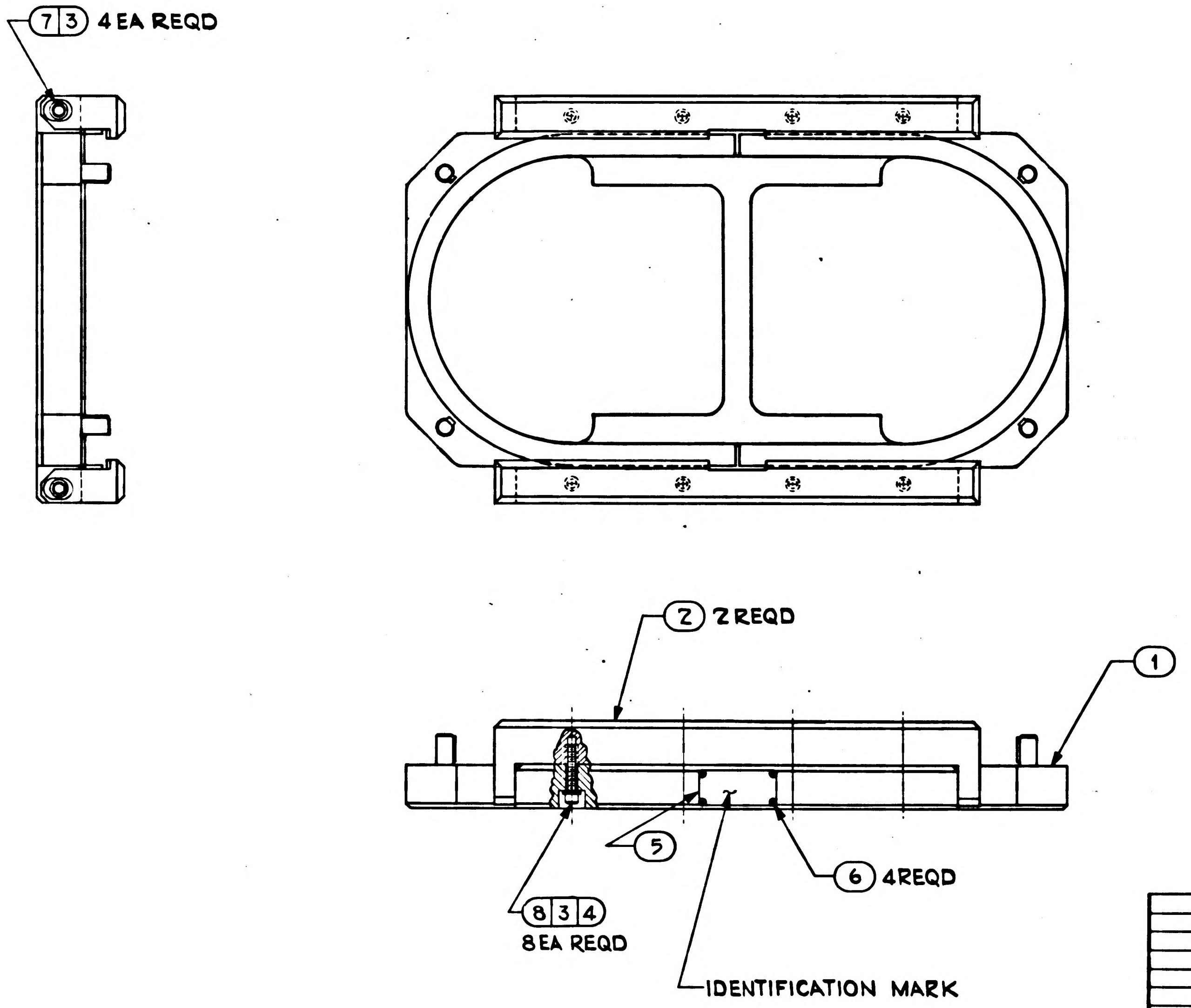
6 APR 66

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" AND APPLICABLE DASH NO. PER MIL-STD-130 (ES267).

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER D061931		14 APR 66	RWR
	B	INITIAL RELEASE CLASS A PER TDRR 28730		26 APRIL 66	



			8	8	MS16997-63	SCREW, CAP-CYLINDRICAL SOCKET
			4	7	MS51975-1	SCREW, SHOULDERED-SOC. HD.
			4	6	MS35216-2	SCREW, MACHINE, PAN HD.
			1	5	1004260-517	NAMEPLATE
			8	4	MS35338-82	WASHER, LOCK
			12	3	AN960C416L	WASHER, FLAT
			2	2	2901382	BRACKET (INSEP ASSY)
			1	1	2901379	PLATE, MTG. (INSEP ASSY)
			011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

2901380

APPLICABLE DASH NO.	NEXT ASSY	USED ON
-011	1900030	1900030
	APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___
3 PLACE DECIMALS ± ___
ANGLES ± ___

DO NOT SCALE THIS DRAWING

MATERIAL ———

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN R. H. Baker DATE 30 MAR 66
CHECKED G. Uldrich 6 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5 12 66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS INSTALLATION HANDLING FIXTURE ASSEMBLY

SIZE D
CODE IDENT NO. 99974
2901380
SCALE 1:2
SHEET 1 OF 1

(CONT.) J1 CONNECTOR, RECEPTACLE MS3127E24-61P

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J1-N	J76	A942L	~~SPARE~~ LOW VDC LO		
J1-P	J75	A942R	~~SPARE~~ LOW VDC HIGH		
J1-R	J2-U*	A 801	PRODUCT GROUND		
J1-S	E2	A 802	SHIELD GROUND		
J1-T	E1	A 803	CHASSIS GROUND		
J1-U	J2-T*	A 804	VAR RESISTOR GROUND		
J1-V	J2-T	A 811R	2V 3200 CPS HI		
J1-W	J2-U	A 811L	2V 3200 CPS LO		
J1-X	J2-V	A 812R	3200 CPS EXCITATION HI		
J1-Y	J2-W	A 812L	3200 CPS EXCITATION LO		
J1-Z	J2-R	A 813R	800 CPS EXCITATION NO.2 HI		
J1-A*	J2-S	A 813L	800 CPS EXCITATION NO.2 LO		
J1-B*	J2-N	A 814R	800 CPS EXCITATION NO. 1 HI		
J1-C*	J2-P	A 814L	800 CPS EXCITATION NO. 1 LO		
J1-D*	P71-3	A 936	X BAR OUTPUT HI		
J1-E*	P71-4	A 937	X BAR OUTPUT LO		
J1-F*	P71-1	A 934	X BAR INPUT HI		
J1-G*	P71-2	A 935	X BAR INPUT LO		
J1-H*	J2-Z	A 805	2-23 VDC HI		
J1-I*	J2-A*	A 806	2-23 VDC LO		
J1-J*	J2-M*	A 807	28 VDC HI		
J1-K*	J2-N*	A 808	28 VDC LO		
J1-M*	J2-X	A 809	2-32 VDC HI		
J1-N*	J2-Y	A 810	2-32 VDC LO		
J1-P*	A1H0-3	A 885	X BAR INTERLOCK (UNITS)		
J1-Q*	A1H0-2	A 875	X BAR HOLD (UNITS)		
J1-R*	A1S0-3	A 865	X BAR INTERLOCK (TENS)		
J1-S*	A1S0-2	A 855	X BAR SELECT (TENS)		
J1-T*	E3	A 895	X BAR GROUND		
J1-U*	A1S9-A*	A 834	X BAR COMMAND TENS DIGIT 9		
J1-V*	A1S8-A*	A 833	X BAR COMMAND TENS DIGIT 8		
J1-W*	A1S7-A*	A 832	X BAR COMMAND TENS DIGIT 7		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B ~~A~~	SHEET 20 OF 89

(CONT.) J1 CONNECTOR, RECEPTACLE MS3127E24-61P

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J1-X*	A1S6-A*	A 831	X BAR COMMAND TENS DIGIT 6		
J1-Y*	A1S5-A*	A 830	X BAR COMMAND TENS DIGIT 5		
J1-Z*	A1S4-A*	A 829	X BAR COMMAND TENS DIGIT 4		
J1-AA	A1S3-A*	A 828	X BAR COMMAND TENS DIGIT 3		
J1-BB	A1S2-A*	A 827	X BAR COMMAND TENS DIGIT 2		
J1-CC	A1S1-A*	A 826	X BAR COMMAND TENS DIGIT 1		
J1-DD	A1S0-A*	A 825	X BAR COMMAND TENS DIGIT 0		
J1-EE	A1H9-A*	A 824	X BAR COMMAND UNITS DIGIT 9		
J1-FF	A1H8-A*	A 823	X BAR COMMAND UNITS DIGIT 8		
J1-GG	A1H7-A*	A 822	X BAR COMMAND UNITS DIGIT 7		
J1-HH	A1H6-A*	A 821	X BAR COMMAND UNITS DIGIT 6		
J1-JJ	A1H5-A*	A 820	X BAR COMMAND UNITS DIGIT 5		
J1-KK	A1H4-A*	A 819	X BAR COMMAND UNITS DIGIT 4		
J1-LL	A1H3-A*	A 818	X BAR COMMAND UNITS DIGIT 3		
J1-MM	A1H2-A*	A 817	X BAR COMMAND UNITS DIGIT 2		
J1-NN	A1H1-A*	A 816	X BAR COMMAND UNITS DIGIT 1		
J1-PP	A1H0-A*	A 815	X BAR COMMAND UNITS DIGIT 0		

J2 CONNECTOR, RECEPTACLE MS3127E24-61SZ

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J2-A	J12-H	A 405	CHANNEL 40-3		
J2-B	J12-L	A 406	CHANNEL 40-4		
J2-C	J12-F	A 403	CHANNEL 40-5		
J2-D	J12-M	A 404	CHANNEL 40-6		
J2-E	J12-U	A 409	CHANNEL 41-3		
J2-F	J12-X	A 410	CHANNEL 41-4		
J2-G	J12-T	A 411	CHANNEL 41-5		
J2-H	J12-Y	A 412	CHANNEL 41-6		
J2-J	J13-H	A 415	CHANNEL 42-3		
J2-K	J13-L	A 416	CHANNEL 42-4		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 21 OF 89

(CONT.) J2 CONNECTOR, RECEPTACLE MS3127E24-61SZ

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J2-L	J13-F	A 417	CHANNEL 42-5		
J2-M	J13-M	A 418	CHANNEL 42-6		
J2-N	J1-B*	A 814R	800 CPS EXCITATION NO.1 HI		
J2-P	J1-C*	A 814L	800 CPS EXCITATION NO.1 LO		
J2-R	J1-Z	A 813R	800 CPS EXCITATION NO.2 HI		
J2-S	J1-A*	A 813L	800 CPS EXCITATION NO.2 LO		
J2-T	J1-V	A 811R	2V 3200 CPS HI		
J2-U	J1-W	A 811L	2V 3200 CPS LO		
J2-V	J1-X	A 812R	3200 CPS EXCITATION HI		
J2-W	J1-Y	A 812L	3200 CPS EXCITATION LO		
J2-X	J1-M*	A 809	2-32 VDC HI		
J2-X	J29-Y	A 938	2-32 VDC HI		
J2-Y	J1-N*	A 810	2-32 VDC LO		
J2-Z	J1-H*	A 805	2-23 VDC HI		
J2-A*	J1-I*	A 806	2-23 VDC LO		
J2-B*	J15-H	A 439	CHANNEL 46-3		
J2-C*	J15-L	A 440	CHANNEL 46-4		
J2-D*	J15-F	A 441	CHANNEL 46-5		
J2-E*	J15-M	A 442	CHANNEL 46-6		
J2-F*	J25-M	A 585	CHANNEL 15-3		
J2-G*	J25-N	A 586	CHANNEL 15-4		
J2-H*	J17-B	A 503	CHANNEL 15-5		
J2-I*	J17-D	A 504	CHANNEL 15-6		
J2-J*	J13-U	A 421	CHANNEL 43-3		
J2-K*	J13-X	A 422	CHANNEL 43-4		
J2-M*	J1-J*	A 807	28 VDC HI		
J2-N*	J1-K*	A 808	28 VDC LO		
J2-P*			SPARE		
J2-Q*			SPARE		
J2-R*			SPARE		
J2-S*			SPARE		
J2-T*	J1-U	A 804	VAR RESISTOR GROUND		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 22 OF 89

(CONT.) J2 CONNECTOR, RECEPTACLE MS3127E24-61SZ

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J2-U*	J1-R	A 801	PRODUCT GROUND		
J2-V*	J14-U	A 433	CHANNEL 45-3		
J2-W*	J14-X	A 434	CHANNEL 45-4		
J2-X*	J14-T	A 435	CHANNEL 45-5		
J2-Y*	J14-Y	A 436	CHANNEL 45-6		
J2-Z*	J13-T	A 423	CHANNEL 43-5		
J2-AA	J13-Y	A 424	CHANNEL 43-6		
J2-BB	J29-Z	A 939	BUFFERED 2-32 VDC		
J2-CC			SPARE		
J2-DD			SPARE		
J2-EE			SPARE		
J2-FF			SPARE		
J2-GG	J14-H	A 427	CHANNEL 44-3		
J2-HH	J14-L	A 428	CHANNEL 44-4		
J2-JJ	J14-F	A 429	CHANNEL 44-5		
J2-KK	J14-M	A 430	CHANNEL 44-6		
J2-LL	J25-P	A 587	CHANNEL 16-3		
J2-MM	J25-R	A 588	CHANNEL 16-4		
J2-NN	J17-F	A 505	CHANNEL 16-5		
J2-PP	J17-J	A 506	CHANNEL 16-6		

J3 CONNECTOR, RECEPTACLE MS3127E24-61SW

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J3-A	J25-S	A 589	CHANNEL 17-3		
J3-B	J25-T	A 590	CHANNEL 17-4		
J3-C	J17-L	A 507	CHANNEL 17-5		
J3-D	J17-N	A 508	CHANNEL 17-6		
J3-E	J25-U	A 591	CHANNEL 18-3		
J3-F	J25-V	A 592	CHANNEL 18-4		
J3-G	J17-R	A 509	CHANNEL 18-5		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 23 OF 89

(CONT.) J3 CONNECTOR, RECEPTACLE MS3127E24-61SW

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J3-H	J17-T	A 510	CHANNEL 18-6		
J3-J	J25-W	A 593	CHANNEL 19-3		
J3-K	J25-X	A 594	CHANNEL 19-4		
J3-L	J17-V	A 511	CHANNEL 19-5		
J3-M	J17-X	A 512	CHANNEL 19-6		
J3-N	J25-Y	A 595	CHANNEL 20-3		
J3-P	J25-Z	A 596	CHANNEL 20-4		
J3-R	J18-B	A 513	CHANNEL 20-5		
J3-S	J18-C	A 514	CHANNEL 20-2		
J3-T	J26-C	A 597	CHANNEL 21-3		
J3-U	J26-D	A 598	CHANNEL 21-4		
J3-V	J18-H	A 515	CHANNEL 21-5		
J3-W	J18-K	A 516	CHANNEL 21-6		
J3-X	J26-E	A 599	CHANNEL 22-3		
J3-Y	J26-F	A 600	CHANNEL 22-4		
J3-Z	J18-M	A 517	CHANNEL 22-5		
J3-A*	J18-P	A 518	CHANNEL 22-6		
J3-B*	J26-H	A 601	CHANNEL 23-3		
J3-C*	J26-J	A 602	CHANNEL 23-4		
J3-D*	J18-S	A 519	CHANNEL 23-5		
J3-E*	J18-U	A 520	CHANNEL 23-6		
J3-F*	J26-L	A 603	CHANNEL 24-3		
J3-G*	J26-M	A 604	CHANNEL 24-4		
J3-H*	J18-W	A 521	CHANNEL 24-5		
J3-I*	J18-Y	A 522	CHANNEL 24-6		
J3-J*	J26-N	A 605	CHANNEL 25-3		
J3-K*	J26-P	A 606	CHANNEL 25-4		
J3-M*	J19-B	A 523	CHANNEL 25-5		
J3-N*	J19-D	A 524	CHANNEL 25-6		
J3-P*	J32-J	A 705	CHANNEL 87-3		
J3-Q*	J32-K	A 706	CHANNEL 87-4		
J3-R*	J37-V	A 775	CHANNEL 87-5		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 24 OF 89	

(CONT.) J3 CONNECTOR, RECEPTACLE MS3127E24-61SW

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J3-S*	J37-W	A 776	CHANNEL 87-2		
J3-T*	J32-M	A 707	CHANNEL 88-7		
J3-U*	J32-N	A 708	CHANNEL 88-4		
J3-V*	J37-Y	A 777	CHANNEL 88-5		
J3-W*	J37-Z	A 778	CHANNEL 88-2		
J3-X*	J32-S	A 709	CHANNEL 89-7		
J3-Y*	J32-T	A 710	CHANNEL 89-4		
J3-Z*	J38-B	A 779	CHANNEL 89-5		
J3-AA	J38-C	A 780	CHANNEL 89-2		
J3-BB	J38-S	A 785	CHANNEL 97-7		
J3-CC	J38-T	A 786	CHANNEL 97-4		
J3-DD	J39-K	A 795	CHANNEL 97-5		
J3-EE	J39-M	A 796	CHANNEL 97-6		
J3-FF	J38-W	A 787	CHANNEL 98-7		
J3-GG	J38-X	A 788	CHANNEL 98-4		
J3-HH	J39-P	A 797	CHANNEL 98-5		
J3-JJ	J39-S	A 798	CHANNEL 98-6		
J3-KK	J38-Y	A 789	CHANNEL 99-3		
J3-LL	J38-Z	A 790	CHANNEL 99-4		
J3-MM	J39-U	A 799	CHANNEL 99-5		
J3-NN	J39-W	A 800	CHANNEL 99-6		
J3-PP			SPARE		

J4 CONNECTOR, RECEPTACLE MS3127E24-61S

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J4-A	J24-Y	A 573	CHANNEL 9-7		
J4-B	J24-Z	A 574	CHANNEL 9-4		
J4-C	J11-V	A 491	CHANNEL 9-5		
J4-D	J11-X	A 492	CHANNEL 9-6		
J4-E	J27-T	A 627	CHANNEL 37-3		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 25 OF 89	

(CONT.) J4 CONNECTOR, RECEPTACLE MS3127E24-61S

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J4-F	J27-U	A 628	CHANNEL 37-4		
J4-G	J23-K	A 547	CHANNEL 37-5		
J4-H	J23-L	A 548	CHANNEL 37-2		
J4-J	J29-H	A 659	CHANNEL 77-3		
J4-K	J29-J	A 660	CHANNEL 77-4		
J4-L	J36-L	A 761	CHANNEL 77-5		
J4-M	J36-N	A 762	CHANNEL 77-6		
J4-N	J29-K	A 661	CHANNEL 78-3		
J4-P	J29-L	A 662	CHANNEL 78-4		
J4-R	J36-R	A 763	CHANNEL 78-5		
J4-S	J36-U	A 764	CHANNEL 78-6		
J4-T	J29-M	A 663	CHANNEL 79-3		
J4-U	J29-N	A 664	CHANNEL 79-4		
J4-V	J36-W	A 765	CHANNEL 79-5		
J4-W	J36-Y	A 766	CHANNEL 79-6		
J4-X	J29-P	A 665	CHANNEL 80-3		
J4-Y	J29-R	A 666	CHANNEL 80-4		
J4-Z	J37-B	A 767	CHANNEL 80-5		
J4-A*	J37-D	A 768	CHANNEL 80-6		
J4-B*	J29-S	A 667	CHANNEL 81-3		
J4-C*	J29-T	A 668	CHANNEL 81-4		
J4-D*	J37-F	A 769	CHANNEL 81-5		
J4-E*	J37-J	A 770	CHANNEL 81-6		
J4-F*	J29-U	A 669	CHANNEL 85-3		
J4-G*	J29-V	A 670	CHANNEL 85-4		
J4-H*	J37-L	A 771	CHANNEL 85-5		
J4-I*	J37-N	A 772	CHANNEL 85-6		
J4-J*	J29-W	A 671	CHANNEL 86-3		
J4-K*	J29-X	A 672	CHANNEL 86-4		
J4-M*	J37-R	A 773	CHANNEL 86-5		
J4-N*	J37-T	A 774	CHANNEL 86-6		
J4-P*	J30-R	A 677	CHANNEL 83-7		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 26 OF 89	

(CONT.) J4 CONNECTOR, RECEPTACLE MS3127E24-61S

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J4-Q*	J30-S	A 678	CHANNEL 83-4		
J4-R*	J30-K	A 679	CHANNEL 83-5		
J4-S*	J30-M	A 680	CHANNEL 83-6		
J4-T*	J31-B	A 685	CHANNEL 91-3		
J4-U*	J31-D	A 686	CHANNEL 91-4		
J4-V*	J31-F	A 687	CHANNEL 91-5		
J4-W*	J31-E	A 688	CHANNEL 91-6		
J4-X*	J32-F	A 701	CHANNEL 84-7		
J4-Y*	J32-H	A 702	CHANNEL 84-4		
J4-Z*	J32-B	A 703	CHANNEL 84-5		
J4-AA	J32-D	A 704	CHANNEL 84-6		
J4-BB			SPARE		
J4-CC			SPARE		
J4-DD			SPARE		
J4-EE			SPARE		
J4-FF			SPARE		
J4-GG			SPARE		
J4-HH			SPARE		
J4-JJ			SPARE		
J4-KK			SPARE		
J4-LL			SPARE		
J4-MM			SPARE		
J4-NN			SPARE		
J4-PP			SPARE		

J5 CONNECTOR, RECEPTACLE MS3127E24-61SX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J5-A	J30-V	A 681	CHANNEL 90-3		
J5-B	J30-X	A 682	CHANNEL 90-4		
J5-C	J30-Z	A 683	CHANNEL 90-5		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 27 OF 89	

J7 CONNECTOR, RECEPTACLE MS3127E24-61SX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J7-A	J26-R	A 607	CHANNEL 26-3		
J7-B	J26-S	A 608	CHANNEL 26-4		
J7-C	J19-F	A 525	CHANNEL 26-5		
J7-D	J19-J	A 526	CHANNEL 26-6		
J7-E	J26-T	A 609	CHANNEL 27-3		
J7-F	J26-U	A 610	CHANNEL 27-4		
J7-G	J19-L	A 527	CHANNEL 27-5		
J7-H	J19-N	A 528	CHANNEL 27-6		
J7-J	J26-V	A 611	CHANNEL 28-3		
J7-K	J26-W	A 612	CHANNEL 28-4		
J7-L	J19-R	A 529	CHANNEL 28-5		
J7-M	J19-T	A 530	CHANNEL 28-6		
J7-N	J26-X	A 613	CHANNEL 29-3		
J7-P	J26-Y	A 614	CHANNEL 29-4		
J7-R	J19-V	A 531	CHANNEL 29-5		
J7-S	J19-X	A 532	CHANNEL 29-6		
J7-T	J27-A	A 615	CHANNEL 30-3		
J7-U	J27-B	A 616	CHANNEL 30-4		
J7-V	J22-B	A 533	CHANNEL 30-5		
J7-W	J22-D	A 534	CHANNEL 30-6		
J7-X	J27-C	A 617	CHANNEL 31-3		
J7-Y	J27-D	A 618	CHANNEL 31-4		
J7-Z	J22-F	A 535	CHANNEL 31-5		
J7-A*	J22-K	A 536	CHANNEL 31-6		
J7-B*	J27-E	A 619	CHANNEL 32-3		
J7-C*	J27-F	A 620	CHANNEL 32-4		
J7-D*	J22-M	A 537	CHANNEL 32-5		
J7-E*	J22-P	A 538	CHANNEL 32-6		
J7-F*	J27-H	A 621	CHANNEL 33-3		
J7-G*	J27-J	A 622	CHANNEL 33-4		
J7-H*	J22-S	A 539	CHANNEL 33-5		
J7-I*	J22-U	A 540	CHANNEL 33-6		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 32 OF 89

(CONT.) J7 CONNECTOR, RECEPTACLE MS3127E24-61SX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J7-J*	J27-K	A 623	CHANNEL 34-3		
J7-K*	J27-L	A 624	CHANNEL 34-4		
J7-M*	J22-W	A 541	CHANNEL 34-5		
J7-N*	J22-Y	A 542	CHANNEL 34-6		
J7-P*	J27-M	A 625	CHANNEL 35-3		
J7-Q*	J27-N	A 626	CHANNEL 35-4		
J7-R*	J23-B	A 543	CHANNEL 35-5		
J7-S*	J23-C	A 544	CHANNEL 35-2		
J7-T*	J23-W	A 553	CHANNEL 36-7		
J7-U*	J23-X	A 554	CHANNEL 36-4		
J7-V*	J23-E	A 545	CHANNEL 36-5		
J7-W*	J23-H	A 546	CHANNEL 36-6		
J7-X*	J27-V	A 629	CHANNEL 38-3		
J7-Y*	J27-W	A 630	CHANNEL 38-4		
J7-Z*	J23-N	A 549	CHANNEL 38-5		
J7-AA	J23-R	A 550	CHANNEL 38-6		
J7-BB	J27-X	A 631	CHANNEL 39-3		
J7-CC	J27-Y	A 632	CHANNEL 39-4		
J7-DD	J23-T	A 551	CHANNEL 39-5		
J7-EE	J23-U	A 552	CHANNEL 39-2		
J7-FF	J38-K	A 781	CHANNEL 95-3		
J7-GG	J38-L	A 782	CHANNEL 95-4		
J7-HH	J39-B	A 791	CHANNEL 95-5		
J7-JJ	J39-C	A 792	CHANNEL 95-2		
J7-KK	J38-N	A 783	CHANNEL 96-7		
J7-LL	J38-P	A 784	CHANNEL 96-4		
J7-MM	J39-E	A 793	CHANNEL 96-5		
J7-NN	J39-H	A 794	CHANNEL 96-6		
J7-PP			SPARE		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 33 OF 89

J8 CONNECTOR, RECEPTACLE MS3127E24-61SY

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J8-A	J15-U	A 445	CHANNEL 47-3		
J8-B	J15-X	A 446	CHANNEL 47-4		
J8-C	J15-T	A 447	CHANNEL 47-5		
J8-D	J15-Y	A 448	CHANNEL 47-6		
J8-E	J20-H	A 451	CHANNEL 48-3		
J8-F	J20-L	A 452	CHANNEL 48-4		
J8-G	J20-F	A 453	CHANNEL 48-5		
J8-H	J20-M	A 454	CHANNEL 48-6		
J8-J	J21-F	A 463	CHANNEL 49-3		
J8-K	J21-K	A 464	CHANNEL 49-4		
J8-L	J21-E	A 465	CHANNEL 49-5		
J8-M	J21-L	A 466	CHANNEL 49-6		
J8-N	J21-T	A 469	CHANNEL 50-3		
J8-P	J21-W	A 470	CHANNEL 50-4		
J8-R	J21-S	A 471	CHANNEL 50-5		
J8-S	J21-X	A 472	CHANNEL 50-6		
J8-T	J32-Y	A 711	CHANNEL 51-3		
J8-U	J32-Z	A 712	CHANNEL 51-4		
J8-V	J32-V	A 713	CHANNEL 51-[illegible]		
J8-W	J32-X	A 714	CHANNEL 51-6		
J8-X	J33-F	A 715	CHANNEL 52-7		
J8-Y	J33-H	A 716	CHANNEL 52-4		
J8-Z	J33-B	A 717	CHANNEL 52-5		
J8-A*	J33-D	A 718	CHANNEL 52-6		
J8-B*	J33-P	A 719	CHANNEL 53-7		
J8-C*	J33-R	A 720	CHANNEL 53-4		
J8-D*	J33-K	A 721	CHANNEL 53-5		
J8-E*	J33-M	A 722	CHANNEL 53-6		
J8-F*	J33-X	A 723	CHANNEL 54-7		
J8-G*	J33-Y	A 724	CHANNEL 54-4		
J8-H*	J33-T	A 725	CHANNEL 54-5		
J8-I*	J33-V	A 726	CHANNEL 54-6		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 34 OF 89

(CONT.) J8 CONNECTOR, RECEPTACLE MS3127E24-61SY

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J8-J*	J34-E	A 727	CHANNEL 55-3		
J8-K*	J34-F	A 728	CHANNEL 55-4		
J8-M*	J34-B	A 729	CHANNEL 55-5		
J8-N*	J34-D	A 730	CHANNEL 55-6		
J8-P*	J34-L	A 731	CHANNEL 56-3		
J8-Q*	J34-M	A 732	CHANNEL 56-4		
J8-R*	J34-J	A 733	CHANNEL 56-5		
J8-S*	J34-K	A 734	CHANNEL 56-2		
J8-T*	J34-T	A 735	CHANNEL 57-3		
J8-U*	J34-U	A 736	CHANNEL 57-4		
J8-V*	J34-P	A 737	CHANNEL 57-5		
J8-W*	J34-R	A 738	CHANNEL 57-2		
J8-X*	J34-Y	A 739	CHANNEL 58-3		
J8-Y*	J34-Z	A 740	CHANNEL 58-4		
J8-Z*	J34-W	A 741	CHANNEL 58-5		
J8-AA	J34-X	A 742	CHANNEL 58-2		
J8-BB	J35-E	A 743	CHANNEL 59-3		
J8-CC	J35-F	A 744	CHANNEL 59-4		
J8-DD	J35-B	A 745	CHANNEL 59-5		
J8-EE	J35-D	A 746	CHANNEL 59-6		
J8-FF	J35-M	A 747	CHANNEL 60-3		
J8-GG	J35-N	A 748	CHANNEL 60-4		
J8-HH	J35-J	A 749	CHANNEL 60-5		
J8-JJ	J35-L	A 750	CHANNEL 60-6		
J8-KK	J35-U	A 751	CHANNEL 61-3		
J8-LL	J35-V	A 752	CHANNEL 61-4		
J8-MM	J35-R	A 753	CHANNEL 61-5		
J8-NN	J35-T	A 754	CHANNEL 61-6		
J8-PP			SPARE		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 35 OF 89

P54 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P54-1	J10-R	A 79	CHANNEL 03-1		
P54-2	J10-T	A 80	CHANNEL 03-2		
P54-3	J24-H	A 161	CHANNEL 03-3		
P54-4			SPARE		
P54-5			SPARE		
P54-6	J24-K	A 162	CHANNEL 03-4		
P54-7	J16-R	A 99	CHANNEL 13-1		
P54-8	J16-T	A 100	CHANNEL 13-2		
P54-9	J25-H	A 181	CHANNEL 13-3		
P54-10			SPARE		
P54-11			SPARE		
P54-12	J25-J	A 182	CHANNEL 13-4		
P54-13	J18-R	A 119	CHANNEL 23-1		
P54-14	J18-T	A 120	CHANNEL 23-2		
P54-15	J26-H	A 201	CHANNEL 23-3		
P54-16			SPARE		
P54-17			SPARE		
P54-18	J26-J	A 202	CHANNEL 23-4		
P54-19	J22-R	A 139	CHANNEL 33-1		
P54-20	J22-T	A 140	CHANNEL 33-2		
P54-21	J27-H	A 221	CHANNEL 33-3		
P54-22			SPARE		
P54-23			SPARE		
P54-24	J27-J	A 222	CHANNEL 33-4		
P54-25	J13-P	A 21	CHANNEL 43-1		
P54-26	J13-W	A 22	CHANNEL 43-2		
P54-27	J13-U	A 23	CHANNEL 43-3		
P54-28			SPARE		
P54-29			SPARE		
P54-30	J13-X	A 24	CHANNEL 43-4		

SIZE A	CODE IDENT NO. 99974	2901391	
SCALE-NONE	REV LTR	B	SHEET 72 OF 89

P55 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P55-1	J10-V	A 81	CHANNEL 04-1		
P55-2	J10-X	A 82	CHANNEL 04-2		
P55-3	J24-L	A 163	CHANNEL 04-3		
P55-4			SPARE		
P55-5			SPARE		
P55-6	J24-M	A 164	CHANNEL 04-4		
P55-7	J16-V	A 101	CHANNEL 14-1		
P55-8	J16-X	A 102	CHANNEL 14-2		
P55-9	J25-K	A 183	CHANNEL 14-3		
P55-10			SPARE		
P55-11			SPARE		
P55-12	J25-L	A 184	CHANNEL 14-4		
P55-13	J18-V	A 121	CHANNEL 24-1		
P55-14	J18-X	A 122	CHANNEL 24-2		
P55-15	J26-L	A 203	CHANNEL 24-3		
P55-16			SPARE		
P55-17			SPARE		
P55-18	J26-M	A 204	CHANNEL 24-4		
P55-19	J22-V	A 141	CHANNEL 34-1		
P55-20	J22-X	A 142	CHANNEL 34-2		
P55-21	J27-K	A 223	CHANNEL 34-3		
P55-22			SPARE		
P55-23			SPARE		
P55-24	J27-L	A 224	CHANNEL 34-4		
P55-25	J14-C	A 29	CHANNEL 44-1		
P55-26	J14-K	A 30	CHANNEL 44-2		
P55-27	J14-H	A 31	CHANNEL 44-3		
P55-28			SPARE		
P55-29			SPARE		
P55-30	J14-L	A 32	CHANNEL 44-4		

SIZE A	CODE IDENT NO. 99974	2901391	
SCALE-NONE	REV LTR	B	SHEET 73 OF 89

P56 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P56-1	J11-A	A 83	CHANNEL 05-1		
P56-2	J11-C	A 84	CHANNEL 05-2		
P56-3	J24-N	A 165	CHANNEL 05-3		
P56-4			SPARE		
P56-5			SPARE		
P56-6	J24-P	A 166	CHANNEL 05-4		
P56-7	J17-A	A 103	CHANNEL 15-1		
P56-8	J17-C	A 104	CHANNEL 15-2		
P56-9	J25-M	A 185	CHANNEL 15-3		
P56-10			SPARE		
P56-11			SPARE		
P56-12	J25-N	A 186	CHANNEL 15-4		
P56-13	J19-A	A 123	CHANNEL 25-1		
P56-14	J19-C	A 124	CHANNEL 25-2		
P56-15	J26-N	A 205	CHANNEL 25-3		
P56-16			SPARE		
P56-17			SPARE		
P56-18	J26-P	A 206	CHANNEL 25-4		
P56-19	J23-A	A 143	CHANNEL 35-1		
P56-20	J23-C	A 144	CHANNEL 35-2		
P56-21	J27-M	A 225	CHANNEL 35-3		
P56-22			SPARE		
P56-23			SPARE		
P56-24	J27-N	A 226	CHANNEL 35-4		
P56-25	J14-P	A 33	CHANNEL 45-1		
P56-26	J14-W	A 34	CHANNEL 45-2		
P56-27	J14-U	A 35	CHANNEL 45-3		
P56-28			SPARE		
P56-29			SPARE		
P56-30	J14-X	A 36	CHANNEL 45-4		

SIZE A	CODE IDENT NO. 99974	2901391	
SCALE-NONE	REV LTR	B	SHEET 74 OF 89

P57 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P57-1	J11-E	A 85	CHANNEL 06-1		
P57-2	J11-H	A 86	CHANNEL 06-2		
P57-3	J24-R	A 167	CHANNEL 06-3		
P57-4			SPARE		
P57-5			SPARE		
P57-6	J24-S	A 168	CHANNEL 06-4		
P57-7	J17-E	A 105	CHANNEL 16-1		
P57-8	J17-H	A 106	CHANNEL 16-2		
P57-9	J25-P	A 187	CHANNEL 16-3		
P57-10			SPARE		
P57-11			SPARE		
P57-12	J25-R	A 188	CHANNEL 16-4		
P57-13	J19-E	A 125	CHANNEL 26-1		
P57-14	J19-H	A 126	CHANNEL 26-2		
P57-15	J26-R	A 207	CHANNEL 26-3		
P57-16			SPARE		
P57-17			SPARE		
P57-18	J26-S	A 208	CHANNEL 26-4		
P57-19	J23-D	A 145	CHANNEL 36-1		
P57-20	J23-F	A 146	CHANNEL 36-2		
P57-21	J23-V	A 153	CHANNEL 36-3		
P57-22			SPARE		
P57-23			SPARE		
P57-24	J23-X	A 154	CHANNEL 36-4		
P57-25	J15-C	A 41	CHANNEL 46-1		
P57-26	J15-K	A 42	CHANNEL 46-2		
P57-27	J15-H	A 43	CHANNEL 46-3		
P57-28			SPARE		
P57-29			SPARE		
P57-30	J15-L	A 44	CHANNEL 46-4		

SIZE A	CODE IDENT NO. 99974	2901391	
SCALE-NONE	REV LTR	B	SHEET 75 OF 89

P66 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P66-1	J38-L	A 332	CHANNEL 95-4		
P66-2			SPARE		
P66-3			SPARE		
P66-4	J38-K	A 331	CHANNEL 95-3		
P66-5	J39-C	A 392	CHANNEL 95-2		
P66-6	J39-A	A 391	CHANNEL 95-1		
P66-7	J29-V	A 270	CHANNEL 85-4		
P66-8			SPARE		
P66-9			SPARE		
P66-10	J29-U	A 269	CHANNEL 85-3		
P66-11	J37-M	A 372	CHANNEL 85-2		
P66-12	J37-K	A 371	CHANNEL 85-1		
P66-13	J29-D	A 256	CHANNEL 75-4		
P66-14			SPARE		
P66-15			SPARE		
P66-16	J29-C	A 255	CHANNEL 75-3		
P66-17	J36-C	A 358	CHANNEL 75-2		
P66-18	J36-A	A 357	CHANNEL 75-1		
P66-19	J28-J	A 240	CHANNEL 65-4		
P66-20			SPARE		
P66-21			SPARE		
P66-22	J28-H	A 239	CHANNEL 65-3		
P66-23	J12-V	A 4	CHANNEL 65-2		
P66-24	J12-N	A 3	CHANNEL 65-1		
P66-25	J34-F	A 330	CHANNEL 55-4		
P66-26			SPARE		
P66-27			SPARE		
P66-28	J34-E	A 329	CHANNEL 55-3		
P66-29	J34-C	A 328	CHANNEL 55-2		
P66-30	J34-A	A 327	CHANNEL 55-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 84 OF 89

P67 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P67-1	J38-P	A 384	CHANNEL 96-4		
P67-2			SPARE		
P67-3			SPARE		
P67-4	J38-M	A 383	CHANNEL 96-3		
P67-5	J39-F	A 394	CHANNEL 96-2		
P67-6	J39-D	A 393	CHANNEL 96-1		
P67-7	J29-X	A 272	CHANNEL 86-4		
P67-8			SPARE		
P67-9			SPARE		
P67-10	J29-W	A 271	CHANNEL 86-3		
P67-11	J37-S	A 374	CHANNEL 86-2		
P67-12	J37-P	A 373	CHANNEL 86-1		
P67-13	J29-F	A 258	CHANNEL 76-4		
P67-14			SPARE		
P67-15			SPARE		
P67-16	J29-E	A 257	CHANNEL 76-3		
P67-17	J36-H	A 360	CHANNEL 76-2		
P67-18	J36-F	A 359	CHANNEL 76-1		
P67-19	J28-M	A 242	CHANNEL 66-4		
P67-20			SPARE		
P67-21			SPARE		
P67-22	J28-K	A 241	CHANNEL 66-3		
P67-23	J14-J	A 26	CHANNEL 66-2		
P67-24	J14-A	A 25	CHANNEL 66-1		
P67-25	J34-M	A 334	CHANNEL 56-4		
P67-26			SPARE		
P67-27			SPARE		
P67-28	J34-L	A 333	CHANNEL 56-3		
P67-29	J34-K	A 332	CHANNEL 56-2		
P67-30	J34-H	A 331	CHANNEL 56-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 85 OF 89

P68 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P68-1	J38-T	A 386	CHANNEL 97-4		
P68-2			SPARE		
P68-3			SPARE		
P68-4	J38-R	A 385	CHANNEL 97-3		
P68-5	J39-L	A 396	CHANNEL 97-2		
P68-6	J39-J	A 395	CHANNEL 97-1		
P68-7	J32-K	A 306	CHANNEL 87-4		
P68-8			SPARE		
P68-9			SPARE		
P68-10	J32-J	A 305	CHANNEL 87-3		
P68-11	J37-W	A 376	CHANNEL 87-2		
P68-12	J37-U	A 375	CHANNEL 87-1		
P68-13	J29-J	A 260	CHANNEL 77-4		
P68-14			SPARE		
P68-15			SPARE		
P68-16	J29-H	A 259	CHANNEL 77-3		
P68-17	J36-M	A 362	CHANNEL 77-2		
P68-18	J36-K	A 361	CHANNEL 77-1		
P68-19	J28-P	A 244	CHANNEL 67-4		
P68-20			SPARE		
P68-21			SPARE		
P68-22	J28-N	A 243	CHANNEL 67-3		
P68-23	J14-V	A 28	CHANNEL 67-2		
P68-24	J14-N	A 27	CHANNEL 67-1		
P68-25	J34-U	A 338	CHANNEL 57-4		
P68-26			SPARE		
P68-27			SPARE		
P68-28	J34-T	A 337	CHANNEL 57-3		
P68-29	J34-R	A 336	CHANNEL 57-2		
P68-30	J34-N	A 335	CHANNEL 57-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 86 OF 89

P69 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P69-1	J38-X	A 388	CHANNEL 98-4		
P69-2			SPARE		
P69-3			SPARE		
P69-4	J38-V	A 387	CHANNEL 98-3		
P69-5	J39-R	A 398	CHANNEL 98-2		
P69-6	J39-N	A 397	CHANNEL 98-1		
P69-7	J32-N	A 308	CHANNEL 88-4		
P69-8			SPARE		
P69-9			SPARE		
P69-10	J32-L	A 307	CHANNEL 88-3		
P69-11	J37-Z	A 378	CHANNEL 88-2		
P69-12	J37-X	A 377	CHANNEL 88-1		
P69-13	J29-L	A 262	CHANNEL 78-4		
P69-14			SPARE		
P69-15			SPARE		
P69-16	J29-K	A 261	CHANNEL 78-3		
P69-17	J36-S	A 364	CHANNEL 78-2		
P69-18	J36-P	A 363	CHANNEL 78-1		
P69-19	J28-S	A 246	CHANNEL 68-4		
P69-20			SPARE		
P69-21			SPARE		
P69-22	J28-R	A 245	CHANNEL 68-3		
P69-23	J15-J	A 38	CHANNEL 68-2		
P69-24	J15-B	A 37	CHANNEL 68-1		
P69-25	J34-Z	A 342	CHANNEL 58-4		
P69-26			SPARE		
P69-27			SPARE		
P69-28	J34-Y	A 341	CHANNEL 58-3		
P69-29	J34-X	A 340	CHANNEL 58-2		
P69-30	J34-V	A 339	CHANNEL 58-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 87 OF 89

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P70			CONNECTOR, PLUG 1F97389-001		
P70-1	J38-Z	A 390	CHANNEL 99-4		
P70-2			SPARE		
P70-3			SPARE		
P70-4	J38-Y	A 389	CHANNEL 99-3		
P70-5	J39-V	A 400	CHANNEL 99-2		
P70-6	J39-T	A 399	CHANNEL 99-1		
P70-7	J32-T	A 310	CHANNEL 89-4		
P70-8			SPARE		
P70-9			SPARE		
P70-10	J32-P	A 309	CHANNEL 89-3		
P70-11	J38-C	A 380	CHANNEL 89-2		
P70-12	J38-A	A 379	CHANNEL 89-1		
P70-13	J29-N	A 264	CHANNEL 79-4		
P70-14			SPARE		
P70-15			SPARE		
P70-16	J29-M	A 263	CHANNEL 79-3		
P70-17	J36-X	A 366	CHANNEL 79-2		
P70-18	J36-V	A 365	CHANNEL 79-1		
P70-19	J28-U	A 248	CHANNEL 69-4		
P70-20			SPARE		
P70-21			SPARE		
P70-22	J28-T	A 247	CHANNEL 69-3		
P70-23	J15-V	A 40	CHANNEL 69-2		
P70-24	J15-N	A 39	CHANNEL 69-1		
P70-25	J35-F	A 346	CHANNEL 59-4		
P70-26			SPARE		
P70-27			SPARE		
P70-28	J35-E	A 345	CHANNEL 59-3		
P70-29	J35-C	A 344	CHANNEL 59-2		
P70-30	J35-A	A 343	CHANNEL 59-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 88 OF 89

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P71			CONNECTOR, PLUG 2901148-001		
P71-1	J1-F*	A 934	X BAR INPUT HI		
P71-2	J1-G*	A 935	X BAR INPUT LO		
P71-3	J1-D*	A 936	X BAR OUTPUT HI		
P71-4	J1-E*	A 937	X BAR OUTPUT LO		
P71-5			SPARE		
P71-6			SPARE		
SHLD			SHIELD GROUNDING		
SHLD A811	E2	A 811A	SHIELD GROUND		
SHLD A812	E2	A 812A	SHIELD GROUND		
SHLD A813	E2	A 813A	SHIELD GROUND		
SHLD A814	E2	A 814A	SHIELD GROUND		
SHD			SHIELD GROUNDING		
SHLD A942	E2	A942	SHIELD GROUND		
SHLD A943	E2	A942	SHIELD GROUND		

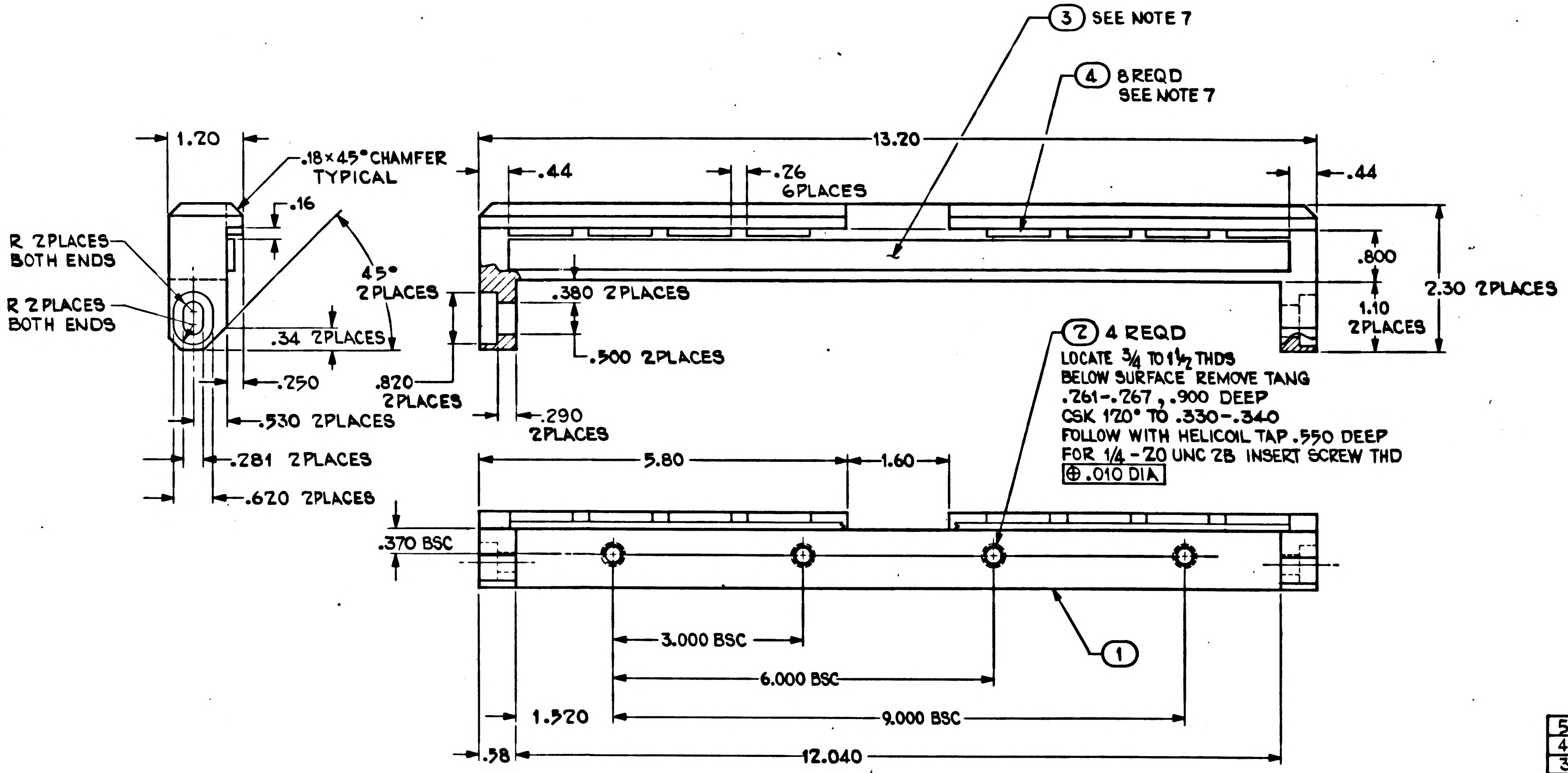
SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B ~~A~~	SHEET 89 OF 89

MIL 2084 9-65

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-250/11 TEMPER T6-51 AL ALY (ES2106 TYPE 6061).
3. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 125√.
4. FINISH: ANODIZE PER MIL-A-8625 TYPE I (ES385).
5. MUST BE FREE FROM BURRS AND SHARP EDGES.
6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
7. BOND ITEMS ③ AND ④ TO ITEM ① USING ITEM ⑤ (ES2515-3).

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR		26 APRIL 66	



③ SEE NOTE 7
④ 8 REQD SEE NOTE 7
1.20
.18×45° CHAMFER TYPICAL
.16
R 2 PLACES BOTH ENDS
R 2 PLACES BOTH ENDS
45° 2 PLACES
.34 2 PLACES
.250
.530 2 PLACES
.281 2 PLACES
.620 2 PLACES
.820 2 PLACES
13.20
.44
.76 6 PLACES
.44
.380 2 PLACES
.500 2 PLACES
.290 2 PLACES
.800
1.10 2 PLACES
2.30 2 PLACES
② 4 REQD
LOCATE 3/4 TO 1 1/2 THDS BELOW SURFACE REMOVE TANG
.261-.267, .900 DEEP
CSK 120° TO .330-.340
FOLLOW WITH HELICOIL TAP .550 DEEP
FOR 1/4-20 UNC 2B INSERT SCREW THD
⊕ .010 DIA
5.80
1.60
.370 BSC
3.000 BSC
6.000 BSC
9.000 BSC
1.520
.58
12.040
①

SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
5	AR	MIL-A-5092, TYPE III	ADHESIVE NO.16 (ES2770-3)
4	8	2901384-002	PAD, CUSHIONING
3	1	2901384-003	PAD, CUSHIONING
2	4	MS122201	INSERT, HELICAL COIL
1	1	2901382-001	BRACKET

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901380-011	2901380-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL ——
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R.H. Becker DATE 28 MAR 66
CHECKED A. Mavich 6 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, HANDLING FIXTURE
(INSEPARABLE ASSEMBLY)

SIZE D
CODE IDENT NO. 99974
2901382
SCALE FULL
SHEET 1 OF 1

2901382

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901076-011	2901076-011	A	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	JHP EF

REV		A	A	A	A	A	A	A	A													
SHEET		22	23	24	25	26	27	28	29													
REV STATUS	REV			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
OF SHEETS	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 10 MAR 66
CHECKED 14 MAR 66
APPROVAL 14 MAR 66
APPROVAL 5/3/66
NASA APPROVAL
MIT APPROVAL 5/10/66
CONTRACT NAS9-497

CABLE ASSEMBLY SPECIAL PURPOSE ELECTRICAL, W579

CODE IDENT NO.	SIZE		REV
99974	A	2901394	A

SCALE —

SHEET 1 OF 29

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	1B	2	E1-B SHLD A1					.25 .25	NO NO			
A	1W		P1-1 P2-A3					.15 .19	NO NO		7 4	
A	2	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	2B	2	E1-B SHLD A2					.25 .25	NO NO			
A	2W		P1-2 P2-A4					.15 .19	NO NO		7 4	
A	3W	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	3B	2	E1-B SHLD A3					.25 .25	NO NO			
A	3W		P1-3 P2-A5					.15 .19	NO NO		7 4	
A	4	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	4B	2	E1-B SHLD A4					.25 .25	NO NO			
A	4W		P1-4 P2-A6					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 6 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	5	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	5B	2	E1-B SHLD A5					.25 .25	NO NO			
A	5W		P1-5 P2-B1					.15 .19	NO NO		7 4	
A	6	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	6B	2	E1-B SHLD A6					.25 .25	NO NO			
A	6W		P1-6 P2-B2					.15 .19	NO NO		7 4	
A	7	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	7B	2	E1-B SHLD A7					.25 .25	NO NO			
A	7W		P1-7 P2-B3					.15 .19	NO NO		7 4	
A	8	1			2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A	8B	2	E1-B SHLD A8					.25 .25	NO NO			
A	8W		P1-8 P2-B4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 7 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	9B	2	E1-B SHLD A9					.25 .25	NO NO			
A	9W		P1-9 P2-B5					.15 .19	NO NO		7 4	
A	10	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	10B	2	E1-B SHLD A10					.25 .25	NO NO			
A	10W		P1-10 P2-B6					.15 .19	NO NO		7 4	
A	11	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	11B	2	E2-B SHLD A11					.25 .25	NO NO			
A	11W		P1-11 P2-B7					.15 .19	NO NO		7 4	
A	12	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	12B	2	E2-B SHLD A12					.25 .25	NO NO			
A	12W		P1-12 P2-B8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 8 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	13B	2	E2-B SHLD A13					.25 .25	NO NO			
A	13W		P1-13 P2-C1					.15 .19	NO NO		7 4	
A	14	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	14B	2	E2-B SHLD A14					.25 .25	NO NO			
A	14W		P1-14 P2-C2					.15 .19	NO NO		7 4	
A	15	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	15B	2	E2-B SHLD A15					.25 .25	NO NO			
A	15W		P1-15 P2-C3					.15 .19	NO NO		7 4	
A	16	1			2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A	16B	2	E2-B SHLD A16					.25 .25	NO NO			
A	16W		P1-16 P2-C4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 9 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 81	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 81B	2		E9-B SHLD A81					.25 .25	NO NO			
A 81W			P1-81 P2-M3					.15 .19	NO NO		7 4	
A 82	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 82B	2		E9-B SHLD A82					.25 .25	NO NO			
A 82W			P1-82 P2-M6					.15 .19	NO NO		7 4	
A 83	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 83B	2		E9-B SHLD A83					.25 .25	NO NO			
A 83W			P1-83 P2-M7					.15 .19	NO NO		7 4	
A 84	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 84B	2		E9-B SHLD A84					.25 .25	NO NO			
A 84W			P1-84 P2-M8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 26 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 85B	2		E9-B SHLD A85					.25 .25	NO NO			
A 85W			P1-85 P2-N1					.15 .19	NO NO		7 4	
A 86	13		E1-BB E10-B					.25 .25	NO NO			
A 87	13		E2-BB E10-B					.25 .25	NO NO			
A 88	13		E3-BB E10-B					.25 .25	NO NO			
A 89	13		E4-BB E10-B					.25 .25	NO NO			
A 90	13		E5-BB E10-B					.25 .25	NO NO			
A 91	13		E6-BB E11-B					.25 .25	NO NO			
A 92	13		E7-BB E11-B					.25 .25	NO NO			
A 93	13		E8-BB E11-B					.25 .25	NO NO			
A 94	13		E9-BB E11-B					.25 .25	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 27 OF 29

MIL 2084 9-65

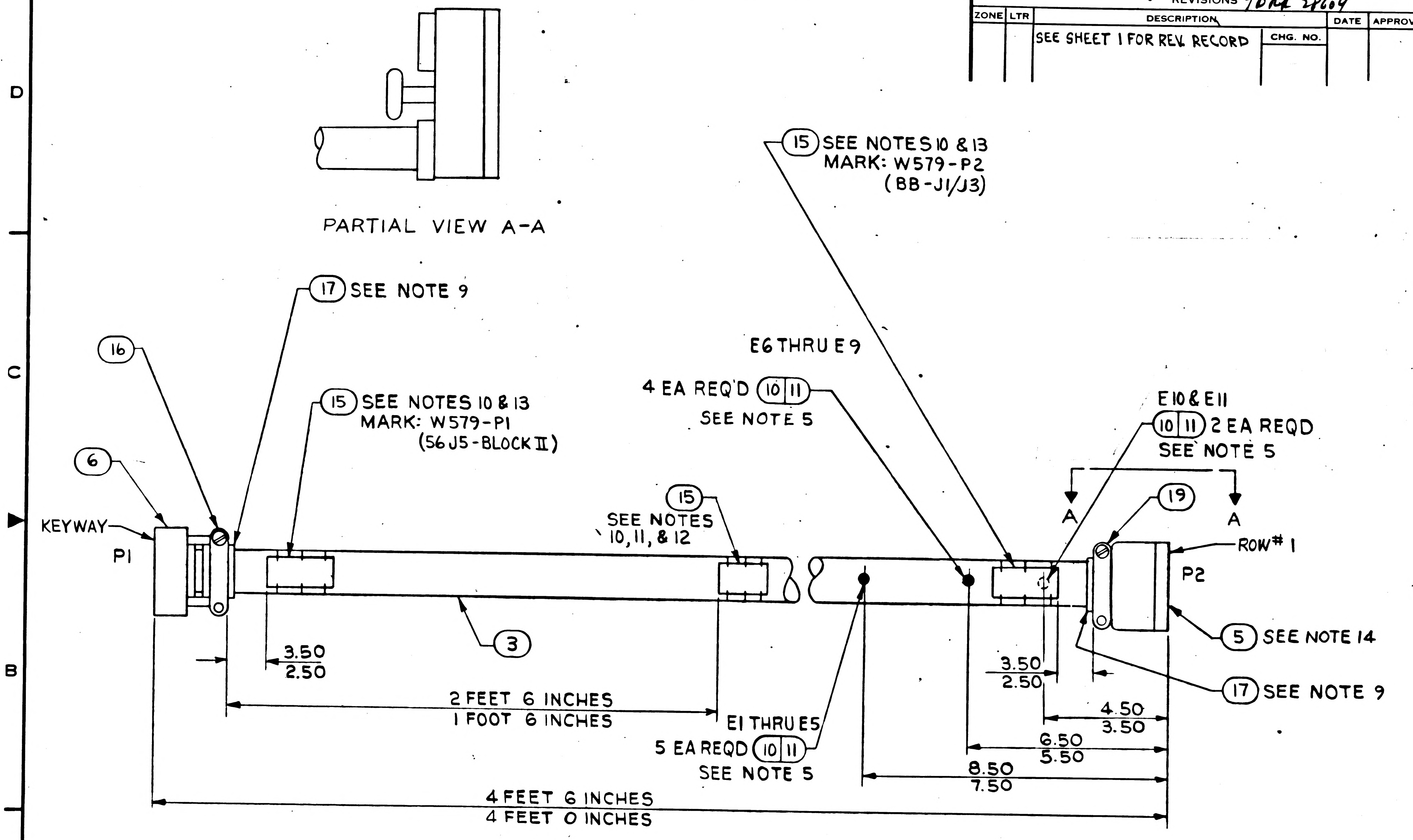
CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 95	13		E10-BB E11-B					.25 .25	NO NO			
A 96	14		E11-BB P2-X6					.25 .19	NO NO		12	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 28 OF 29

MIL 2084 9-65

ZONE	LTR	REVISIONS TDRA 28604 DESCRIPTION	DATE	APPROVED
		SEE SHEET 1 FOR REV. RECORD — CHG. NO.		


PARTIAL VIEW A-A
17 SEE NOTE 9
16
15 SEE NOTES 10 & 13
MARK: W579-P1
(56J5-BLOCK II)
6
KEYWAY
P1
15
SEE NOTES
10, 11, & 12
3
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES
E6 THRU E9
4 EA REQ'D 10 11
SEE NOTE 5
15 SEE NOTES 10 & 13
MARK: W579-P2
(BB-J1/J3)
E1 THRU E5
5 EA REQD 10 11
SEE NOTE 5
E10 & E11
10 11 2 EA REQD
SEE NOTE 5
A
A
19
ROW# 1
P2
5 SEE NOTE 14
17 SEE NOTE 9
3.50
2.50
4.50
3.50
6.50
5.50
8.50
7.50

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN DATE 10 MAR 66
CHECKED 14 MAR 66
APPROVAL 5/3/66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5/10/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W 579

SIZE C
CODE IDENT NO. 99974
2901394
SCALE NONE
SHEET 29 OF 29

CABLE ASSEMBLY W580 2901395 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		P1-13 P2-C1					.15 .19	NO NO		7 4	
A	14	1		P1-14 P2-C2					.15 .19	NO NO		7 4	
A	15	1		P1-15 P2-C3					.15 .19	NO NO		7 4	
A	16	1		P1-16 P2-C4					.15 .19	NO NO		7 4	
A	17	1		P1-17 P2-C5					.15 .19	NO NO		7 4	
A	18	1		P1-18 P2-C6					.15 .19	NO NO		7 4	
A	19	1		P1-19 P2-C7					.15 .19	NO NO		7 4	
A	20	1		P1-20 P2-C8					.15 .19	NO NO		7 4	
A	21	1		P1-21 P2-D1					.15 .19	NO NO		7 4	
A	22	1		P1-22 P2-D2					.15 .19	NO NO		7 4	
A	23	1		P1-23 P2-D3					.15 .19	NO NO		7 4	
A	24	1		P1-24 P2-D4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR A	SHEET 6 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25	1		P1-25 P2-D5					.15 .19	NO NO		7 4	
A	26	1		P1-26 P2-D6					.15 .19	NO NO		7 4	
A	27	1		P1-27 P2-D7					.15 .19	NO NO		7 4	
A	28	1		P1-28 P2-D8					.15 .19	NO NO		7 4	
A	29	1		P1-29 P2-E1					.15 .19	NO NO		7 4	
A	30	1		P1-30 P2-E2					.15 .19	NO NO		7 4	
A	31	1		P1-31 P2-E3					.15 .19	NO NO		7 4	
A	32	1		P1-32 P2-E4					.15 .19	NO NO		7 4	
A	33	1		P1-33 P2-E5					.15 .19	NO NO		7 4	
A	34	1		P1-34 P2-E6					.15 .19	NO NO		7 4	
A	35	1		P1-35 P2-E7					.15 .19	NO NO		7 4	
A	36	1		P1-36 P2-E8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR A	SHEET 7 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1		P1-37 P2-F1					.15 .19	NO NO		7 4	
A	38	1		P1-38 P2-F2					.15 .19	NO NO		7 4	
A	39	1		P1-39 P2-F3					.15 .19	NO NO		7 4	
A	40	1		P1-40 P2-F4					.15 .19	NO NO		7 4	
A	41	1		P1-41 P2-F5					.15 .19	NO NO		7 4	
A	42	1		P1-42 P2-F6					.15 .19	NO NO		7 4	
A	43	1		P1-43 P2-F7					.15 .19	NO NO		7 4	
A	44	1		P1-44 P2-F8					.15 .19	NO NO		7 4	
A	45	1		P1-45 P2-G1					.15 .19	NO NO		7 4	
A	46	1		P1-46 P2-G2					.15 .19	NO NO		7 4	
A	47	1		P1-47 P2-G3					.15 .19	NO NO		7 4	
A	48	1		P1-48 P2-G4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR A	SHEET 8 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	49	1		P1-49 P2-G5					.15 .19	NO NO		7 4	
A	50	1		P1-50 P2-G6					.15 .19	NO NO		7 4	
A	51	1		P1-51 P2-G7					.15 .19	NO NO		7 4	
A	52	1		P1-52 P2-G8					.15 .19	NO NO		7 4	
A	53	1		P1-53 P2-H1					.15 .19	NO NO		7 4	
A	54	1		P1-54 P2-H2					.15 .19	NO NO		7 4	
A	55	1		P1-55 P2-H3					.15 .19	NO NO		7 4	
A	56	1		P1-56 P2-H4					.15 .19	NO NO		7 4	
A	57	1		P1-57 P2-H5					.15 .19	NO NO		7 4	
A	58	1		P1-58 P2-H6					.15 .19	NO NO		7 4	
A	59	1		P1-59 P2-H7					.15 .19	NO NO		7 4	
A	60	1		P1-60 P2-H8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901395
SCALE-NONE	REV LTR A	SHEET 9 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P1-61 P2-J1					.15 .19	NO NO		7 4	
A 62	1		P1-62 P2-J2					.15 .19	NO NO		7 4	
A 63	1		P1-63 P2-J3					.15 .19	NO NO		7 4	
A 64	1		P1-64 P2-J4					.15 .19	NO NO		7 4	
A 65	1		P1-65 P2-J5					.15 .19	NO NO		7 4	
A 66	1		P1-66 P2-J6					.15 .19	NO NO		7 4	
A 67	1		P1-67 P2-J7					.15 .19	NO NO		7 4	
A 68	1		P1-68 P2-J8					.15 .19	NO NO		7 4	
A 69	1		P1-69 P2-K1					.15 .19	NO NO		7 4	
A 70	1		P1-70 P2-K2					.15 .19	NO NO		7 4	
A 71	1		P1-71 P2-K3					.15 .19	NO NO		7 4	
A 72	1		P1-72 P2-K6					.15 .19	NO NO		7 4	

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR A	SHEET 10 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P1-73 P2-K7					.15 .19	NO NO		7 4	
A 74	1		P1-74 P2-K8					.15 .19	NO NO		7 4	
A 75	1		P1-75 P2-L1					.15 .19	NO NO		7 4	
A 76	1		P1-76 P2-L2					.15 .19	NO NO		7 4	
A 77	1		P1-77 P2-L7					.15 .19	NO NO		7 4	
A 78	1		P1-78 P2-L8					.15 .19	NO NO		7 4	
A 79	1		P1-79 P2-M1					.15 .19	NO NO		7 4	
A 80	1		P1-80 P2-M2					.15 .19	NO NO		7 4	
A 81	1		P1-81 P2-M3					.15 .19	NO NO		7 4	
A 82	1		P1-82 P2-M6					.15 .19	NO NO		7 4	
A 83	1		P1-83 P2-M7					.15 .19	NO NO		7 4	
A 84	1		P1-84 P2-M8					.15 .19	NO NO		7 4	

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR A	SHEET 11 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

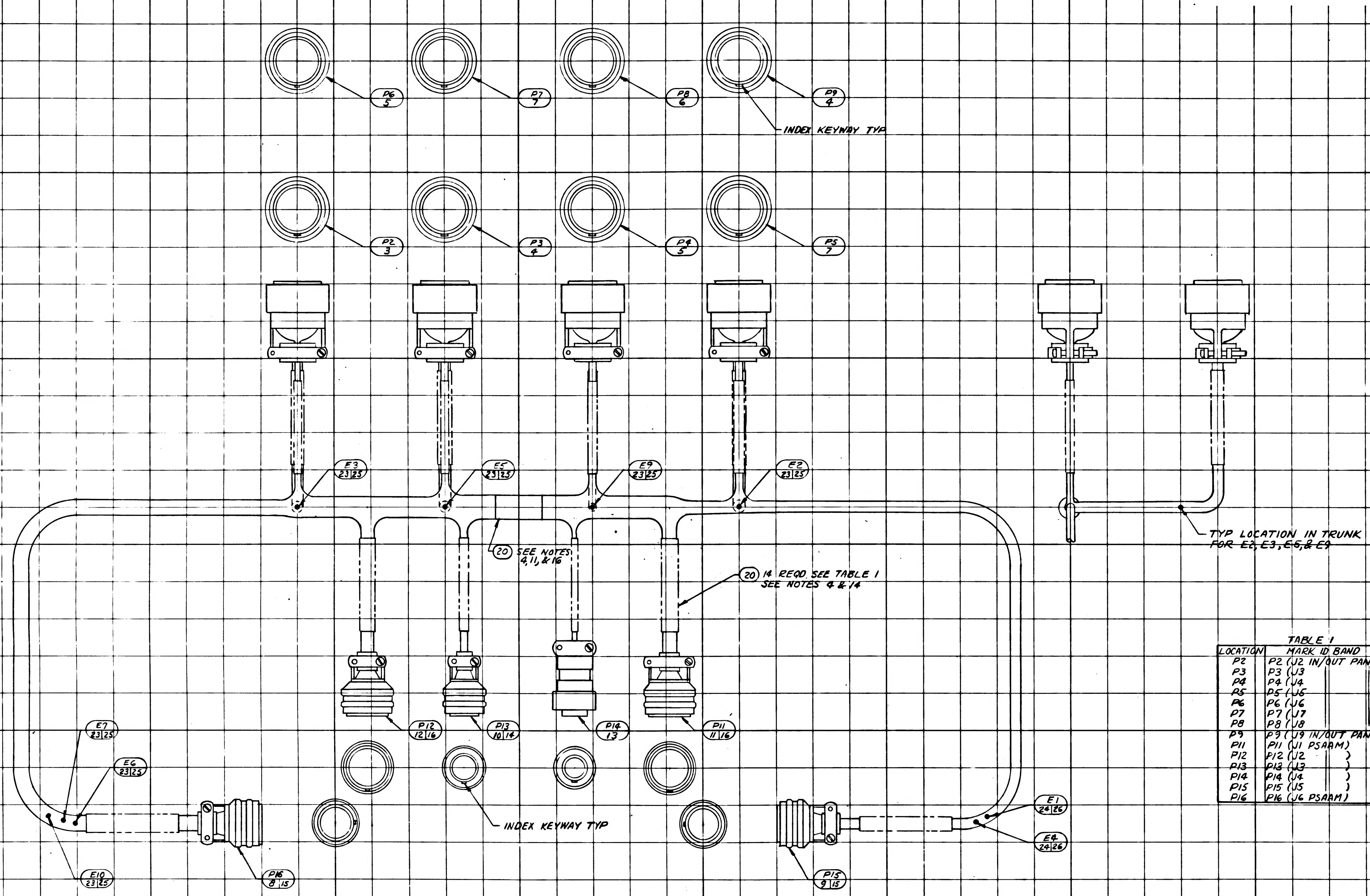
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P1-85 P2-N1					.15 .19	NO NO		7 4	

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR A	SHEET 12 OF 13

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD



P6 5
P7 7
P8 6
P9 4
INDEX KEYWAY TYP
P2 3
P3 4
P4 5
P5 7
E3 23|25
E5 23|25
E9 23|25
E2 23|25
TYP LOCATION IN TRUNK FOR E2, E3, E5, & E9
20 SEE NOTES 4, 11, & 16
20 14 REQD SEE TABLE 1 SEE NOTES 4 & 14
P12 12|16
P13 10|14
P14 13
P11 11|16
E7 23|25
E6 23|25
E10 23|25
P16 8|15
INDEX KEYWAY TYP
P15 9|15
E1 24|26
E4 24|26

TABLE 1

LOCATION	MARK ID BAND
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 " ")
P4	P4 (J4 " ")
P5	P5 (J5 " ")
P6	P6 (J6 " ")
P7	P7 (J7 " ")
P8	P8 (J8 " ")
P9	P9 (J9 IN/OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2 ")
P13	P13 (J3 ")
P14	P14 (J4 ")
P15	P15 (J5 ")
P16	P16 (J6 PSAAM)

2901044-011	2900395-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 14 MAR 66
CHECKED J. GRIEB 30 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL
PURPOSE, ELECTRICAL,
BRANCHED
BLK II PSAAM

SIZE E
CODE IDENT NO. 99974
2901396
SCALE 1/1
SHEET 28 OF 2

MX-10989

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	E1-B P11-59					.38 .15	NO NO.		18	
A	2	1	E1-BB E2-BB					.38 .38	NO NO			
A	3	1	E1-B P11-35					.38 .15	NO NO		18	
A	4	1	E1-B P11-84					.38 .15	NO NO		18	
A	5	1	E1-B P11-60					.38 .15	NO NO		18	
A	6	1	E1-B P11-83					.38 .15	NO NO		18	
A	7	1	E1-B P11-58					.38 .15	NO NO		18	
A	8	1	E1-B P11-18					.38 .15	NO NO		18	
A	9	1	E4-B P11-7					.38 .15	NO NO		18	
A	10	1	E4-B P11-57					.38 .15	NO NO		18	
A	11	1	E4-B P11-34					.38 .15	NO NO		18	
A	12	1	E4-B P15-14					.38 .15	NO NO		19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 6 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1	E4-BB P11-33					.38 .15	NO NO		18	
A	14	1	E4-B P11-17					.38 .15	NO NO		18	
A	15	1	E1-BB E4-BB					.38 .38	NO NO			
A	16	1	E4-B P11-62					.38 .15	NO NO		18	
A	17	1	E4-B P11-63					.38 .15	NO NO		18	
A	18	1	E6-B P16-38					.38 .15	NO NO		19	
A	19	1	E6-B P16-19					.38 .15	NO NO		19	
A	20	1	E6-B P16-60					.38 .15	NO NO		19	
A	21	1	E7-B P16-20					.38 .15	NO NO		19	
A	22	1	E7-B P16-37					.38 .15	NO NO		19	
A	23	1	E7-B P16-61					.38 .15	NO NO		19	
A	24	1	P2-BB P16-57					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 7 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26	1	P2-Y E3-B					.22 .38	NO NO		17	
A	27	1	P16-25 E10-BB					.15 .38	NO NO		19	
A	29	1	E10-B P14-C					.38 .25	NO YES			
A	30	2	P11-8 P2-HH					.15 .22	NO NO		18	
A	31	1	E5-B P15-7					.38 .15	NO NO		19	
A	32	1	E9-BB P16-36					.38 .15	NO NO		19	
A	33	1	E10-B P15-26					.38 .15	NO NO		19	
A	34	1	E10-B P2-U*					.38 .22	NO NO		17	
A	35	1	E3-BB E1-BB					.38 .38	NO NO			
A	36	1	P2-F* P11-25					.22 .15	NO NO		17 18	
A	37	1	P2-G* P11-45					.22 .15	NO NO		17 18	
A	38	1	P2-H* P15-54					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 8 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	39	1	P2-M* P13-5					.22 .15	NO NO		17 19	
A	40	1	P2-N* P13-18					.22 .15	NO NO		19	
A	41	1	P2-HH P11-20					.22 .15	NO NO		17 18	
A	42	1	P2-LL P11-41					.22 .15	NO NO		17 18	
A	43	1	P2-MM P11-22					.22 .15	NO NO		17 18	
A	44	1	P3-A P11-70					.22 .15	NO NO		17 18	
A	45	1	P3-B P11-71					.22 .15	NO NO		17 18	
A	46	1	P3-C P15-32					.22 .15	NO NO		17 19	
A	47	1	P3-E P11-21					.22 .15	NO NO		17 18	
A	48	1	P3-F P11-9					.22 .15	NO NO		17 18	
A	49	1	P3-J P12-55					.22 .15	NO NO		17 18	
A	50	1	P3-K P12-32					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 9 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A / C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	51	1		P3-N P12-78					.22 .15	NO NO		17 18	
A	52	1		P3-P P12-53					.22 .15	NO NO		17 18	
A	53	1		P3-T P11-30					.22 .15	NO NO		17 18	
A	54	1		P3-U P11-29					.22 .15	NO NO		17 18	
A	55	1		P3-V P16-23					.22 .15	NO NO		17 19	
A	56	1		P3-W P16-43					.22 .15	NO NO		17 19	
A	57	1		P3-X P11-2					.22 .15	NO NO		17 18	
A	58	1		P3-Y P11-10					.22 .15	NO NO		17 18	
A	59	1		P3-Z P15-30					.22 .15	NO NO		17 19	
A	60	1		P3-A* P15-40					.22 .15	NO NO		17 19	
A	61	1		P3-B* P11-1					.22 .15	NO NO		17 18	
A	62	1		P3-C* P11-4					.22 .15	NO NO		17 18	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A / C | SHEET 10 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A / C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	63	1		P3-D* P15-51					.22 .15	NO NO		17 19	
A	64	1		P3-E* P15-38					.22 .15	NO NO		17 19	
A	65	1		P3-F* P11-3					.22 .15	NO NO		17 18	
A	66	1		P3-G* P11-11					.22 .15	NO NO		17 18	
A	67	1		P3-H* P15-31					.22 .15	NO NO		17 19	
A	68	1		P3-J* P11-5					.22 .15	NO NO		17 18	
A	69	1		P3-K* P11-14					.22 .15	NO NO		17 18	
A	70	1		P3-M* P15-39					.22 .15	NO NO		17 19	
A	71	1		P4-A P11-78					.22 .15	NO NO		17 18	
A	72	1		P4-B P11-54					.22 .15	NO NO		17 18	
A	73	1		P4-D E5-BB					.22 .38	NO NO		17	
A	74	1		P4-E P11-52					.22 .15	NO NO		17 18	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A / C | SHEET 11 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	75	1		P4-F P11-51					.22 .15	NO NO		17 18	
A	76	1		P4-G P16-11					.22 .15	NO NO		17 19	
A	77	1		P4-H P16-10					.22 .15	NO NO		17 19	
A	79	1		P4-M P13-30					.22 .15	NO NO		17 18	
A	81	1		P4-S P13-6					.22 .15	NO NO		17 19	
A	82	1		P4-T P16-18					.22 .15	NO NO		17 19	
A	83	1		P4-W P13-32					.22 .15	NO NO		17 19	
A	84	1		P4-X P16-6					.22 .15	NO NO		17 19	
A	85	1		P4-A* P13-16					.22 .15	NO NO		17 19	
A	86	1		P4-B* P16-7					.22 .15	NO NO		17 19	
A	87	2		P4-C* P7-Y					.22 .22	NO NO		17	
A	88	1		P4-E* P13-34					.22 .15	NO NO		17 19	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A C | SHEET 12 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 D

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	89	1		P4-F* P16-40					.22 .15	NO NO		17 19	
A	90	1		P4-G* P16-42					.22 .15	NO NO		17 19	
A	91	1		P4-H* P13-39					.22 .15	NO NO		17 19	
A	92	1		P4-I* P13-22					.22 .15	NO NO		17 19	
A	93	1		P4-J* P16-21					.22 .15	NO NO		17 19	
A	94	1		P4-M* P13-20					.22 .15	NO NO		17 19	
A	95	1		P4-N* P13-8					.22 .15	NO NO		17 19	
A	96	1		P4-T* P2-V					.22 .22	NO NO		17 17	
A	97	1		P4-U* P2-W					.22 .22	NO NO		17 17	
A	98	1		P4-V* P15-56					.22 .15	NO NO		17 19	
A	99	1		P4-W* P15-57					.22 .15	NO NO		17 19	
A	100	2		P5-A P4-T*					.22 .22	NO NO		17 17	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR D | SHEET 13 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 101	2		P5-B					.22	NO		17	
			P4-U*					.22	NO			
A 102	1		P5-C					.22	NO		17	
			E6-BB					.38	NO			
A 103	1		P5-D					.22	NO		17	
			E7-BB					.38	NO			
A 104	1		P5-E					.22	NO			
			P2-N					.22	NO		17	
A 105	1		P5-F					.22	NO		17	
			P2-P					.22	NO		17	
A 106	1		P5-G					.22	NO		17	
			P15-59					.15	NO		19	
A 107	1		P5-H					.22	NO		17	
			P15-60					.15	NO		19	
A 108	1		P5-J					.22	NO		17	
			P2-R					.22	NO		17	
A 109	1		P5-K					.22	NO		17	
			P2-S					.22	NO		17	
A 110	1		P5-L					.22	NO		17	
			P15-58					.15	NO		19	
A 111	1		P5-M					.22	NO			
			P15-34					.15	NO		19	
A 112	2		P5-N					.22	NO		17	
			P5-E					.22	NO		17	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR ~~A~~ C | SHEET 14 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P5-P					.22	NO		17	
			P5-F					.22	NO		17	
A 114	1		P5-R					.22	NO		17	
			P15-17					.15	NO		19	
A 115	1		P5-S					.22	NO		17	
			E5-B					.38	NO			
A 116	1		P6-A					.22	NO		17	
			P12-66					.15	NO		18	
A 117	1		P6-B					.22	NO		17	
			P12-42					.15	NO		18	
A 118	1		P6-C					.22	NO		17	
			P16-14					.15	NO		19	
A 119	1		P6-D					.22	NO		17	
			E3-B					.38	NO			
A 120	1		P6-E					.22	NO		17	
			P12-43					.15	NO		18	
A 121	1		P6-F					.22	NO		17	
			P12-23					.15	NO		18	
A 122	1		P6-G					.22	NO		17	
			P16-3					.15	NO		19	
A 123	1		P6-J					.22	NO		17	
			P12-68					.15	NO		19	
A 124	1		P6-K					.22	NO		17	
			P12-67					.15	NO		18	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR ~~A~~ C | SHEET 15 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 125	1		P6-L					.22	NO		17	
			P16-5					.15	NO		19	
A 126	1		P6-N					.22	NO		17	
			P12-69					.15	NO		18	
A 127	1		P6-P					.22	NO		17	
			P12-45					.15	NO		18	
A 128	1		P6-R					.22	NO		17	
			P16-1					.15	NO		19	
A 129	1		P6-S					.22	NO		17	
			E3-B					.38	NO			
A 130	1		P6-T					.22	NO		17	
			P12-25					.15	NO		18	
A 131	1		P6-U					.22	NO		17	
			P12-11					.15	NO		18	
A 132	1		P6-V					.22	NO		17	
			P16-15					.15	NO		19	
A 133	1		P6-X					.22	NO		17	
			P12-70					.15	NO		18	
A 134	1		P6-Y					.22	NO		17	
			P12-46					.15	NO		18	
A 135	1		P6-Z					.22	NO		17	
			P16-4					.15	NO		19	
A 136	1		P6-B*					.22	NO		17	
			P12-47					.15	NO		18	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR ~~A~~ C | SHEET 16 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137	1		P6-C*					.22	NO		17	
			P12-27					.15	NO		18	
A 138	1		P6-D*					.22	NO		17	
			P16-13					.15	NO		19	
A 139	1		P6-F*					.22	NO		17	
			P12-71					.15	NO		18	
A 140	1		P6-G*					.22	NO		17	
			P12-72					.15	NO		18	
A 141	1		P6-H*					.22	NO		17	
			P16-12					.15	NO		19	
A 142	1		P6-J*					.22	NO		17	
			P12-81					.15	NO		18	
A 143	1		P6-K*					.22	NO		17	
			P12-80					.15	NO		18	
A 144	1		P6-M*					.22	NO		17	
			P15-18					.15	NO		19	
A 145	1		P6-N*					.22	NO		17	
			E5-B					.38	NO			
A 146	1		P6-P*					.22	NO		17	
			P11-26					.15	NO		18	
A 147	1		P6-Q*					.22	NO		17	
			P11-46					.15	NO		18	
A 148	1		P6-R*					.22	NO		17	
			P15-33					.15	NO		19	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR ~~A~~ C | SHEET 17 OF 28

MIL 2084 9-65

APPLICATION	
NEXT ASSY	USED ON
2900926-011	2900845-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211988	29 APR 66	DKD EF
B	INITIAL RELEASE CLASS A PER TDRR 28659	4-MAY-66	JB. EF

REV		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET		19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
REV STATUS OF SHEETS	REV						B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	SHEET						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

S PLANE 30 MAR 66
DRAFTSMAN DAY MO YR
CHECKER 22 APR 66
ENGINEER C. Yonke 22 APR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL-
INPUT/OUTPUT ELECTRONICS ASSY

SIZE	CODE IDENT. NO	
A	99974	2901391
SCALE NONE		SHEET 1 OF 89

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

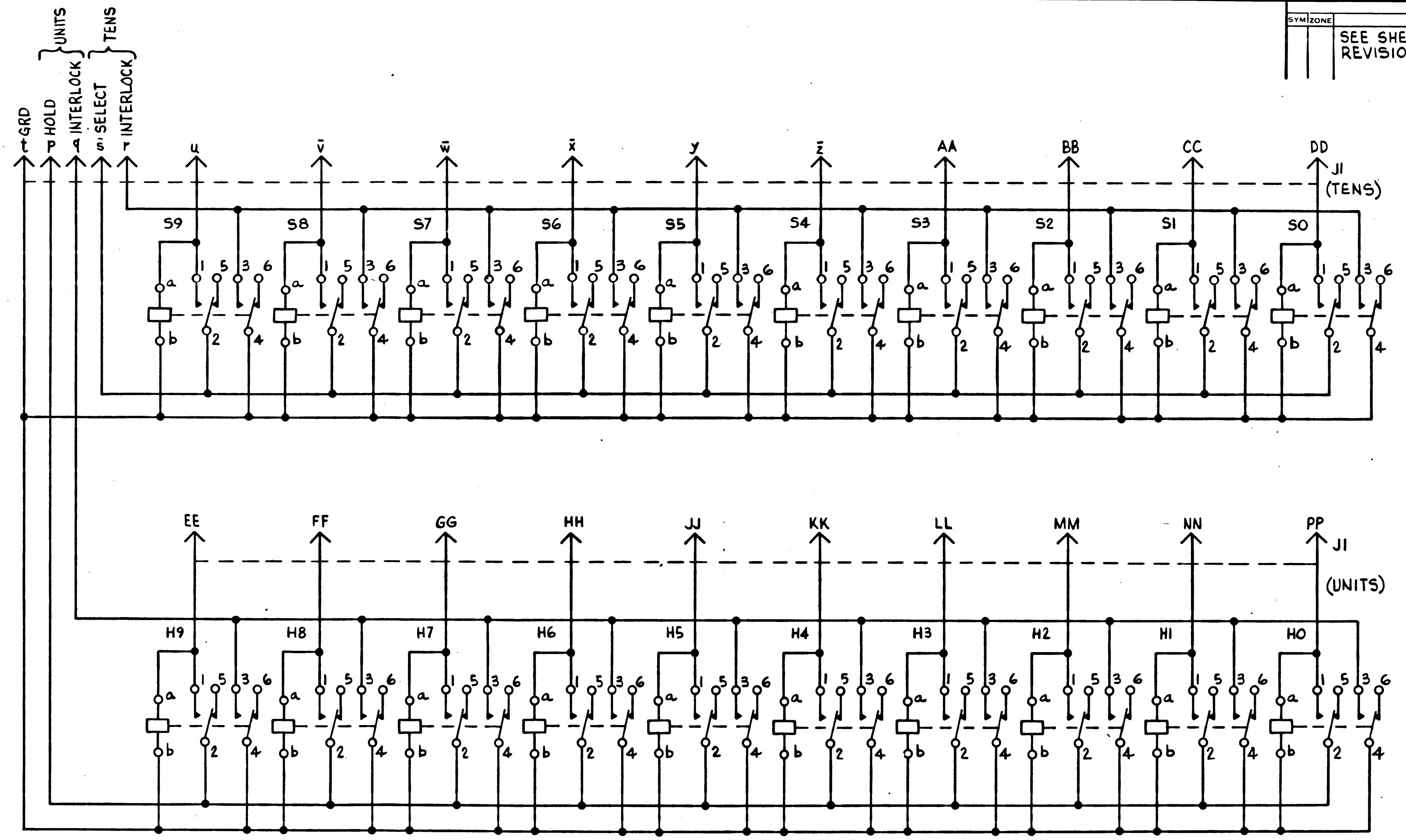
SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
45	B	79	B														
46	B	80	B														
47	B	81	B														
48	B	82	B														
49	B	83	B														
50	B	84	B														
51	B	85	B														
52	B	86	B														
53	B	87	B														
54	B	88	B														
55	B	89	B														
56	B																
57	B																
58	B																
59	B																
60	B																
61	B																
62	B																
63	B																
64	B																
65	B																
66	B																
67	B																
68	B																
69	B																
70	B																
71	B																
72	B																
73	B																
74	B																
75	B																
76	B																
77	B																
78	B																

SIZE	CODE IDENT. NO.	
A	99974	2901391
SCALE NONE	REV LTR B	SHEET 2 OF 89

MIL 1377A3 6-65

B 2901391

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		REVISIONS TDRR 28659			
		SEE SHEET 1 FOR REVISION RECORD			



UNITS
TENS
t GRD
p HOLD
q INTERLOCK
s' SELECT
r INTERLOCK
u
v̄
w̄
x̄
y
z̄
AA
BB
CC
DD
J1 (TENS)
S9
S8
S7
S6
S5
S4
S3
S2
S1
S0
1 5 3 6
a
b
2 4
EE
FF
GG
HH
JJ
KK
LL
MM
NN
PP
J1 (UNITS)
H9
H8
H7
H6
H5
H4
H3
H2
H1
H0

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ——
3 PLACE DECIMALS ± ——
ANGLES ± ——

DO NOT SCALE THIS DRAWING

MATERIAL ——

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

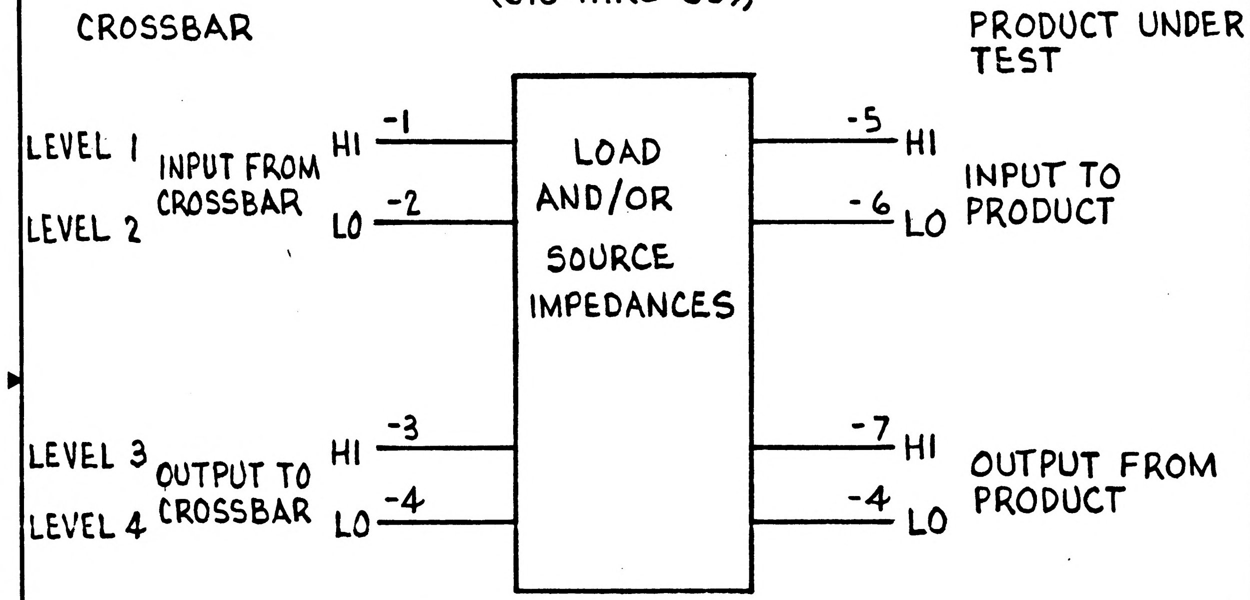
DRAWN S PLANE DATE 30 MAR 66
CHECKED 22 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL 5/6/66
MIT APPROVAL 5 10 66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL-INPUT/OUTPUT ELECTRONICS
(CROSSBAR CONTROL)

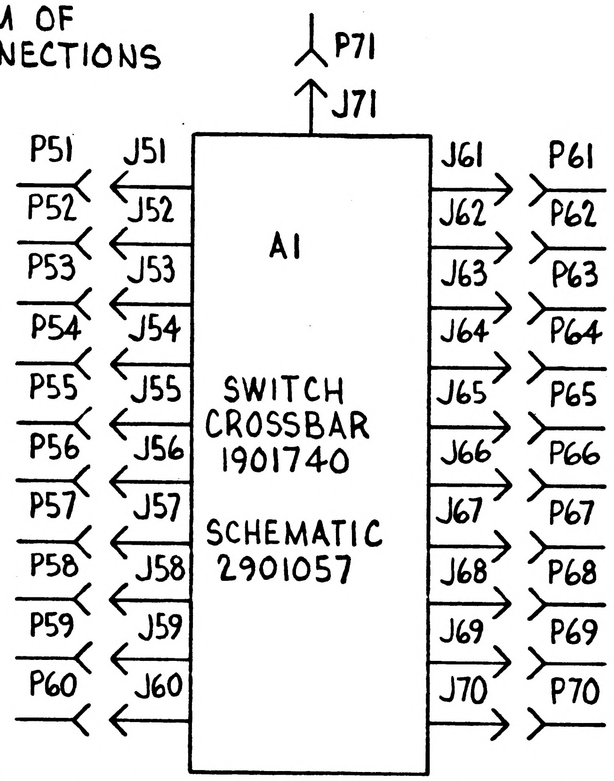
SIZE D
CODE IDENT NO. 99974
2901391
SCALE ——
SHEET 3 OF 89

TYPICAL CHANNEL CIRCUIT
(J10 THRU J39)


CROSSBAR
PRODUCT UNDER TEST
LEVEL 1
LEVEL 2
INPUT FROM CROSSBAR
HI
-1
LO
-2
LOAD AND/OR SOURCE IMPEDANCES
-5
HI
-6
LO
INPUT TO PRODUCT
LEVEL 3
LEVEL 4
OUTPUT TO CROSSBAR
HI
-3
LO
-4
-7
HI
-4
LO
OUTPUT FROM PRODUCT

SIZE A	CODE IDENT. NO. 99974	2901391	
SCALE NONE	REV LTR B		SHEET 4 OF 89

BLOCK DIAGRAM OF CROSSBAR CONNECTIONS


P71
J71
P51
J51
P52
J52
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P54
J54
P55
J55
P56
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P58
J58
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A1
SWITCH CROSSBAR 1901740
SCHEMATIC 2901057
J61
P61
J62
P62
J63
P63
J64
P64
J65
P65
J66
P66
J67
P67
J68
P68
J69
P69
J70
P70

SEE CROSSBAR/CONNECTOR CORRELATION CHART

SIZE A	CODE IDENT. NO. 99974	2901391	
SCALE NONE	REV LTR B		SHEET 5 OF 89

CROSSBAR/CONNECTOR CORRELATION CHART

X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN
CH 00-1	J51-1	CH 01-1	J52-1	CH 02-1	J53-1	CH 03-1	J54-1
00-2	-2	01-2	-2	02-2	-2	03-2	-2
00-3	-3	01-3	-3	02-3	-3	03-3	-3
00-4	-6	01-4	-6	02-4	-6	03-4	-6
CH 10-1	-7	CH 11-1	-7	CH 12-1	-7	CH 13-1	-7
10-2	-8	11-2	-8	12-2	-8	13-2	-8
10-3	-9	11-3	-9	12-3	-9	13-3	-9
10-4	-12	11-4	-12	12-4	-12	13-4	-12
CH 20-1	-13	CH 21-1	-13	CH 22-1	-13	CH 23-1	-13
20-2	-14	21-2	-14	22-2	-14	23-2	-14
20-3	-15	21-3	-15	22-3	-15	23-3	-15
20-4	-18	21-4	-18	22-4	-18	23-4	-18
CH 30-1	-19	CH 31-1	-19	CH 32-1	-19	CH 33-1	-19
30-2	-20	31-2	-20	32-2	-20	33-2	-20
30-3	-21	31-3	-21	32-3	-21	33-3	-21
30-4	-24	31-4	-24	32-4	-24	33-4	-24
CH 40-1	-25	CH 41-1	-25	CH 42-1	-25	CH 43-1	-25
40-2	-26	41-2	-26	42-2	-26	43-2	-26
40-3	-27	41-3	-27	42-3	-27	43-3	-27
40-4	J51-30	41-4	J52-30	42-4	J53-30	43-4	J54-30

SIZE A	CODE IDENT. NO. 99974	2901391	
SCALE NONE	REV LTR B		SHEET 6 OF 89

CROSSBAR/CONNECTOR CORRELATION CHART (CONTINUED)

X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN
CH 04-1	J55-1	CH 05-1	J56-1	CH 06-1	J57-1	CH 07-1	J58-1
04-2	-2	05-2	-2	06-2	-2	07-2	-2
04-3	-3	05-3	-3	06-3	-3	07-3	-3
04-4	-6	05-4	-6	06-4	-6	07-4	-6
CH 14-1	-7	CH 15-1	-7	CH 16-1	-7	CH 17-1	-7
14-2	-8	15-2	-8	16-2	-8	17-2	-8
14-3	-9	15-3	-9	16-3	-9	17-3	-9
14-4	-12	15-4	-12	16-4	-12	17-4	-12
CH 24-1	-13	CH 25-1	-13	CH 26-1	-13	CH 27-1	-13
24-2	-14	25-2	-14	26-2	-14	27-2	-14
24-3	-15	25-3	-15	26-3	-15	27-3	-15
24-4	-18	25-4	-18	26-4	-18	27-4	-18
CH 34-1	-19	CH 35-1	-19	CH 36-1	-19	CH 37-1	-19
34-2	-20	35-2	-20	36-2	-20	37-2	-20
34-3	-21	35-3	-21	36-3	-21	37-3	-21
34-4	-24	35-4	-24	36-4	-24	37-4	-24
CH 44-1	-25	CH 45-1	-25	CH 46-1	-25	CH 47-1	-25
44-2	-26	45-2	-26	46-2	-26	47-2	-26
44-3	-27	45-3	-27	46-3	-27	47-3	-27
44-4	J55-30	45-4	J56-30	46-4	J57-30	47-4	J58-30

SIZE A	CODE IDENT. NO. 99974	2901391	
SCALE NONE	REV LTR B		SHEET 7 OF 89

CROSSBAR/CONNECTOR CORRELATION CHART (CONTINUED)

X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN
CH 08-1	J59-1	CH 09-1	J60-1	CH 50-1	J61-30	CH 51-1	J62-30
08-2	-2	09-2	-2	50-2	-29	51-2	-29
08-3	-3	09-3	-3	50-3	-28	51-3	-28
08-4	-6	09-4	-6	50-4	-25	51-4	-25
CH 18-1	-7	CH 19-1	-7	CH 60-1	-24	CH 61-1	-24
18-2	-8	19-2	-8	60-2	-23	61-2	-23
18-3	-9	19-3	-9	60-3	-22	61-3	-22
18-4	-12	19-4	-12	60-4	-19	61-4	-19
CH 28-1	-13	CH 29-1	-13	CH 70-1	-18	CH 71-1	-18
28-2	-14	29-2	-14	70-2	-17	71-2	-17
28-3	-15	29-3	-15	70-3	-16	71-3	-16
28-4	-18	29-4	-18	70-4	-13	71-4	-13
CH 38-1	-19	CH 39-1	-19	CH 80-1	-12	CH 81-1	-12
38-2	-20	39-2	-20	80-2	-11	81-2	-11
38-3	-21	39-3	-21	80-3	-10	81-3	-10
38-4	-24	39-4	-24	80-4	-7	81-4	-7
CH 48-1	-25	CH 49-1	-25	CH 90-1	-6	CH 91-1	-6
48-2	-26	49-2	-26	90-2	-5	91-2	-5
48-3	-27	49-3	-27	90-3	-4	91-3	-4
48-4	J59-30	49-4	J60-30	90-4	J61-1	91-4	J62-1

SIZE	CODE IDENT. NO.	
A	99974	2901391
SCALE NONE	REV LTR B	SHEET 8 OF 89

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CROSSBAR/CONNECTOR CORRELATION CHART (CONTINUED)

X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN
CH 52-1	J63-30	CH 53-1	J64-30	CH 54-1	J65-30	CH 55-1	J66-30
52-2	-29	53-2	-29	54-2	-29	55-2	-29
52-3	-28	53-3	-28	54-3	-28	55-3	-28
52-4	-25	53-4	-25	54-4	-25	55-4	-25
CH 62-1	-24	CH 63-1	-24	CH 64-1	-24	CH 65-1	-24
62-2	-23	63-2	-23	64-2	-23	65-2	-23
62-3	-22	63-3	-22	64-3	-22	65-3	-22
62-4	-19	63-4	-19	64-4	-19	65-4	-19
CH 72-1	-18	CH 73-1	-18	CH 74-1	-18	CH 75-1	-18
72-2	-17	73-2	-17	74-2	-17	75-2	-17
72-3	-16	73-3	-16	74-3	-16	75-3	-16
72-4	-13	73-4	-13	74-4	-13	75-4	-13
CH 82-1	-12	CH 83-1	-12	CH 84-1	-12	CH 85-1	-12
82-2	-11	83-2	-11	84-2	-11	85-2	-11
82-3	-10	83-3	-10	84-3	-10	85-3	-10
82-4	-7	83-4	-7	84-4	-7	85-4	-7
CH 92-1	-6	CH 93-1	-6	CH 94-1	-6	CH 95-1	-6
92-2	-5	93-2	-5	94-2	-5	95-2	-5
92-3	-4	93-3	-4	94-3	-4	95-3	-4
92-4	J63-1	93-4	J64-1	94-4	J65-1	95-4	J66-1

SIZE	CODE IDENT. NO.	
A	99974	2901391
SCALE NONE	REV LTR B	SHEET 9 OF 89

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CROSSBAR/CONNECTOR CORRELATION CHART (CONTINUED)

X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN	X BAR CHANNEL & LEVEL	CONNECTOR & PIN
CH 56-1	J67-30	CH 57-1	J68-30	CH 58-1	J69-30	CH 59-1	J70-30
56-2	-29	57-2	-29	58-2	-29	59-2	-29
56-3	-28	57-3	-28	58-3	-28	59-3	-28
56-4	-25	57-4	-25	58-4	-25	59-4	-25
CH 66-1	-24	CH 67-1	-24	CH 68-1	-24	CH 69-1	-24
66-2	-23	67-2	-23	68-2	-23	69-2	-23
66-3	-22	67-3	-22	68-3	-22	69-3	-22
66-4	-19	67-4	-19	68-4	-19	69-4	-19
CH 76-1	-18	CH 77-1	-18	CH 78-1	-18	CH 79-1	-18
76-2	-17	77-2	-17	78-2	-17	79-2	-17
76-3	-16	77-3	-16	78-3	-16	79-3	-16
76-4	-13	77-4	-13	78-4	-13	79-4	-13
CH 86-1	-12	CH 87-1	-12	CH 88-1	-12	CH 89-1	-12
86-2	-11	87-2	-11	88-2	-11	89-2	-11
86-3	-10	87-3	-10	88-3	-10	89-3	-10
86-4	-7	87-4	-7	88-4	-7	89-4	-7
CH 96-1	-6	CH 97-1	-6	CH 98-1	-6	CH 99-1	-6
96-2	-5	97-2	-5	98-2	-5	99-2	-5
96-3	-4	97-3	-4	98-3	-4	99-3	-4
96-4	J67-1	97-4	J68-1	98-4	J69-1	99-4	J70-1

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SCALE NONE	REV LTR B	SHEET 10 OF 89

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ZYX RUNNING LIST 2901391 11

GENERAL NOTES

PENNANT NOTE

1 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2 ALL PART NUMBERS FOR REFERENCE ONLY

3 DRAWINGS FOR REFERENCE

2901057	CROSSBAR SCHEMATIC DIAGRAM
2900926	ASSEMBLY DRAWING
2901064	WIRING HARNESS A

4 BARS PLACED OVER LETTERS OR AN ASTERISK SUFFIX ARE FOR REFERENCE ONLY AND SIGNIFY LOWER CASE.

5 COILS ARE SHOWN IN THE UNENERGIZED OR OFF POSITION.

6 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -

A - SHIELD LEAD ON FRONT END
B - SHIELD LEAD ON TO END
L - WHITE WITH BLUE TRACER.
R - WHITE WITH RED TRACER.

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 11 OF 89

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A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1H0-A*	J1-PP	A 815	X BAR COMMAND UNITS DIGIT 0		
A1H0-A*	A1H0-1	A 835	X BAR COMMAND UNITS DIGIT 0		
A1H0-B*	E3	A 914	X BAR GROUND		
A1H0-B*	A1H1-B*	A 915	X BAR GROUND		
A1H0-1	A1H0-A*	A 835	X BAR COMMAND UNITS DIGIT 0		
A1H0-2	J1-Q*	A 875	X BAR HOLD (UNITS)		
A1H0-2	A1H1-2	A 876	X BAR HOLD (UNITS)		
A1H0-3	J1-P*	A 885	X BAR INTERLOCK (UNITS)		
A1H0-3	A1H1-3	A 886	X BAR INTERLOCK (UNITS)		
A1H0-4	A1H1-4	A 916	X BAR GROUND		
A1H0-4	E3	A 933	X BAR GROUND		
A1H1-A*	J1-NN	A 816	X BAR COMMAND UNITS DIGIT 1		
A1H1-A*	A1H1-1	A 836	X BAR COMMAND UNITS DIGIT 1		
A1H1-B*	A1H0-B*	A 915	X BAR GROUND		
A1H1-B*	A1H2-B*	A 917	X BAR GROUND		
A1H1-1	A1H1-A*	A 836	X BAR COMMAND UNITS DIGIT 1		
A1H1-2	A1H0-2	A 876	X BAR HOLD (UNITS)		
A1H1-2	A1H2-2	A 877	X BAR HOLD (UNITS)		
A1H1-3	A1H0-3	A 886	X BAR INTERLOCK (UNITS)		
A1H1-3	A1H2-3	A 887	X BAR INTERLOCK (UNITS)		
A1H1-4	A1H0-4	A 916	X BAR GROUND		
A1H1-4	A1H2-4	A 918	X BAR GROUND		
A1H2-A*	J1-MM	A 817	X BAR COMMAND UNITS DIGIT 2		
A1H2-A*	A1H2-1	A 837	X BAR COMMAND UNITS DIGIT 2		
A1H2-B*	A1H1-B*	A 917	X BAR GROUND		
A1H2-B*	A1H3-B*	A 919	X BAR GROUND		
A1H2-1	A1H2-A*	A 837	X BAR COMMAND UNITS DIGIT 2		
A1H2-2	A1H1-2	A 877	X BAR HOLD (UNITS)		
A1H2-2	A1H3-2	A 878	X BAR HOLD (UNITS)		
A1H2-3	A1H1-3	A 887	X BAR INTERLOCK (UNITS)		
A1H2-3	A1H3-3	A 888	X BAR INTERLOCK (UNITS)		
A1H2-4	A1H1-4	A 918	X BAR GROUND		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 12 OF 89

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(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1H2-4	A1H3-4	A 920	X BAR GROUND		
A1H3-A*	J1-LL	A 818	X BAR COMMAND UNITS DIGIT 3		
A1H3-A*	A1H3-1	A 838	X BAR COMMAND UNITS DIGIT 3		
A1H3-B*	A1H2-B*	A 919	X BAR GROUND		
A1H3-B*	A1H4-B*	A 921	X BAR GROUND		
A1H3-1	A1H3-A*	A 838	X BAR COMMAND UNITS DIGIT 3		
A1H3-2	A1H2-2	A 878	X BAR HOLD (UNITS)		
A1H3-2	A1H4-2	A 879	X BAR HOLD (UNITS)		
A1H3-3	A1H2-3	A 888	X BAR INTERLOCK (UNITS)		
A1H3-3	A1H4-3	A 889	X BAR INTERLOCK (UNITS)		
A1H3-4	A1H2-4	A 920	X BAR GROUND		
A1H3-4	A1H4-4	A 922	X BAR GROUND		
A1H4-A*	J1-KK	A 819	X BAR COMMAND UNITS DIGIT 4		
A1H4-A*	A1H4-1	A 839	X BAR COMMAND UNITS DIGIT 4		
A1H4-B*	A1H3-B*	A 921	X BAR GROUND		
A1H4-B*	A1H5-B*	A 923	X BAR GROUND		
A1H4-1	A1H4-A*	A 839	X BAR COMMAND UNITS DIGIT 4		
A1H4-2	A1H3-2	A 879	X BAR HOLD (UNITS)		
A1H4-2	A1H5-2	A 880	X BAR HOLD (UNITS)		
A1H4-3	A1H3-3	A 889	X BAR INTERLOCK (UNITS)		
A1H4-3	A1H5-3	A 890	X BAR INTERLOCK (UNITS)		
A1H4-4	A1H3-4	A 922	X BAR GROUND		
A1H4-4	A1H5-4	A 924	X BAR GROUND		
A1H5-A*	J1-JJ	A 820	X BAR COMMAND UNITS DIGIT 5		
A1H5-A*	A1H5-1	A 840	X BAR COMMAND UNITS DIGIT 5		
A1H5-B*	A1H4-B*	A 923	X BAR GROUND		
A1H5-B*	A1H6-B*	A 925	X BAR GROUND		
A1H5-1	A1H5-A*	A 840	X BAR COMMAND UNITS DIGIT 5		
A1H5-2	A1H4-2	A 880	X BAR HOLD (UNITS)		
A1H5-2	A1H6-2	A 881	X BAR HOLD (UNITS)		
A1H5-3	A1H4-3	A 890	X BAR INTERLOCK (UNITS)		
A1H5-3	A1H6-3	A 891	X BAR INTERLOCK (UNITS)		

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A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 13 OF 89

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(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1H5-4	A1H4-4	A 924	X BAR GROUND		
A1H5-4	A1H6-4	A 926	X BAR GROUND		
A1H6-A*	J1-HH	A 821	X BAR COMMAND UNITS DIGIT 6		
A1H6-A*	A1H6-1	A 841	X BAR COMMAND UNITS DIGIT 6		
A1H6-B*	A1H5-B*	A 925	X BAR GROUND		
A1H6-B*	A1H7-B*	A 927	X BAR GROUND		
A1H6-1	A1H6-A*	A 841	X BAR COMMAND UNITS DIGIT 6		
A1H6-2	A1H5-2	A 881	X BAR HOLD (UNITS)		
A1H6-2	A1H7-2	A 882	X BAR HOLD (UNITS)		
A1H6-3	A1H5-3	A 891	X BAR INTERLOCK (UNITS)		
A1H6-3	A1H7-3	A 892	X BAR INTERLOCK (UNITS)		
A1H6-4	A1H5-4	A 926	X BAR GROUND		
A1H6-4	A1H7-4	A 928	X BAR GROUND		
A1H7-A*	J1-GG	A 822	X BAR COMMAND UNITS DIGIT 7		
A1H7-A*	A1H7-1	A 842	X BAR COMMAND UNITS DIGIT 7		
A1H7-B*	A1H6-B*	A 927	X BAR GROUND		
A1H7-B*	A1H8-B*	A 929	X BAR GROUND		
A1H7-1	A1H7-A*	A 842	X BAR COMMAND UNITS DIGIT 7		
A1H7-2	A1H6-2	A 882	X BAR HOLD (UNITS)		
A1H7-2	A1H8-2	A 883	X BAR HOLD (UNITS)		
A1H7-3	A1H6-3	A 892	X BAR INTERLOCK (UNITS)		
A1H7-3	A1H8-3	A 893	X BAR INTERLOCK (UNITS)		
A1H7-4	A1H6-4	A 928	X BAR GROUND		
A1H7-4	A1H8-4	A 930	X BAR GROUND		
A1H8-A*	J1-FF	A 823	X BAR COMMAND UNITS DIGIT 8		
A1H8-A*	A1H8-1	A 843	X BAR COMMAND UNITS DIGIT 8		
A1H8-B*	A1H7-B*	A 929	X BAR GROUND		
A1H8-B*	A1H9-B*	A 931	X BAR GROUND		
A1H8-1	A1H8-A*	A 843	X BAR COMMAND UNITS DIGIT 8		
A1H8-2	A1H7-2	A 883	X BAR HOLD (UNITS)		
A1H8-2	A1H9-2	A 884	X BAR HOLD (UNITS)		
A1H8-3	A1H7-3	A 893	X BAR INTERLOCK (UNITS)		

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A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 14 OF 89

(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1H8-3	A1H9-3	A 894	X BAR INTERLOCK (UNITS)		
A1H8-4	A1H7-4	A 930	X BAR GROUND		
A1H8-4	A1H9-4	A 932	X BAR GROUND		
A1H9-A*	J1-EE	A 824	X BAR COMMAND UNITS DIGIT 9		
A1H9-A*	A1H9-1	A 844	X BAR COMMAND UNITS DIGIT 9		
A1H9-B*	A1H8-B*	A 931	X BAR GROUND		
A1H9-1	A1H9-A*	A 844	X BAR COMMAND UNITS DIGIT 9		
A1H9-2	A1H8-2	A 884	X BAR HOLD (UNITS)		
A1H9-3	A1H8-3	A 894	X BAR INTERLOCK (UNITS)		
A1H9-4	A1H8-4	A 932	X BAR GROUND		
A1S0-A*	J1-DD	A 825	X BAR COMMAND TENS DIGIT 0		
A1S0-A*	A1S0-1	A 845	X BAR COMMAND TENS DIGIT 0		
A1S0-B*	E3	A 896	X BAR GROUND		
A1S0-B*	A1S1-B*	A 940	X BAR GROUND		
A1S0-1	A1S0-A*	A 845	X BAR COMMAND TENS DIGIT 0		
A1S0-2	J1-S*	A 855	X BAR SELECT (TENS)		
A1S0-2	A1S1-2	A 856	X BAR SELECT (TENS)		
A1S0-3	J1-R*	A 865	X BAR INTERLOCK (TENS)		
A1S0-3	A1S1-3	A 866	X BAR INTERLOCK (TENS)		
A1S0-4	A1S1-4	A 913	X BAR GROUND		
A1S0-4	E3	A 941	X BAR GROUND		
A1S1-A*	J1-CC	A 826	X BAR COMMAND TENS DIGIT 1		
A1S1-A*	A1S1-1	A 846	X BAR COMMAND TENS DIGIT 1		
A1S1-B*	A1S2-B*	A 897	X BAR GROUND		
A1S1-B*	A1S0-B*	A 940	X BAR GROUND		
A1S1-1	A1S1-A*	A 846	X BAR COMMAND TENS DIGIT 1		
A1S1-2	A1S0-2	A 856	X BAR SELECT (TENS)		
A1S1-2	A1S2-2	A 857	X BAR SELECT (TENS)		
A1S1-3	A1S0-3	A 866	X BAR INTERLOCK (TENS)		
A1S1-3	A1S2-3	A 867	X BAR INTERLOCK (TENS)		
A1S1-4	A1S2-4	A 898	X BAR GROUND		
A1S1-4	A1S0-4	A 913	X BAR GROUND		

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A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 15 OF 89

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(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1S2-A*	J1-BB	A 827	X BAR COMMAND TENS DIGIT 2		
A1S2-A*	A1S2-1	A 847	X BAR COMMAND TENS DIGIT 2		
A1S2-B*	A1S1-B*	A 897	X BAR GROUND		
A1S2-B*	A1S3-B*	A 899	X BAR GROUND		
A1S2-1	A1S2-A*	A 847	X BAR COMMAND TENS DIGIT 2		
A1S2-2	A1S1-2	A 857	X BAR SELECT (TENS)		
A1S2-2	A1S3-2	A 858	X BAR SELECT (TENS)		
A1S2-3	A1S1-3	A 867	X BAR INTERLOCK (TENS)		
A1S2-3	A1S3-3	A 868	X BAR INTERLOCK (TENS)		
A1S2-4	A1S1-4	A 898	X BAR GROUND		
A1S2-4	A1S3-4	A 900	X BAR GROUND		
A1S3-A*	J1-AA	A 828	X BAR COMMAND TENS DIGIT 3		
A1S3-A*	A1S3-1	A 848	X BAR COMMAND TENS DIGIT 3		
A1S3-B*	A1S2-B*	A 899	X BAR GROUND		
A1S3-B*	A1S4-B*	A 901	X BAR GROUND		
A1S3-1	A1S3-A*	A 848	X BAR COMMAND TENS DIGIT 3		
A1S3-2	A1S2-2	A 858	X BAR SELECT (TENS)		
A1S3-2	A1S4-2	A 859	X BAR SELECT (TENS)		
A1S3-3	A1S2-3	A 868	X BAR INTERLOCK (TENS)		
A1S3-3	A1S4-3	A 869	X BAR INTERLOCK (TENS)		
A1S3-4	A1S2-4	A 900	X BAR GROUND		
A1S3-4	A1S4-4	A 902	X BAR GROUND		
A1S4-A*	J1-Z*	A 829	X BAR COMMAND TENS DIGIT 4		
A1S4-A*	A1S4-1	A 849	X BAR COMMAND TENS DIGIT 4		
A1S4-B*	A1S3-B*	A 901	X BAR GROUND		
A1S4-B*	A1S5-B*	A 903	X BAR GROUND		
A1S4-1	A1S4-A*	A 849	X BAR COMMAND TENS DIGIT 4		
A1S4-2	A1S3-2	A 859	X BAR SELECT (TENS)		
A1S4-2	A1S5-2	A 860	X BAR SELECT (TENS)		
A1S4-3	A1S3-3	A 869	X BAR INTERLOCK (TENS)		
A1S4-3	A1S5-3	A 870	X BAR INTERLOCK (TENS)		
A1S4-4	A1S3-4	A 902	X BAR GROUND		

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A	99974	2901391	
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(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1S4-4	A1S5-4	A 904	X BAR GROUND		
A1S5-A*	J1-Y*	A 830	X BAR COMMAND TENS DIGIT 5		
A1S5-A*	A1S5-1	A 850	X BAR COMMAND TENS DIGIT 5		
A1S5-B*	A1S4-B*	A 903	X BAR GROUND		
A1S5-B*	A1S6-B*	A 905	X BAR GROUND		
A1S5-1	A1S5-A*	A 850	X BAR COMMAND TENS DIGIT 5		
A1S5-2	A1S4-2	A 860	X BAR SELECT (TENS)		
A1S5-2	A1S6-2	A 861	X BAR SELECT (TENS)		
A1S5-3	A1S4-3	A 870	X BAR INTERLOCK (TENS)		
A1S5-3	A1S6-3	A 871	X BAR INTERLOCK (TENS)		
A1S5-4	A1S4-4	A 904	X BAR GROUND		
A1S5-4	A1S6-4	A 906	X BAR GROUND		
A1S6-A*	J1-X*	A 831	X BAR COMMAND TENS DIGIT 6		
A1S6-A*	A1S6-1	A 851	X BAR COMMAND TENS DIGIT 6		
A1S6-B*	A1S5-B*	A 905	X BAR GROUND		
A1S6-B*	A1S7-B*	A 907	X BAR GROUND		
A1S6-1	A1S6-A*	A 851	X BAR COMMAND TENS DIGIT 6		
A1S6-2	A1S5-2	A 861	X BAR SELECT (TENS)		
A1S6-2	A1S7-2	A 862	X BAR SELECT (TENS)		
A1S6-3	A1S5-3	A 871	X BAR INTERLOCK (TENS)		
A1S6-3	A1S7-3	A 872	X BAR INTERLOCK (TENS)		
A1S6-4	A1S5-4	A 906	X BAR GROUND		
A1S6-4	A1S7-4	A 908	X BAR GROUND		
A1S7-A*	J1-W*	A 832	X BAR COMMAND TENS DIGIT 7		
A1S7-A*	A1S7-1	A 852	X BAR COMMAND TENS DIGIT 7		
A1S7-B*	A1S6-B*	A 907	X BAR GROUND		
A1S7-B*	A1S8-B*	A 909	X BAR GROUND		
A1S7-1	A1S7-A*	A 852	X BAR COMMAND TENS DIGIT 7		
A1S7-2	A1S6-2	A 862	X BAR SELECT (TENS)		
A1S7-2	A1S8-2	A 863	X BAR SELECT (TENS)		
A1S7-3	A1S6-3	A 872	X BAR INTERLOCK (TENS)		
A1S7-3	A1S8-3	A 873	X BAR INTERLOCK (TENS)		

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A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 17 OF 89	

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(CONT.) A1 CROSS BAR SWITCH 1901740 (SEE SHEET 3)

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A1S7-4	A1S6-4	A 908	X BAR GROUND		
A1S7-4	A1S8-4	A 910	X BAR GROUND		
A1S8-A*	J1-V*	A 833	X BAR COMMAND TENS DIGIT 8		
A1S8-A*	A1S8-1	A 853	X BAR COMMAND TENS DIGIT 8		
A1S8-B*	A1S7-B*	A 909	X BAR GROUND		
A1S8-B*	A1S9-B*	A 911	X BAR GROUND		
A1S8-1	A1S8-A*	A 853	X BAR COMMAND TENS DIGIT 8		
A1S8-2	A1S7-2	A 863	X BAR SELECT (TENS)		
A1S8-2	A1S9-2	A 864	X BAR SELECT (TENS)		
A1S8-3	A1S7-3	A 873	X BAR INTERLOCK (TENS)		
A1S8-3	A1S9-3	A 874	X BAR INTERLOCK (TENS)		
A1S8-4	A1S7-4	A 910	X BAR GROUND		
A1S8-4	A1S9-4	A 912	X BAR GROUND		
A1S9-A*	J1-U*	A 834	X BAR COMMAND TENS DIGIT 9		
A1S9-A*	A1S9-1	A 854	X BAR COMMAND TENS DIGIT 9		
A1S9-B*	A1S8-B*	A 911	X BAR GROUND		
A1S9-1	A1S9-A*	A 854	X BAR COMMAND TENS DIGIT 9		
A1S9-2	A1S8-2	A 864	X BAR SELECT (TENS)		
A1S9-3	A1S8-3	A 874	X BAR INTERLOCK (TENS)		
A1S9-4	A1S8-4	A 912	X BAR GROUND		

E1 CHASSIS GROUND

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E1	J1-T	A 803	CHASSIS GROUND		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 18 OF 89	

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E2 SPLICE REDUCER 1016006-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E2	J1-S	A 802	SHLD GROUND		
E2	SHLD A811	A 811A	SHLD GROUND		
E2	SHLD A812	A 812A	SHLD GROUND		
E2	SHLD A813	A 813A	SHLD GROUND		
E2	SHLD A814	A 814A	SHLD GROUND		
E2	SHLD A942	A 942A	SHLD GROUND		
E2	SHLD A944	A 944A	SHLD GROUND		

E3 SPLICE REDUCER 1016006-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E3	J1-T*	A 895	X BAR GROUND		
E3	A1S0-B*	A 896	X BAR GROUND		
E3	A1H0-B*	A 914	X BAR GROUND		
E3	A1H0-4	A 933	X BAR GROUND		
E3	A1S0-4	A 941	X BAR GROUND		

J1 CONNECTOR, RECEPTACLE MS3127E24-61P

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J1-A			SPARE		
J1-B			SPARE		
J1-C			SPARE		
J1-D			SPARE		
J1-E			SPARE		
J1-F			SPARE		
J1-G			SPARE		
J1-H			SPARE		
J1-J	J74	A945	~~SPARE~~ HIGH VDC CHASSIS GROUND		
J1-K	J73	A944L	~~SPARE~~ HIGH VDC (LO)		
J1-L	J72	A944R	~~SPARE~~ HIGH VDC (HI)		
J1-M	J77	A943	~~SPARE~~ LOW VDC CHASSIS GROUND		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B ~~A~~	SHEET 19 OF 89	

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(CONT.) J5 CONNECTOR, RECEPTACLE MS3127E24-61SX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J5-D	J30-Y	A 684	CHANNEL 90-6		
J5-E	J31-J	A 689	CHANNEL 92-3		
J5-F	J31-L	A 690	CHANNEL 92-4		
J5-G	J31-N	A 691	CHANNEL 92-5		
J5-H	J31-M	A 692	CHANNEL 92-6		
J5-J	J31-R	A 693	CHANNEL 93-3		
J5-K	J31-T	A 694	CHANNEL 93-4		
J5-L	J31-U	A 695	CHANNEL 93-5		
J5-M	J31-S	A 696	CHANNEL 93-2		
J5-N	J31-W	A 697	CHANNEL 94-3		
J5-P	J31-Y	A 698	CHANNEL 94-4		
J5-R	J31-Z	A 699	CHANNEL 94-5		
J5-S	J31-X	A 700	CHANNEL 94-2		
J5-T			SPARE		
J5-U			SPARE		
J5-V			SPARE		
J5-W			SPARE		
J5-X			SPARE		
J5-Y			SPARE		
J5-Z			SPARE		
J5-A*			SPARE		
J5-B*			SPARE		
J5-C*			SPARE		
J5-D*			SPARE		
J5-E*			SPARE		
J5-F*			SPARE		
J5-G*			SPARE		
J5-H*			SPARE		
J5-I*			SPARE		
J5-J*			SPARE		
J5-K*			SPARE		
J5-M*			SPARE		

SIZE	CODE IDENT NO.	
A	99974	2901391
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(CONT.) J5 CONNECTOR, RECEPTACLE MS3127E24-61SX

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J5-N*			SPARE		
J5-P*			SPARE		
J5-Q*			SPARE		
J5-R*			SPARE		
J5-S*			SPARE		
J5-T*			SPARE		
J5-U*			SPARE		
J5-V*			SPARE		
J5-W*			SPARE		
J5-X*			SPARE		
J5-Y*			SPARE		
J5-Z*			SPARE		
J5-AA			SPARE		
J5-BB			SPARE		
J5-CC			SPARE		
J5-DD			SPARE		
J5-EE			SPARE		
J5-FF			SPARE		
J5-GG			SPARE		
J5-HH			SPARE		
J5-JJ			SPARE		
J5-KK			SPARE		
J5-LL			SPARE		
J5-MM			SPARE		
J5-NN			SPARE		
J5-PP			SPARE		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 29 OF 89

J6 CONNECTOR, RECEPTACLE MS3127E24-61S

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J6-A	J24-A	A 555	CHANNEL 0-3		
J6-B	J24-B	A 556	CHANNEL 0-4		
J6-C	J10-B	A 473	CHANNEL 0-5		
J6-D	J10-E	A 474	CHANNEL 0-6		
J6-E	J24-C	A 557	CHANNEL 1-3		
J6-F	J24-D	A 558	CHANNEL 1-4		
J6-G	J10-H	A 475	CHANNEL 1-5		
J6-H	J10-K	A 476	CHANNEL 1-6		
J6-J	J24-E	A 559	CHANNEL 2-3		
J6-K	J24-F	A 560	CHANNEL 2-4		
J6-L	J10-M	A 477	CHANNEL 2-5		
J6-M	J10-P	A 478	CHANNEL 2-6		
J6-N	J24-H	A 561	CHANNEL 3-3		
J6-P	J24-K	A 562	CHANNEL 3-4		
J6-R	J10-S	A 479	CHANNEL 3-5		
J6-S	J10-U	A 480	CHANNEL 3-6		
J6-T	J24-L	A 563	CHANNEL 4-3		
J6-U	J24-M	A 564	CHANNEL 4-4		
J6-V	J10-W	A 481	CHANNEL 4-5		
J6-W	J10-Y	A 482	CHANNEL 4-6		
J6-X	J24-N	A 565	CHANNEL 5-3		
J6-Y	J24-P	A 566	CHANNEL 5-4		
J6-Z	J11-B	A 483	CHANNEL 5-5		
J6-A*	J11-D	A 484	CHANNEL 5-6		
J6-B*	J24-R	A 567	CHANNEL 6-3		
J6-C*	J24-S	A 568	CHANNEL 6-4		
J6-D*	J11-F	A 485	CHANNEL 6-5		
J6-E*	J11-J	A 486	CHANNEL 6-6		
J6-F*	J24-T	A 569	CHANNEL 7-3		
J6-G*	J24-U	A 570	CHANNEL 7-4		
J6-H*	J11-L	A 487	CHANNEL 7-5		
J6-I*	J11-N	A 488	CHANNEL 7-6		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 30 OF 89

(CONT.) J6 CONNECTOR, RECEPTACLE MS3127E24-61S

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J6-J*	J24-V	A 571	CHANNEL 8-3		
J6-K*	J24-W	A 572	CHANNEL 8-4		
J6-M*	J11-R	A 489	CHANNEL 8-5		
J6-N*	J11-T	A 490	CHANNEL 8-6		
J6-P*	J25-A	A 575	CHANNEL 10-3		
J6-Q*	J25-B	A 576	CHANNEL 10-4		
J6-R*	J16-B	A 493	CHANNEL 10-5		
J6-S*	J16-D	A 494	CHANNEL 10-6		
J6-T*	J25-C	A 577	CHANNEL 11-3		
J6-U*	J25-D	A 578	CHANNEL 11-4		
J6-V*	J16-H	A 495	CHANNEL 11-5		
J6-W*	J16-K	A 496	CHANNEL 11-6		
J6-X*	J25-E	A 579	CHANNEL 12-3		
J6-Y*	J25-F	A 580	CHANNEL 12-4		
J6-Z*	J16-M	A 497	CHANNEL 12-5		
J6-AA	J16-P	A 498	CHANNEL 12-6		
J6-BB	J25-H	A 581	CHANNEL 13-3		
J6-CC	J25-J	A 582	CHANNEL 13-4		
J6-DD	J16-S	A 499	CHANNEL 13-5		
J6-EE	J16-U	A 500	CHANNEL 13-6		
J6-FF	J25-K	A 583	CHANNEL 14-3		
J6-GG	J25-L	A 584	CHANNEL 14-4		
J6-HH	J16-W	A 501	CHANNEL 14-5		
J6-JJ	J16-Y	A 502	CHANNEL 14-6		
J6-KK	J30-F	A 673	CHANNEL 82-7		
J6-LL	J30-H	A 674	CHANNEL 82-4		
J6-MM	J30-B	A 675	CHANNEL 82-5		
J6-NN	J30-D	A 676	CHANNEL 82-6		
J6-PP			SPARE		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 31 OF 89

J9 CONNECTOR, RECEPTACLE MS3127E24-61SW

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J9-A	J28-E	A 637	CHANNEL 64-3		
J9-B	J28-F	A 638	CHANNEL 64-4		
J9-C	J12-E	A 401	CHANNEL 64-5		
J9-D	J12-D	A 402	CHANNEL 64-6		
J9-E	J28-H	A 639	CHANNEL 65-3		
J9-F	J28-J	A 640	CHANNEL 65-4		
J9-G	J12-S	A 407	CHANNEL 65-5		
J9-H	J12-R	A 408	CHANNEL 65-6		
J9-J	J28-R	A 645	CHANNEL 68-3		
J9-K	J28-S	A 646	CHANNEL 68-4		
J9-L	J15-E	A 437	CHANNEL 68-5		
J9-M	J15-D	A 438	CHANNEL 68-6		
J9-N	J28-N	A 643	CHANNEL 67-3		
J9-P	J28-P	A 644	CHANNEL 67-4		
J9-R	J14-S	A 431	CHANNEL 67-5		
J9-S	J14-R	A 432	CHANNEL 67-6		
J9-T	J28-K	A 641	CHANNEL 66-3		
J9-U	J28-M	A 642	CHANNEL 66-4		
J9-V	J14-E	A 425	CHANNEL 66-5		
J9-W	J14-D	A 426	CHANNEL 66-6		
J9-X	J28-A	A 633	CHANNEL 62-3		
J9-Y	J28-B	A 634	CHANNEL 62-4		
J9-Z	J13-E	A 413	CHANNEL 62-5		
J9-A*	J13-D	A 414	CHANNEL 62-6		
J9-B*	J28-C	A 635	CHANNEL 63-3		
J9-C*	J28-D	A 636	CHANNEL 63-4		
J9-D*	J13-S	A 419	CHANNEL 63-5		
J9-E*	J13-R	A 420	CHANNEL 63-6		
J9-F*	J28-T	A 647	CHANNEL 69-3		
J9-G*	J28-U	A 648	CHANNEL 69-4		
J9-H*	J15-S	A 443	CHANNEL 69-5		
J9-I*	J15-R	A 444	CHANNEL 69-6		

SIZE A
CODE IDENT NO. 99974
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SCALE-NONE
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(CONT.) J9 CONNECTOR, RECEPTACLE MS3127E24-61SW

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J9-J*	J20-N	A 455	CHANNEL 71-3		
J9-K*	J20-P	A 456	CHANNEL 71-4		
J9-M*	J20-E	A 449	CHANNEL 71-5		
J9-N*	J20-D	A 450	CHANNEL 71-6		
J9-P*	J20-V	A 457	CHANNEL 70-3		
J9-Q*	J20-W	A 458	CHANNEL 70-4		
J9-R*	J20-S	A 459	CHANNEL 70-5		
J9-S*	J20-U	A 460	CHANNEL 70-6		
J9-T*	J28-V	A 649	CHANNEL 72-3		
J9-U*	J28-W	A 650	CHANNEL 72-4		
J9-V*	J21-D	A 461	CHANNEL 72-5		
J9-W*	J21-C	A 462	CHANNEL 72-6		
J9-X*	J28-X	A 651	CHANNEL 73-3		
J9-Y*	J28-Y	A 652	CHANNEL 73-4		
J9-Z*	J21-R	A 467	CHANNEL 73-5		
J9-AA	J21-P	A 468	CHANNEL 73-6		
J9-BB	J29-A	A 653	CHANNEL 74-3		
J9-CC	J29-B	A 654	CHANNEL 74-4		
J9-DD	J35-X	A 755	CHANNEL 74-5		
J9-EE	J35-Z	A 756	CHANNEL 74-6		
J9-FF	J29-C	A 655	CHANNEL 75-3		
J9-GG	J29-D	A 656	CHANNEL 75-4		
J9-HH	J36-B	A 757	CHANNEL 75-5		
J9-JJ	J36-D	A 758	CHANNEL 75-6		
J9-KK	J29-E	A 657	CHANNEL 76-3		
J9-LL	J29-F	A 658	CHANNEL 76-4		
J9-MM	J36-F	A 759	CHANNEL 76-5		
J9-NN	J36-J	A 760	CHANNEL 76-6		
J9-PP			SPARE		

SIZE A
CODE IDENT NO. 99974
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SCALE-NONE
REV LTR B
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J10 CONNECTOR, RECEPTACLE 1015957-170

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J10-A	P51-1	A 73	CHANNEL 00-1		
J10-B	J6-C	A 473	CHANNEL 00-5		
J10-C	P51-2	A 74	CHANNEL 00-2		
J10-E	J6-D	A 474	CHANNEL 00-6		
J10-F	P52-1	A 75	CHANNEL 01-1		
J10-H	J6-G	A 475	CHANNEL 01-5		
J10-J	P52-2	A 76	CHANNEL 01-2		
J10-K	J6-H	A 476	CHANNEL 01-6		
J10-L	P53-1	A 77	CHANNEL 02-1		
J10-M	J6-L	A 477	CHANNEL 02-5		
J10-N	P53-2	A 78	CHANNEL 02-2		
J10-P	J6-M	A 478	CHANNEL 02-6		
J10-R	P54-1	A 79	CHANNEL 03-1		
J10-S	J6-R	A 479	CHANNEL 03-5		
J10-T	P54-2	A 80	CHANNEL 03-2		
J10-U	J6-S	A 480	CHANNEL 03-6		
J10-V	P55-1	A 81	CHANNEL 04-1		
J10-W	J6-V	A 481	CHANNEL 04-5		
J10-X	P55-2	A 82	CHANNEL 04-2		
J10-Y	J6-W	A 482	CHANNEL 04-6		
J10-Z			SPARE		

J11 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J11-A	P56-1	A 83	CHANNEL 05-1		
J11-B	J6-Z	A 483	CHANNEL 05-5		
J11-C	P56-2	A 84	CHANNEL 05-2		
J11-D	J6-A*	A 484	CHANNEL 05-6		
J11-E	P57-1	A 85	CHANNEL 06-1		
J11-F	J6-D*	A 485	CHANNEL 06-5		

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CODE IDENT NO. 99974
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(CONT.) J11 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J11-H	P57-2	A 86	CHANNEL 06-2		
J11-J	J6-E*	A 486	CHANNEL 06-6		
J11-K	P58-1	A 87	CHANNEL 07-1		
J11-L	J6-H*	A 487	CHANNEL 07-5		
J11-M	P58-2	A 88	CHANNEL 07-2		
J11-N	J6-I*	A 488	CHANNEL 07-6		
J11-P	P59-1	A 89	CHANNEL 08-1		
J11-R	J6-M*	A 489	CHANNEL 08-5		
J11-S	P59-2	A 90	CHANNEL 08-2		
J11-T	J6-N*	A 490	CHANNEL 08-6		
J11-U	P60-1	A 91	CHANNEL 09-1		
J11-V	J4-C	A 491	CHANNEL 09-5		
J11-W	P60-2	A 92	CHANNEL 09-2		
J11-X	J4-D	A 492	CHANNEL 09-6		
J11-Y			SPARE		
J11-Z			SPARE		

J12 CONNECTOR RECEPTACLE 1015957-167

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J12-B	P65-24	A 1	CHANNEL 64-1		
J12-C	P51-25	A 5	CHANNEL 40-1		
J12-D	J9-D	A 402	CHANNEL 64-6		
J12-E	J9-C	A 401	CHANNEL 64-5		
J12-F	J2-C	A 403	CHANNEL 40-5		
J12-H	P51-27	A 7	CHANNEL 40-3		
J12-H	J2-A	A 405	CHANNEL 40-3		
J12-J	P65-23	A 2	CHANNEL 64-2		
J12-K	P51-26	A 6	CHANNEL 40-2		
J12-L	P51-30	A 8	CHANNEL 40-4		
J12-L	J2-B	A 406	CHANNEL 40-4		

SIZE A
CODE IDENT NO. 99974
2901391
SCALE-NONE
REV LTR B
SHEET 39 OF 89

MIL 2084 9-65

(CONT.) J12 CONNECTOR RECEPTACLE 1015957-167

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J12-M	J2-D	A 404	CHANNEL 40-6		
J12-N	P66-24	A 3	CHANNEL 65-1		
J12-P	P52-25	A 9	CHANNEL 41-1		
J12-R	J9-H	A 408	CHANNEL 65-6		
J12-S	J9-G	A 407	CHANNEL 65-5		
J12-T	J2-G	A 411	CHANNEL 41-5		
J12-U	P52-27	A 11	CHANNEL 41-3		
J12-U	J2-F	A 409	CHANNEL 41-3		
J12-V	P66-23	A 4	CHANNEL 65-2		
J12-W	P52-26	A 10	CHANNEL 41-2		
J12-X	P52-30	A 12	CHANNEL 41-4		
J12-X	J2-F	A 410	CHANNEL 41-4		
J12-Y	J2-H	A 412	CHANNEL 41-6		
J12-Z			SPARE		

J13 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J13-A			SPARE		
J13-B	P63-24	A 13	CHANNEL 62-1		
J13-C	P53-25	A 17	CHANNEL 42-1		
J13-D	J9-A*	A 414	CHANNEL 62-6		
J13-E	J9-Z	A 413	CHANNEL 62-5		
J13-F	J2-L	A 417	CHANNEL 42-5		
J13-H	P53-27	A 19	CHANNEL 42-3		
J13-H	J2-J	A 415	CHANNEL 42-3		
J13-J	P63-23	A 14	CHANNEL 62-2		
J13-K	P53-26	A 18	CHANNEL 42-2		
J13-L	P53-30	A 20	CHANNEL 42-4		
J13-L	J2-K	A 416	CHANNEL 42-4		
J13-M	J2-M	A 418	CHANNEL 42-6		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 40 OF 89

(CONT.) J13 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J13-N	P64-24	A 15	CHANNEL 63-1		
J13-P	P54-25	A 21	CHANNEL 43-1		
J13-R	J9-E*	A 420	CHANNEL 63-6		
J13-S	J9-D*	A 419	CHANNEL 63-5		
J13-T	J2-Z*	A 423	CHANNEL 43-5		
J13-U	P54-27	A 23	CHANNEL 43-3		
J13-U	J2-J*	A 421	CHANNEL 43-3		
J13-V	P64-23	A 16	CHANNEL 63-2		
J13-W	P54-26	A 22	CHANNEL 43-2		
J13-X	P54-30	A 24	CHANNEL 43-4		
J13-X	J2-K*	A 422	CHANNEL 43-4		
J13-Y	J2-AA	A 424	CHANNEL 43-6		
J13-Z			SPARE		

J14 CONNECTOR, RECEPTACLE 1015957-168

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J14-A	P67-24	A 25	CHANNEL 66-1		
J14-C	P55-25	A 29	CHANNEL 44-1		
J14-D	J9-W	A 426	CHANNEL 66-6		
J14-E	J9-V	A 425	CHANNEL 66-5		
J14-F	J2-JJ	A 429	CHANNEL 44-5		
J14-H	P55-27	A 31	CHANNEL 44-3		
J14-H	J2-GG	A 427	CHANNEL 44-3		
J14-J	P67-23	A 26	CHANNEL 66-2		
J14-K	P55-26	A 30	CHANNEL 44-2		
J14-L	P55-30	A 32	CHANNEL 44-4		
J14-L	J2-HH	A 428	CHANNEL 44-4		
J14-M	J2-KK	A 430	CHANNEL 44-6		
J14-N	P68-24	A 27	CHANNEL 67-1		
J14-P	P56-25	A 33	CHANNEL 45-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 41 OF 89

(CONT.) J14 CONNECTOR, RECEPTACLE 1015957-168

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J14-R	J9-S	A 432	CHANNEL 67-6		
J14-S	J9-R	A 431	CHANNEL 67-5		
J14-T	J2-X*	A 435	CHANNEL 45-5		
J14-U	P56-27	A 35	CHANNEL 45-3		
J14-U	J2-V*	A 433	CHANNEL 45-3		
J14-V	P68-23	A 28	CHANNEL 67-2		
J14-W	P56-26	A 34	CHANNEL 45-2		
J14-X	P56-30	A 36	CHANNEL 45-4		
J14-X	J2-W*	A 434	CHANNEL 45-4		
J14-Y	J2-Y*	A 436	CHANNEL 45-6		
J14-Z			SPARE		

J15 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J15-A			SPARE		
J15-B	P69-24	A 37	CHANNEL 68-1		
J15-C	P57-25	A 41	CHANNEL 46-1		
J15-D	J9-M	A 438	CHANNEL 68-6		
J15-E	J9-L	A 437	CHANNEL 68-5		
J15-F	J2-D*	A 441	CHANNEL 46-5		
J15-H	P57-27	A 43	CHANNEL 46-3		
J15-H	J2-B*	A 439	CHANNEL 46-3		
J15-J	P69-23	A 38	CHANNEL 68-2		
J15-K	P57-26	A 42	CHANNEL 46-2		
J15-L	P57-30	A 44	CHANNEL 46-4		
J15-L	J2-C*	A 440	CHANNEL 46-4		
J15-M	J2-E*	A 442	CHANNEL 46-6		
J15-N	P70-24	A 39	CHANNEL 69-1		
J15-P	P58-25	A 45	CHANNEL 47-1		
J15-R	J9-I*	A 444	CHANNEL 69-6		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 42 OF 89

(CONT.) J15 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J15-S	J9-H*	A 443	CHANNEL 69-5		
J15-T	J8-C	A 447	CHANNEL 47-5		
J15-U	P58-27	A 47	CHANNEL 47-3		
J15-U	J8-A	A 445	CHANNEL 47-3		
J15-V	P70-23	A 40	CHANNEL 69-2		
J15-W	P58-26	A 46	CHANNEL 47-2		
J15-X	P58-30	A 48	CHANNEL 47-4		
J15-X	J8-B	A 446	CHANNEL 47-4		
J15-Y	J8-D	A 448	CHANNEL 47-6		
J15-Z			SPARE		

J16 CONNECTOR, RECEPTACLE 1015957-171

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J16-A	P51-7	A 93	CHANNEL 10-1		
J16-B	J6-R*	A 493	CHANNEL 10-5		
J16-C	P51-8	A 94	CHANNEL 10-2		
J16-D	J6-S*	A 494	CHANNEL 10-6		
J16-F	P52-7	A 95	CHANNEL 11-1		
J16-H	J6-V*	A 495	CHANNEL 11-5		
J16-J	P52-8	A 96	CHANNEL 11-2		
J16-K	J6-W*	A 496	CHANNEL 11-6		
J16-L	P53-7	A 97	CHANNEL 12-1		
J16-M	J6-Z*	A 497	CHANNEL 12-5		
J16-N	P53-8	A 98	CHANNEL 12-2		
J16-P	J6-AA	A 498	CHANNEL 12-6		
J16-R	P54-7	A 99	CHANNEL 13-1		
J16-S	J6-DD	A 499	CHANNEL 13-5		
J16-T	P54-8	A 100	CHANNEL 13-2		
J16-U	J6-EE	A 500	CHANNEL 13-6		
J16-V	P55-7	A 101	CHANNEL 14-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 43 OF 89

(CONT.) J16 CONNECTOR, RECEPTACLE 1015957-171

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J16-W	J6-HH	A 501	CHANNEL 14-5		
J16-X	P55-8	A 102	CHANNEL 14-2		
J16-Y	J6-JJ	A 502	CHANNEL 14-6		
J16-Z			SPARE		

J17 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J17-A	P56-7	A 103	CHANNEL 15-1		
J17-B	J2-H*	A 503	CHANNEL 15-5		
J17-C	P56-8	A 104	CHANNEL 15-2		
J17-D	J2-I*	A 504	CHANNEL 15-6		
J17-E	P57-7	A 105	CHANNEL 16-1		
J17-F	J2-NN	A 505	CHANNEL 16-5		
J17-H	P57-8	A 106	CHANNEL 16-2		
J17-J	J2-PP	A 506	CHANNEL 16-6		
J17-K	P58-7	A 107	CHANNEL 17-1		
J17-L	J3-C	A 507	CHANNEL 17-5		
J17-M	P58-8	A 108	CHANNEL 17-2		
J17-N	J3-D	A 508	CHANNEL 17-6		
J17-P	P59-7	A 109	CHANNEL 18-1		
J17-R	J3-G	A 509	CHANNEL 18-5		
J17-S	P59-8	A 110	CHANNEL 18-2		
J17-T	J3-H	A 510	CHANNEL 18-6		
J17-U	P60-7	A 111	CHANNEL 19-1		
J17-V	J3-L	A 511	CHANNEL 19-5		
J17-W	P60-8	A 112	CHANNEL 19-2		
J17-X	J3-M	A 512	CHANNEL 19-6		
J17-Y			SPARE		
J17-Z			SPARE		

J18 CONNECTOR, RECEPTACLE 1015957-172

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J18-A	P51-13	A 113	CHANNEL 20-1		
J18-B	J3-R	A 513	CHANNEL 20-5		
J18-C	P51-14	A 114	CHANNEL 20-2		
J18-C	J3-S	A 514	CHANNEL 20-2		
J18-D			SPARE		
J18-E	P52-13	A 115	CHANNEL 21-1		
J18-H	J3-V	A 515	CHANNEL 21-5		
J18-J	P52-14	A 116	CHANNEL 21-2		
J18-K	J3-W	A 516	CHANNEL 21-6		
J18-L	P53-13	A 117	CHANNEL 22-1		
J18-M	J3-Z	A 517	CHANNEL 22-5		
J18-N	P53-14	A 118	CHANNEL 22-2		
J18-P	J3-A*	A 518	CHANNEL 22-6		
J18-R	P54-13	A 119	CHANNEL 23-1		
J18-S	J3-D*	A 519	CHANNEL 23-5		
J18-T	P54-14	A 120	CHANNEL 23-2		
J18-U	J3-E*	A 520	CHANNEL 23-6		
J18-V	P55-13	A 121	CHANNEL 24-1		
J18-W	J3-H*	A 521	CHANNEL 24-5		
J18-X	P55-14	A 122	CHANNEL 24-2		
J18-Y	J3-I*	A 522	CHANNEL 24-6		
J18-Z			SPARE		

J19 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J19-A	P56-13	A 123	CHANNEL 25-1		
J19-B	J3-M*	A 523	CHANNEL 25-5		
J19-C	P56-14	A 124	CHANNEL 25-2		
J19-D	J3-N*	A 524	CHANNEL 25-6		
J19-E	P57-13	A 125	CHANNEL 26-1		

(CONT.) J19 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J19-F	J7-C	A 525	CHANNEL 26-5		
J19-H	P57-14	A 126	CHANNEL 26-2		
J19-J	J7-D	A 526	CHANNEL 26-6		
J19-K	P58-13	A 127	CHANNEL 27-1		
J19-L	J7-G	A 527	CHANNEL 27-5		
J19-M	P58-14	A 128	CHANNEL 27-2		
J19-N	J7-H	A 528	CHANNEL 27-6		
J19-P	P59-13	A 129	CHANNEL 28-1		
J19-R	J7-L	A 529	CHANNEL 28-5		
J19-S	P59-14	A 130	CHANNEL 28-2		
J19-T	J7-M	A 530	CHANNEL 28-6		
J19-U	P60-13	A 131	CHANNEL 29-1		
J19-V	J7-R	A 531	CHANNEL 29-5		
J19-W	P60-14	A 132	CHANNEL 29-2		
J19-X	J7-S	A 532	CHANNEL 29-6		
J19-Y			SPARE		
J19-Z			SPARE		

J20 CONNECTOR, RECEPTACLE 1015957-169

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J20-A	P62-18	A 49	CHANNEL 71-1		
J20-B	P59-25	A 57	CHANNEL 48-1		
J20-D	J9-N*	A 450	CHANNEL 71-6		
J20-E	J9-M*	A 449	CHANNEL 71-5		
J20-F	J8-G	A 453	CHANNEL 48-5		
J20-H	P59-27	A 59	CHANNEL 48-3		
J20-H	J8-E	A 451	CHANNEL 48-3		
J20-J	P62-17	A 50	CHANNEL 71-2		
J20-K	P59-26	A 58	CHANNEL 48-2		
J20-L	P59-30	A 60	CHANNEL 48-4		

(CONT.) J20 CONNECTOR, RECEPTACLE 1015957-169

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J20-L	J8-F	A 452	CHANNEL 48-4		
J20-M	J8-H	A 454	CHANNEL 48-6		
J20-N	P62-16	A 51	CHANNEL 71-3		
J20-N	J9-J*	A 455	CHANNEL 71-3		
J20-P	P62-13	A 52	CHANNEL 71-4		
J20-P	J9-K*	A 456	CHANNEL 71-4		
J20-R	P61-18	A 53	CHANNEL 70-1		
J20-S	J9-R*	A 459	CHANNEL 70-5		
J20-T	P61-17	A 54	CHANNEL 70-2		
J20-U	J9-S*	A 460	CHANNEL 70-6		
J20-V	P61-16	A 55	CHANNEL 70-3		
J20-V	J9-P*	A 457	CHANNEL 70-3		
J20-W	P61-13	A 56	CHANNEL 70-4		
J20-W	J9-Q*	A 458	CHANNEL 70-4		
J20-X			SPARE		
J20-Y			SPARE		
J20-Z			SPARE		

J21 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J21-A	P63-18	A 61	CHANNEL 72-1		
J21-B	P60-25	A 65	CHANNEL 49-1		
J21-C	J9-W*	A 462	CHANNEL 72-6		
J21-D	J9-V*	A 461	CHANNEL 72-5		
J21-E	J8-L	A 465	CHANNEL 49-5		
J21-F	P60-27	A 67	CHANNEL 49-3		
J21-F	J8-J	A 463	CHANNEL 49-3		
J21-H	P63-17	A 62	CHANNEL 72-2		
J21-J	P60-26	A 66	CHANNEL 49-2		
J21-K	P60-30	A 68	CHANNEL 49-4		

(CONT.) J21 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J21-K	J9-K	A 464	CHANNEL 49-4		
J21-L	J8-M	A 466	CHANNEL 49-6		
J21-M	P64-18	A 63	CHANNEL 73-1		
J21-N	P61-30	A 69	CHANNEL 50-1		
J21-P	J9-AA	A 468	CHANNEL 73-6		
J21-R	J9-Z*	A 467	CHANNEL 73-5		
J21-S	J8-R	A 471	CHANNEL 50-5		
J21-T	P61-26	A 71	CHANNEL 50-3		
J21-T	J8-N	A 469	CHANNEL 50-3		
J21-U	P64-17	A 64	CHANNEL 73-2		
J21-V	P61-29	A 70	CHANNEL 50-2		
J21-W	P61-25	A 72	CHANNEL 50-4		
J21-W	J8-P	A 470	CHANNEL 50-4		
J21-X	J8-S	A 472	CHANNEL 50-6		
J21-Y			SPARE		
J21-Z			SPARE		

J22 CONNECTOR, RECEPTACLE 1015957-173

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J22-A	P51-19	A 133	CHANNEL 30-1		
J22-B	J7-V	A 533	CHANNEL 30-5		
J22-C	P51-20	A 134	CHANNEL 30-2		
J22-D	J7-W	A 534	CHANNEL 30-6		
J22-E	P52-19	A 135	CHANNEL 31-1		
J22-F	J7-Z	A 535	CHANNEL 31-5		
J22-J	P52-20	A 136	CHANNEL 31-2		
J22-K	J7-A*	A 536	CHANNEL 31-6		
J22-L	P53-19	A 137	CHANNEL 32-1		
J22-M	J7-D*	A 537	CHANNEL 32-5		
J22-N	P53-20	A 138	CHANNEL 32-2		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 48 OF 89

(CONT.) J22 CONNECTOR, RECEPTACLE 1015957-173

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J22-P	J7-F*	A 538	CHANNEL 32-6		
J22-R	P54-19	A 139	CHANNEL 33-1		
J22-S	J7-H*	A 539	CHANNEL 33-5		
J22-T	P54-20	A 140	CHANNEL 33-2		
J22-U	J7-I*	A 540	CHANNEL 33-6		
J22-V	P55-19	A 141	CHANNEL 34-1		
J22-W	J7-M*	A 541	CHANNEL 34-5		
J22-X	P55-20	A 142	CHANNEL 34-2		
J22-Y	J7-N*	A 542	CHANNEL 34-6		
J22-Z			SPARE		

J23 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J23-A	P56-19	A 143	CHANNEL 35-1		
J23-B	J7-R*	A 543	CHANNEL 35-5		
J23-C	P56-20	A 144	CHANNEL 35-2		
J23-C	J7-S*	A 544	CHANNEL 35-2		
J23-D	P57-19	A 145	CHANNEL 36-1		
J23-E	J7-V*	A 545	CHANNEL 36-5		
J23-F	P57-20	A 146	CHANNEL 36-2		
J23-H	J7-W*	A 546	CHANNEL 36-6		
J23-J	P58-19	A 147	CHANNEL 37-1		
J23-K	J4-G	A 547	CHANNEL 37-5		
J23-L	P58-20	A 148	CHANNEL 37-2		
J23-L	J4-H	A 548	CHANNEL 37-2		
J23-M	P59-19	A 149	CHANNEL 38-1		
J23-N	J7-Z*	A 549	CHANNEL 38-5		
J23-P	P59-20	A 150	CHANNEL 38-2		
J23-R	J7-AA	A 550	CHANNEL 38-6		
J23-S	P60-19	A 151	CHANNEL 39-1		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 49 OF 89

(CONT.) J23 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J23-T	J7-DD	A 551	CHANNEL 39-5		
J23-U	P60-20	A 152	CHANNEL 39-2		
J23-U	J7-EE	A 552	CHANNEL 39-2		
J23-V	P57-21	A 153	CHANNEL 36-3		
J23-W	J7-T*	A 553	CHANNEL 36-7		
J23-X	P57-24	A 154	CHANNEL 36-4		
J23-X	J7-U*	A 554	CHANNEL 36-4		
J23-Y			SPARE		
J23-Z			SPARE		

J24 CONNECTOR, RECEPTACLE 1015957-174

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J24-A	P51-3	A 155	CHANNEL 00-3		
J24-A	J6-A	A 555	CHANNEL 00-3		
J24-B	P51-6	A 156	CHANNEL 00-4		
J24-B	J6-B	A 556	CHANNEL 00-4		
J24-C	P52-3	A 157	CHANNEL 01-3		
J24-C	J6-E	A 557	CHANNEL 01-3		
J24-D	P52-6	A 158	CHANNEL 01-4		
J24-D	J6-F	A 558	CHANNEL 01-4		
J24-E	P53-3	A 159	CHANNEL 02-3		
J24-E	J6-J	A 559	CHANNEL 02-3		
J24-F	P53-6	A 160	CHANNEL 02-4		
J24-F	J6-K	A 560	CHANNEL 02-4		
J24-H	P54-3	A 161	CHANNEL 03-3		
J24-H	J6-N	A 561	CHANNEL 03-3		
J24-K	P54-6	A 162	CHANNEL 03-4		
J24-K	J6-P	A 562	CHANNEL 03-4		
J24-L	P55-3	A 163	CHANNEL 04-3		
J24-L	J6-T	A 563	CHANNEL 04-3		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 50 OF 89

(CONT.) J24 CONNECTOR, RECEPTACLE 1015957-174

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J24-M	P55-6	A 164	CHANNEL 04-4		
J24-M	J6-U	A 564	CHANNEL 04-4		
J24-N	P56-3	A 165	CHANNEL 05-3		
J24-N	J6-X	A 565	CHANNEL 05-3		
J24-P	P56-6	A 166	CHANNEL 05-4		
J24-P	J6-Y	A 566	CHANNEL 05-4		
J24-R	P57-3	A 167	CHANNEL 06-3		
J24-R	J6-B*	A 567	CHANNEL 06-3		
J24-S	P57-6	A 168	CHANNEL 06-4		
J24-S	J6-C*	A 568	CHANNEL 06-4		
J24-T	P58-3	A 169	CHANNEL 07-3		
J24-T	J6-F*	A 569	CHANNEL 07-3		
J24-U	P58-6	A 170	CHANNEL 07-4		
J24-U	J6-G*	A 570	CHANNEL 07-4		
J24-V	P59-3	A 171	CHANNEL 08-3		
J24-V	J6-J*	A 571	CHANNEL 08-3		
J24-W	P59-6	A 172	CHANNEL 08-4		
J24-W	J6-K*	A 572	CHANNEL 08-4		
J24-X	P60-3	A 173	CHANNEL 09-3		
J24-Y	J4-A	A 573	CHANNEL 09-7		
J24-Z	P60-6	A 174	CHANNEL 09-4		
J24-Z	J4-B	A 574	CHANNEL 09-4		

J25 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J25-A	P51-9	A 175	CHANNEL 10-3		
J25-A	J6-P*	A 575	CHANNEL 10-3		
J25-B	P51-12	A 176	CHANNEL 10-4		
J25-B	J6-Q*	A 576	CHANNEL 10-4		
J25-C	P52-9	A 177	CHANNEL 11-3		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 51 OF 89

(CONT.) J25 . CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J25-C	J6-T*	A 577	CHANNEL 11-3		
J25-D	P52-12	A 178	CHANNEL 11-4		
J25-D	J6-U*	A 578	CHANNEL 11-4		
J25-E	P53-9	A 179	CHANNEL 12-3		
J25-E	J6-X*	A 579	CHANNEL 12-3		
J25-F	P53-12	A 180	CHANNEL 12-4		
J25-F	J6-Y*	A 580	CHANNEL 12-4		
J25-H	P54-9	A 181	CHANNEL 13-3		
J25-H	J6-BB	A 581	CHANNEL 13-3		
J25-J	P54-12	A 182	CHANNEL 13-4		
J25-J	J6-CC	A 582	CHANNEL 13-4		
J25-K	P55-9	A 183	CHANNEL 14-3		
J25-K	J6-FF	A 583	CHANNEL 14-3		
J25-L	P55-12	A 184	CHANNEL 14-4		
J25-L	J6-GG	A 584	CHANNEL 14-4		
J25-M	P56-9	A 185	CHANNEL 15-3		
J25-M	J2-F*	A 585	CHANNEL 15-3		
J25-N	P56-12	A 186	CHANNEL 15-4		
J25-N	J2-G*	A 586	CHANNEL 15-4		
J25-P	P57-9	A 187	CHANNEL 16-3		
J25-P	J2-LL	A 587	CHANNEL 16-3		
J25-R	P57-12	A 188	CHANNEL 16-4		
J25-R	J2-MM	A 588	CHANNEL 16-4		
J25-S	P58-9	A 189	CHANNEL 17-3		
J25-S	J3-A	A 589	CHANNEL 17-3		
J25-T	P58-12	A 190	CHANNEL 17-4		
J25-T	J3-B	A 590	CHANNEL 17-4		
J25-U	P59-9	A 191	CHANNEL 18-3		
J25-U	J3-E	A 591	CHANNEL 18-3		
J25-V	P59-12	A 192	CHANNEL 18-4		
J25-V	J3-F	A 592	CHANNEL 18-4		
J25-W	P60-9	A 193	CHANNEL 19-3		

(CONT.) J25 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J25-W	J3-J	A 593	CHANNEL 19-3		
J25-X	P60-12	A 194	CHANNEL 19-4		
J25-X	J3-K	A 594	CHANNEL 19-4		
J25-Y	P51-15	A 195	CHANNEL 20-3		
J25-Y	J3-N	A 595	CHANNEL 20-3		
J25-Z	P51-18	A 196	CHANNEL 20-4		
J25-Z	J3-P	A 596	CHANNEL 20-4		

J26 CONNECTOR, RECEPTACLE 1015957-175

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J26-A			SPARE		
J26-B			SPARE		
J26-C	P52-15	A 197	CHANNEL 21-3		
J26-C	J3-T	A 597	CHANNEL 21-3		
J26-D	P52-18	A 198	CHANNEL 21-4		
J26-D	J3-U	A 598	CHANNEL 21-4		
J26-E	P53-15	A 199	CHANNEL 22-3		
J26-E	J3-X	A 599	CHANNEL 22-3		
J26-F	P53-18	A 200	CHANNEL 22-4		
J26-F	J3-Y	A 600	CHANNEL 22-4		
J26-H	P54-15	A 201	CHANNEL 23-3		
J26-H	J3-B*	A 601	CHANNEL 23-3		
J26-J	P54-18	A 202	CHANNEL 23-4		
J26-J	J3-C*	A 602	CHANNEL 23-4		
J26-L	P55-15	A 203	CHANNEL 24-3		
J26-L	J3-F*	A 603	CHANNEL 24-3		
J26-M	P55-18	A 204	CHANNEL 24-4		
J26-M	J3-G*	A 604	CHANNEL 24-4		
J26-N	P56-15	A 205	CHANNEL 25-3		
J26-N	J3-J*	A 605	CHANNEL 25-3		

(CONT.) J26 CONNECTOR, RECEPTACLE 1015957-175

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J26-P	P56-18	A 206	CHANNEL 25-4		
J26-P	J3-K*	A 606	CHANNEL 25-4		
J26-R	P57-15	A 207	CHANNEL 26-3		
J26-R	J7-A	A 607	CHANNEL 26-3		
J26-S	P57-18	A 208	CHANNEL 26-4		
J26-S	J7-B	A 608	CHANNEL 26-4		
J26-T	P58-15	A 209	CHANNEL 27-3		
J26-T	J7-E	A 609	CHANNEL 27-3		
J26-U	P58-18	A 210	CHANNEL 27-4		
J26-U	J7-F	A 610	CHANNEL 27-4		
J26-V	P59-15	A 211	CHANNEL 28-3		
J26-V	J7-J	A 611	CHANNEL 28-3		
J26-W	P59-18	A 212	CHANNEL 28-4		
J26-W	J7-K	A 612	CHANNEL 28-4		
J26-X	P60-15	A 213	CHANNEL 29-3		
J26-X	J7-N	A 613	CHANNEL 29-3		
J26-Y	P60-18	A 214	CHANNEL 29-4		
J26-Y	J7-P	A 614	CHANNEL 29-4		
J26-Z			SPARE		

J27 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J27-A	P51-21	A 215	CHANNEL 30-3		
J27-A	J7-T	A 615	CHANNEL 30-3		
J27-B	P51-24	A 216	CHANNEL 30-4		
J27-B	J7-U	A 616	CHANNEL 30-4		
J27-C	P52-21	A 217	CHANNEL 31-3		
J27-C	J7-X	A 617	CHANNEL 31-3		
J27-D	P52-24	A 218	CHANNEL 31-4		
J27-D	J7-Y	A 618	CHANNEL 31-4		

(CONT.) J27 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J27-E	P53-21	A 219	CHANNEL 32-3		
J27-E	J7-B*	A 619	CHANNEL 32-3		
J27-F	P53-24	A 220	CHANNEL 32-4		
J27-F	J7-C*	A 620	CHANNEL 32-4		
J27-H	P54-21	A 221	CHANNEL 33-3		
J27-H	J7-F*	A 621	CHANNEL 33-3		
J27-J	P54-24	A 222	CHANNEL 33-4		
J27-J	J7-G*	A 622	CHANNEL 33-4		
J27-K	P55-21	A 223	CHANNEL 34-3		
J27-K	J7-J*	A 623	CHANNEL 34-3		
J27-L	P55-24	A 224	CHANNEL 34-4		
J27-L	J7-K*	A 624	CHANNEL 34-4		
J27-M	P56-21	A 225	CHANNEL 35-3		
J27-M	J7-P*	A 625	CHANNEL 35-3		
J27-N	P56-24	A 226	CHANNEL 35-4		
J27-N	J7-Q*	A 626	CHANNEL 35-4		
J27-P			SPARE		
J27-R			SPARE		
J27-S			SPARE		
J27-T	P58-21	A 227	CHANNEL 37-3		
J27-T	J4-E	A 627	CHANNEL 37-3		
J27-U	P58-24	A 228	CHANNEL 37-4		
J27-U	J4-F	A 628	CHANNEL 37-4		
J27-V	P59-21	A 229	CHANNEL 38-3		
J27-V	J7-X*	A 629	CHANNEL 38-3		
J27-W	P59-24	A 230	CHANNEL 38-4		
J27-W	J7-Y*	A 630	CHANNEL 38-4		
J27-X	P60-21	A 231	CHANNEL 39-3		
J27-X	J7-BB	A 631	CHANNEL 39-3		
J27-Y	P60-24	A 232	CHANNEL 39-4		
J27-Y	J7-CC	A 632	CHANNEL 39-4		
J27-Z			SPARE		

J28 CONNECTOR RECEPTACLE 1015957-176

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J28-A	P63-22	A 233	CHANNEL 62-3		
J28-A	J9-X	A 633	CHANNEL 62-3		
J28-B	P63-19	A 234	CHANNEL 62-4		
J28-B	J9-Y	A 634	CHANNEL 62-4		
J28-C	P64-22	A 235	CHANNEL 63-3		
J28-C	J9-B*	A 635	CHANNEL 63-3		
J28-D	P64-19	A 236	CHANNEL 63-4		
J28-D	J9-C*	A 636	CHANNEL 63-4		
J28-E	P65-22	A 237	CHANNEL 64-3		
J28-E	J9-A	A 637	CHANNEL 64-3		
J28-F	P65-19	A 238	CHANNEL 64-4		
J28-F	J9-B	A 638	CHANNEL 64-4		
J28-H	P66-22	A 239	CHANNEL 65-3		
J28-H	J9-E	A 639	CHANNEL 65-3		
J28-J	P66-19	A 240	CHANNEL 65-4		
J28-J	J9-F	A 640	CHANNEL 65-4		
J28-K	P67-22	A 241	CHANNEL 66-3		
J28-K	J9-T	A 641	CHANNEL 66-3		
J28-M	P67-19	A 242	CHANNEL 66-4		
J28-M	J9-U	A 642	CHANNEL 66-4		
J28-N	P68-22	A 243	CHANNEL 67-3		
J28-N	J9-N	A 643	CHANNEL 67-3		
J28-P	P68-19	A 244	CHANNEL 67-4		
J28-P	J9-P	A 644	CHANNEL 67-4		
J28-R	P69-22	A 245	CHANNEL 68-3		
J28-R	J9-J	A 645	CHANNEL 68-3		
J28-S	P69-19	A 246	CHANNEL 68-4		
J28-S	J9-K	A 646	CHANNEL 68-4		
J28-T	P70-22	A 247	CHANNEL 69-3		
J28-T	J9-F*	A 647	CHANNEL 69-3		
J28-U	P70-19	A 248	CHANNEL 69-4		
J28-U	J9-G*	A 648	CHANNEL 69-4		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 56 OF 89

(CONT.) J28 CONNECTOR RECEPTACLE 1015957-176

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J28-V	P63-16	A 249	CHANNEL 72-3		
J28-V	J9-T*	A 649	CHANNEL 72-3		
J28-W	P63-13	A 250	CHANNEL 72-4		
J28-W	J9-U*	A 650	CHANNEL 72-4		
J28-X	P64-16	A 251	CHANNEL 73-3		
J28-X	J9-X*	A 651	CHANNEL 73-3		
J28-Y	P64-13	A 252	CHANNEL 73-4		
J28-Y	J9-Y*	A 652	CHANNEL 73-4		
J28-Z			SPARE		

J29 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J29-A	P65-16	A 253	CHANNEL 74-3		
J29-A	J9-BB	A 653	CHANNEL 74-3		
J29-B	P65-13	A 254	CHANNEL 74-4		
J29-B	J9-CC	A 654	CHANNEL 74-4		
J29-C	P66-16	A 255	CHANNEL 75-3		
J29-C	J9-FF	A 655	CHANNEL 75-3		
J29-D	P66-13	A 256	CHANNEL 75-4		
J29-D	J9-GG	A 656	CHANNEL 75-4		
J29-E	P67-16	A 257	CHANNEL 76-3		
J29-E	J9-KK	A 657	CHANNEL 76-3		
J29-F	P67-13	A 258	CHANNEL 76-4		
J29-F	J9-LL	A 658	CHANNEL 76-4		
J29-H	P68-16	A 259	CHANNEL 77-3		
J29-H	J4-J	A 659	CHANNEL 77-3		
J29-J	P68-13	A 260	CHANNEL 77-4		
J29-J	J4-K	A 660	CHANNEL 77-4		
J29-K	P69-16	A 261	CHANNEL 78-3		
J29-K	J4-N	A 661	CHANNEL 78-3		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 57 OF 89

(CONT.) J29 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J29-L	P69-13	A 262	CHANNEL 78-4		
J29-L	J4-P	A 662	CHANNEL 78-4		
J29-M	P70-16	A 263	CHANNEL 79-3		
J29-M	J4-T	A 663	CHANNEL 79-3		
J29-N	P70-13	A 264	CHANNEL 79-4		
J29-N	J4-U	A 664	CHANNEL 79-4		
J29-P	P61-10	A 265	CHANNEL 80-3		
J29-P	J4-X	A 665	CHANNEL 80-3		
J29-R	P61-7	A 266	CHANNEL 80-4		
J29-R	J4-Y	A 666	CHANNEL 80-4		
J29-S	P62-10	A 267	CHANNEL 81-3		
J29-S	J4-B*	A 667	CHANNEL 81-3		
J29-T	P62-7	A 268	CHANNEL 81-4		
J29-T	J4-C*	A 668	CHANNEL 81-4		
J29-U	P66-10	A 269	CHANNEL 85-3		
J29-U	J4-F*	A 669	CHANNEL 85-3		
J29-V	P66-7	A 270	CHANNEL 85-4		
J29-V	J4-G*	A 670	CHANNEL 85-4		
J29-W	P67-10	A 271	CHANNEL 86-3		
J29-W	J4-J*	A 671	CHANNEL 86-3		
J29-X	P67-7	A 272	CHANNEL 86-4		
J29-X	J4-K*	A 672	CHANNEL 86-4		
J29-Y	J2-X	A 938	2-32VDC HI		
J29-Z	J2-BB	A 939	BUFFERED 2-32VDC HI		

J30 CONNECTOR, RECEPTACLE 1015957-179

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J30-A	P63-12	A 273	CHANNEL 82-1		
J30-B	J6-MM	A 675	CHANNEL 82-5		
J30-C	P63-11	A 274	CHANNEL 82-2		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 58 OF 89

(CONT.) J30 CONNECTOR, RECEPTACLE 1015957-179

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J30-D	J6-NN	A 676	CHANNEL 82-6		
J30-E	P63-10	A 275	CHANNEL 82-3		
J30-F	J6-KK	A 673	CHANNEL 82-7		
J30-H	P63-7	A 276	CHANNEL 82-4		
J30-H	J6-LL	A 674	CHANNEL 82-4		
J30-J	P64-12	A 277	CHANNEL 83-1		
J30-K	J4-R*	A 679	CHANNEL 83-5		
J30-L	P64-11	A 278	CHANNEL 83-2		
J30-M	J4-S*	A 680	CHANNEL 83-6		
J30-N	P64-10	A 279	CHANNEL 83-3		
J30-R	J4-P*	A 677	CHANNEL 83-7		
J30-S	P64-7	A 280	CHANNEL 83-4		
J30-S	J4-Q*	A 678	CHANNEL 83-4		
J30-T			SPARE		
J30-U	P61-6	A 281	CHANNEL 90-1		
J30-V	P61-4	A 283	CHANNEL 90-3		
J30-V	J5-A	A 681	CHANNEL 90-3		
J30-W	P61-5	A 282	CHANNEL 90-2		
J30-X	P61-1	A 284	CHANNEL 90-4		
J30-X	J5-B	A 682	CHANNEL 90-4		
J30-Y	J5-D	A 684	CHANNEL 90-6		
J30-Z	J5-C	A 683	CHANNEL 90-5		

J31 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J31-A	P62-6	A 285	CHANNEL 91-1		
J31-B	P62-4	A 287	CHANNEL 91-3		
J31-B	J4-T*	A 685	CHANNEL 91-3		
J31-C	P62-5	A 286	CHANNEL 91-2		
J31-D	P62-1	A 288	CHANNEL 91-4		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 59 OF 89

(CONT.) J31 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J31-D	J4-U*	A 686	CHANNEL 91-4		
J31-E	J4-W*	A 689	CHANNEL 91-6		
J31-F	J4-V*	A 687	CHANNEL 91-5		
J31-H	P63-6	A 289	CHANNEL 92-1		
J31-J	P63-4	A 291	CHANNEL 92-3		
J31-J	J5-E	A 689	CHANNEL 92-3		
J31-K	P63-5	A 290	CHANNEL 92-2		
J31-L	P63-1	A 292	CHANNEL 92-4		
J31-L	J5-F	A 690	CHANNEL 92-4		
J31-M	J5-H	A 692	CHANNEL 92-6		
J31-N	J5-G	A 691	CHANNEL 92-5		
J31-P	P64-6	A 293	CHANNEL 93-1		
J31-R	P64-4	A 295	CHANNEL 93-3		
J31-R	J5-J	A 693	CHANNEL 93-3		
J31-S	P64-5	A 294	CHANNEL 93-2		
J31-S	J5-M	A 696	CHANNEL 93-2		
J31-T	P64-1	A 296	CHANNEL 93-4		
J31-T	J5-K	A 694	CHANNEL 93-4		
J31-U	J5-L	A 695	CHANNEL 93-5		
J31-V	P65-6	A 297	CHANNEL 94-1		
J31-W	P65-4	A 299	CHANNEL 94-3		
J31-W	J5-N	A 697	CHANNEL 94-3		
J31-X	P65-5	A 298	CHANNEL 94-2		
J31-X	J5-S	A 700	CHANNEL 94-2		
J31-Y	P65-1	A 300	CHANNEL 94-4		
J31-Y	J5-P	A 698	CHANNEL 94-4		
J31-Z	J5-R	A 699	CHANNEL 94-5		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 60 OF 89

J32 CONNECTOR, RECEPTACLE 1015957-180

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J32-A	P65-12	A 301	CHANNEL 84-1		
J32-B	J4-Z*	A 703	CHANNEL 84-5		
J32-C	P65-11	A 302	CHANNEL 84-2		
J32-D	J4-AA	A 704	CHANNEL 84-6		
J32-E	P65-10	A 303	CHANNEL 84-3		
J32-F	J4-X*	A 701	CHANNEL 84-7		
J32-H	P65-7	A 304	CHANNEL 84-4		
J32-H	J4-Y*	A 702	CHANNEL 84-4		
J32-J	P68-10	A 305	CHANNEL 87-3		
J32-J	J3-P*	A 705	CHANNEL 87-3		
J32-K	P68-7	A 306	CHANNEL 87-4		
J32-K	J3-Q*	A 706	CHANNEL 87-4		
J32-L	P69-10	A 307	CHANNEL 88-3		
J32-M	J3-T*	A 707	CHANNEL 88-7		
J32-N	P69-7	A 308	CHANNEL 88-4		
J32-N	J3-U*	A 708	CHANNEL 88-4		
J32-P	P70-10	A 309	CHANNEL 89-3		
J32-S	J3-X*	A 709	CHANNEL 89-7		
J32-T	P70-7	A 310	CHANNEL 89-4		
J32-T	J3-Y*	A 710	CHANNEL 89-4		
J32-U	P62-30	A 311	CHANNEL 51-1		
J32-V	J8-V	A 713	CHANNEL 51-5		
J32-W	P62-29	A 312	CHANNEL 51-2		
J32-X	J8-W	A 714	CHANNEL 51-6		
J32-Y	P62-28	A 313	CHANNEL 51-3		
J32-Y	J8-T	A 711	CHANNEL 51-3		
J32-Z	P62-25	A 314	CHANNEL 51-4		
J32-Z	J8-U	A 712	CHANNEL 51-4		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 61 OF 89

J33 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J33-A	P63-30	A 315	CHANNEL 52-1		
J33-B	J8-Z	A 717	CHANNEL 52-5		
J33-C	P63-29	A 316	CHANNEL 52-2		
J33-D	J8-A*	A 718	CHANNEL 52-6		
J33-E	P63-28	A 317	CHANNEL 52-3		
J33-F	J8-X	A 715	CHANNEL 52-7		
J33-H	P63-25	A 318	CHANNEL 52-4		
J33-H	J8-Y	A 716	CHANNEL 52-4		
J33-J	P64-30	A 319	CHANNEL 53-1		
J33-K	J8-D*	A 721	CHANNEL 53-5		
J33-L	P64-29	A 320	CHANNEL 53-2		
J33-M	J8-E*	A 722	CHANNEL 53-6		
J33-N	P64-28	A 321	CHANNEL 53-3		
J33-P	J8-B*	A 719	CHANNEL 53-7		
J33-R	P64-25	A 322	CHANNEL 53-4		
J33-R	J8-C*	A 720	CHANNEL 53-4		
J33-S	P65-30	A 323	CHANNEL 54-1		
J33-T	J8-H*	A 725	CHANNEL 54-5		
J33-U	P65-29	A 324	CHANNEL 54-2		
J33-V	J8-I*	A 726	CHANNEL 54-6		
J33-W	P65-28	A 325	CHANNEL 54-3		
J33-X	J8-F*	A 723	CHANNEL 54-7		
J33-Y	P65-25	A 326	CHANNEL 54-4		
J33-Y	J8-G*	A 724	CHANNEL 54-4		
J33-Z			SPARE		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 62 OF 89

J34 CONNECTOR, RECEPTACLE 1015957-181

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J34-A	P66-30	A 327	CHANNEL 55-1		
J34-B	J8-M*	A 729	CHANNEL 55-5		
J34-C	P66-29	A 328	CHANNEL 55-2		
J34-D	J8-N*	A 730	CHANNEL 55-6		
J34-E	P66-28	A 329	CHANNEL 55-3		
J34-E	J8-J*	A 727	CHANNEL 55-3		
J34-F	P66-25	A 330	CHANNEL 55-4		
J34-F	J8-K*	A 728	CHANNEL 55-4		
J34-H	P67-30	A 331	CHANNEL 56-1		
J34-J	J8-R*	A 733	CHANNEL 56-5		
J34-K	P67-29	A 332	CHANNEL 56-2		
J34-K	J8-S*	A 734	CHANNEL 56-2		
J34-L	P67-28	A 333	CHANNEL 56-3		
J34-L	J8-P*	A 731	CHANNEL 56-3		
J34-M	P67-25	A 334	CHANNEL 56-4		
J34-M	J8-Q*	A 732	CHANNEL 56-4		
J34-N	P68-30	A 335	CHANNEL 57-1		
J34-P	J8-V*	A 737	CHANNEL 57-5		
J34-R	P68-29	A 336	CHANNEL 57-2		
J34-R	J8-W*	A 738	CHANNEL 57-2		
J34-T	P68-28	A 337	CHANNEL 57-3		
J34-T	J8-T*	A 735	CHANNEL 57-3		
J34-U	P68-25	A 338	CHANNEL 57-4		
J34-U	J8-U*	A 736	CHANNEL 57-4		
J34-V	P69-30	A 339	CHANNEL 58-1		
J34-W	J8-Z*	A 741	CHANNEL 58-5		
J34-X	P69-29	A 340	CHANNEL 58-2		
J34-X	J8-AA	A 742	CHANNEL 58-2		
J34-Y	P69-28	A 341	CHANNEL 58-3		
J34-Y	J8-X*	A 739	CHANNEL 58-3		
J34-Z	P69-25	A 342	CHANNEL 58-4		
J34-Z	J8-Y*	A 740	CHANNEL 58-4		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 63 OF 89

J35 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J35-A	P70-30	A 343	CHANNEL 59-1		
J35-B	J8-DD	A 745	CHANNEL 59-5		
J35-C	P70-29	A 344	CHANNEL 59-2		
J35-D	J8-EE	A 746	CHANNEL 59-6		
J35-E	P70-28	A 345	CHANNEL 59-3		
J35-E	J8-BB	A 743	CHANNEL 59-3		
J35-F	P70-25	A 346	CHANNEL 59-4		
J35-F	J8-CC	A 744	CHANNEL 59-4		
J35-H	P61-24	A 347	CHANNEL 60-1		
J35-J	J8-HH	A 749	CHANNEL 60-5		
J35-K	P61-23	A 348	CHANNEL 60-2		
J35-L	J8-JJ	A 750	CHANNEL 60-6		
J35-M	P61-22	A 349	CHANNEL 60-3		
J35-M	J8-FF	A 747	CHANNEL 60-3		
J35-N	P61-19	A 350	CHANNEL 60-4		
J35-N	J8-GG	A 748	CHANNEL 60-4		
J35-P	P62-24	A 351	CHANNEL 61-1		
J35-R	J8-MM	A 753	CHANNEL 61-5		
J35-S	P62-23	A 352	CHANNEL 61-2		
J35-T	J8-NN	A 754	CHANNEL 61-6		
J35-U	P62-22	A 353	CHANNEL 61-3		
J35-U	J8-KK	A 751	CHANNEL 61-3		
J35-V	P62-19	A 354	CHANNEL 61-4		
J35-V	J8-LL	A 752	CHANNEL 61-4		
J35-W	P65-18	A 355	CHANNEL 74-1		
J35-X	J9-DD	A 755	CHANNEL 74-5		
J35-Y	P65-17	A 356	CHANNEL 74-2		
J35-Z	J9-EE	A 756	CHANNEL 74-6		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 64 OF 89

MIL 2084 9-65

J36 CONNECTOR, RECEPTACLE 1015957-182

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J36-A	P66-18	A 357	CHANNEL 75-1		
J36-B	J9-HH	A 757	CHANNEL 75-5		
J36-C	P66-17	A 358	CHANNEL 75-2		
J36-D	J9-JJ	A 758	CHANNEL 75-6		
J36-E	P67-18	A 359	CHANNEL 76-1		
J36-F	J9-MM	A 759	CHANNEL 76-5		
J36-H	P67-17	A 360	CHANNEL 76-2		
J36-J	J9-NN	A 760	CHANNEL 76-6		
J36-K	P68-18	A 361	CHANNEL 77-1		
J36-L	J4-L	A 761	CHANNEL 77-5		
J36-M	P68-17	A 362	CHANNEL 77-2		
J36-N	J4-M	A 762	CHANNEL 77-6		
J36-P	P69-18	A 363	CHANNEL 78-1		
J36-R	J4-R	A 763	CHANNEL 78-5		
J36-S	P69-17	A 364	CHANNEL 78-2		
J36-U	J4-S	A 764	CHANNEL 78-6		
J36-V	P70-18	A 365	CHANNEL 79-1		
J36-W	J4-V	A 765	CHANNEL 79-5		
J36-X	P70-17	A 366	CHANNEL 79-2		
J36-Y	J4-W	A 766	CHANNEL 79-6		
J36-Z			SPARE		

J37 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J37-A	P61-12	A 367	CHANNEL 80-1		
J37-B	J4-Z	A 767	CHANNEL 80-5		
J37-C	P61-11	A 368	CHANNEL 80-2		
J37-D	J4-A*	A 768	CHANNEL 80-6		
J37-E	P62-12	A 369	CHANNEL 81-1		
J37-F	J4-D*	A 769	CHANNEL 81-5		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 65 OF 89

MIL 2084 9-65

(CONT.) J37 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J37-H	P62-11	A 370	CHANNEL 81-2		
J37-J	J4-E*	A 770	CHANNEL 81-6		
J37-K	P66-12	A 371	CHANNEL 85-1		
J37-L	J4-H*	A 771	CHANNEL 85-5		
J37-M	P66-11	A 372	CHANNEL 85-2		
J37-N	J4-I*	A 772	CHANNEL 85-6		
J37-P	P67-12	A 373	CHANNEL 86-1		
J37-R	J4-M*	A 773	CHANNEL 86-5		
J37-S	P67-11	A 374	CHANNEL 86-2		
J37-T	J4-N*	A 774	CHANNEL 86-6		
J37-U	P68-12	A 375	CHANNEL 87-1		
J37-V	J3-R*	A 775	CHANNEL 87-5		
J37-W	P68-11	A 376	CHANNEL 87-2		
J37-W	J3-S*	A 776	CHANNEL 87-2		
J37-X	P69-12	A 377	CHANNEL 88-1		
J37-Y	J3-V*	A 777	CHANNEL 88-5		
J37-Z	P69-11	A 378	CHANNEL 88-2		
J37-Z	J3-W*	A 778	CHANNEL 88-2		

J38 CONNECTOR, RECEPTACLE 1015957-183

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J38-A	P70-12	A 379	CHANNEL 89-1		
J38-B	J3-Z*	A 779	CHANNEL 89-5		
J38-C	P70-11	A 380	CHANNEL 89-2		
J38-C	J3-AA	A 780	CHANNEL 89-2		
J38-D			SPARE		
J38-E			SPARE		
J38-F			SPARE		
J38-H			SPARE		
J38-J			SPARE		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 66 OF 89

MIL 2084 9-65

(CONT.) J38 CONNECTOR, RECEPTACLE 1015957-183

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J38-K	P66-4	A 381	CHANNEL 95-3		
J38-K	J7-FF	A 781	CHANNEL 95-3		
J38-L	P66-1	A 382	CHANNEL 95-4		
J38-L	J7-GG	A 782	CHANNEL 95-4		
J38-M	P67-4	A 383	CHANNEL 96-3		
J38-N	J7-KK	A 783	CHANNEL 96-7		
J38-P	P67-1	A 384	CHANNEL 96-4		
J38-P	J7-LL	A 784	CHANNEL 96-4		
J38-R	P68-4	A 385	CHANNEL 97-3		
J38-S	J3-BB	A 785	CHANNEL 97-7		
J38-T	P68-1	A 386	CHANNEL 97-4		
J38-T	J3-CC	A 786	CHANNEL 97-4		
J38-V	P69-4	A 387	CHANNEL 98-3		
J38-W	J3-FF	A 787	CHANNEL 98-7		
J38-X	P69-1	A 388	CHANNEL 98-4		
J38-X	J3-GG	A 788	CHANNEL 98-4		
J38-Y	P70-4	A 389	CHANNEL 99-3		
J38-Y	J3-KK	A 789	CHANNEL 99-3		
J38-Z	P70-1	A 390	CHANNEL 99-4		
J38-Z	J3-LL	A 790	CHANNEL 99-4		

J39 CONNECTOR, RECEPTACLE 1015957-166

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
J39-A	P66-6	A 391	CHANNEL 95-1		
J39-B	J7-HH	A 791	CHANNEL 95-5		
J39-C	P66-5	A 392	CHANNEL 95-2		
J39-C	J7-JJ	A 792	CHANNEL 95-2		
J39-D	P67-6	A 393	CHANNEL 96-1		
J39-E	J7-MM	A 793	CHANNEL 96-5		
J39-F	P67-5	A 394	CHANNEL 96-2		

SIZE	CODE IDENT NO.	
A	99974	2901391
SCALE-NONE	REV LTR B	SHEET 67 OF 89

MIL 2084 9-65

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J39	CONNECTOR, RECEPTACLE 1015957-166				
J39-H	J7-NN	A 794	CHANNEL 96-6		
J39-J	P68-6	A 395	CHANNEL 97-1		
J39-K	J3-DD	A 795	CHANNEL 97-5		
J39-L	P68-5	A 396	CHANNEL 97-2		
J39-M	J3-EE	A 796	CHANNEL 97-6		
J39-N	P69-6	A 397	CHANNEL 98-1		
J39-P	J3-HH	A 797	CHANNEL 98-5		
J39-R	P69-5	A 398	CHANNEL 98-2		
J39-S	J3-JJ	A 798	CHANNEL 98-6		
J39-T	P70-6	A 399	CHANNEL 99-1		
J39-U	J3-MM	A 799	CHANNEL 99-5		
J39-V	P70-5	A 400	CHANNEL 99-2		
J39-W	J3-NN	A 800	CHANNEL 99-6		
J39-X			SPARE		
J39-Y			SPARE		
J39-Z			SPARE		
P51	CONNECTOR, PLUG 1897389-001				
P51-1	J10-A	A 73	CHANNEL 00-1		
P51-2	J10-C	A 74	CHANNEL 00-2		
P51-3	J24-A	A 155	CHANNEL 00-3		
P51-4			SPARE		
P51-5			SPARE		
P51-6	J24-B	A 156	CHANNEL 00-4		
P51-7	J16-A	A 93	CHANNEL 10-1		
P51-8	J16-C	A 94	CHANNEL 10-2		
P51-9	J25-A	A 175	CHANNEL 10-3		
P51-10			SPARE		
P51-11			SPARE		

J72 JACK, TIP-BANANA 1897302-001
J72 J1-L A944R HIGH VDC HI
J73 JACK, TIP-BANANA 1897302-002
J73 J1-K A944L HIGH VDC LO
J74 JACK, TIP-BANANA 1897302-002
J74 J1-J A945 HIGH VDC CHASSIS GRD
J75 JACK, TIP-BANANA 1897302-001
J75 J1-P A942R LOW VDC HI
J76 JACK, TIP-BANANA 1897302-002
J76 J1-N A942L LOW VDC LO
J77 JACK, TIP BANANA 1897302-002
J77 J1-M A943 LOW VDC CHASSIS GRD

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B ~~A~~	SHEET 68 OF 89	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) P51	CONNECTOR, PLUG 1897389-001				
P51-12	J25-B	A 176	CHANNEL 10-4		
P51-13	J18-A	A 113	CHANNEL 20-1		
P51-14	J18-C	A 114	CHANNEL 20-2		
P51-15	J25-Y	A 195	CHANNEL 20-3		
P51-16			SPARE		
P51-17			SPARE		
P51-18	J25-Z	A 196	CHANNEL 20-4		
P51-19	J22-A	A 133	CHANNEL 30-1		
P51-20	J22-C	A 134	CHANNEL 30-2		
P51-21	J27-A	A 215	CHANNEL 30-3		
P51-22			SPARE		
P51-23			SPARE		
P51-24	J27-B	A 216	CHANNEL 30-4		
P51-25	J12-C	A 5	CHANNEL 40-1		
P51-26	J12-K	A 6	CHANNEL 40-2		
P51-27	J12-H	A 7	CHANNEL 40-3		
P51-28			SPARE		
P51-29			SPARE		
P51-30	J12-L	A 8	CHANNEL 40-4		
P52	CONNECTOR, PLUG 1897389-001				
P52-1	J10-F	A 75	CHANNEL 01-1		
P52-2	J10-J	A 76	CHANNEL 01-2		
P52-3	J24-C	A 157	CHANNEL 01-3		
P52-4			SPARE		
P52-5			SPARE		
P52-6	J24-D	A 158	CHANNEL 01-4		
P52-7	J16-F	A 95	CHANNEL 11-1		
P52-8	J16-J	A 96	CHANNEL 11-2		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 69 OF 89	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) P52	CONNECTOR, PLUG 1897389-001				
P52-9	J25-C	A 177	CHANNEL 11-3		
P52-10			SPARE		
P52-11			SPARE		
P52-12	J25-D	A 178	CHANNEL 11-4		
P52-13	J18-E	A 115	CHANNEL 21-1		
P52-14	J18-J	A 116	CHANNEL 21-2		
P52-15	J26-C	A 197	CHANNEL 21-3		
P52-16			SPARE		
P52-17			SPARE		
P52-18	J26-D	A 198	CHANNEL 21-4		
P52-19	J22-E	A 135	CHANNEL 31-1		
P52-20	J22-J	A 136	CHANNEL 31-2		
P52-21	J27-C	A 217	CHANNEL 31-3		
P52-22			SPARE		
P52-23			SPARE		
P52-24	J27-D	A 218	CHANNEL 31-4		
P52-25	J12-P	A 9	CHANNEL 41-1		
P52-26	J12-W	A 10	CHANNEL 41-2		
P52-27	J12-U	A 11	CHANNEL 41-3		
P52-28			SPARE		
P52-29			SPARE		
P52-30	J12-X	A 12	CHANNEL 41-4		
P53	CONNECTOR, PLUG 1897389-001				
P53-1	J10-L	A 77	CHANNEL 02-1		
P53-2	J10-N	A 78	CHANNEL 02-2		
P53-3	J24-E	A 159	CHANNEL 02-3		
P53-4			SPARE		
P53-5			SPARE		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 70 OF 89	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) P53	CONNECTOR, PLUG 1897389-001				
P53-6	J24-F	A 160	CHANNEL 02-4		
P53-7	J16-L	A 97	CHANNEL 12-1		
P53-8	J16-N	A 98	CHANNEL 12-2		
P53-9	J25-E	A 179	CHANNEL 12-3		
P53-10			SPARE		
P53-11			SPARE		
P53-12	J25-F	A 180	CHANNEL 12-4		
P53-13	J18-L	A 117	CHANNEL 22-1		
P53-14	J18-N	A 118	CHANNEL 22-2		
P53-15	J26-E	A 199	CHANNEL 22-3		
P53-16			SPARE		
P53-17			SPARE		
P53-18	J26-F	A 200	CHANNEL 22-4		
P53-19	J22-L	A 137	CHANNEL 32-1		
P53-20	J22-N	A 138	CHANNEL 32-2		
P53-21	J27-E	A 219	CHANNEL 32-3		
P53-22			SPARE		
P53-23			SPARE		
P53-24	J27-F	A 220	CHANNEL 32-4		
P53-25	J13-C	A 17	CHANNEL 42-1		
P53-26	J13-K	A 18	CHANNEL 42-2		
P53-27	J13-H	A 19	CHANNEL 42-3		
P53-28			SPARE		
P53-29			SPARE		
P53-30	J13-L	A 20	CHANNEL 42-4		

SIZE	CODE IDENT NO.		
A	99974	2901391	
SCALE-NONE	REV LTR B	SHEET 71 OF 89	

P58 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P58-1	J11-K	A 87	CHANNEL 07-1		
P58-2	J11-M	A 88	CHANNEL 07-2		
P58-3	J24-T	A 169	CHANNEL 07-3		
P58-4			SPARE		
P58-5			SPARE		
P58-6	J24-U	A 170	CHANNEL 07-4		
P58-7	J17-K	A 107	CHANNEL 17-1		
P58-8	J17-M	A 108	CHANNEL 17-2		
P58-9	J25-S	A 189	CHANNEL 17-3		
P58-10			SPARE		
P58-11			SPARE		
P58-12	J25-T	A 190	CHANNEL 17-4		
P58-13	J19-K	A 127	CHANNEL 27-1		
P58-14	J19-M	A 128	CHANNEL 27-2		
P58-15	J26-T	A 209	CHANNEL 27-3		
P58-16			SPARE		
P58-17			SPARE		
P58-18	J26-U	A 210	CHANNEL 27-4		
P58-19	J23-J	A 147	CHANNEL 37-1		
P58-20	J23-L	A 148	CHANNEL 37-2		
P58-21	J27-T	A 227	CHANNEL 37-3		
P58-22			SPARE		
P58-23			SPARE		
P58-24	J27-U	A 228	CHANNEL 37-4		
P58-25	J15-P	A 45	CHANNEL 47-1		
P58-26	J15-W	A 46	CHANNEL 47-2		
P58-27	J15-U	A 47	CHANNEL 47-3		
P58-28			SPARE		
P58-29			SPARE		
P58-30	J15-X	A 48	CHANNEL 47-4		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 76 OF 89

P59 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P59-1	J11-P	A 89	CHANNEL 08-1		
P59-2	J11-S	A 90	CHANNEL 08-2		
P59-3	J24-V	A 171	CHANNEL 08-3		
P59-4			SPARE		
P59-5			SPARE		
P59-6	J24-W	A 172	CHANNEL 08-4		
P59-7	J17-P	A 109	CHANNEL 18-1		
P59-8	J17-S	A 110	CHANNEL 18-2		
P59-9	J25-U	A 191	CHANNEL 18-3		
P59-10			SPARE		
P59-11			SPARE		
P59-12	J25-V	A 192	CHANNEL 18-4		
P59-13	J19-P	A 129	CHANNEL 28-1		
P59-14	J19-S	A 130	CHANNEL 28-2		
P59-15	J26-V	A 211	CHANNEL 28-3		
P59-16			SPARE		
P59-17			SPARE		
P59-18	J26-W	A 212	CHANNEL 28-4		
P59-19	J23-M	A 149	CHANNEL 38-1		
P59-20	J23-P	A 150	CHANNEL 38-2		
P59-21	J27-V	A 229	CHANNEL 38-3		
P59-22			SPARE		
P59-23			SPARE		
P59-24	J27-W	A 230	CHANNEL 38-4		
P59-25	J20-B	A 57	CHANNEL 48-1		
P59-26	J20-K	A 58	CHANNEL 48-2		
P59-27	J20-H	A 59	CHANNEL 48-3		
P59-28			SPARE		
P59-29			SPARE		
P59-30	J20-L	A 60	CHANNEL 48-4		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 77 OF 89

P60 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P60-1	J11-U	A 91	CHANNEL 09-1		
P60-2	J11-W	A 92	CHANNEL 09-2		
P60-3	J24-X	A 173	CHANNEL 09-3		
P60-4			SPARE		
P60-5			SPARE		
P60-6	J24-Z	A 174	CHANNEL 09-4		
P60-7	J17-U	A 111	CHANNEL 19-1		
P60-8	J17-W	A 112	CHANNEL 19-2		
P60-9	J25-W	A 193	CHANNEL 19-3		
P60-10			SPARE		
P60-11			SPARE		
P60-12	J25-X	A 194	CHANNEL 19-4		
P60-13	J19-U	A 131	CHANNEL 29-1		
P60-14	J19-W	A 132	CHANNEL 29-2		
P60-15	J26-X	A 213	CHANNEL 29-3		
P60-16			SPARE		
P60-17			SPARE		
P60-18	J26-Y	A 214	CHANNEL 29-4		
P60-19	J23-S	A 151	CHANNEL 39-1		
P60-20	J23-U	A 152	CHANNEL 39-2		
P60-21	J27-X	A 231	CHANNEL 39-3		
P60-22			SPARE		
P60-23			SPARE		
P60-24	J27-Y	A 232	CHANNEL 39-4		
P60-25	J21-B	A 65	CHANNEL 49-1		
P60-26	J21-J	A 66	CHANNEL 49-2		
P60-27	J21-F	A 67	CHANNEL 49-3		
P60-28			SPARE		
P60-29			SPARE		
P60-30	J21-K	A 68	CHANNEL 49-4		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 78 OF 89

P61 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P61-1	J30-X	A 284	CHANNEL 90-4		
P61-2			SPARE		
P61-3			SPARE		
P61-4	J30-V	A 283	CHANNEL 90-3		
P61-5	J30-W	A 282	CHANNEL 90-2		
P61-6	J30-U	A 281	CHANNEL 90-1		
P61-7	J29-R	A 266	CHANNEL 80-4		
P61-8			SPARE		
P61-9			SPARE		
P61-10	J29-P	A 265	CHANNEL 80-3		
P61-11	J37-C	A 368	CHANNEL 80-2		
P61-12	J37-A	A 367	CHANNEL 80-1		
P61-13	J20-W	A 56	CHANNEL 70-4		
P61-14			SPARE		
P61-15			SPARE		
P61-16	J20-V	A 55	CHANNEL 70-3		
P61-17	J20-T	A 54	CHANNEL 70-2		
P61-18	J20-R	A 53	CHANNEL 70-1		
P61-19	J35-N	A 350	CHANNEL 60-4		
P61-20			SPARE		
P61-21			SPARE		
P61-22	J35-M	A 349	CHANNEL 60-3		
P61-23	J35-K	A 348	CHANNEL 60-2		
P61-24	J35-H	A 347	CHANNEL 60-1		
P61-25	J21-W	A 72	CHANNEL 50-4		
P61-26			SPARE		
P61-27			SPARE		
P61-28	J21-T	A 71	CHANNEL 50-3		
P61-29	J21-V	A 70	CHANNEL 50-2		
P61-30	J21-N	A 69	CHANNEL 50-1		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 7 OF 89

P62 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P62-1	J31-D	A 288	CHANNEL 91-4		
P62-2			SPARE		
P62-3			SPARE		
P62-4	J31-B	A 287	CHANNEL 91-3		
P62-5	J31-C	A 286	CHANNEL 91-2		
P62-6	J31-A	A 285	CHANNEL 91-1		
P62-7	J29-T	A 268	CHANNEL 81-4		
P62-8			SPARE		
P62-9			SPARE		
P62-10	J29-S	A 267	CHANNEL 81-3		
P62-11	J37-H	A 370	CHANNEL 81-2		
P62-12	J37-F	A 369	CHANNEL 81-1		
P62-13	J20-P	A 52	CHANNEL 71-4		
P62-14			SPARE		
P62-15			SPARE		
P62-16	J20-N	A 51	CHANNEL 71-3		
P62-17	J20-J	A 50	CHANNEL 71-2		
P62-18	J20-A	A 49	CHANNEL 71-1		
P62-19	J35-V	A 354	CHANNEL 61-4		
P62-20			SPARE		
P62-21			SPARE		
P62-22	J35-U	A 353	CHANNEL 61-3		
P62-23	J35-S	A 352	CHANNEL 61-2		
P62-24	J35-P	A 351	CHANNEL 61-1		
P62-25	J32-Z	A 314	CHANNEL 51-4		
P62-26			SPARE		
P62-27			SPARE		
P62-28	J32-Y	A 313	CHANNEL 51-3		
P62-29	J32-W	A 312	CHANNEL 51-2		
P62-30	J32-U	A 311	CHANNEL 51-1		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 80 OF 89

P63 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P63-1	J31-L	A 292	CHANNEL 92-4		
P63-2			SPARE		
P63-3			SPARE		
P63-4	J31-J	A 291	CHANNEL 92-3		
P63-5	J31-K	A 290	CHANNEL 92-2		
P63-6	J31-H	A 289	CHANNEL 92-1		
P63-7	J30-H	A 276	CHANNEL 82-4		
P63-8			SPARE		
P63-9			SPARE		
P63-10	J30-E	A 275	CHANNEL 82-3		
P63-11	J30-C	A 274	CHANNEL 82-2		
P63-12	J30-A	A 273	CHANNEL 82-1		
P63-13	J28-W	A 250	CHANNEL 72-4		
P63-14			SPARE		
P63-15			SPARE		
P63-16	J28-V	A 249	CHANNEL 72-3		
P63-17	J21-H	A 62	CHANNEL 72-2		
P63-18	J21-A	A 61	CHANNEL 72-1		
P63-19	J28-B	A 234	CHANNEL 62-4		
P63-20			SPARE		
P63-21			SPARE		
P63-22	J28-A	A 233	CHANNEL 62-3		
P63-23	J13-J	A 14	CHANNEL 62-2		
P63-24	J13-B	A 13	CHANNEL 62-1		
P63-25	J33-H	A 318	CHANNEL 52-4		
P63-26			SPARE		
P63-27			SPARE		
P63-28	J33-E	A 317	CHANNEL 52-3		
P63-29	J33-C	A 316	CHANNEL 52-2		
P63-30	J33-A	A 315	CHANNEL 52-1		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 81 OF 89

P64 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P64-1	J31-T	A 296	CHANNEL 93-4		
P64-2			SPARE		
P64-3			SPARE		
P64-4	J31-R	A 295	CHANNEL 93-3		
P64-5	J31-S	A 294	CHANNEL 93-2		
P64-6	J31-P	A 293	CHANNEL 93-1		
P64-7	J30-S	A 280	CHANNEL 83-4		
P64-8			SPARE		
P64-9			SPARE		
P64-10	J30-N	A 279	CHANNEL 83-3		
P64-11	J30-L	A 278	CHANNEL 83-2		
P64-12	J30-J	A 277	CHANNEL 83-1		
P64-13	J28-Y	A 252	CHANNEL 73-4		
P64-14			SPARE		
P64-15			SPARE		
P64-16	J28-X	A 251	CHANNEL 73-3		
P64-17	J21-U	A 64	CHANNEL 73-2		
P64-18	J21-M	A 63	CHANNEL 73-1		
P64-19	J28-D	A 236	CHANNEL 63-4		
P64-20			SPARE		
P64-21			SPARE		
P64-22	J28-C	A 235	CHANNEL 63-3		
P64-23	J13-V	A 16	CHANNEL 63-2		
P64-24	J13-N	A 15	CHANNEL 63-1		
P64-25	J33-R	A 322	CHANNEL 53-4		
P64-26			SPARE		
P64-27			SPARE		
P64-28	J33-N	A 321	CHANNEL 53-3		
P64-29	J33-L	A 320	CHANNEL 53-2		
P64-30	J33-J	A 319	CHANNEL 53-1		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 82 OF 89

P65 CONNECTOR, PLUG 1897389-001

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
P65-1	J31-Y	A 300	CHANNEL 94-4		
P65-2			SPARE		
P65-3			SPARE		
P65-4	J31-W	A 299	CHANNEL 94-3		
P65-5	J31-X	A 298	CHANNEL 94-2		
P65-6	J31-V	A 297	CHANNEL 94-1		
P65-7	J32-H	A 304	CHANNEL 84-4		
P65-8			SPARE		
P65-9			SPARE		
P65-10	J32-E	A 303	CHANNEL 84-3		
P65-11	J32-C	A 302	CHANNEL 84-2		
P65-12	J32-A	A 301	CHANNEL 84-1		
P65-13	J29-B	A 254	CHANNEL 74-4		
P65-14			SPARE		
P65-15			SPARE		
P65-16	J29-A	A 253	CHANNEL 74-3		
P65-17	J35-Y	A 356	CHANNEL 74-2		
P65-18	J35-W	A 355	CHANNEL 74-1		
P65-19	J28-F	A 238	CHANNEL 64-4		
P65-20			SPARE		
P65-21			SPARE		
P65-22	J28-E	A 237	CHANNEL 64-3		
P65-23	J12-J	A 2	CHANNEL 64-2		
P65-24	J12-B	A 1	CHANNEL 64-1		
P65-25	J33-Y	A 326	CHANNEL 54-4		
P65-26			SPARE		
P65-27			SPARE		
P65-28	J33-W	A 325	CHANNEL 54-3		
P65-29	J33-U	A 324	CHANNEL 54-2		
P65-30	J33-S	A 323	CHANNEL 54-1		

SIZE A	CODE IDENT NO. 99974	2901391
SCALE-NONE	REV LTR B	SHEET 83 OF 89

CABLE ASSEMBLY W579 2901394 A

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002071 B - ND1002032
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
4	ASSEMBLY PER ND1002032.
5	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
6	LOCATE IDENTIFICATION SLEEVING ADJACENT TO SOLDER SLEEVES.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - FROM END SHIELD B - TO END SHIELD W - WHITE OR WHITE WITH LETTER W.
9	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.
10	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 18.
11	SERIALIZE PER ND1002032.
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 2 OF 29

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CABLE ASSEMBLY W579 2901394 A

NOTE NUMBER	GENERAL NOTES DESCRIPTION
13	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED, .12 INCH HIGH, COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019. CENTRALIZE.
14	AT ASSEMBLY OF ITEM 5 TO ITEM 19, REMOVE 4 SELFLOCKING NUTS SECURING LOCATING PINS TO ITEM 5 AND DISCARD. ATTACH ITEM 5 TO ITEM 19 USING LOCATING PINS

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 3 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901394-001	WIRE ND1002181 TYPE 1 CLASS 4 22AWG WHT JKT WHT 340 FT TOTAL LENGTH
	2	1	2901394-002	WIRE ND1002181 TYPE 1 CLASS 1 24AWG WHT 42.5 FT TOTAL LENGTH
	3	1	2901394-003	ZIPPER TUBING PER ND1002155 TYPE 1 GREY 2 DIA 4 FT TOTAL LENGTH
7	4	85	1016369-421	CONTACT, SOCKET
7	5	1	1897336-001	CONNECTOR
7	6	1	1897250-003	CONNECTOR
7	7	X	1897190- 1	CONTACT,PIN (FURNISHED WITH ITEM 6)
7	8	85	1010763-002	SOLDER SLEEVE
7	9	170	1010490-232	INSULATION SLEEVING SHRINK FIT
7	10	11	1016006-002	SPLICE REDUCER
7	11	11	1010490-258	INSULATION SLEEVING SHRINK FIT
7	12	1	1016369-721	CONTACT, SOCKET
	13	1	2901394-004	WIRE ND1002181 TYPE 1 CLASS 1 20AWG WHT 3 FT TOTAL LENGTH
	14	1	2901394-005	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT 2 FT TOTAL LENGTH
7	15	3	1016128-021	BAND IDENTIFICATION
7	16	1	1010933-105	STRAIN RELIEF

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 4 OF 29

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CABLE ASSEMBLY W579 2901394 A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	17	AR	MIL-I-631 TYPE F FORM T BLACK GRADE A CLASS 1	FILLER TAPE .62 WIDE, .020 THICK
	18	AR	MIL-T-7138 TYPE P, CLASS 2, BLACK	LACING TAPE
7	19	1	1897391	CLAMP CABLE DUAL ENTRY

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 5 OF 29

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CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 17B	2		E2-B SHLD A17					.25 .25	NO NO			
A 17W			P1-17 P2-C5					.15 .19	NO NO		7 4	
A 18	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 18B	2		E2-B SHLD A18					.25 .25				
A 18W			P1-18 P2-C6					.15 .19			7 4	
A 19	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 19B	2		E2-B SHLD A19					.25 .25	NO NO			
A 19W			P1-19 P2-C7					.15 .19	NO NO		7 4	
A 20	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 20B	2		E2-B SHLD A20					.25 .25	NO NO			
A 20W			P1-20 P2-C8					.15 .19	NO NO		7 4	

SIZE A CODE IDENT NO. 99974 2901394
SCALE-NONE REV LTR A SHEET 10 OF 29

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 21B	2		E3-B SHLD A21					.25 .25	NO NO			
A 21W			P1-21 P2-D1					.15 .19	NO NO		7 4	
A 22	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 22B	2		E3-B SHLD A22					.25 .25	NO NO			
A 22W			P1-22 P2-D2					.15 .19	NO NO		7 4	
A 23	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 23B	2		E3-B SHLD A23					.25 .25	NO NO			
A 23W			P1-23 P2-D3					.15 .19	NO NO		7 4	
A 24	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 24B	2		E3-B SHLD A24					.25 .25	NO NO			
A 24W			P1-24 P2-D4					.15 .19	NO NO		7 4	

SIZE A CODE IDENT NO. 99974 2901394
SCALE-NONE REV LTR A SHEET 11 OF 29

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 25B	2		E3-B SHLD A25					.25 .25	NO NO			
A 25W			P1-25 P2-D5					.15 .19	NO NO		7 4	
A 26	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 26B	2		E3-B SHLD A26					.25 .25	NO NO			
A 26W			P1-26 P2-D6					.15 .19	NO NO		7 4	
A 27	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 27B	2		E3-B SHLD A27					.25 .25	NO NO			
A 27W			P1-27 P2-D7					.15 .19	NO NO		7 4	
A 28	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 28B	2		E3-B SHLD A28					.25 .25	NO NO			
A 28W			P1-28 P2-D8					.15 .19	NO NO		7 4	

SIZE A CODE IDENT NO. 99974 2901394
SCALE-NONE REV LTR A SHEET 12 OF 29

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 29	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 29B	2		E3-B SHLD A29					.25 .25	NO NO			
A 29W			P1-29 P2-E1					.15 .19	NO NO		7 4	
A 30	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 30B	2		E3-B SHLD A30					.25 .25	NO NO			
A 30W			P1-30 P2-E2					.15 .19	NO NO		7 4	
A 31	1				3.75 3.75	3.50 3.50				B,7 A,6A		
A 31B	2		E4-B SHLD A31					.25 .25	NO NO			
A 31W			P1-31 P2-E3					.15 .19	NO NO		7 4	
A 32	1				3.75 3.75	3.50 3.50				B,7 A,6A	9 8, 9	
A 32B	2		E4-B SHLD A32					.25 .25	NO NO			
A 32W			P1-32 P2-E4					.15 .19	NO NO		7 4	

SIZE A CODE IDENT NO. 99974 2901394
SCALE-NONE REV LTR A SHEET 13 OF 29

CABLE ASSEMBLY W579 2901394 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	33	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	33B	2		E4-B SHLD A33					.25 .25	NO NO			
A	33W			P1-33 P2-E5					.15 .19	NO NO		7 4	
A	34	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	34B	2		E4-B SHLD A34					.25 .25	NO NO			
A	34W			P1-34 P2-E6					.15 .19	NO NO		7 4	
A	35	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	35B	2		E4-B SHLD A35					.25 .25	NO NO			
A	35W			P1-35 P2-E7					.15 .19	NO NO		7 4	
A	36	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	36B	2		E4-B SHLD A36					.25 .25	NO NO			
A	36W			P1-36 P2-E8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 14 OF 29

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CABLE ASSEMBLY W579 2901394 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	37	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	37B	2		E4-B SHLD A37					.25 .25	NO NO			
A	37W			P1-37 P2-F1					.15 .19	NO NO		7 4	
A	38	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	38B	2		E4-B SHLD A38					.25 .25	NO NO			
A	38W			P1-38 P2-F2					.15 .19	NO NO		7 4	
A	39	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	39B	2		E4-B SHLD A39					.25 .25	NO NO			
A	39W			P1-39 P2-F3					.15 .19	NO NO		7 4	
A	40	1				4.25 4.25	4.00 4.00				B,7 A,6A	9 8, 9	
A	40B	2		E4-B SHLD A40					.25 .25	NO NO			
A	40W			P1-40 P2-F4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 15 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	41	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	41B	2		E5-B SHLD A41					.25 .25	NO NO			
A	41W			P1-41 P2-F5					.15 .19	NO NO		7 4	
A	42	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	42B	2		E5-B SHLD A42					.25 .25	NO NO			
A	42W			P1-42 P2-F6					.15 .19	NO NO		7 4	
A	43	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	43B	2		E5-B SHLD A43					.25 .25	NO NO			
A	43W			P1-43 P2-F7					.15 .19	NO NO		7 4	
A	44	1				4.75 4.75	4.00 4.00				B,7 A,6A	9 8, 9	
A	44B	2		E5-B SHLD A44					.25 .25	NO NO			
A	44W			P1-44 P2-F8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 16 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	45	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	45B	2		E5-B SHLD A45					.25 .25	NO NO			
A	45W			P1-45 P2-G1					.15 .19	NO NO		7 4	
A	46	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	46B	2		E5-B SHLD A46					.25 .25	NO NO			
A	46W			P1-46 P2-G2					.15 .19	NO NO		7 4	
A	47	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	47B	2		E5-B SHLD A47					.25 .25	NO NO			
A	47W			P1-47 P2-G3					.15 .19	NO NO		7 4	
A	48	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A	48B	2		E5-B SHLD A48					.25 .25	NO NO			
A	48W			P1-48 P2-G4					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.	
A	99974	2901394
SCALE-NONE	REV LTR A	SHEET 17 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 49B	2		E5-B SHLD A49					.25 .25	NO NO			
A 49W			P1-49 P2-G5					.15 .19	NO NO		7 4	
A 50	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 50B	2		E5-B SHLD A50					.25 .25	NO NO			
A 50W			P1-50 P2-G6					.15 .19	NO NO		7 4	
A 51	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 51B	2		E6-B SHLD A51					.25 .25	NO NO			
A 51W			P1-51 P2-G7					.15 .19	NO NO		7 4	
A 52	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 52B	2		E6-B SHLD A52					.25 .25	NO NO			
A 52W			P1-52 P2-G8					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 18 OF 29

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CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 53	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 53B	2		E6-B SHLD A53					.25 .25	NO NO			
A 53W			P1-53 P2-H1					.15 .19	NO NO		7 4	
A 54	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 54B	2		E6-B SHLD A54					.25 .25	NO NO			
A 54W			P1-54 P2-H2					.15 .19	NO NO		7 4	
A 55	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 55B	2		E6-B SHLD A55					.25 .25	NO NO			
A 55W			P1-55 P2-H3					.15 .19	NO NO		7 4	
A 56	1				5.25 5.25	5.00 5.00				B,7 A,6A	9 8, 9	
A 56B	2		E6-B SHLD A56					.25 .25	NO NO			
A 56W			P1-56 P2-H4					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 19 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 57B	2		E6-B SHLD A57					.25 .25	NO NO			
A 57W			P1-57 P2-H5					.15 .19	NO NO		7 4	
A 58	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 58B	2		E6-B SHLD A58					.25 .25	NO NO			
A 58W			P1-58 P2-H6					.15 .19	NO NO		7 4	
A 59	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 59B	2		E6-B SHLD A59					.25 .25	NO NO			
A 59W			P1-59 P2-H7					.15 .19	NO NO		7 4	
A 60	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 60B	2		E6-B SHLD A60					.25 .25	NO NO			
A 60W			P1-60 P2-H8					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
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CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 61B	2		E7-B SHLD A61					.25 .25	NO NO			
A 61W			P1-61 P2-J1					.15 .19	NO NO		7 4	
A 62	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 62B	2		E7-B SHLD A62					.25 .25	NO NO			
A 62W			P1-62 P2-J2					.15 .19	NO NO		7 4	
A 63	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 63B	2		E7-B SHLD A63					.25 .25	NO NO			
A 63W			P1-63 P2-J3					.15 .19	NO NO		7 4	
A 64	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 64B	2		E7-B SHLD A64					.25 .25	NO NO			
A 64W			P1-64 P2-J4					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 21 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	1				5.75 5.75	5.50 5.50				B,7 A,6A	9 8, 9	
A 65B	2		E7-B SHLD A65					.25 .25	NO NO			
A 65W			P1-65 P2-J5					.15 .19	NO NO		7 4	
A 66	1				4.75 4.75	4.50 4.50				B,7 A,6A	9 8, 9	
A 66B	2		E7-B SHLD A66					.25 .25	NO NO			
A 66W			P1-66 P2-J6					.15 .19	NO NO		7 4	
A 67	1				4.75 4.75	4.00 4.00				B,7 A,6A	9 8, 9	
A 67B	2		E7-B SHLD A67					.25 .25	NO NO			
A 67W			P1-67 P2-J7					.15 .19	NO NO		7 4	
A 68	1				4.75 4.75	4.00 4.00				B,7 A,6A	9 8, 9	
A 68B	2		E7-B SHLD A68					.25 .25	NO NO			
A 68W			P1-68 P2-J8					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 22 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69	1				4.75 4.75	4.00 4.00				B,7 A,6A	9 8, 9	
A 69B	2		E7-B SHLD A69					.25 .25	NO NO			
A 69W			P1-69 P2-K1					.15 .19	NO NO		7 4	
A 70	1				2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A 70B	2		E8-B SHLD A70					.25 .25	NO NO			
A 70W			P1-70 P2-K2					.15 .19	NO NO		7 4	
A 71	1				2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A 71B	2		E8-B SHLD A71					.25 .25	NO NO			
A 71W			P1-71 P2-K3					.15 .19	NO NO		7 4	
A 72	1				2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A 72B	2		E8-B SHLD A72					.25 .25	NO NO			
A 72W			P1-72 P2-K6					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 23 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1				2.25 6.25	2.00 6.00				B,7 A,6A	9 8, 9	
A 73B	2		E8-B SHLD A73					.25 .25	NO NO			
A 73W			P1-73 P2-K7					.15 .19	NO NO		7 4	
A 74	1				2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A 74B	2		E8-B SHLD A74					.25 .25	NO NO			
A 74W			P1-74 P2-K8					.15 .19	NO NO		7 4	
A 75	1				2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A 75B	2		E8-B SHLD A75					.25 .25	NO NO			
A 75W			P1-75 P2-L1					.15 .19	NO NO		7 4	
A 76	1				2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A 76B	2		E8-B SHLD A76					.25 .25	NO NO			
A 76W			P1-76 P2-L2					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 24 OF 29

MIL 2084 9-65

CABLE ASSEMBLY W579 2901394 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77	1				2.75 6.75	2.50 6.50				B,7 A,6A	9 8, 9	
A 77B	2		E8-B SHLD A77					.25 .25	NO NO			
A 77W			P1-77 P2-L7					.15 .19	NO NO		7 4	
A 78	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 78B	2		E9-B SHLD A78					.25 .25	NO NO			
A 78W			P1-78 P2-L8					.15 .19	NO NO		7 4	
A 79	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 79B	2		E9-B SHLD A79					.25 .25	NO NO			
A 79W			P1-79 P2-M1					.15 .19	NO NO		7 4	
A 80	1				3.25 3.25	3.00 3.00				B,7 A,6A	9 8, 9	
A 80B	2		E9-B SHLD A80					.25 .25	NO NO			
A 80W			P1-80 P2-M2					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901394
SCALE-NONE
REV LTR A
SHEET 25 OF 29

MIL 2084 9-65

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901076-011	2901076-011	A	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	JHP EF

REV													
SHEET													
REV STATUS OF SHEETS REV	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 10 MAR 66
CHECKED Saylor 14 MAR 66
APPROVAL 14 MAR 66
APPROVAL C Gedman 5/3/66
NASA APPROVAL
MIT APPROVAL 5-10-66
CONTRACT NAS9-497

CABLE ASSEMBLY,
SPECIAL PURPOSE
ELECTICAL, W580

CODE IDENT NO.	SIZE		REV
99974	A	2901395	A

SCALE —
SHEET 1 OF 13

CABLE ASSEMBLY W580 2901395 A

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND 1002019.
4	ASSEMBLE PER ND 1002032
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 11.
7	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 10 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.
9	SERIALIZE PER ND 1002032
10	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED, .12 INCH HIGH, COLOR BLACK, HOT IMPRESSION STAMPING PER ND 1002019. CENTRALIZE
11	AT ASSEMBLY OF ITEM 5 TO ITEM 9, REMOVE 4 SELFLOCKING NUTS SECURING LOCATING PINS TO ITEM 5 AND DISCARD. ATTACH ITEM 5 TO ITEM 9 USING LOCATING PINS.

SIZE A
CODE IDENT NO. 99974
2901395
SCALE-NONE
REV LTR A
SHEET 2 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

GENERAL NOTES

NOTE NUMBER
DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901395
SCALE-NONE
REV LTR A
SHEET 3 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901395-001	WIRE ND1002181 TYPE 1 CLASS 1, 22 AWG WHT, 340 FT TOTAL LENGTH
	2	1	2901395-002	ZIPPER TUBING PER ND1002155 TYPE 1 GREY, 2 IN DIA, 4 FT TOTAL LENGTH
5	3	3	1016128-021	BAND IDENTIFICATION
5	4	85	1016369-421	CONTACT, SOCKET
5	5	1	1897336-001	CONNECTOR
5	6	1	1897252-102	CONNECTOR
5	7	X	1897190- 1	CONTACT, SOCKET (FURNISHED WITH ITEM 6)
5	8	1	1010933-105	CLAMP, STRAIN RELIEF
5	9	1	1897391	CLAMP, CABLE DOUBLE ENTRY
	10	AR	MIL-I-631 TYPE F FORM T BLACK GRADE A CLASS 1	FILLER TAPE .62 WIDE, .020 THICK
	11	AR	MIL-I-7138 TYPE P, CLASS 2, BLACK	LACING TAPE

SIZE A
CODE IDENT NO. 99974
2901395
SCALE-NONE
REV LTR A
SHEET 4 OF 13

MIL 2084 9-65

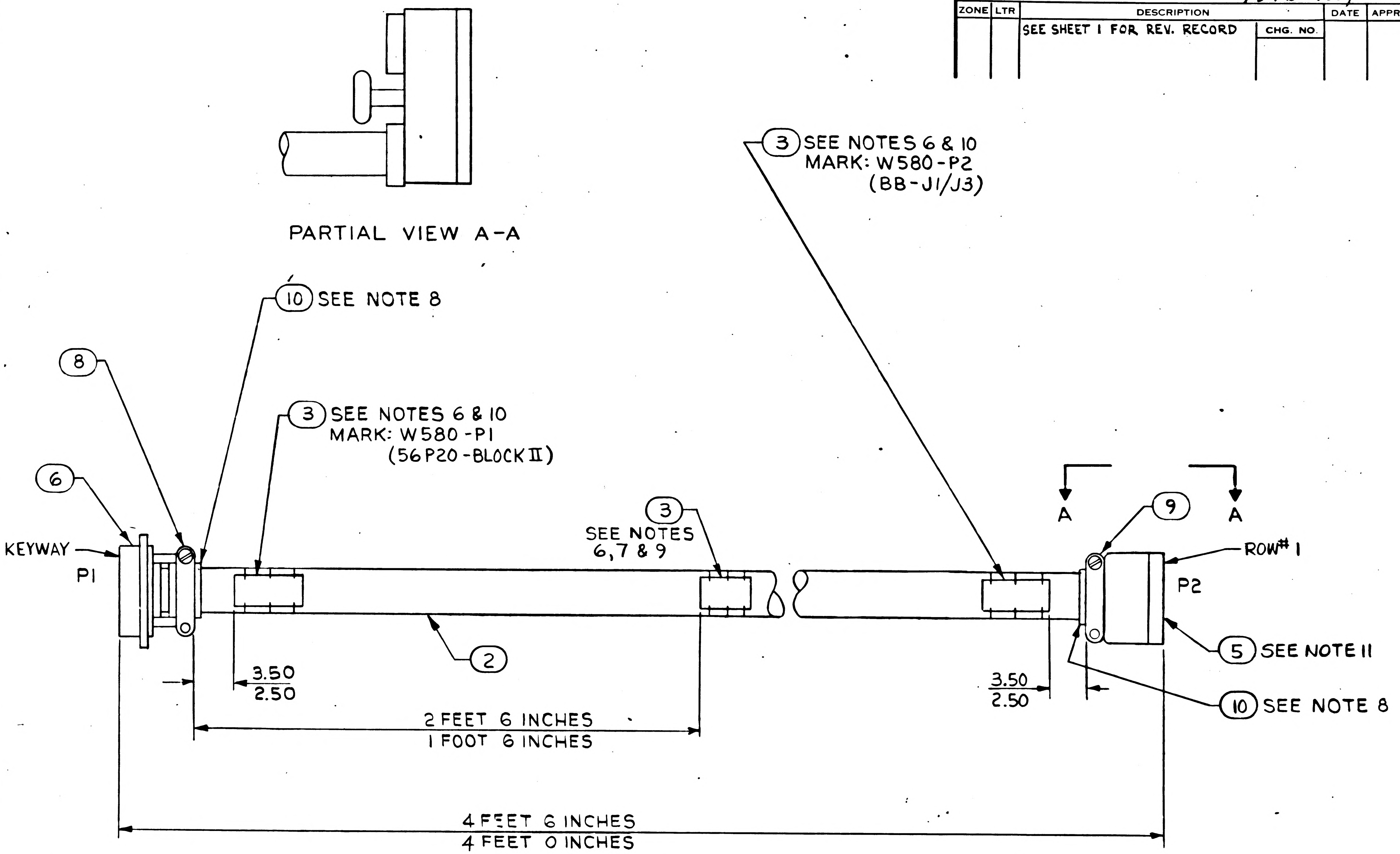
CABLE ASSEMBLY W580 2901395 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-1 P2-A3					.15 .19	NO NO		7 4	
A 2	1		P1-2 P2-A4					.15 .19	NO NO		7 4	
A 3	1		P1-3 P2-A5					.15 .19	NO NO		7 4	
A 4	1		P1-4 P2-A6					.15 .19	NO NO		7 4	
A 5	1		P1-5 P2-B1					.15 .19	NO NO		7 4	
A 6	1		P1-6 P2-B2					.15 .19	NO NO		7 4	
A 7	1		P1-7 P2-B3					.15 .19	NO NO		7 4	
A 8	1		P1-8 P2-B4					.15 .19	NO NO		7 4	
A 9	1		P1-9 P2-B5					.15 .19	NO NO		7 4	
A 10	1		P1-10 P2-B6					.15 .19	NO NO		7 4	
A 11	1		P1-11 P2-B7					.15 .19	NO NO		7 4	
A 12	1		P1-12 P2-B8					.15 .19	NO NO		7 4	

SIZE A
CODE IDENT NO. 99974
2901395
SCALE-NONE
REV LTR A
SHEET 5 OF 13

MIL 2084 9-65

REVISIONS TO RA 28604					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHEET 1 FOR REV. RECORD			


PARTIAL VIEW A-A
⑩ SEE NOTE 8
⑧
③ SEE NOTES 6 & 10
MARK: W580-P1
(56P20-BLOCK II)
⑥
KEYWAY
P1
③ SEE NOTES 6,7 & 9
③ SEE NOTES 6 & 10
MARK: W580-P2
(BB-J1/J3)
A
A
⑨
ROW# 1
P2
⑤ SEE NOTE 11
⑩ SEE NOTE 8
②
3.50
2.50
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS 3 PLACE DECIMALS ANGLES
± __ ± __ ± __
DO NOT SCALE THIS DRAWING
MATERIAL ______
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN Fruide DATE 10 MAR 66
CHECKED Snyder 14 MAR 66
APPROVAL Feldman 5/3/66
CONTRACT NAS 9-497
NASA APPROVAL A. C. Metzger
MIT APPROVAL M G Markey 5-10-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, W 580

SIZE C
CODE IDENT NO. 99974
2901395
SCALE NONE
SHEET 13 OF 13

MIL-1082D D

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901076-011	2901076-011 Ⓜ	A	INITIAL RELEASE CLASS A PER TDRR 28604	2 MAY 66	JHP / EF
		B	REVISED PER TDRR 30200	26 JUL 66	GWM / Y.M.

REV STATUS OF SHEETS														
	REV	B	B	B	B	B	B	B	B	B	B	B	B	B
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN DATE 10 MAR 66
CHECKED 14 MAR 66
APPROVAL 14 MAR 66
APPROVAL 5/3/66
NASA APPROVAL
MIT APPROVAL 5 10 66

CABLE ASSEMBLY,
SPECIAL PURPOSE
ELECTICAL, W580

CODE IDENT NO.	SIZE		REV
99974	A	2901395	B

CONTRACT NAS9-497

SCALE —

SHEET 1 OF 13

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 APPLY LEAD IDENTIFICATIONS PER ND 1002019.

4 ASSEMBLE PER ND 1002032

5 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

6 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 11.

7 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

8 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 10 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP. USE ONLY IF REQUIRED.

9 SERIALIZE PER ND1002023.

10 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED, .12 INCH HIGH, COLOR BLACK, HOT IMPRESSION STAMPING PER ND 1002019. CENTRALIZE

11 AT ASSEMBLY OF ITEM 5 TO ITEM 9, REMOVE 4 SELFLOCKING NUTS SECURING LOCATING PINS TO ITEM 5 AND DISCARD. ATTACH ITEM 5 TO ITEM 9 USING LOCATING PINS.

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR B	SHEET 2 OF 13

NOTE NUMBER | GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR B	SHEET 3 OF 13

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901395-001	WIRE ND1002181 TYPE 1 CLASS 1, 22 AWG WHT, 340 FT TOTAL LENGTH
	2	1	2901395-002	ZIPPER TUBING PER ND1002155 TYPE 1 GREY, 1 IN DIA, 4 FT TOTAL LENGTH
5	3	3	1016128-021	BAND IDENTIFICATION
5	4	85	1016369-421	CONTACT, SOCKET
5	5	1	1897336-001	CONNECTOR
5	6	1	1897252-102	CONNECTOR
5	7	X	1897190- 1	CONTACT, SOCKET (FURNISHED WITH ITEM 6)
5	8	1	1010933-105	CLAMP, STRAIN RELIEF
5	9	1	1897391	CLAMP, CABLE DOUBLE ENTRY
	10	AR	MIL-I-631 TYPE F FORM T BLACK GRADE A CLASS 1	FILLER TAPE .62 WIDE, .020 THICK
	11	AR	MIL-I-713B TYPE P, CLASS 2, BLACK	LACING TAPE

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR B	SHEET 4 OF 13

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-1 P2-A3					.15 .19	NO NO		7 4	
A 2	1		P1-2 P2-A4					.15 .19	NO NO		7 4	
A 3	1		P1-3 P2-A5					.15 .19	NO NO		7 4	
A 4	1		P1-4 P2-A6					.15 .19	NO NO		7 4	
A 5	1		P1-5 P2-B1					.15 .19	NO NO		7 4	
A 6	1		P1-6 P2-B2					.15 .19	NO NO		7 4	
A 7	1		P1-7 P2-B3					.15 .19	NO NO		7 4	
A 8	1		P1-8 P2-B4					.15 .19	NO NO		7 4	
A 9	1		P1-9 P2-B5					.15 .19	NO NO		7 4	
A 10	1		P1-10 P2-B6					.15 .19	NO NO		7 4	
A 11	1		P1-11 P2-B7					.15 .19	NO NO		7 4	
A 12	1		P1-12 P2-B8					.15 .19	NO NO		7 4	

SIZE A	CODE IDENT NO. 99974	2901395
SCALE-NONE	REV LTR B	SHEET 5 OF 13

CABLE ASSEMBLY W580 2901395 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P1-61 P2-J1					.15 .19	NO NO		7 4	
A 62	1		P1-62 P2-J2					.15 .19	NO NO		7 4	
A 63	1		P1-63 P2-J3					.15 .19	NO NO		7 4	
A 64	1		P1-64 P2-J4					.15 .19	NO NO		7 4	
A 65	1		P1-65 P2-J5					.15 .19	NO NO		7 4	
A 66	1		P1-66 P2-J6					.15 .19	NO NO		7 4	
A 67	1		P1-67 P2-J7					.15 .19	NO NO		7 4	
A 68	1		P1-68 P2-J8					.15 .19	NO NO		7 4	
A 69	1		P1-69 P2-K1					.15 .19	NO NO		7 4	
A 70	1		P1-70 P2-K2					.15 .19	NO NO		7 4	
A 71	1		P1-71 P2-K3					.15 .19	NO NO		7 4	
A 72	1		P1-72 P2-K6					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.		
A	99974	2901395	
SCALE-NONE	REV LTR B		SHEET 10 OF 13

MIL 2084 9-65

CABLE ASSEMBLY W580 2901395 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P1-73 P2-K7					.15 .19	NO NO		7 4	
A 74	1		P1-74 P2-K8					.15 .19	NO NO		7 4	
A 75	1		P1-75 P2-L1					.15 .19	NO NO		7 4	
A 76	1		P1-76 P2-L2					.15 .19	NO NO		7 4	
A 77	1		P1-77 P2-L7					.15 .19	NO NO		7 4	
A 78	1		P1-78 P2-L8					.15 .19	NO NO		7 4	
A 79	1		P1-79 P2-M1					.15 .19	NO NO		7 4	
A 80	1		P1-80 P2-M2					.15 .19	NO NO		7 4	
A 81	1		P1-81 P2-M3					.15 .19	NO NO		7 4	
A 82	1		P1-82 P2-M6					.15 .19	NO NO		7 4	
A 83	1		P1-83 P2-M7					.15 .19	NO NO		7 4	
A 84	1		P1-84 P2-M8					.15 .19	NO NO		7 4	

SIZE	CODE IDENT NO.		
A	99974	2901395	
SCALE-NONE	REV LTR B		SHEET 11 OF 13

MIL 2084 9-65

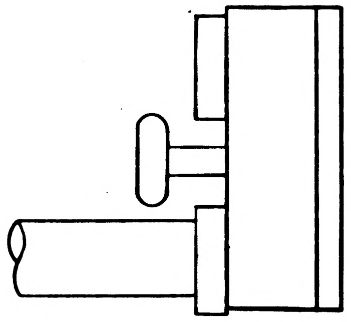
CABLE ASSEMBLY W580 2901395 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P1-85 P2-N1					.15 .19	NO NO		7 4	

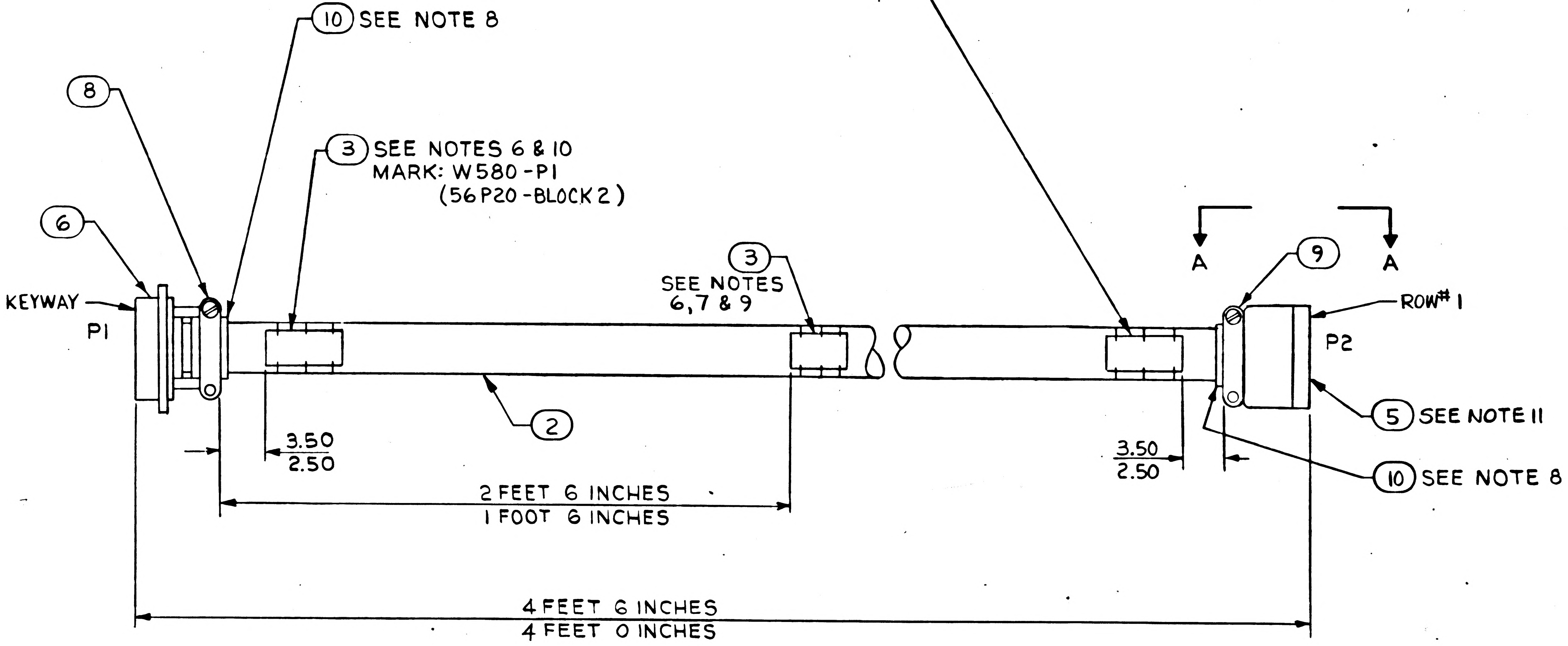
SIZE	CODE IDENT NO.		
A	99974	2901395	
SCALE-NONE	REV LTR B		SHEET 12 OF 13

MIL 2084 9-65

REVISIONS TD PL 28604					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHEET 1 FOR REV. RECORD			



PARTIAL VIEW A-A


(10) SEE NOTE 8
(8)
(3) SEE NOTES 6 & 10
MARK: W580-P1
(56P20-BLOCK 2)
(6)
KEYWAY
P1
(3) SEE NOTES 6,7 & 9
(2)
3.50
2.50
2 FEET 6 INCHES
1 FOOT 6 INCHES
4 FEET 6 INCHES
4 FEET 0 INCHES
(3) SEE NOTES 6 & 10
MARK: W580-P2
(BB-J1/J3)
A
A
(9)
ROW# 1
P2
(5) SEE NOTE 11
3.50
2.50
(10) SEE NOTE 8

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± __ 3 PLACE DECIMALS ± __ ANGLES ± __	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN Fride DATE 10 MAR 66 CHECKED Hayden 14 MAR 66 APPROVAL Feldman 5/3/66 CONTRACT NAS 9-497	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W 580
MATERIAL ——	NASA APPROVAL A. C. Mit MIT APPROVAL M G Marley 5-10-66	SIZE C · CODE IDENT NO. 99974 · 2901395
APPROVAL		SCALE NONE · SHEET 13 OF 13

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900295-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61886	5 APR 66	FRW AU
B	REVISED PER MXC 211540	21 APR 66	JHP J.E.G.
C	INITIAL RELEASE CLASS A PER TDRR 20674	3 MAY 66	PG EF

Charleston 30 MAR 66

REV	C	C	C	C	C	C	C	C	C	C
SHEET	19	20	21	22	23	24	25	26	27	28

REV STATUS OF SHEETS																		
REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 14 MAR 66 (DAY MO YR)
CHECKER J. GRIEB 30 MAR 66
ENGINEER 30 MAR 66
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL 7/6/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED BLK II PSAAM

SIZE A
CODE IDENT. NO 99974
2901396
SCALE NONE
SHEET 1 OF 28

MIL 1377A6 12-65

NOTE GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE.
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 21.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 21.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
10	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8 THRU 13.
13	SOLDER PER ND1002071 USING ITEM 29 OR ITEMS 27 AND 28.
14	MARK IDENTIFICATION BANDS WITH DESIGNATIONS AS NOTED, .12 INCH HIGH, COLOR BLACK PER ND1002019. CENTRALIZE.

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A C | SHEET 2 OF 28

NOTE GENERAL NOTES

NOTE NUMBER	DESCRIPTION
15	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 22 TO SECURE THE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP
16	SERIALIZE PER ND1002023.
17	ASSEMBLE PER ND1002032.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR C | SHEET 3 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901396-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, TOTAL LENGTH
	2	1	2901396-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614)CONNECTOR-PLUG, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611)CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610)CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613)CONNECTOR-PLUG, ELECTRICAL
	7	2	MS3126F24-61PX	(1897047-612)CONNECTOR-PLUG, ELECTRICAL
7	8	1	1897249-006	CONNECTOR-PLUG, ELECTRICAL
7	9	1	1897249-007	CONNECTOR-PLUG, ELECTRICAL
7	10	1	1897249-009	CONNECTOR-PLUG, ELECTRICAL
7	11	1	1897250-002	CONNECTOR-PLUG, ELECTRICAL
7	12	1	1897250-003	CONNECTOR-PLUG, ELECTRICAL
	13	1	MS3106R14S-7P	(1896918-007) CONNECTOR-PLUG, ELECTRICAL
7	14	1	1010933-103	CLAMP, CABLE, ELECTRICAL
7	15	2	1010933-104	CLAMP, CABLE, ELECTRICAL
7	16	2	1010933-105	CLAMP, CABLE, ELECTRICAL
15	17	~~AR~~ X	MS3192A20A	(1896855-020) CONTACT-ELECTRICAL, PIN, CRIMP (FURNISHED WITH ITEMS 3 THRU 7).

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A C | SHEET 4 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	~~AR~~ X	1897190- 1	CONTACT, ELECTRICAL (PIN CONTACT) (FURNISHED WITH ITEMS 11 AND 12).
7	19	X	1897190- 2	CONTACT, ELECTRICAL (SOCKET CONTACT) (FURNISHED WITH ITEMS 8 THRU 10).
7	20	15	1016128-011	BAND-IDENTIFICATION, BLANK
	21	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK ~~(ES2732)~~
	22	AR	MIL-I-631	FILLER TAPE, ~~TYPE I,~~ TYPE F, FORM T (BLACK) GRADE A, CLASS 1, .62 INCH WIDE, .020 INCH THICK
7	23	7	1016006-001	SPLICE-REDUCER
7	24	2	1016006-002	SPLICE-REDUCER
7	25	7	1010490-228	INSULATION-SLEEVING, ELECTRICAL
7	26	2	1010490-256	INSULATION-SLEEVING, ELECTRICAL
	27	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

SIZE A | CODE IDENT NO. 99974 | 2901396
SCALE-NONE | REV LTR A C | SHEET 5 OF 28

CABLE ASSEMBLY 2901396 A C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1		E1-B P11-59					.38 .15	NO NO		 18	
A	2	1		E1-BB E2-BB					.38 .38	NO NO			
A	3	1		E1-B P11-35					.38 .15	NO NO		 18	
A	4	1		E1-B P11-84					.38 .15	NO NO		 18	
A	5	1		E1-B P11-60					.38 .15	NO NO		 18	
A	6	1		E1-B P11-83					.38 .15	NO NO		 18	
A	7	1		E1-B P11-58					.38 .15	NO NO		 18	
A	8	1		E1-B P11-18					.38 .15	NO NO		 18	
A	9	1		E4-B P11-7					.38 .15	NO NO		 18	
A	10	1		E4-B P11-57					.38 .15	NO NO		 18	
A	11	1		E4-B P11-34					.38 .15	NO NO		 18	
A	12	1		E4-B P15-14					.38 .15	NO NO		 19	

SIZE A	CODE IDENT NO. 99974	2901396	
SCALE-NONE	REV LTR A C	SHEET 6 OF 28	

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	1		E4-BB P11-33					.38 .15	NO NO		 18	
A	14	1		E4-B P11-17					.38 .15	NO NO		 18	
A	15	1		E1-BB E4-BB					.38 .38	NO NO			
A	16	1		E4-B P11-62					.38 .15	NO NO		 18	
A	17	1		E4-B P11-63					.38 .15	NO NO		 18	
A	18	1		E6-B P16-38					.38 .15	NO NO		 19	
A	19	1		E6-B P16-19					.38 .15	NO NO		 19	
A	20	1		E6-B P16-60					.38 .15	NO NO		 19	
A	21	1		E7-B P16-20					.38 .15	NO NO		 19	
A	22	1		E7-B P16-37					.38 .15	NO NO		 19	
A	23	1		E7-B P16-61					.38 .15	NO NO		 19	
A	24	1		P2-BB P16-57					.22 .15	NO NO		17 19	

SIZE A	CODE IDENT NO. 99974	2901396	
SCALE-NONE	REV LTR A C	SHEET 7 OF 28	

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	26	1		P2-Y E3-B					.22 .38	NO NO		17	
A	27	1		P16-25 E10-BB					.15 .38	NO NO		19	
A	29	1		E10-B P14-C					.38 .25	NO YES			
A	30	2		P11-8 P2-HH					.15 .22	NO NO		18	
A	31	1		E5-B P15-7					.38 .15	NO NO		 19	
A	32	1		E9-BB P16-36					.38 .15	NO NO		 19	
A	33	1		E10-B P15-26					.38 .15	NO NO		 19	
A	34	1		E10-B P2-U*					.38 .22	NO NO		 17	
A	35	1		E3-BB E1-BB					.38 .38	NO NO			
A	36	1		P2-F* P11-25					.22 .15	NO NO		17 18	
A	37	1		P2-G* P11-45					.22 .15	NO NO		17 18	
A	38	1		P2-H* P15-54					.22 .15	NO NO		17 19	

SIZE A	CODE IDENT NO. 99974	2901396	
SCALE-NONE	REV LTR A C	SHEET 8 OF 28	

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	39	1		P2-M* P13-5					.22 .15	NO NO		17 19	
A	40	1		P2-N* P13-18					.22 .15	NO NO		 19	
A	41	1		P2-HH P11-20					.22 .15	NO NO		17 18	
A	42	1		P2-LL P11-41					.22 .15	NO NO		17 18	
A	43	1		P2-MM P11-22					.22 .15	NO NO		17 18	
A	44	1		P3-A P11-70					.22 .15	NO NO		17 18	
A	45	1		P3-B P11-71					.22 .15	NO NO		17 18	
A	46	1		P3-C P15-32					.22 .15	NO NO		17 19	
A	47	1		P3-E P11-21					.22 .15	NO NO		17 18	
A	48	1		P3-F P11-9					.22 .15	NO NO		17 18	
A	49	1		P3-J P12-55					.22 .15	NO NO		17 18	
A	50	1		P3-K P12-32					.22 .15	NO NO		17 18	

SIZE A	CODE IDENT NO. 99974	2901396	
SCALE-NONE	REV LTR A C	SHEET 9 OF 28	

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51	1		P3-N P12-78					.22 .15	NO NO		17 18	
A 52	1		P3-P P12-53					.22 .15	NO NO		17 18	
A 53	1		P3-T P11-30					.22 .15	NO NO		17 18	
A 54	1		P3-U P11-29					.22 .15	NO NO		17 18	
A 55	1		P3-V P16-23					.22 .15	NO NO		17 19	
A 56	1		P3-W P16-43					.22 .15	NO NO		17 19	
A 57	1		P3-X P11-2					.22 .15	NO NO		17 18	
A 58	1		P3-Y P11-10					.22 .15	NO NO		17 18	
A 59	1		P3-Z P15-30					.22 .15	NO NO		17 19	
A 60	1		P3-A* P15-40					.22 .15	NO NO		17 19	
A 61	1		P3-B* P11-1					.22 .15	NO NO		17 18	
A 62	1		P3-C* P11-4					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 10 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 63	1		P3-D* P15-51					.22 .15	NO NO		17 19	
A 64	1		P3-E* P15-38					.22 .15	NO NO		17 19	
A 65	1		P3-F* P11-3					.22 .15	NO NO		17 18	
A 66	1		P3-G* P11-11					.22 .15	NO NO		17 18	
A 67	1		P3-H* P15-31					.22 .15	NO NO		17 19	
A 68	1		P3-J* P11-5					.22 .15	NO NO		17 18	
A 69	1		P3-K* P11-14					.22 .15	NO NO		17 18	
A 70	1		P3-M* P15-39					.22 .15	NO NO		17 19	
A 71	1		P4-A P11-78					.22 .15	NO NO		17 18	
A 72	1		P4-B P11-54					.22 .15	NO NO		17 18	
A 73	1		P4-D E5-BB					.22 .38	NO NO		17	
A 74	1		P4-E P11-52					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 11 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 75	1		P4-F P11-51					.22 .15	NO NO		17 18	
A 76	1		P4-G P16-11					.22 .15	NO NO		17 19	
A 77	1		P4-H P16-10					.22 .15	NO NO		17 19	
A 79	1		P4-M P13-30					.22 .15	NO NO		17 18	
A 81	1		P4-S P13-6					.22 .15	NO NO		17 19	
A 82	1		P4-T P16-18					.22 .15	NO NO		17 19	
A 83	1		P4-W P13-32					.22 .15	NO NO		17 19	
A 84	1		P4-X P16-6					.22 .15	NO NO		17 19	
A 85	1		P4-A* P13-16					.22 .15	NO NO		17 19	
A 86	1		P4-B* P16-7					.22 .15	NO NO		17 19	
A 87	2		P4-C* P7-Y					.22 .22	NO NO		17	
A 88	1		P4-E* P13-34					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 12 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89	1		P4-F* P16-40					.22 .15	NO NO		17 19	
A 90	1		P4-G* P16-42					.22 .15	NO NO		17 19	
A 91	1		P4-H* P13-39					.22 .15	NO NO		17 19	
A 92	1		P4-I* P13-22					.22 .15	NO NO		17 19	
A 93	1		P4-J* P16-21					.22 .15	NO NO		17 19	
A 94	1		P4-M* P13-20					.22 .15	NO NO		17 19	
A 95	1		P4-N* P13-8					.22 .15	NO NO		17 19	
A 96	1		P4-T* P2-V					.22 .22	NO NO		17 17	
A 97	1		P4-U* P2-W					.22 .22	NO NO		17 17	
A 98	1		P4-V* P13-56					.22 .15	NO NO		17 19	
A 99	1		P4-W* P13-57					.22 .15	NO NO		17 19	
A 100	2		P5-A P4-T*					.22 .22	NO NO		17 17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~B~~ C	SHEET 13 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 101	2		P5-B P4-U*					.22 .22	NO NO		17	
A 102	1		P5-C E6-BB					.22 .38	NO NO		17	
A 103	1		P5-D E7-BB					.22 .38	NO NO		17	
A 104	1		P5-E P2-N					.22 .22	NO NO		 17	
A 105	1		P5-F P2-P					.22 .22	NO NO		17 17	
A 106	1		P5-G P15-59					.22 .15	NO NO		17 19	
A 107	1		P5-H P15-60					.22 .15	NO NO		17 19	
A 108	1		P5-J P2-R					.22 .22	NO NO		17 17	
A 109	1		P5-K P2-S					.22 .22	NO NO		17 17	
A 110	1		P5-L P15-58					.22 .15	NO NO		17 19	
A 111	1		P5-M P15-34					.22 .15	NO NO		 19	
A 112	2		P5-N P5-E					.22 .22	NO NO		17 17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~B~~ C	SHEET 14 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P5-P P5-F					.22 .22	NO NO		17 17	
A 114	1		P5-R P15-17					.22 .15	NO NO		17 19	
A 115	1		P5-S E5-B					.22 .38	NO NO		17	
A 116	1		P6-A P12-66					.22 .15	NO NO		17 18	
A 117	1		P6-B P12-42					.22 .15	NO NO		17 18	
A 118	1		P6-C P16-14					.22 .15	NO NO		17 19	
A 119	1		P6-D E3-B					.22 .38	NO NO		17	
A 120	1		P6-E P12-43					.22 .15	NO NO		17 18	
A 121	1		P6-F P12-23					.22 .15	NO NO		17 18	
A 122	1		P6-G P16-3					.22 .15	NO NO		17 19	
A 123	1		P6-J P12-68					.22 .15	NO NO		17 19	
A 124	1		P6-K P12-67					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 15 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 125	1		P6-L P16-5					.22 .15	NO NO		17 19	
A 126	1		P6-N P12-69					.22 .15	NO NO		17 18	
A 127	1		P6-P P12-45					.22 .15	NO NO		17 18	
A 128	1		P6-R P16-1					.22 .15	NO NO		17 19	
A 129	1		P6-S E3-B					.22 .38	NO NO		17	
A 130	1		P6-T P12-25					.22 .15	NO NO		17 18	
A 131	1		P6-U P12-11					.22 .15	NO NO		17 18	
A 132	1		P6-V P16-15					.22 .15	NO NO		17 19	
A 133	1		P6-X P12-70					.22 .15	NO NO		17 18	
A 134	1		P6-Y P12-46					.22 .15	NO NO		17 18	
A 135	1		P6-Z P16-4					.22 .15	NO NO		17 19	
A 136	1		P6-B* P12-47					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 16 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137	1		P6-C* P12-27					.22 .15	NO NO		17 18	
A 138	1		P6-D* P16-13					.22 .15	NO NO		17 19	
A 139	1		P6-F* P12-71					.22 .15	NO NO		17 18	
A 140	1		P6-G* P12-72					.22 .15	NO NO		17 18	
A 141	1		P6-H* P16-12					.22 .15	NO NO		17 19	
A 142	1		P6-J* P12-81					.22 .15	NO NO		17 18	
A 143	1		P6-K* P12-80					.22 .15	NO NO		17 18	
A 144	1		P6-M* P15-18					.22 .15	NO NO		17 19	
A 145	1		P6-N* E5-B					.22 .38	NO NO		17	
A 146	1		P6-P* P11-26					.22 .15	NO NO		17 18	
A 147	1		P6-Q* P11-46					.22 .15	NO NO		17 18	
A 148	1		P6-R* P15-33					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 17 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	1		P6-S* P15-55					.22 .15	NO NO		17 19	
A 150	1		P6-T* P11-65					.22 .15	NO NO		17 18	
A 151	1		P6-U* P11-40					.22 .15	NO NO		17 18	
A 152	1		P6-BB P12-52					.22 .15	NO NO		17 18	
A 153	1		P6-CC P12-31					.22 .15	NO NO		17 18	
A 154	1		P6-DD P15-35					.22 .15	NO NO		17 19	
A 155	2		P6-EE P5-M					.22 .22	NO NO		17 17	
A 156	1		P7-A P11-12					.22 .15	NO NO		 18	
A 157	1		P7-B P11-13					.22 .15	NO NO		17 18	
A 158	1		P7-C P15-61					.22 .15	NO NO		17 19	
A 159	1		P7-E P11-75					.22 .15	NO NO		17 18	
A 160	1		P7-F P11-50					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 18 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 161	1		P7-G P15-44					.22 .15	NO NO		17 19	
A 162	1		P7-H P15-45					.22 .15	NO NO		17 19	
A 163	1		P7-J P11-74					.22 .15	NO NO		17 18	
A 164	1		P7-K P11-49					.22 .15	NO NO		17 18	
A 165	1		P7-L P15-47					.22 .15	NO NO		17 19	
A 166	1		P7-M P15-46					.22 .15	NO NO		17 19	
A 167	1		P7-N P11-28					.22 .15	NO NO		17 18	
A 168	1		P7-P P11-27					.22 .15	NO NO		17 18	
A 169	1		P7-R P15-52					.22 .15	NO NO		17 19	
A 170	1		P7-T P11-68					.22 .15	NO NO		17 18	
A 171	1		P7-U P11-44					.22 .15	NO NO		17 18	
A 172	1		P7-V P15-8					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 19 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173	1		P7-W P15-9					.22 .15	NO NO		17 19	
A 174	1		P7-X P12-30					.22 .15	NO NO		17 18	
A 175	1		P7-Y P12-29					.22 .15	NO NO		17 18	
A 176	1		P7-Z P15-19					.22 .15	NO NO		17 19	
A 177	1		P7-A* E3-B					.22 .38	NO NO		17	
A 178	1		P7-B* P12-17					.22 .15	NO NO		17 18	
A 179	1		P7-C* P12-6					.22 .15	NO NO		17 18	
A 180	1		P7-D* P16-8					.22 .15	NO NO		17 19	
A 181	1		P7-E* P16-2					.22 .15	NO NO		17 19	
A 182	1		P7-F* P12-16					.22 .15	NO NO		17 18	
A 183	1		P7-G* P12-5					.22 .15	NO NO		17 18	
A 184	1		P7-H* P16-54					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 20 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 185	1		P7-I* P16-32					.22 .15	NO NO		17 19	
A 186	1		P7-J* P12-15					.22 .15	NO NO		17 18	
A 187	1		P7-K* P12-14					.22 .15	NO NO		17 18	
A 188	1		P7-M* P16-56					.22 .15	NO NO		17 19	
A 189	1		P7-N* P16-55					.22 .15	NO NO		17 19	
A 190	1		P7-P* P11-77					.22 .15	NO NO		17 18	
A 191	1		P7-Q* P11-76					.22 .15	NO NO		17 18	
A 192	1		P7-R* P16-44					.22 .15	NO NO		17 19	
A 193	1		P7-S* P16-24					.22 .15	NO NO		17 19	
A 194	1		P7-X* P11-53					.22 .15	NO NO		17 18	
A 195	1		P7-Y* P11-31					.22 .15	NO NO		17 18	
A 196	1		P7-BB P12-51					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 21 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 197	1		P7-CC P12-50					.22 .15	NO NO		17 18	
A 198	1		P7-DD P15-36					.22 .15	NO NO		17 19	
A 199	1		P7-EE E5-B					.22 .38	NO NO		17	
A 200	1		P8-X P11-61					.22 .15	NO NO		17 18	
A 201	1		P8-Y P11-37					.22 .15	NO NO		17 18	
A 202	1		P8-Z P16-31					.22 .15	NO NO		17 19	
A 203	1		P8-A* P16-53					.22 .15	NO NO		 19	
A 204	1		P8-B* P11-64					.22 .15	NO NO		17 18	
A 205	1		P8-C* P11-39					.22 .15	NO NO		17 18	
A 206	1		P8-D* P16-52					.22 .15	NO NO		17 19	
A 207	2		P8-E* P8-A*					.22 .22	NO NO		17 17	
A 208	1		P8-F* P11-79					.22 .15	NO NO		17 18	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 209	1		P8-G* P11-55					.22 .15	NO NO		17 18	
A 210	1		P8-H* P16-16					.22 .15	NO NO		17 19	
A 211	1		P8-I* P16-33					.22 .15	NO NO		17 19	
A 212	1		P8-J* P11-67					.22 .15	NO NO		17 18	
A 213	1		P8-K* P11-66					.22 .15	NO NO		17 18	
A 214	1		P8-M* P16-35					.22 .15	NO NO		17 19	
A 215	1		P8-N* E9-B					.22 .38	NO NO		17	
A 216	1		P8-P* P11-43					.22 .15	NO NO		17 18	
A 217	1		P8-O* P11-42					.22 .15	NO NO		17 18	
A 218	1		P8-R* P16-17					.22 .15	NO NO		17 19	
A 219	1		P8-S* E9-B					.22 .38	NO NO		17	
A 220	1		P8-T* P11-24					.22 .15	NO NO		17 18	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221	1		P8-U* P11-23					.22 .15	NO NO		17 18	
A 222	1		P8-V* P16-34					.22 .15	NO NO		17 19	
A 223	1		P8-W* E9-B					.22 .38	NO NO		17	
A 224	1		P8-X* P16-39					.22 .15	NO NO		17 19	
A 225	2		P8-Y* P2-N*					.22 .22	NO NO		17 17	
A 226	1		P9-A P12-36					.22 .15	NO NO		17 18	
A 227	1		P9-B P12-19					.22 .15	NO NO		17 18	
A 228	1		P9-C P16-41					.22 .15	NO NO		17 19	
A 229	1		P9-E P12-82					.22 .15	NO NO		17 18	
A 230	1		P9-F P12-58					.22 .15	NO NO		17 18	
A 231	1		P9-G P16-26					.22 .15	NO NO		17 19	
A 232	1		P9-H E2-B					.22 .38	NO NO		17	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233	1		P9-T P12-35					.22 .15	NO NO		17 18	
A 234	1		P9-U P12-18					.22 .15	NO NO		17 18	
A 235	1		P9-V P15-6					.22 .15	NO NO		17 19	
A 236	1		P9-W P15-16					.22 .15	NO NO		17 19	
A 237	1		P9-X P12-85					.22 .15	NO NO		17 18	
A 238	1		P9-Y P12-61					.22 .15	NO NO		17 18	
A 239	1		P9-Z P16-22					.22 .15	NO NO		17 19	
A 240	1		P9-B* P12-84					.22 .15	NO NO		17 18	
A 241	1		P9-C* P12-60					.22 .15	NO NO		17 18	
A 242	1		P9-D* P16-9					.22 .15	NO NO		17 19	
A 243	1		P9-J* P12-38					.22 .15	NO NO		17 18	
A 244	1		P9-K* P12-39					.22 .15	NO NO		17 18	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	1		P9-M* P15-15					.22 .15	NO NO		17 19	
A 246	1		P9-N* E2-B					.22 .38	NO NO		17	
A 247	1		P9-P* P11-32					.22 .15	NO NO		17 18	
A 248	1		P9-Q* P11-15					.22 .15	NO NO		17 18	
A 249	1		P9-R* P16-45					.22 .15	NO NO		17 19	
A 250	1		P9-S* P16-46					.22 .15	NO NO		17 19	
A 251	1		P9-T* P12-37					.22 .15	NO NO		17 18	
A 252	1		P9-U* P12-20					.22 .15	NO NO		17 18	
A 253	1		P9-V* P15-5					.22 .15	NO NO		17 19	
A 254	1		P9-X* P12-83					.22 .15	NO NO		17 18	
A 255	1		P9-Y* P12-59					.22 .15	NO NO		17 18	
A 256	1		P9-Z* P16-47					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A, C	SHEET 26 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 257	1		P9-AA P16-48					.22 .15	NO NO		17 19	
A 258	1		P9-FF P14-A					.22 .25	NO YES		17	
A 259	1		P9-GG P14-B					.22 .25	NO YES		17	
A 260	1		P9-JJ P13-28					.22 .15	NO NO		17 19	
A 261	1		P9-NN P13-14					.22 .15	NO NO		17 19	
A 262	1		P3-T* P2-X					.22 .22	NO NO		17 17	
A 263	1		P3-U* E3					.22 .38	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 27 OF 28

APPLICATION	
NEXT ASSY	USED ON
2701044-011	2900295-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61886	5 APR 66	FRW AU
B	REVISED PER MXC 211540	21 APR 66	JHP J.E.G.
C	INITIAL RELEASE CLASS A PER TDRR 20674	3-MAY-66	PG EF
D	REVISED PER TDRR 29422	14-MAY-66	B.

30 MAR 66

REV	C	C	C	C	C	C	C	C	C	C
SHEET	19	20	21	22	23	24	25	26	27	28

REV STATUS OF SHEETS REV	D	C	C	C	C	C	C	C	C	C	C	C	D	C	C	C	C	C
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 14 MAR 66 DAY MO YR
CHECKER J. GRIEB 30 MAR 66
ENGINEER 30 MAR 66
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL 5/4/66
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED BLK II PSAAM

SIZE A
CODE IDENT. NO 99974
2901396
SCALE NONE
SHEET 1 OF 28

MIL 1377A6 12-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	1		P6-S*					.22	NO		17	
			P15-55					.15	NO		19	
A 150	1		P6-T*					.22	NO		17	
			P11-65					.15	NO		18	
A 151	1		P6-U*					.22	NO		17	
			P11-40					.15	NO		18	
A 152	1		P6-BB					.22	NO		17	
			P12-52					.15	NO		18	
A 153	1		P6-CC					.22	NO		17	
			P12-31					.15	NO		18	
A 154	1		P6-DD					.22	NO		17	
			P15-35					.15	NO		19	
A 155	2		P6-EE					.22	NO		17	
			P5-M					.22	NO		17	
A 156	1		P7-A					.22	NO			
			P11-12					.15	NO		18	
A 157	1		P7-B					.22	NO		17	
			P11-13					.15	NO		18	
A 158	1		P7-C					.22	NO		17	
			P15-61					.15	NO		19	
A 159	1		P7-E					.22	NO		17	
			P11-75					.15	NO		18	
A 160	1		P7-F					.22	NO		17	
			P11-50					.15	NO		18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 18 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 161	1		P7-G					.22	NO		17	
			P15-44					.15	NO		19	
A 162	1		P7-H					.22	NO		17	
			P15-45					.15	NO		19	
A 163	1		P7-J					.22	NO		17	
			P11-74					.15	NO		18	
A 164	1		P7-K					.22	NO		17	
			P11-49					.15	NO		18	
A 165	1		P7-L					.22	NO		17	
			P15-47					.15	NO		19	
A 166	1		P7-M					.22	NO		17	
			P15-46					.15	NO		19	
A 167	1		P7-N					.22	NO		17	
			P11-28					.15	NO		18	
A 168	1		P7-P					.22	NO		17	
			P11-27					.15	NO		18	
A 169	1		P7-R					.22	NO		17	
			P15-52					.15	NO		19	
A 170	1		P7-T					.22	NO		17	
			P11-68					.15	NO		18	
A 171	1		P7-U					.22	NO		17	
			P11-44					.15	NO		18	
A 172	1		P7-V					.22	NO		17	
			P15-8					.15	NO		19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 19 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173	1		P7-W					.22	NO		17	
			P15-9					.15	NO		19	
A 174	1		P7-X					.22	NO		17	
			P12-30					.15	NO		18	
A 175	1		P7-Y					.22	NO		17	
			P12-29					.15	NO		18	
A 176	1		P7-Z					.22	NO		17	
			P15-19					.15	NO		19	
A 177	1		P7-A*					.22	NO		17	
			E3-B					.38	NO			
A 178	1		P7-B*					.22	NO		17	
			P12-17					.15	NO		18	
A 179	1		P7-C*					.22	NO		17	
			P12-6					.15	NO		18	
A 180	1		P7-D*					.22	NO		17	
			P16-8					.15	NO		19	
A 181	1		P7-E*					.22	NO		17	
			P16-2					.15	NO		19	
A 182	1		P7-F*					.22	NO		17	
			P12-16					.15	NO		18	
A 183	1		P7-G*					.22	NO		17	
			P12-5					.15	NO		18	
A 184	1		P7-H*					.22	NO		17	
			P16-54					.15	NO		19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 20 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 185	1		P7-I*					.22	NO		17	
			P16-32					.15	NO		19	
A 186	1		P7-J*					.22	NO		17	
			P12-15					.15	NO		18	
A 187	1		P7-K*					.22	NO		17	
			P12-14					.15	NO		18	
A 188	1		P7-M*					.22	NO		17	
			P16-56					.15	NO		19	
A 189	1		P7-N*					.22	NO		17	
			P16-55					.15	NO		19	
A 190	1		P7-P*					.22	NO		17	
			P11-77					.15	NO		18	
A 191	1		P7-Q*					.22	NO		17	
			P11-76					.15	NO		18	
A 192	1		P7-R*					.22	NO		17	
			P16-44					.15	NO		19	
A 193	1		P7-S*					.22	NO		17	
			P16-24					.15	NO		19	
A 194	1		P7-X*					.22	NO		17	
			P11-53					.15	NO		18	
A 195	1		P7-Y*					.22	NO		17	
			P11-31					.15	NO		18	
A 196	1		P7-BB					.22	NO		17	
			P12-51					.15	NO		18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 21 OF 28

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 197	1		P7-CC P12-50					.22 .15	NO NO		17 18	
A 198	1		P7-DD P15-36					.22 .15	NO NO		17 19	
A 199	1		P7-EE E5-B					.22 .38	NO NO		17	
A 200	1		P8-X P11-61					.22 .15	NO NO		17 18	
A 201	1		P8-Y P11-37					.22 .15	NO NO		17 18	
A 202	1		P8-Z P16-31					.22 .15	NO NO		17 19	
A 203	1		P8-A* P16-53					.22 .15	NO NO		 19	
A 204	1		P8-B* P11-64					.22 .15	NO NO		17 18	
A 205	1		P8-C* P11-39					.22 .15	NO NO		17 18	
A 206	1		P8-D* P16-52					.22 .15	NO NO		17 19	
A 207	2		P8-E* P8-A*					.22 .22	NO NO		17 17	
A 208	1		P8-F* P11-79					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 22 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 209	1		P8-G* P11-55					.22 .15	NO NO		17 18	
A 210	1		P8-H* P16-16					.22 .15	NO NO		17 19	
A 211	1		P8-I* P16-33					.22 .15	NO NO		17 19	
A 212	1		P8-J* P11-67					.22 .15	NO NO		17 18	
A 213	1		P8-K* P11-66					.22 .15	NO NO		17 18	
A 214	1		P8-M* P16-35					.22 .15	NO NO		17 19	
A 215	1		P8-N* E9-B					.22 .38	NO NO		17	
A 216	1		P8-P* P11-43					.22 .15	NO NO		17 18	
A 217	1		P8-Q* P11-42					.22 .15	NO NO		17 18	
A 218	1		P8-R* P16-17					.22 .15	NO NO		17 19	
A 219	1		P8-S* E9-B					.22 .38	NO NO		17	
A 220	1		P8-T* P11-24					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 23 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221	1		P8-U* P11-23					.22 .15	NO NO		17 18	
A 222	1		P8-V* P16-34					.22 .15	NO NO		17 19	
A 223	1		P8-W* E9-B					.22 .38	NO NO		17	
A 224	1		P8-X* P16-39					.22 .15	NO NO		17 19	
A 225	2		P8-Y* P2-N*					.22 .22	NO NO		17 17	
A 226	1		P9-A P12-36					.22 .15	NO NO		17 18	
A 227	1		P9-B P12-19					.22 .15	NO NO		17 18	
A 228	1		P9-C P16-41					.22 .15	NO NO		17 19	
A 229	1		P9-E P12-82					.22 .15	NO NO		17 18	
A 230	1		P9-F P12-58					.22 .15	NO NO		17 18	
A 231	1		P9-G P16-26					.22 .15	NO NO		17 19	
A 232	1		P9-H E2-B					.22 .38	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 24 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 233	1		P9-T P12-35					.22 .15	NO NO		17 18	
A 234	1		P9-U P12-18					.22 .15	NO NO		17 18	
A 235	1		P9-V P15-6					.22 .15	NO NO		17 19	
A 236	1		P9-W P15-16					.22 .15	NO NO		17 19	
A 237	1		P9-X P12-85					.22 .15	NO NO		17 18	
A 238	1		P9-Y P12-61					.22 .15	NO NO		17 18	
A 239	1		P9-Z P16-22					.22 .15	NO NO		17 19	
A 240	1		P9-B* P12-84					.22 .15	NO NO		17 18	
A 241	1		P9-C* P12-60					.22 .15	NO NO		17 18	
A 242	1		P9-D* P16-9					.22 .15	NO NO		17 19	
A 243	1		P9-J* P12-38					.22 .15	NO NO		17 18	
A 244	1		P9-K* P12-39					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 25 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A / C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	1		P9-M*					.22	NO		17	
			P15-15					.15	NO		19	
A 246	1		P9-N*					.22	NO		17	
			E2-B					.38	NO			
A 247	1		P9-P*					.22	NO		17	
			P11-32					.15	NO		18	
A 248	1		P9-Q*					.22	NO		17	
			P11-15					.15	NO		18	
A 249	1		P9-R*					.22	NO		17	
			P16-45					.15	NO		19	
A 250	1		P9-S*					.22	NO		17	
			P16-46					.15	NO		19	
A 251	1		P9-T*					.22	NO		17	
			P12-37					.15	NO		18	
A 252	1		P9-U*					.22	NO		17	
			P12-20					.15	NO		18	
A 253	1		P9-V*					.22	NO		17	
			P15-5					.15	NO		19	
A 254	1		P9-X*					.22	NO		17	
			P12-83					.15	NO		18	
A 255	1		P9-Y*					.22	NO		17	
			P12-59					.15	NO		18	
A 256	1		P9-Z*					.22	NO		17	
			P16-47					.15	NO		19	

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR A / C
SHEET 26 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 257	1		P9-AA					.22	NO		17	
			P16-48					.15	NO		19	
A 258	1		P9-FF					.22	NO		17	
			P14-A					.25	YES			
A 259	1		P9-GG					.22	NO		17	
			P14-B					.25	YES			
A 260	1		P9-JJ					.22	NO		17	
			P13-28					.15	NO		19	
A 261	1		P9-NN					.22	NO		17	
			P13-14					.15	NO		19	
A 262	1		P3-T*					.22	NO		17	
			P2-X					.22	NO		17	
A 263	1		P3-U*					.22	NO		17	
			E3					.38	NO			

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR A C
SHEET 27 OF 28

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
SEE SHEET 1 FOR REVISION RECORD					

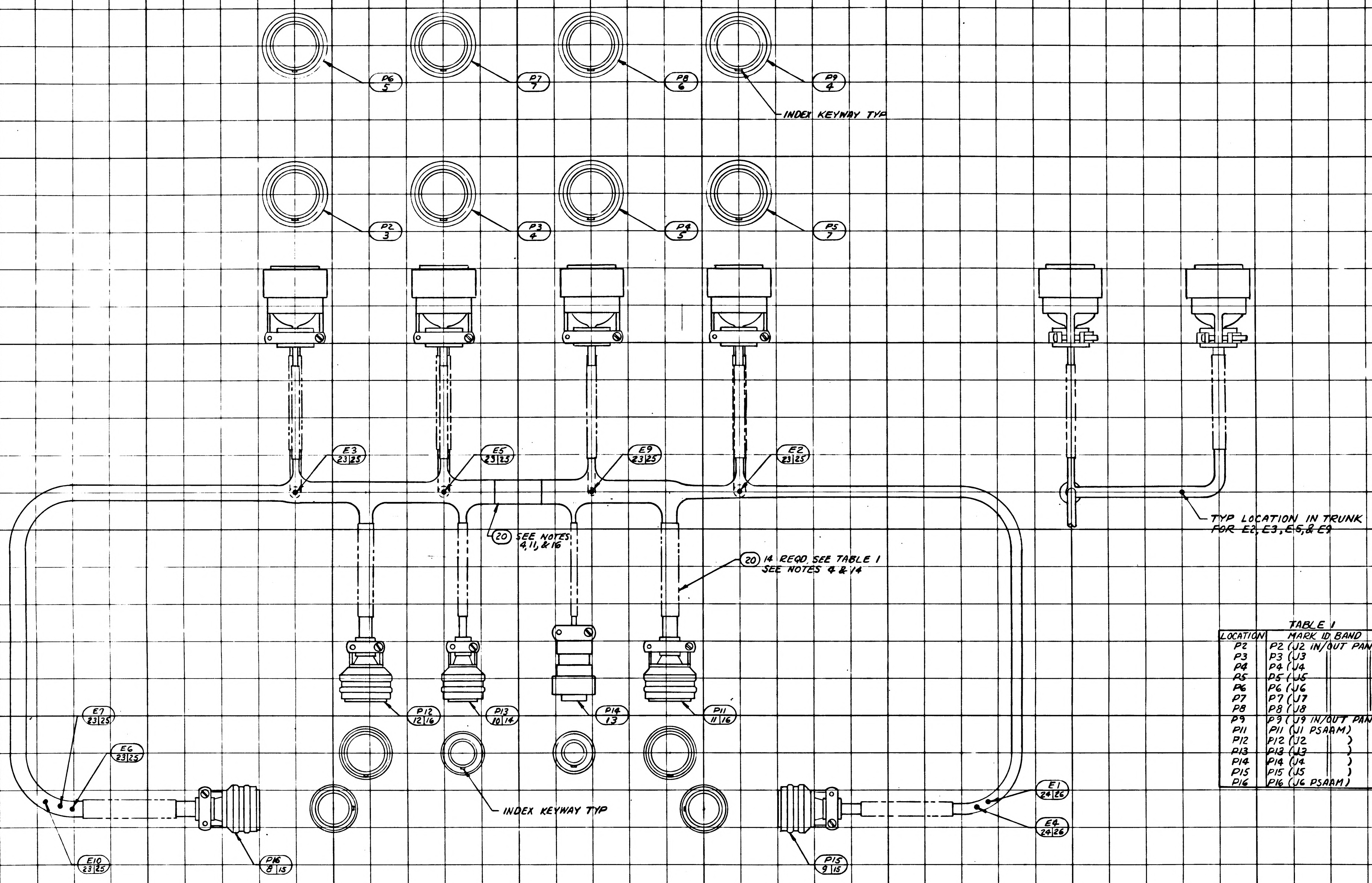

P6
5
P7
7
P8
6
P9
4
INDEX KEYWAY TYP
P2
3
P3
4
P4
5
P5
7
E3
23 25
E5
23 25
E9
23 25
E2
23 25
20 SEE NOTES 4, 11, & 16
20 14 REQD, SEE TABLE I SEE NOTES 4 & 14
TYP LOCATION IN TRUNK FOR E2, E3, E5, & E9
P12
12 16
P13
10 14
P14
13
P11
11 16
E7
23 25
E6
23 25
E10
23 25
P16
8 15
INDEX KEYWAY TYP
P15
9 15
E1
24 26
E4
24 26

TABLE I

LOCATION	MARK ID BAND
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3)
P4	P4 (J4)
P5	P5 (J5)
P6	P6 (J6)
P7	P7 (J7)
P8	P8 (J8)
P9	P9 (J9 IN/OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2)
P13	P13 (J3)
P14	P14 (J4)
P15	P15 (J5)
P16	P16 (J6 PSAAM)

2901044-011	2900295-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R.A.D. DATE 14 MAR 66
CHECKED J. GRIEB 30 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL
PURPOSE, ELECTRICAL,
BRANCHED
BLK II PSAAM

SIZE E
CODE IDENT NO. 99974
2901396
SCALE 1/1
SHEET 28 OF 28

MX-09891

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900295-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61886	5 APR 66	FRW AU
B	REVISED PER MXC 211540	21 APR 66	JHP J.E.G
C	INITIAL RELEASE CLASS A PER TDRR 28674	3-MAY-66	PG EF
D	REVISED PER TDRR 29422	14-MAY-66	B.
E	REVISED PER TDRR 30809	6 SEP 66	

Charleston 30MAR66

REV		C	C	C	C	C	C	E	C	E	C								
SHEET		19	20	21	22	23	24	25	26	27	28								

REV STATUS OF SHEETS	REV					E	C	C	C	C	C	C	C	C	C	C	C	D	C	C	C	C	C
	SHEET					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 14 MAR 66 (DAY MO YR)
CHECKER J. GRIEB 30 MAR 66
ENGINEER 30 MAR 66
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED BLK II PSAAM

SIZE A
CODE IDENT. NO 99974
2901396
SCALE NONE
SHEET 1 OF 28

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE.
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LACE HARNESS USING ITEM 21.
4	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 21.
5	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
6	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATIONS PER ND1002019.
9	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
10	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
11	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
12	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8 THRU 13.
13	SOLDER PER ND1002071 USING ITEM 29 OR ITEMS 27 AND 28.
14	MARK IDENTIFICATION BANDS WITH DESIGNATIONS AS NOTED, .12 INCH HIGH, COLOR BLACK PER ND1002019. CENTRALIZE.

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR ~~A~~ C
SHEET 2 OF 28

MIL 2084 9-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 22 TO SECURE THE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP
16	SERIALIZE PER ND1002023.
17	ASSEMBLE PER ND1002032.
18	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR ~~B~~ C
SHEET 3 OF 28

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901396-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG WHT, TOTAL LENGTH
	2	1	2901396-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG WHT, TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614)CONNECTOR-PLUG, ELECTRICAL
	4	2	MS3126F24-61PW	(1897047-611)CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610)CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PY	(1897047-613)CONNECTOR-PLUG, ELECTRICAL
	7	2	MS3126F24-61PX	(1897047-612)CONNECTOR-PLUG, ELECTRICAL
7	8	1	1897249-006	CONNECTOR-PLUG, ELECTRICAL
7	9	1	1897249-007	CONNECTOR-PLUG, ELECTRICAL
7	10	1	1897249-009	CONNECTOR-PLUG, ELECTRICAL
7	11	1	1897250-002	CONNECTOR-PLUG, ELECTRICAL
7	12	1	1897250-003	CONNECTOR-PLUG, ELECTRICAL
	13	1	MS3106R14S-7P	(1896918-007) CONNECTOR-PLUG, ELECTRICAL
7	14	1	1010933-103	CLAMP, CABLE, ELECTRICAL
7	15	2	1010933-104	CLAMP, CABLE, ELECTRICAL
7	16	2	1010933-105	CLAMP, CABLE, ELECTRICAL
15	17	~~AR~~ X	MS3192A20A	(1896855-020) CONTACT-ELECTRICAL, PIN, CRIMP (FURNISHED WITH ITEMS 3 THRU 7).

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR ~~A~~ C
SHEET 4 OF 28

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	18	~~AR~~ X	1897190- 1	CONTACT, ELECTRICAL (PIN CONTACT) (FURNISHED WITH ITEMS 11 AND 12).
7	19	~~105~~ X	1897190- 2	CONTACT, ELECTRICAL (SOCKET CONTACT) (FURNISHED WITH ITEMS 8 THRU 10).
7	20	15	1016128-011	BAND-IDENTIFICATION, BLANK
	21	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK ~~ES27321~~
	22	AR	MIL-I-631	FILLER TAPE, ~~TYPE I,~~ TYPE F, FORM T (BLACK) GRADE A, CLASS 1, .62 INCH WIDE, .020 INCH THICK
7	23	7	1016006-001	SPLICE-REDUCER
7	24	2	1016006-002	SPLICE-REDUCER
7	25	7	1010490-228	INSULATION-SLEEVING, ELECTRICAL
7	26	2	1010490-256	INSULATION-SLEEVING, ELECTRICAL
	27	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	28	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	29	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

SIZE A
CODE IDENT NO. 99974
2901396
SCALE-NONE
REV LTR ~~A~~ C
SHEET 5 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A, C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1-B P11-59					.38 .15	NO NO		 18	
A 2	1		E1-BB E2-BB					.38 .38	NO NO			
A 3	1		E1-B P11-35					.38 .15	NO NO		 18	
A 4	1		E1-B P11-84					.38 .15	NO NO		 18	
A 5	1		E1-B P11-60					.38 .15	NO NO		 18	
A 6	1		E1-B P11-83					.38 .15	NO NO		 18	
A 7	1		E1-B P11-58					.38 .15	NO NO		 18	
A 8	1		E1-B P11-18					.38 .15	NO NO		 18	
A 9	1		E4-B P11-7					.38 .15	NO NO		 18	
A 10	1		E4-B P11-57					.38 .15	NO NO		 18	
A 11	1		E4-B P11-34					.38 .15	NO NO		 18	
A 12	1		E4-B P15-14					.38 .15	NO NO		 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A, C	SHEET 6 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A, C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E4-BB P11-33					.38 .15	NO NO		 18	
A 14	1		E4-B P11-17					.38 .15	NO NO		 18	
A 15	1		E1-BB E4-BB					.38 .38	NO NO			
A 16	1		E4-B P11-62					.38 .15	NO NO		 18	
A 17	1		E4-B P11-63					.38 .15	NO NO		 18	
A 18	1		E6-B P16-38					.38 .15	NO NO		 19	
A 19	1		E6-B P16-19					.38 .15	NO NO		 19	
A 20	1		E6-B P16-60					.38 .15	NO NO		 19	
A 21	1		E7-B P16-20					.38 .15	NO NO		 19	
A 22	1		E7-B P16-37					.38 .15	NO NO		 19	
A 23	1		E7-B P16-61					.38 .15	NO NO		 19	
A 24	1		P2-BB P16-57					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A, C	SHEET 7 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 26	1		P2-Y E3-B					.22 .38	NO NO		17	
A 27	1		P16-25 E10-BB					.15 .38	NO NO		19	
A 29	1		E10-B P14-C					.38 .25	NO YES			
A 30	2		P11-8 P2-HH					.15 .22	NO NO		18	
A 31	1		E5-B P15-7					.38 .15	NO NO		 19	
A 32	1		E9-BB P16-36					.38 .15	NO NO		 19	
A 33	1		E10-B P15-26					.38 .15	NO NO		 19	
A 34	1		E10-B P2-U*					.38 .22	NO NO		 17	
A 35	1		E3-BB E1-BB					.38 .38	NO NO			
A 36	1		P2-F* P11-25					.22 .15	NO NO		17 18	
A 37	1		P2-G* P11-45					.22 .15	NO NO		17 18	
A 38	1		P2-H* P15-54					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 8 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 A C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 39	1		P2-M* P13-5					.22 .15	NO NO		17 19	
A 40	1		P2-N* P13-18					.22 .15	NO NO		 19	
A 41	1		P2-HH P11-20					.22 .15	NO NO		17 18	
A 42	1		P2-LL P11-41					.22 .15	NO NO		17 18	
A 43	1		P2-MM P11-22					.22 .15	NO NO		17 18	
A 44	1		P3-A P11-70					.22 .15	NO NO		17 18	
A 45	1		P3-B P11-71					.22 .15	NO NO		17 18	
A 46	1		P3-C P15-32					.22 .15	NO NO		17 19	
A 47	1		P3-E P11-21					.22 .15	NO NO		17 18	
A 48	1		P3-F P11-9					.22 .15	NO NO		17 18	
A 49	1		P3-J P12-55					.22 .15	NO NO		17 18	
A 50	1		P3-K P12-32					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR A C	SHEET 9 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51	1		P3-N P12-78					.22 .15	NO NO		17 18	
A 52	1		P3-P P12-53					.22 .15	NO NO		17 18	
A 53	1		P3-T P11-30					.22 .15	NO NO		17 18	
A 54	1		P3-U P11-29					.22 .15	NO NO		17 18	
A 55	1		P3-V P16-23					.22 .15	NO NO		17 19	
A 56	1		P3-W P16-43					.22 .15	NO NO		17 19	
A 57	1		P3-X P11-2					.22 .15	NO NO		17 18	
A 58	1		P3-Y P11-10					.22 .15	NO NO		17 18	
A 59	1		P3-Z P15-30					.22 .15	NO NO		17 19	
A 60	1		P3-A* P15-40					.22 .15	NO NO		17 19	
A 61	1		P3-B* P11-1					.22 .15	NO NO		17 18	
A 62	1		P3-C* P11-4					.22 .15	NO NO		17 18	

SIZE A	CODE IDENT NO. 99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 10 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 63	1		P3-D* P15-51					.22 .15	NO NO		17 19	
A 64	1		P3-E* P15-38					.22 .15	NO NO		17 19	
A 65	1		P3-F* P11-3					.22 .15	NO NO		17 18	
A 66	1		P3-G* P11-11					.22 .15	NO NO		17 18	
A 67	1		P3-H* P15-31					.22 .15	NO NO		17 19	
A 68	1		P3-J* P11-5					.22 .15	NO NO		17 18	
A 69	1		P3-K* P11-14					.22 .15	NO NO		17 18	
A 70	1		P3-M* P15-39					.22 .15	NO NO		17 19	
A 71	1		P4-A P11-78					.22 .15	NO NO		17 18	
A 72	1		P4-B P11-54					.22 .15	NO NO		17 18	
A 73	1		P4-D E5-BB					.22 .38	NO NO		17	
A 74	1		P4-E P11-52					.22 .15	NO NO		17 18	

SIZE A	CODE IDENT NO. 99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 11 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 75	1		P4-F P11-51					.22 .15	NO NO		17 18	
A 76	1		P4-G P16-11					.22 .15	NO NO		17 19	
A 77	1		P4-H P16-10					.22 .15	NO NO		17 19	
A 79	1		P4-M P13-30					.22 .15	NO NO		17 18	
A 81	1		P4-S P13-6					.22 .15	NO NO		17 19	
A 82	1		P4-T P16-18					.22 .15	NO NO		17 19	
A 83	1		P4-W P13-32					.22 .15	NO NO		17 19	
A 84	1		P4-X P16-6					.22 .15	NO NO		17 19	
A 85	1		P4-A* P13-16					.22 .15	NO NO		17 19	
A 86	1		P4-B* P16-7					.22 .15	NO NO		17 19	
A 87	2		P4-C* P7-Y					.22 .22	NO NO		17	
A 88	1		P4-E* P13-34					.22 .15	NO NO		17 19	

SIZE A	CODE IDENT NO. 99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 12 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 D

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89	1		P4-F* P16-40					.22 .15	NO NO		17 19	
A 90	1		P4-G* P16-42					.22 .15	NO NO		17 19	
A 91	1		P4-H* P13-39					.22 .15	NO NO		17 19	
A 92	1		P4-I* P13-22					.22 .15	NO NO		17 19	
A 93	1		P4-J* P16-21					.22 .15	NO NO		17 19	
A 94	1		P4-M* P13-20					.22 .15	NO NO		17 19	
A 95	1		P4-N* P13-8					.22 .15	NO NO		17 19	
A 96	1		P4-T* P2-V					.22 .22	NO NO		17 17	
A 97	1		P4-U* P2-W					.22 .22	NO NO		17 17	
A 98	1		P4-V* P15-56					.22 .15	NO NO		17 19	
A 99	1		P4-W* P15-57					.22 .15	NO NO		17 19	
A 100	2		P5-A P4-T*					.22 .22	NO NO		17 17	

SIZE A	CODE IDENT NO. 99974	2901396
SCALE-NONE	REV LTR D	SHEET 13 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149	1		P6-S* P15-55					.22 .15	NO NO		17 19	
A 150	1		P6-T* P11-65					.22 .15	NO NO		17 18	
A 151	1		P6-U* P11-40					.22 .15	NO NO		17 18	
A 152	1		P6-BB P12-52					.22 .15	NO NO		17 18	
A 153	1		P6-CC P12-31					.22 .15	NO NO		17 18	
A 154	1		P6-DD P15-35					.22 .15	NO NO		17 19	
A 155	2		P6-EE P5-M					.22 .22	NO NO		17 17	
A 156	1		P7-A P11-12					.22 .15	NO NO		 18	
A 157	1		P7-B P11-13					.22 .15	NO NO		17 18	
A 158	1		P7-C P15-61					.22 .15	NO NO		17 19	
A 159	1		P7-E P11-75					.22 .15	NO NO		17 18	
A 160	1		P7-F P11-50					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 18 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 161	1		P7-G P15-44					.22 .15	NO NO		17 19	
A 162	1		P7-H P15-45					.22 .15	NO NO		17 19	
A 163	1		P7-J P11-74					.22 .15	NO NO		17 18	
A 164	1		P7-K P11-49					.22 .15	NO NO		17 18	
A 165	1		P7-L P15-47					.22 .15	NO NO		17 19	
A 166	1		P7-M P15-46					.22 .15	NO NO		17 19	
A 167	1		P7-N P11-28					.22 .15	NO NO		17 18	
A 168	1		P7-P P11-27					.22 .15	NO NO		17 18	
A 169	1		P7-R P15-52					.22 .15	NO NO		17 19	
A 170	1		P7-T P11-68					.22 .15	NO NO		17 18	
A 171	1		P7-U P11-44					.22 .15	NO NO		17 18	
A 172	1		P7-V P15-8					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 19 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 173	1		P7-W P15-9					.22 .15	NO NO		17 19	
A 174	1		P7-X P12-30					.22 .15	NO NO		17 18	
A 175	1		P7-Y P12-29					.22 .15	NO NO		17 18	
A 176	1		P7-Z P15-19					.22 .15	NO NO		17 19	
A 177	1		P7-A* E3-B					.22 .38	NO NO		17	
A 178	1		P7-B* P12-17					.22 .15	NO NO		17 18	
A 179	1		P7-C* P12-6					.22 .15	NO NO		17 18	
A 180	1		P7-D* P16-8					.22 .15	NO NO		17 19	
A 181	1		P7-E* P16-2					.22 .15	NO NO		17 19	
A 182	1		P7-F* P12-16					.22 .15	NO NO		17 18	
A 183	1		P7-G* P12-5					.22 .15	NO NO		17 18	
A 184	1		P7-H* P16-54					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ C	SHEET 20 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ ~~B~~ C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 185	1		P7-I* P16-32					.22 .15	NO NO		17 19	
A 186	1		P7-J* P12-15					.22 .15	NO NO		17 18	
A 187	1		P7-K* P12-14					.22 .15	NO NO		17 18	
A 188	1		P7-M* P16-56					.22 .15	NO NO		17 19	
A 189	1		P7-N* P16-55					.22 .15	NO NO		17 19	
A 190	1		P7-P* P11-77					.22 .15	NO NO		17 18	
A 191	1		P7-Q* P11-76					.22 .15	NO NO		17 18	
A 192	1		P7-R* P16-44					.22 .15	NO NO		17 19	
A 193	1		P7-S* P16-24					.22 .15	NO NO		17 19	
A 194	1		P7-X* P11-53					.22 .15	NO NO		17 18	
A 195	1		P7-Y* P11-31					.22 .15	NO NO		17 18	
A 196	1		P7-BB P12-51					.22 .15	NO NO		17 18	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ ~~B~~ C	SHEET 21 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 ~~A~~ , C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 245	1		P9-M* P15-15					.22 .15	NO NO		17 19	
A 246	1		P9-N* E2-B					.22 .38	NO NO		17	
A 247	1		P9-P* P11-32					.22 .15	NO NO		17 18	
A 248	1		P9-Q* P11-15					.22 .15	NO NO		17 18	
A 249	1		P9-R* P16-45					.22 .15	NO NO		17 19	
A 250	1		P9-S* P16-46					.22 .15	NO NO		17 19	
A 251	1		P9-T* P12-37					.22 .15	NO NO		17 18	
A 252	1		P9-U* P12-20					.22 .15	NO NO		17 18	
A 253	1		P9-V* P15-5					.22 .15	NO NO		17 19	
A 254	1		P9-X* P12-83					.22 .15	NO NO		17 18	
A 255	1		P9-Y* P12-59					.22 .15	NO NO		17 18	
A 256	1		P9-Z* P16-47					.22 .15	NO NO		17 19	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR ~~A~~ , C	SHEET 26 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901396 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 257	1		P8-P P16-48					.22 .15	NO NO		17 19	
A 258	1		P9-FF P14-A					.22 .25	NO YES		17	
A 259	1		P9-GG P14-B					.22 .25	NO YES		17	
A 260	1		P9-JJ P13-28					.22 .15	NO NO		17 19	
A 261	1		P9-NN P13-14					.22 .15	NO NO		17 19	
A 262	1		P3-T* P2-X					.22 .22	NO NO		17 17	
A 263	1		P3-U* E3					.22 .38	NO NO		17	

SIZE	CODE IDENT NO.	
A	99974	2901396
SCALE-NONE	REV LTR E	SHEET 27 OF 28

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD

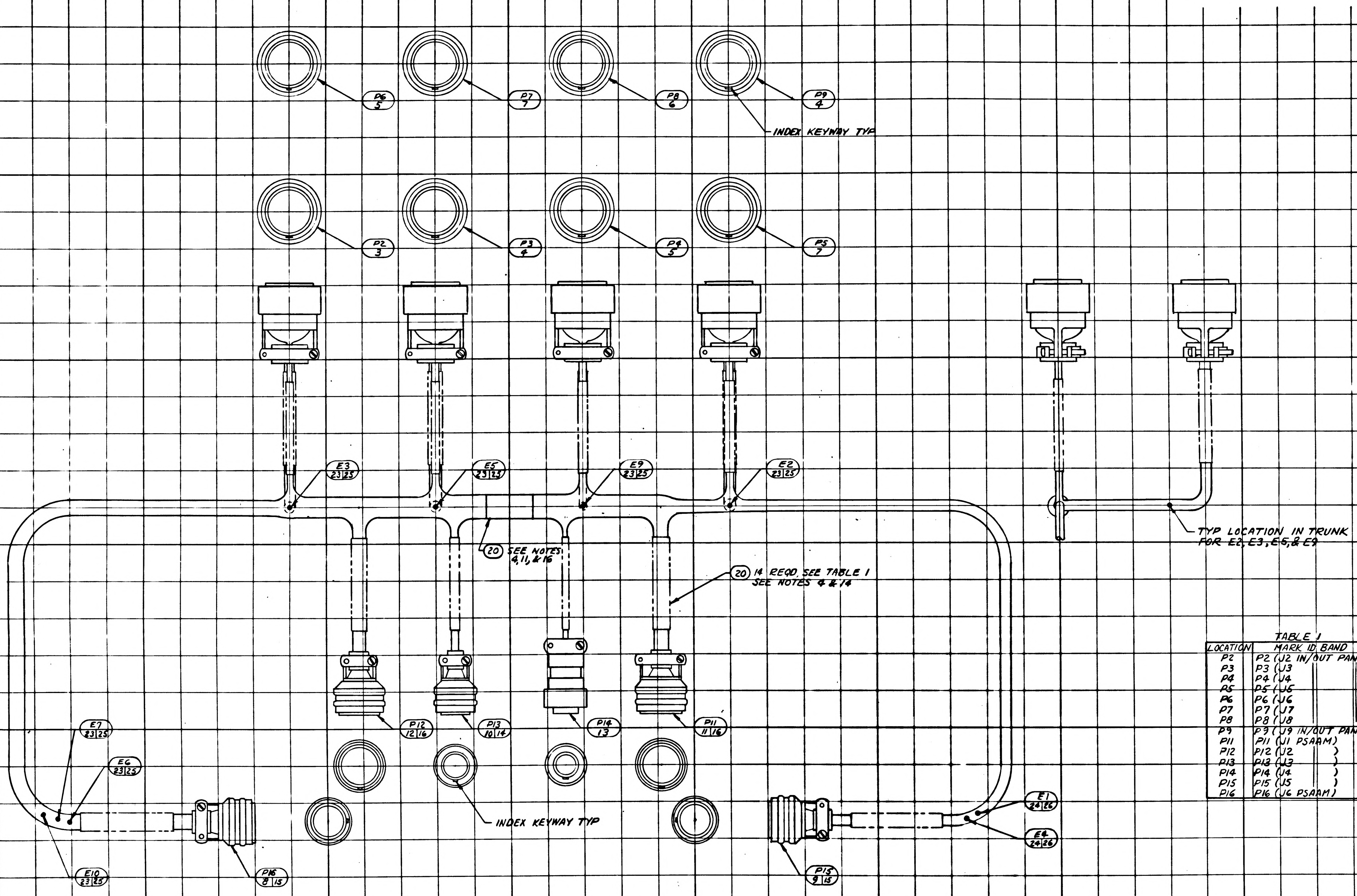

P6 5
P7 7
P8 6
P9 4
INDEX KEYWAY TYP
P2 3
P3 4
P4 5
P5 7
E3 23 25
E5 23 25
E9 23 25
E2 23 25
TYP LOCATION IN TRUNK FOR E2, E3, E5, & E9
20 SEE NOTES 4, 11, & 16
20 14 REQD, SEE TABLE 1 SEE NOTES 4 & 14
P12 12 16
P13 10 14
P14 13
P11 11 16
E7 23 25
E6 23 25
E10 23 25
INDEX KEYWAY TYP
P16 8 15
P15 9 15
E1 24 26
E4 24 26

TABLE 1

LOCATION	MARK ID BAND
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3)
P4	P4 (J4)
P5	P5 (J5)
P6	P6 (J6)
P7	P7 (J7)
P8	P8 (J8)
P9	P9 (J9 IN/OUT PANEL)
P11	P11 (J1 PSAAM)
P12	P12 (J2)
P13	P13 (J3)
P14	P14 (J4)
P15	P15 (J5)
P16	P16 (J6 PSAAM)

2901044-011	2900295-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 14 MAR 66
CHECKED J. GRIEB 30 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL
PURPOSE, ELECTRICAL,
BRANCHED
BLK II PSAAM

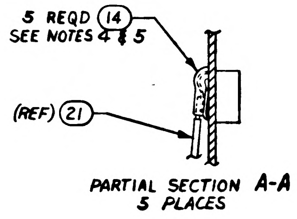
SIZE E
CODE IDENT NO. 99974
2901396
SCALE 1/1
SHEET 28 OF 26

MX-10988

NOTES:

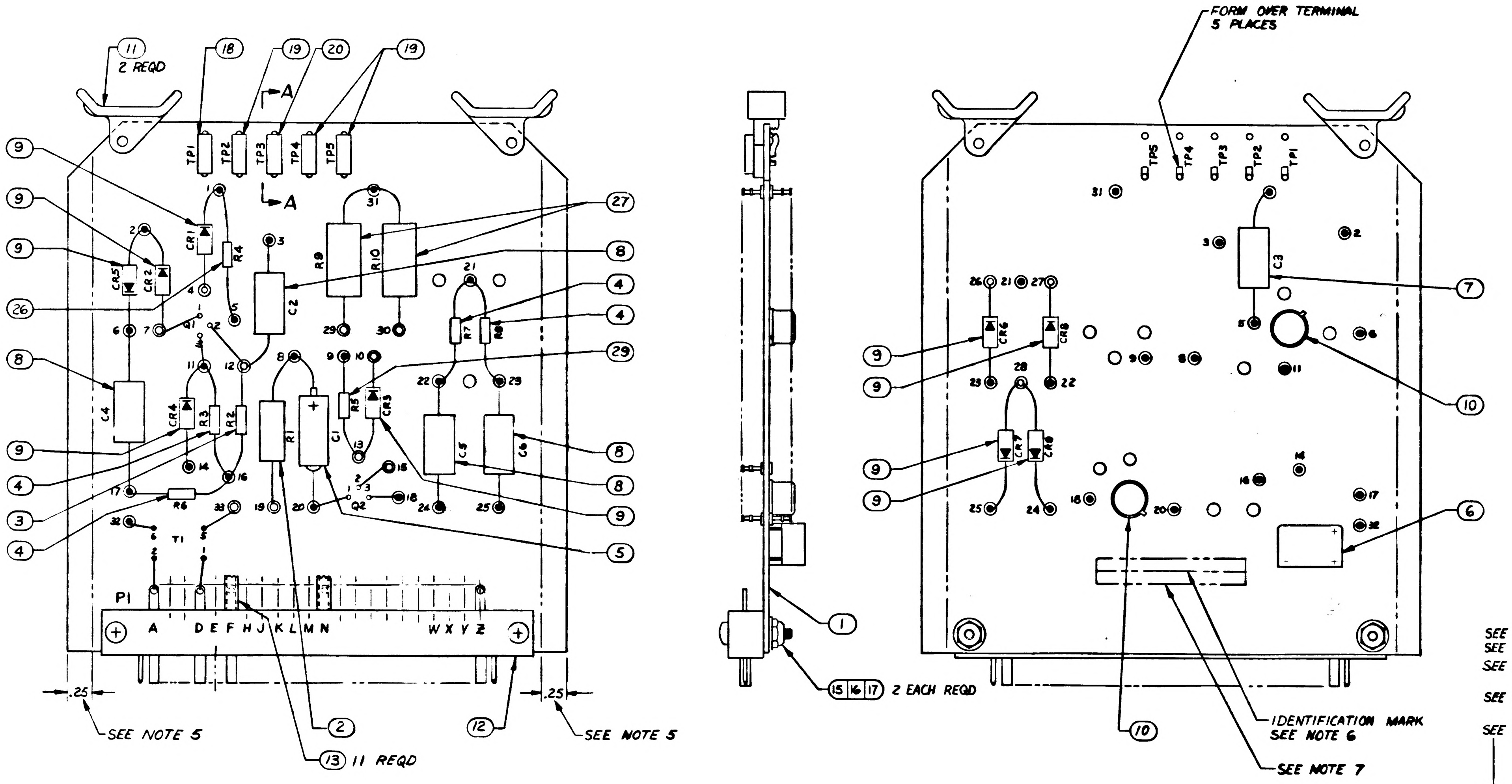
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER MIL-S-6872 (ES2505-1) USING ITEM 24, OR ITEMS 22 AND 23.
3. BOND ITEMS 6, 18, 19, 20 AND 10 TO ITEM 1 PER ND1002203.
4. FORM OVER TERMINALS OF ITEMS 18, 19 AND 20 AS SHOWN AND BOND SLEEVING, ITEM 14, TO ITEM 1 PER ND1002203.
5. COMPONENTS AND WIRING MUST NOT EXTEND INTO AREAS INDICATED.
6. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES267).
7. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NUMBER .09 HIGH PER ND1002019.
8. SERIALIZE PER ND1002023.
9. VENDOR ITEM - SEE SPEC CONTROL DRAWING.
10. DIODE SYMBOLS ARE FOR REFERENCE ONLY.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER D.O. 61882		5 APR 66	FRW
	B	REVISED PER D.O. 61894		66	
	C	INITIAL RELEASE CLASS A PER TDRR 6755		4 MAY 66	RO CO



5 REQD (14)
SEE NOTES 4 & 5
(REF) (21)

PARTIAL SECTION A-A
5 PLACES



(11) 2 REQD
(18)
(19)
(20)
(19)
A
A
TP1
TP2
TP3
TP4
TP5
(9)
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CR4
CR5
CR6
CR7
CR8
CR9
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
C1
C2
C3
C4
C5
C6
Q1
Q2
T1
P1
A
D E F H J K L M N
W X Y Z
.25
.25
SEE NOTE 5
SEE NOTE 5
(2)
(12)
(13) 11 REQD
(1)
(15)(16)(17) 2 EACH REQD
FORM OVER TERMINAL 5 PLACES
(7)
(10)
(6)
(9)
(9)
(9)
(9)
(10)
IDENTIFICATION MARK SEE NOTE 6
SEE NOTE 7

	QUANTITY REQUIRED 011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	29	RC07GF203J	(1896985-080) RESISTOR MIL-R-11/8
	☒	28	PS2016118	PROCUREMENT SPECIFICATION
	2	27	RC42GF621J	(1896951-044) RESISTOR MIL-R-11/7
	1	26	RC07GF512J	(1896985-066) RESISTOR MIL-R-11/8
	☒	25	2901407	SCHEMATIC DIAGRAM, ELECTRICAL
	AR	24	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
	AR	23	MIL-F-14256	FLUX TYPE A OR W (ES2798)
	AR	22	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
	1	21	2901408	LEAD SET AA, ELECTRICAL
SEE NOTE 9	1	20	1016347-010	JACK, MINIATURE
SEE NOTE 9	3	19	1016347-008	JACK, MINIATURE
SEE NOTE 9	1	18	1016347-003	JACK, MINIATURE
	2	17	AN960C4	WASHER, PLAIN
SEE NOTE 9	2	16	1016151-004	NUT-SELF LOCKING
	2	15	MS35216-17	SCREW, PAN HD
SEE NOTE 9	5	14	1010490-082	INSULATION, SLEEVING
	11	13	1015864-109	INSULATION, SLEEVING
	1	12	1015956-171	CONNECTOR ADAPTER, ELECTRICAL
	2	11	1015999-003	EJECTOR, CIRCUIT BOARD
SEE NOTE 9	2	10	1015928-001	TRANSISTOR
	9	9	1N914	(1896966-044) DIODE MIL-S-19500/116
	4	8	CM15D471J03	(1896969-104) CAPACITOR MIL-C-5/1
	1	7	CM15C221J03	(1896969-096) CAPACITOR MIL-C-5/1
SEE NOTE 9	1	6	1016010-004	TRANSFORMER, PULSE
	1	5	CS13AG100K	(1896954-176) CAPACITOR MIL-C-26655/2
	4	4	RC07GF103J	(1896985-073) RESISTOR MIL-R-11/8
	1	3	RC07GF104J	(1896985-097) RESISTOR MIL-R-11/8
	1	2	RC32GF102J	(1896953-063) RESISTOR MIL-R-11/6
	1	1	2901406	TERMINAL BOARD (INSEP. ASSY.)

EFFECTIVITY

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
011	2900029-021	2900029-021

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Frank R Walton DATE 11 MAR 66
CHECKED J. Stelma 21 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BUFFER ASSEMBLY, ELECTRONIC

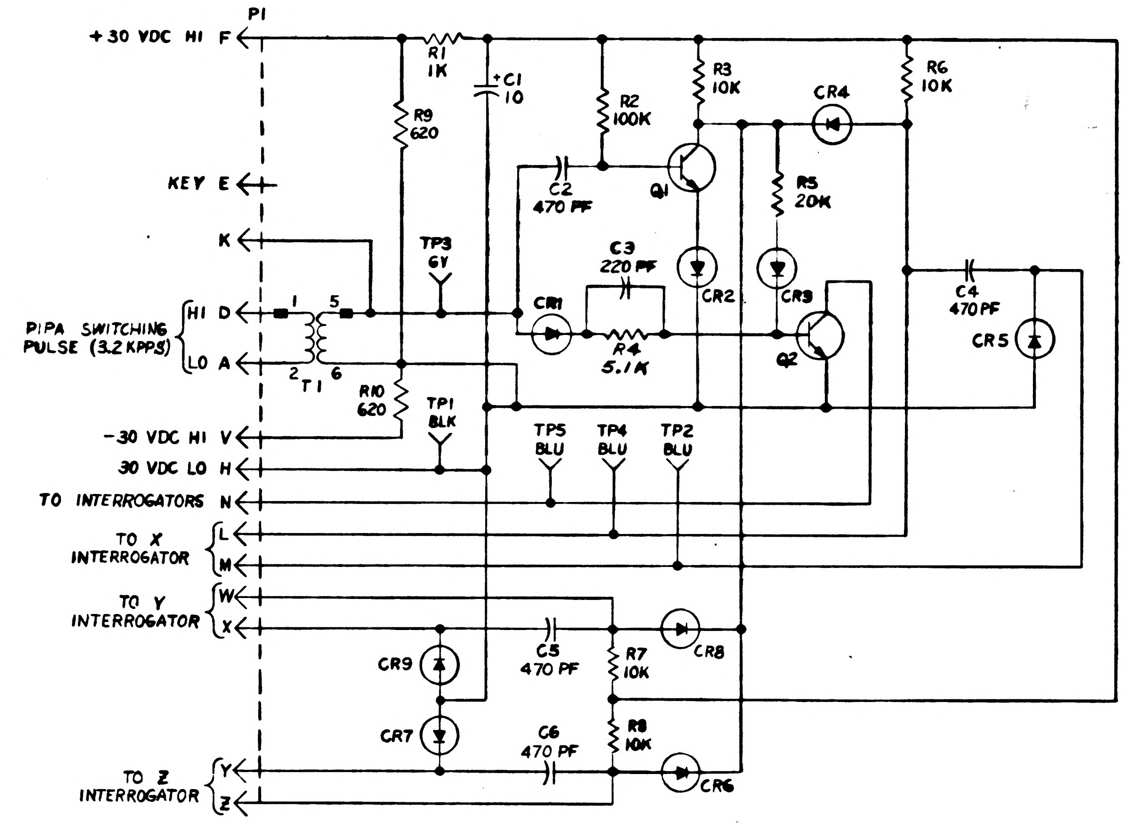
SIZE E
CODE IDENT NO. 99974
2901405
SCALE 2:1
SHEET 1 OF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   2901405-011 BUFFER ASSEMBLY
4. UNLESS OTHERWISE SPECIFIED:
   A. ALL VALUES ARE IN OHMS AND MICROFARADS.

REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
C1	CS13AG100K	CAPACITOR MIL-C-26655/2	10μf ±20%
C2	CM15D471J03	MIL-C-5/1	470 PF ± 5%
C3	CM15C221J03		220 PF
C4	CM15D471J03		470PF
C5	CM15D471J03		470PF
C6	CM15D471J03	CAPACITOR MIL-C-5/1	470PF ± 5%
CR1	IN914	DIODE MIL-S-19500/116	
CR2			
CR3			
CR4			
CR5			
CR6			
CR7			
CR8			
CR9	IN914	DIODE MIL-S-19500/116	
P1	1015956-171	CONNECTOR ADAPTER	
Q1	1015928-001	TRANSISTOR 2N2193	
Q2	1015928-001	TRANSISTOR 2N2193	
R1	RC32GF102J	RESISTOR MIL-R-11/6	1 K ±5%
R2	RC07GF104J	MIL-R-11/8	100K
R3	RC07GF103J		10K
R4	RC07GF512J		5.1K
R5	RC07GF203J		20K
R6	RC07GF103J		10K
R7	RC07GF103J		10K
R8	RC07GF103J	MIL-R-11/8	10K
R9	RC42GF621J	MIL-R-11/7	620
R10	RC42GF621J	RESISTOR MIL-R-11/7	620 ±5%
T1	1016010-004	TRANSFORMER, PULSE	1:1
TP1	1016347-003	JACK, MINIATURE	
TP2	1016347-008		
TP3	1016347-010		
TP4	1016347-008		
TP5	1016347-008	JACK, MINIATURE	

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER D.O. 61881		1-5 66	E.L. RWH
	B	INITIAL RELEASE CLASS A PER TDRR		4 MAY 66	RC CP


P1
+30 VDC HI F
KEY E
K
PIPA SWITCHING PULSE (3.2 KPPS)
HI D
LO A
-30 VDC HI V
30 VDC LO H
TO INTERROGATORS N
TO X INTERROGATOR
L
M
TO Y INTERROGATOR
W
X
TO Z INTERROGATOR
Y
Z
1
5
2
6
T1
R1 1K
+C1 10
R9 620
R10 620
TP3 6Y
TP1 BLK
R2 100K
C2 470 PF
Q1
R3 10K
CR4
R6 10K
R5 20K
C3 220 PF
CR1
R4 5.1K
CR2
CR3
Q2
C4 470PF
CR5
TP5 BLU
TP4 BLU
TP2 BLU
CR9
C5 470 PF
R7 10K
CR8
CR7
C6 470 PF
R8 10K
CR6

UNUSED TERMINALS	
REF DES	TERMINAL NO.
P1	B, C, J, P, R, S T, U

2901405-011	2900029-021
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Frank R. Walter DATE 15MAR66
CHECKED J. Stelmac 21MAR 66
APPROVAL M. Walton 5-4-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM,
ELECTRICAL- BUFFER ASSEMBLY

SIZE E
CODE IDENT NO. 99974
2901407
SCALE —
SHEET 1 OF 1

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901044-011	2900895-011	A	REVISED PER D.O. 61846	29 MAR 66	LGC J.E.G.
		B	REVISED PER MXC 211820	28 APR 66	JJJ RWH
		C	REVISED PER MXC 211989	2 MAY 66	HTO CP
		D	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	GH EF

REV STATUS OF SHEETS																					
REV	D	D	D	D	D																
SHEET	21	22	23	24	25																
REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS

DRAWN 11 MAR 66 DATE
CHECKED A. Udovich 17 MAR 66
APPROVAL K Pierini 18 MAR 66
APPROVAL

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, BLOCK II SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901412	D

SCALE —

SHEET 1 OF 25

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNF. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P13-12					.15	NO		12	
A 2	1		E2					.37	NO			
			P13-41					.15	NO		12	
A 3	1		E3					.37	NO			
			P13-30					.15	NO		12	
A 4	1		E4					.37	NO			
			P13-55					.15	NO		12	
A 5	1		E5					.37	NO			
			P13-23					.15	NO		12	
A 6	1		E6					.37	NO			
			P13-7					.15	NO		12	
A 7	1		E7					.37	NO			
			P13-6					.15	NO		12	
A 8	1		E8					.37	NO			
			P13-37					.15	NO		12	
A 9	1		E9					.37	NO			
			P13-50					.15	NO		12	
A 10	1		E10					.37	NO			
			P13-39					.15	NO		12	
A 11	1		E11					.37	NO			
			P13-76					.15	NO		12	
A 12	1		P2-T*					.22	NO		13	
			P12-55					.15	NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 6 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A). TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNF. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-U*					.22	NO		13	
			P1-62					.15	NO		11	
A 14	1		P2-X					.22	NO		13	
			E12					.37	NO			
A 15	1		P2-Y					.22	NO		13	
			E13					.37	NO			
A 16	1		P2-N					.22	NO		13	
			P12-51					.15	NO		11	
A 17	1		P2-P					.22	NO		13	
			P12-29					.15	NO		11	
A 18	1		P2-V					.22	NO		13	
			P12-28					.15	NO		11	
A 19	1		P2-W					.22	NO		13	
			P12-49					.15	NO		11	
A 20	1		P2-R					.22	NO		13	
			P12-53					.15	NO		11	
A 21	1		P2-S					.22	NO		13	
			P12-52					.15	NO		11	
A 22	1		E12					.37	NO			
			P1-66					.15	NO		11	
A 23	1		E13					.37	NO			
			P1-42					.15	NO		11	
A 24	1		E12					.37	NO			
			P1-68					.15	NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 7 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNF. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E13					.37	NO			
			P1-69					.15	NO		11	
A 26	1		E12					.37	NO			
			P1-43					.15	NO		11	
A 27			DELETED									
A 28	1		P2-A					.22	NO		13	
			P13-31					.15	NO		12	
A 29	1		P2-B					.22	NO		13	
			E3					.37	NO			
A 30	1		P2-C					.22	NO		13	
			P1-22					.15	NO		11	
A 31	1		P2-D					.22	NO		13	
			E15					.37	NO			
A 32	1		P2-E					.22	NO		13	
			P13-15					.15	NO		12	
A 33	1		P2-G					.22	NO		13	
			P1-39					.15	NO		11	
A 34	1		P2-H					.22	NO		13	
			E15					.37	NO			
A 35	1		P2-J					.22	NO		13	
			P13-56					.15	NO		12	
A 36	1		P2-K					.22	NO		13	
			E4					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 8 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-L					.22	NO		13	
			P1-64					.15	NO		11	
A 38	1		P2-M					.22	NO		13	
			E15					.37	NO			
A 39	1		P2-B*					.22	NO		13	
			P13-77					.15	NO		12	
A 40	1		P2-C*					.22	NO		13	
			E11					.37	NO			
A 41	1		P2-D*					.22	NO		13	
			P1-29					.15	NO		11	
A 42	1		P2-E*					.22	NO		13	
			E14					.37	NO			
A 43	1		P2-F*					.22	NO		13	
			P13-75					.15	NO		12	
A 44	1		P2-G*					.22	NO		13	
			E9					.37	NO			
A 45	1		P2-H*					.22	NO		13	
			P12-17					.15	NO		11	
A 46	1		P2-I*					.22	NO		13	
			P12-16					.15	NO		11	
A 47	1		P2-J*					.22	NO		13	
			P13-5					.15	NO		12	
A 48	1		P2-K*					.22	NO		13	
			E7					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 9 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P2-V*					.22	NO		13	
			P13-17					.15	NO		12	
A 50	1		P2-W*					.22	NO		13	
			E7					.37	NO			
A 51	1		P2-X*					.22	NO		13	
			P1-25					.15	NO		11	
A 52	1		P2-Y*					.22	NO		13	
			P1-44					.15	NO		11	
A 53	1		P2-Z*					.22	NO		13	
			P1-23					.15	NO		11	
A 54	1		P2-AA					.22	NO		13	
			P1-24					.15	NO		11	
A 55	1		P2-GG					.22	NO		13	
			P13-16					.15	NO		12	
A 56	1		P2-HH					.22	NO		13	
			E7					.37	NO			
A 57	1		P2-JJ					.22	NO		13	
			P1-3					.15	NO		11	
A 58	1		P2-KK					.22	NO		13	
			P1-11					.15	NO		11	
A 59	1		P3-A					.22	NO		13	
			P13-4					.15	NO		12	
A 60	2		P3-B					.22	NO		13	
			P3-F					.22	NO		13	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D C E	SHEET 10 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-C					.22	NO		13	
			~~P1-82~~ P1-57					.15	NO		11	
A 62	1		P3-D					.22	NO		13	
			~~P1-57~~ P1-82					.15	NO		11	
A 63	1		P3-E					.22	NO		13	
			P13-11					.15	NO		12	
A 64	1		P3-F					.22	NO		~~13~~	
			E1					.37	NO			
A 65	1		P3-G					.22	NO		13	
			~~P1-84~~ P1-83					.15	NO		11	
A 66	1		P3-H					.22	NO		13	
			~~P1-83~~ P1-84					.15	NO		11	
A 67	1		P3-J					.22	NO		13	
			P13-29					.15	NO		12	
A 68	1		P3-K					.22	NO		13	
			E3					.37	NO			
A 69	1		P3-L					.22	NO		13	
			~~P1-33~~ P1-34					.15	NO		11	
A 70	1		P3-M					.22	NO		13	
			~~P1-34~~ P1-33					.15	NO		11	
A 71	1		P3-N					.22	NO		13	
			P13-54					.15	NO		12	
A 72	1		P3-P					.22	NO		13	
			E4					.37	NO			

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D C E	SHEET 11 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-R					.22	NO		13	
			P1-54					.15	NO		11	
A 74	1		P3-S					.22	NO		13	
			P1-31					.15	NO		11	
A 75	1		P3-T					.22	NO		13	
			P13-32					.15	NO		12	
A 76	1		P3-U					.22	NO		13	
			E4					.37	NO			
A 77	1		P3-V					.22	NO		13	
			P1-79					.15	NO		11	
A 78	1		P3-W					.22	NO		13	
			P1-78					.15	NO		11	
A 79	1		P3-X					.22	NO		13	
			P13-8					.15	NO		12	
A 80	2		P3-Y					.22	NO		13	
			P3-C*					.22	NO		13	
A 81	1		P3-Z					.22	NO		13	
			P1-46					.15	NO		11	
A 82	1		P3-A*					.22	NO		13	
			P1-71					.15	NO		11	
A 83	1		P3-B*					.22	NO		13	
			P13-2					.15	NO		12	
A 84	1		P3-C*					.22	NO		~~13~~	
			E6					.37	NO			

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D C B E	SHEET 12 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	2		P3-D*					.22	NO		13	
			P3-Z					.22	NO		~~13~~	
A 86	2		P3-E*					.22	NO		13	
			P3-A*					.22	NO		~~13~~	
A 87	1		P3-F*					.22	NO		13	
			P13-24					.15	NO		12	
A 88	1		P3-G*					.22	NO		13	
			E5					.37	NO			
A 89	1		P3-H*					.22	NO		13	
			P1-73					.15	NO		11	
A 90	1		P3-I*					.22	NO		13	
			P1-72					.15	NO		11	
A 91	1		P3-J*					.22	NO		13	
			P13-10					.15	NO		12	
A 92	1		P3-K*					.22	NO		13	
			E5					.37	NO			
A 93	2		P3-M*					.22	NO		13	
			P3-H*					.22	NO			
A 94	2		P3-N*					.22	NO		13	
			P3-I*					.22	NO			
A 95	1		P3-BB					.22	NO		13	
			P12-41					.15	NO		11	
A 96	1		P3-CC					.22	NO		13	
			P12-22					.15	NO		11	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D C E	SHEET 13 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-Z P12-12					.22 .15	NO NO		13 11	
A 146	1		P7-A* P12-27					.22 .15	NO NO		13 11	
A 147	1		P7-B* P13-34					.22 .15	NO NO		13 12	
A 148	1		P7-C* P8-Y					.22 .22	NO NO		[illegible] 13	
A 149	1		P7-D* P12-26					.22 .15	NO NO		13 11	
A 150	2		P7-E* P7-A*					.22 .22	NO NO		13	
A 151	1		P7-F* P13-74					.22 .15	NO NO		13 12	
A 152	1		P7-G* E9					.22 .37	NO NO		13	
A 153	1		P7-H* P12-37					.22 .15	NO NO		13 11	
A 154	1		P7-I* P12-61					.22 .15	NO NO		13 11	
A 155	1		P7-J* P13-20					.22 .15	NO NO		13 12	
A 156	1		P7-K* E10					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D C	SHEET 18 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P7-M* P12-24					.22 .15	NO NO		13 11	
A 158	1		P7-N* P12-44					.22 .15	NO NO		13 11	
A 159	1		P7-X* P13-21					.22 .15	NO NO		13 12	
A 160	1		P7-Y* E10					.22 .37	NO NO		13	
A 161	1		P7-Z* P12-46					.22 .15	NO NO		13 11	
A 162	1		P7-AA P12-25					.22 .15	NO NO		13 11	
A 163	1		P7-BB P13-40					.22 .15	NO NO		13 12	
A 164	1		P7-CC E10					.22 .37	NO NO		13	
A 165	1		P7-DD P12-42					.22 .15	NO NO		13 11	
A 166	1		P7-EE P12-43					.22 .15	NO NO		13 11	
A 167	1		P7-FF P13-33					.22 .15	NO NO		13 12	
A 168	1		P7-GG E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D B	SHEET 19 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P7-HH P1-5					.22 .15	NO NO		13 11	
A 170	1		P7-JJ P1-4					.22 .15	NO NO		13 11	
A 171	1		P7-KK P13-64					.22 .15	NO NO		13 12	
A 172	1		P7-LL E10					.22 .37	NO NO		13	
A 173	1		P7-MM P1-30					.22 .15	NO NO		[illegible] 11	
A 174	1		P7-NN P1-15					.22 .15	NO NO		[illegible] 11	
A 175	1		P8-A P13-52					.22 .15	NO NO		13 12	
A 176	1		P8-B E11					.22 .37	NO NO		13	
A 177	1		P8-C P1-27					.22 .15	NO NO		13 11	
A 178	1		P8-D E14					.22 .37	NO NO		13	
A 179	1		P8-E P13-51					.22 .15	NO NO		13 12	
A 180	1		P8-F E11					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D C	SHEET 20 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G P1-47					.22 .15	NO NO		13 11	
A 182	1		P8-H E14					.22 .37	NO NO		13	
A 183	1		P8-KK P13-79					.22 .15	NO NO		13 12	
A 184	1		P8-LL P13-78					.22 .15	NO NO		13 12	
A 185	1		P8-MM P1-7					.22 .15	NO NO		13 11	
A 186	1		P8-NN P1-8					.22 .15	NO NO		13 11	
A 187	1		P8-N P13-1					.22 .15	NO NO		13 12	
A 188	1		P8-P E7					.22 .37	NO NO		13	
A 189	1		P7-P* P13-35					.22 .15	NO NO		13 12	
A 190	1		P7-Q* P13-83					.22 .15	NO NO		13 12	
A 191	1		P7-R* P1-75					.22 .15	NO NO		13 11	
A 192	1		P7-S* P1-77					.22 .15	NO NO		13 11	

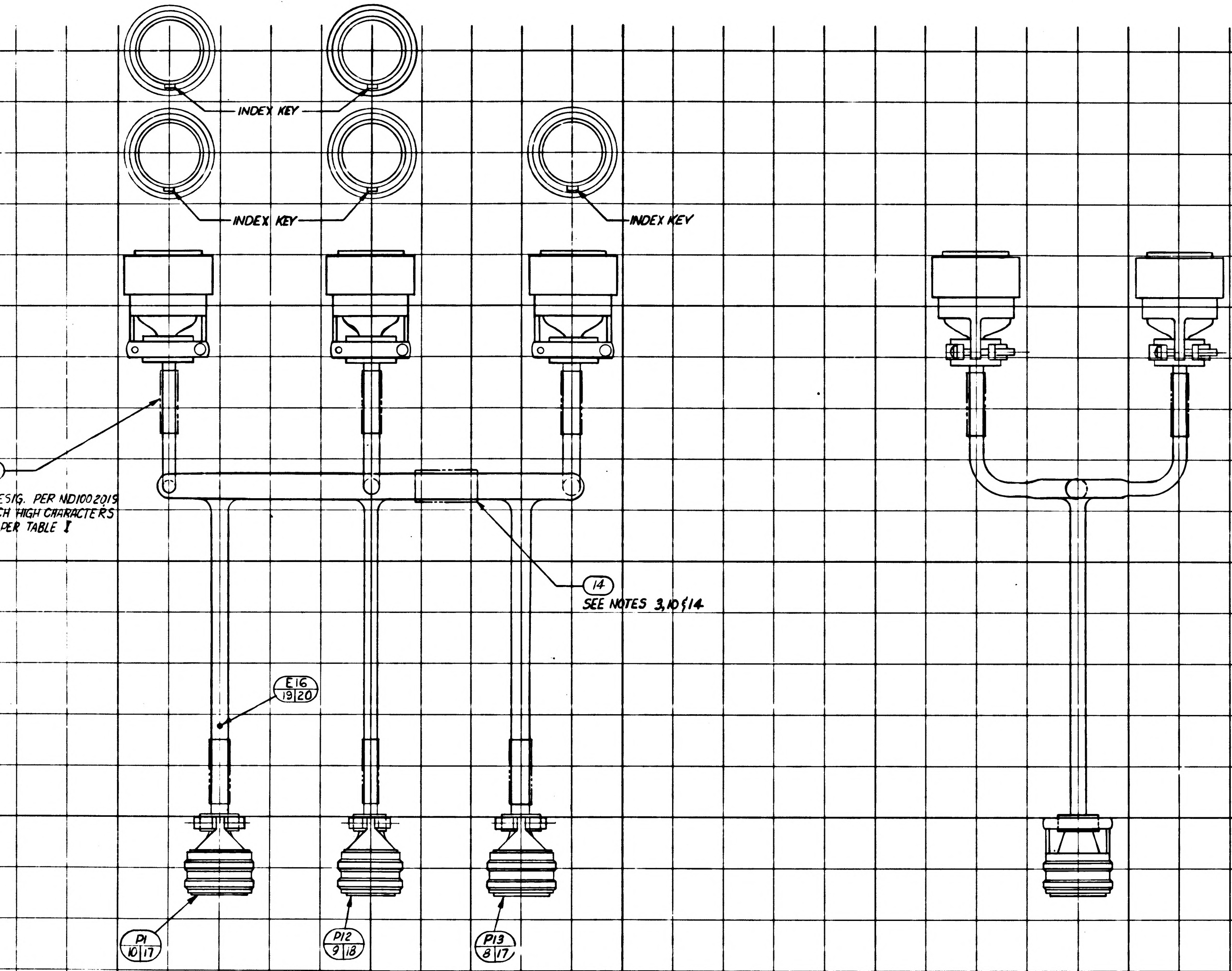
SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D C	SHEET 21 OF 25

MIL 2084 9-65

S30145

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD


INDEX KEY
INDEX KEY
INDEX KEY
8-REQD (14)
SEE NOTE 3
APPLY REF. DESIG. PER ND1002019
USING .12 INCH HIGH CHARACTERS
COLOR BLACK PER TABLE I
(14)
SEE NOTES 3,10 & 14
E16 19|20
P1 10|17
P12 9|18
P13 8|17

2901412

REV LTR D

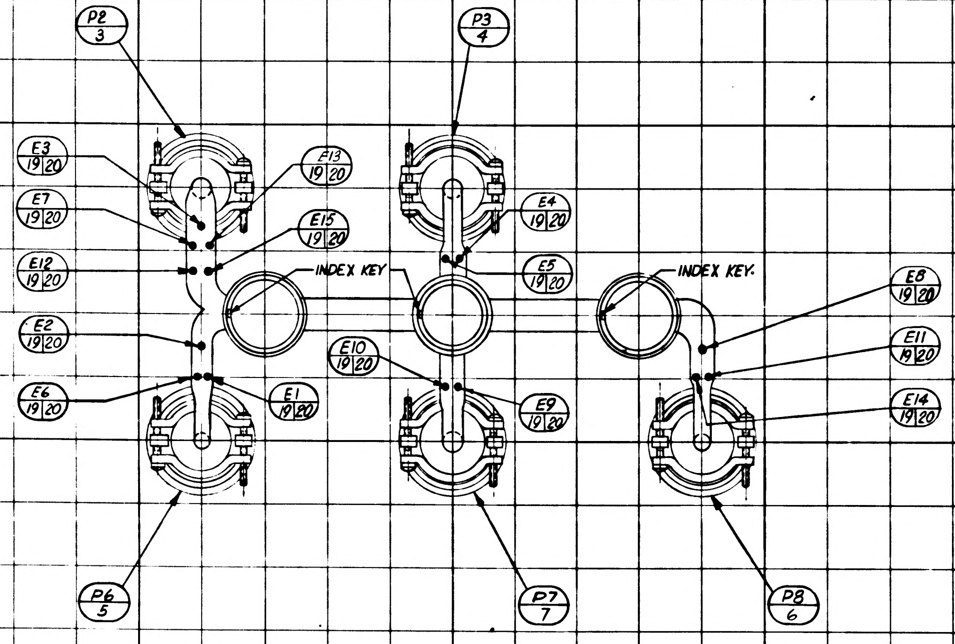

P2 3
P3 4
E3 19|20
E13 19|20
E7 19|20
E15 19|20
E12 19|20
E4 19|20
E5 19|20
INDEX KEY
INDEX KEY
E8 19|20
E2 19|20
E10 19|20
E11 19|20
E6 19|20
E1 19|20
E9 19|20
E14 19|20
P6 5
P7 7
P8 6

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
P12	P12 (J2 - SCA)
P13	P13 (J3 - SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE SHT 4

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN Freale
CHECKED A. Udovich
APPROVED R. Pierce
APPROVED
APPROVED MIT 5-11-66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE,
ELECTRICAL, BRANCHED,
BLOCK II SCA

CODE IDENT NO 99974
SIZE E
DRAWING NO 2901412
SCALE F/S
SHEET 25 OF

MX-10891

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O. 61846	29 MAR 66	LGC J.E.G.
B	REVISED PER MXC 211820	28 APR 66	JJJ RWH
C	REVISED PER MXC 211989	2 MAY 66	HTO CP
D	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	GM EF
E	REVISED PER TDRR 29621	22 JUN 66	K

REV	D	D	D	E	D
SHEET	21	22	23	24	25

REV STATUS OF SHEETS																					
REV	E	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 11 MAR 66 DATE
CHECKED A. Udovich 17 MAR 66
APPROVAL R. Pierini 18 MAR 66
APPROVAL

NASA APPROVAL
MIT APPROVAL 31 McGuney 6/68

CABLE, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, BLOCK II SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901412	E

CONTRACT NAS 9-497
SCALE —
SHEET 1 OF 25

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	APPLY LEAD IDENTIFICATIONS PER ND1002019.
8	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
9	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8,9 AND 10.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
12	ASSEMBLE PER ND1002032.
13	LACE HARNESS USING ITEM 15.
14	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D ~~B~~ ~~E~~	SHEET 2 OF 25

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 11 SUPPLIED WITH ITEMS 8 AND 9, ITEM 12 SUPPLIED WITH ITEM 10 AND ITEM 13 SUPPLIED WITH ITEMS 3 THRU 7.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D ~~B~~ ~~E~~	SHEET 3 OF ~~24~~ 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901412-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT
	2	1	2901412-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG, WHT
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
6	8	1	1897249-002	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	9	1	1897249-008	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	10	1	1897250-001	CONNECTOR, PLUG, ELEC-(CRIMP TYPE PIN CONTACTS)
6	11	X	1897190- 2	CONTACT SOCKET
6	12	X	1897190- 1	CONTACT PIN
	13	X	MS3192A20A	(1896855-020) CONTACT, ELEC, PIN CRIMP
6	14	8	1016128-011	BAND-IDENTIFICATION, BLANK

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR E	SHEET 4 OF 25

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
6	15	AR	MIL-T-713B ~~1012567-004~~	LACING TAPE, TYPE P, CLASS 2, BLACK ~~TAPE LACING AND TYING~~
	16	AR	MIL-I-631	TYPE F FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
6	17	2	1010933-105	CLAMP, CABLE ELEC CONNECTOR
6	18	1	1010933-104	CLAMP, CABLE ELEC CONNECTOR
6	19	~~12~~ 16	1016006-001	SPLICE-REDUCER
6	20	~~12~~ 16	1010490-228	INSULATION-SLEEVING, ELEC (HEAT SHRINKABLE)

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D ~~B~~ ~~E~~	SHEET 5 OF ~~24~~ 25

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P13-12					.37 .15	NO NO		 12	
A 2	1		E2 P13-41					.37 .15	NO NO		 12	
A 3	1		E3 P13-30					.37 .15	NO NO		 12	
A 4	1		E4 P13-55					.37 .15	NO NO		 12	
A 5	1		E5 P13-23					.37 .15	NO NO		 12	
A 6	1		E6 P13-7					.37 .15	NO NO		 12	
A 7	1		E7 P13-6					.37 .15	NO NO		 12	
A 8	1		E8 P13-37					.37 .15	NO NO		 12	
A 9	1		E9 P13-50					.37 .15	NO NO		 12	
A 10	1		E10 P13-39					.37 .15	NO NO		 12	
A 11	1		E11 P13-76					.37 .15	NO NO		 12	
A 12	1		P2-T* P12-55					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 6 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-U* P1-62					.22 .15	NO NO		13 11	
A 14	1		P2-X E12					.22 .37	NO NO		13	
A 15	1		P2-Y E13					.22 .37	NO NO		13	
A 16	1		P2-N P12-51					.22 .15	NO NO		13 11	
A 17	1		P2-P P12-29					.22 .15	NO NO		13 11	
A 18	1		P2-V P12-28					.22 .15	NO NO		13 11	
A 19	1		P2-W P12-49					.22 .15	NO NO		13 11	
A 20	1		P2-R P12-53					.22 .15	NO NO		13 11	
A 21	1		P2-S P12-52					.22 .15	NO NO		13 11	
A 22	1		E12 P1-66					.37 .15	NO NO		 11	
A 23	1		E13 P1-42					.37 .15	NO NO		 11	
A 24	1		E12 P1-68					.37 .15	NO NO		 11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 7 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E13 P1-69					.37 .15	NO NO		 11	
A 26	1		E12 P1-43					.37 .15	NO NO		 11	
A 27			DELETED									
A 28	1		P2-A P13-31					.22 .15	NO NO		13 12	
A 29	1		P2-B E3					.22 .37	NO NO		13	
A 30	1		P2-C P1-22					.22 .15	NO NO		13 11	
A 31	1		P2-D E15					.22 .37	NO NO		13	
A 32	1		P2-E P13-15					.22 .15	NO NO		13 12	
A 33	1		P2-G P1-39					.22 .15	NO NO		13 11	
A 34	1		P2-H E15					.22 .37	NO NO		13	
A 35	1		P2-J P13-56					.22 .15	NO NO		13 12	
A 36	1		P2-K E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 8 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DB

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-L P1-64					.22 .15	NO NO		13 11	
A 38	1		P2-M E15					.22 .37	NO NO		13	
A 39	1		P2-B* P13-77					.22 .15	NO NO		13 12	
A 40	1		P2-C* E11					.22 .37	NO NO		13	
A 41	1		P2-D* P1-29					.22 .15	NO NO		13 11	
A 42	1		P2-E* E14					.22 .37	NO NO		13	
A 43	1		P2-F* P13-75					.22 .15	NO NO		13 12	
A 44	1		P2-G* E9					.22 .37	NO NO		13	
A 45	1		P2-H* P12-17					.22 .15	NO NO		13 11	
A 46	1		P2-I* P12-16					.22 .15	NO NO		13 11	
A 47	1		P2-J* P13-5					.22 .15	NO NO		13 12	
A 48	1		P2-K* E7					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR DB	SHEET 9 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~C~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P2-V* P13-17					.22 .15	NO NO		13 12	
A 50	1		P2-W* E7					.22 .37	NO NO		13	
A 51	1		P2-X* P1-25					.22 .15	NO NO		13 11	
A 52	1		P2-Y* P1-44					.22 .15	NO NO		13 11	
A 53	1		P2-Z* P1-23					.22 .15	NO NO		13 11	
A 54	1		P2-AA P1-24					.22 .15	NO NO		13 11	
A 55	1		P2-GG P13-16					.22 .15	NO NO		13 12	
A 56	1		P2-HH E7					.22 .37	NO NO		13	
A 57	1		P2-JJ P1-3					.22 .15	NO NO		13 11	
A 58	1		P2-KK P1-11					.22 .15	NO NO		13 11	
A 59	1		P3-A P13-4					.22 .15	NO NO		13 12	
A 60	2		P3-B P3-F					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 10 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~C~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-C ~~P1-82~~ P1-57					.22 .15	NO NO		13 11	
A 62	1		P3-D ~~P1-57~~ P1-82					.22 .15	NO NO		13 11	
A 63	1		P3-E P13-11					.22 .15	NO NO		13 12	
A 64	1		P3-F E1					.22 .37	NO NO		~~13~~	
A 65	1		P3-G ~~P1-84~~ P1-83					.22 .15	NO NO		13 11	
A 66	1		P3-H ~~P1-83~~ P1-84					.22 .15	NO NO		13 11	
A 67	1		P3-J P13-29					.22 .15	NO NO		13 12	
A 68	1		P3-K E3					.22 .37	NO NO		13	
A 69	1		P3-L ~~P1-33~~ P1-34					.22 .15	NO NO		13 11	
A 70	1		P3-M ~~P1-34~~ P1-33					.22 .15	NO NO		13 11	
A 71	1		P3-N P13-54					.22 .15	NO NO		13 12	
A 72	1		P3-P E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 11 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~C~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-R P1-54					.22 .15	NO NO		13 11	
A 74	1		P3-S P1-31					.22 .15	NO NO		13 11	
A 75	1		P3-T P13-32					.22 .15	NO NO		13 12	
A 76	1		P3-U E4					.22 .37	NO NO		13	
A 77	1		P3-V P1-79					.22 .15	NO NO		13 11	
A 78	1		P3-W P1-78					.22 .15	NO NO		13 11	
A 79	1		P3-X P13-8					.22 .15	NO NO		13 12	
A 80	2		P3-Y P3-C*					.22 .22	NO NO		13 13	
A 81	1		P3-Z P1-46					.22 .15	NO NO		13 11	
A 82	1		P3-A* P1-71					.22 .15	NO NO		13 11	
A 83	1		P3-B* P13-2					.22 .15	NO NO		13 12	
A 84	1		P3-C* E6					.22 .37	NO NO		~~13~~	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ ~~B~~ E	SHEET 12 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~C~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	2		P3-D* P3-Z					.22 .22	NO NO		13 ~~13~~	
A 86	2		P3-E* P3-A*					.22 .22	NO NO		13 ~~13~~	
A 87	1		P3-F* P13-24					.22 .15	NO NO		13 12	
A 88	1		P3-G* E5					.22 .37	NO NO		13	
A 89	1		P3-H* P1-73					.22 .15	NO NO		13 11	
A 90	1		P3-I* P1-72					.22 .15	NO NO		13 11	
A 91	1		P3-J* P13-10					.22 .15	NO NO		13 12	
A 92	1		P3-K* E5					.22 .37	NO NO		13	
A 93	2		P3-M* P3-H*					.22 .22	NO NO		13	
A 94	2		P3-N* P3-I*					.22 .22	NO NO		13	
A 95	1		P3-BB P12-41					.22 .15	NO NO		13 11	
A 96	1		P3-CC P12-22					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 13 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	2		P3-DD P7-MM					.22 .22	NO NO		13 13	
A 98	2		P3-EE P7-NN					.22 .22	NO NO		13 13	
A 99	1		P6-A P13-13					.22 .15	NO NO		13 12	
A 100	1		P6-B E1					.22 .37	NO NO		13	
A 101	1		P6-C ~~[illegible]~~ P1-80					.22 .15	NO NO		13 11	
A 102	1		P6-D ~~[illegible]~~ P1-81					.22 .15	NO NO		13 11	
A 103	1		P6-E P13-65					.22 .15	NO NO		13 12	
A 104	1		P6-F E2					.22 .37	NO NO		13	
A 105	1		P6-J P13-3					.22 .15	NO NO		13 12	
A 106	1		P6-K E1					.22 .37	NO NO		13	
A 107	1		P6-L ~~[illegible]~~ P1-85					.22 .15	NO NO		13 11	
A 108	1		P6-M ~~[illegible]~~ P1-61					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 14 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-N P13-66					.22 .15	NO NO		13 12	
A 110	1		P6-P E2					.22 .37	NO NO		13	
A 111	1		P6-T P13-18					.22 .15	NO NO		13 12	
A 112	1		P6-U E6					.22 .37	NO NO		13	
A 113	1		P6-X P13-19					.22 .15	NO NO		13 12	
A 114	1		P6-Y E6					.22 .37	NO NO		13	
A 115	1		P6-B* P13-28					.22 .15	NO NO		13 12	
A 116	1		P6-C* E9					.22 .37	NO NO		13	
A 117	1		P6-P* P13-42					.22 .15	NO NO		13 12	
A 118	1		P6-Q* E2					.22 .37	NO NO		13	
A 119	1		P6-R* P1-~~[illegible]~~ 59					.22 .15	NO NO		13 11	
A 120	1		P6-S* P1-~~[illegible]~~ 35					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 15 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-T* P13-14					.22 .15	NO NO		13 12	
A 122	1		P6-U* E3					.22 .37	NO NO		13	
A 123	1		P7-A P13-9					.22 .15	NO NO		13 12	
A 124	2		P7-B P7-F					.22 .22	NO NO		13 13	
A 125	1		P7-C P1-28					.22 .15	NO NO		13 11	
A 126	1		P7-D P1-48					.22 .15	NO NO		13 11	
A 127	1		P7-E P13-22					.22 .15	NO NO		13 12	
A 128	1		P7-F E5					.22 .37	NO NO		~~13~~	
A 129	2		P7-G P7-C					.22 .22	NO NO		13	
A 130	2		P7-H P7-D					.22 .22	NO NO		13	
A 131	1		P7-J P13-44					.22 .15	NO NO		13 12	
A 132	2		P7-K P7-P					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 16 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-L P12-57					.22 .15	NO NO		~~[illegible]~~ 13 11	
A 134	1		P7-M P12-58					.22 .15	NO NO		13 11	
A 135	1		P7-N P13-69					.22 .15	NO NO		13 12	
A 136	1		P7-P P13-68					.22 .15	NO NO		~~[illegible]~~ 12	
A 137	1		P7-R P12-59					.22 .15	NO NO		13 11	
A 138	1		P7-S P12-36					.22 .15	NO NO		13 11	
A 139	1		P7-T P13-49					.22 .15	NO NO		13 12	
A 140	1		P7-U E9					.22 .37	NO NO		13	
A 141	1		P7-V P12-39					.22 .15	NO NO		13 11	
A 142	1		P7-W P12-38					.22 .15	NO NO		13 11	
A 143	1		P7-X P13-57					.22 .15	NO NO		13 12	
A 144	2		P7-Y P7-C*					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.		
A	99974	2901412	
SCALE-NONE	REV LTR D ~~C~~ E	SHEET 17 OF 25	

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DC ~~I~~

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	145	1		P7-Z P12-12					.22 .15	NO NO		13 11	
A	146	1		P7-A* P12-27					.22 .15	NO NO		13 11	
A	147	1		P7-B* P13-34					.22 .15	NO NO		13 12	
A	148	1		P7-C* P8-Y					.22 .22	NO NO		[illegible] 13	
A	149	1		P7-D* P12-26					.22 .15	NO NO		13 11	
A	150	2		P7-E* P7-A*					.22 .22	NO NO		13	
A	151	1		P7-F* P13-74					.22 .15	NO NO		13 12	
A	152	1		P7-G* E9					.22 .37	NO NO		13	
A	153	1		P7-H* P12-37					.22 .15	NO NO		13 11	
A	154	1		P7-I* P12-61					.22 .15	NO NO		13 11	
A	155	1		P7-J* P13-20					.22 .15	NO NO		13 12	
A	156	1		P7-K* E10					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901412

SCALE-NONE | REV LTR D ~~C~~ ~~I~~ | SHEET 18 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D ~~B~~ ~~I~~

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	157	1		P7-M* P12-24					.22 .15	NO NO		13 11	
A	158	1		P7-N* P12-44					.22 .15	NO NO		13 11	
A	159	1		P7-X* P13-21					.22 .15	NO NO		13 12	
A	160	1		P7-Y* E10					.22 .37	NO NO		13	
A	161	1		P7-Z* P12-46					.22 .15	NO NO		13 11	
A	162	1		P7-AA P12-25					.22 .15	NO NO		13 11	
A	163	1		P7-BB P13-40					.22 .15	NO NO		13 12	
A	164	1		P7-CC E10					.22 .37	NO NO		13	
A	165	1		P7-DD P12-42					.22 .15	NO NO		13 11	
A	166	1		P7-EE P12-43					.22 .15	NO NO		13 11	
A	167	1		P7-FF P13-33					.22 .15	NO NO		13 12	
A	168	1		P7-GG E4					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901412

SCALE-NONE | REV LTR D ~~B~~ ~~I~~ | SHEET 19 OF 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DC ~~I~~

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	169	1		P7-HH P1-5					.22 .15	NO NO		13 11	
A	170	1		P7-JJ P1-4					.22 .15	NO NO		13 11	
A	171	1		P7-KK P13-64					.22 .15	NO NO		13 12	
A	172	1		P7-LL E10					.22 .37	NO NO		13	
A	173	1		P7-MM P1-30					.22 .15	NO NO		[illegible] 11	
A	174	1		P7-NN P1-15					.22 .15	NO NO		[illegible] 11	
A	175	1		P8-A P13-52					.22 .15	NO NO		13 12	
A	176	1		P8-B E11					.22 .37	NO NO		13	
A	177	1		P8-C P1-27					.22 .15	NO NO		13 11	
A	178	1		P8-D E14					.22 .37	NO NO		13	
A	179	1		P8-E P13-51					.22 .15	NO NO		13 12	
A	180	1		P8-F E11					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901412

SCALE-NONE | REV LTR D ~~C~~ ~~I~~ | SHEET 20 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 DC ~~I~~

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	181	1		P8-G P1-47					.22 .15	NO NO		13 11	
A	182	1		P8-H E14					.22 .37	NO NO		13	
A	183	1		P8-~~J~~KK P13-79					.22 .15	NO NO		13 12	
A	184	1		P8-~~[illegible]~~LL P13-78					.22 .15	NO NO		13 12	
A	185	1		P8-~~[illegible]~~MM P1-7					.22 .15	NO NO		13 11	
A	186	1		P8-~~M~~NN P1-8					.22 .15	NO NO		13 11	
A	187	1		P8-N P13-1					.22 .15	NO NO		13 12	
A	188	1		P8-P E7					.22 .37	NO NO		13	
A	189	1		~~[illegible]~~ P7-P* P13-35					.22 .15	NO NO		13 12	
A	190	1		~~[illegible]~~ P7-Q* P13-83					.22 .15	NO NO		13 12	
A	191	1		~~[illegible]~~ P7-R* P1-75					.22 .15	NO NO		13 11	
A	192	1		~~[illegible]~~ P7-S* ~~[illegible]~~ P1-77					.22 .15	NO NO		13 11	

SIZE A | CODE IDENT NO. 99974 | 2901412

SCALE-NONE | REV LTR D ~~I~~ C | SHEET 21 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D C ~~*~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-X P13-59					.22 .15	NO NO		13 12	
A 194	2		P8-Y P13-58					.22 .15	NO NO		~~13~~ 12	
A 195	1		P8-Z P1-74					.22 .15	NO NO		13 11	
A 196	1		P8-A* E13					.22 .37	NO NO		13	
A 197	1		P8-B* P13-60					.22 .15	NO NO		13 12	
A 198	1		P8-C* E8					.22 .37	NO NO		13	
A 199	1		P8-F* P13-36					.22 .15	NO NO		13 12	
A 200	1		P8-G* E8					.22 .37	NO NO		13	
A 201	1		P8-J* P13-38					.22 .15	NO NO		13 12	
A 202	1		P8-K* E8					.22 .37	NO NO		13	
A 203	1		P8-P* P13-61					.22 .15	NO NO		13 12	
A 204	1		P8-Q* E8					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D C ~~*~~	SHEET 22 OF ~~24~~ 25

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 D B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	~~1~~ 2		P8-T* ~~P12-3~~ P8-B*					.22 .22 ~~.15~~	NO NO		13 ~~11~~	
A 206	1		P8-U* ~~P12-16~~ E8					.22 .37 ~~.15~~	NO NO		13 ~~11~~	
A 207	1		E14 P1-12					.37 .15	NO NO		 11	
A 208	1		E15 P1-40					.37 .15	NO NO		 11	
A 209	2		P6-X* P2-N					.22 .22	NO NO		13	
A 210	2		P6-Y* P2-P					.22 .22	NO NO		13	
A 211	2		P6-BB P2-V					.22 .22	NO NO		13	
A 212	2		P6-CC P2-W					.22 .22	NO NO		13	
A 213	2		P6-FF P2-R					.22 .22	NO NO		13	
A 214	2		P6-GG P2-S					.22 .22	NO NO		13	
A 215	2		P1-45 E16					.15 .37	NO NO		11	
A 216	2		P1-10 E16					.15 .37	NO NO		11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR D ~~*~~ ~~B~~	SHEET 23 OF ~~24~~ 25

MIL 2084 9-65

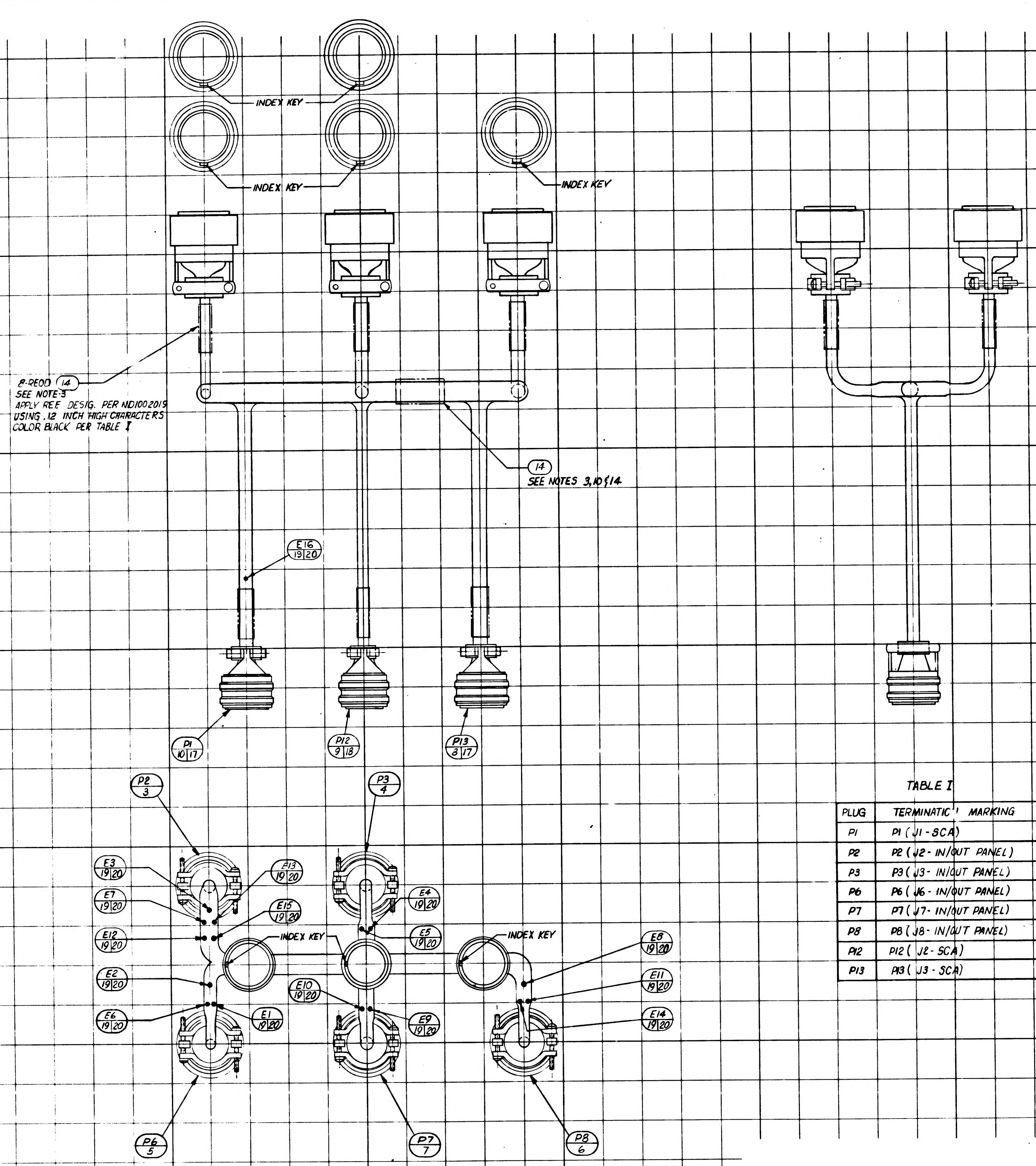
CABLE ASSEMBLY BLK II 2901412 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	2		P1-9 E16					.15 .37	NO NO		11	
A 218	2		E16 P2-U*					.37 .22	NO NO			
A 219	2		P1-14 P7-JJ					.15 .22	NO NO		11	
A 220	1		P8-N* P1-67					.22 .15	NO NO		13 11	
A 221			DELETED									
A 222	1		P8-V* P12-3					.22 .15	NO NO		13 11	
A 223	1		P8-W* P12-10					.22 .15	NO NO		13 11	
A 224	1		E12 P8-D*					.37 .22	NO NO		 13	
A 225	1		E13 P8-E*					.37 .22	NO NO		 13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR E	SHEET 24 OF 25

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



INDEX KEY
INDEX KEY
INDEX KEY
8-REQD 14
SEE NOTE 3
APPLY REF. DESIG. PER ND1002019
USING .12 INCH HIGH CHARACTERS
COLOR BLACK PER TABLE I
14
SEE NOTES 3,10 & 14
E16 19 20
P1 10 17
P12 9 18
P13 3 17
P2 3
P3 4
E3 19 20
E13 19 20
E7 19 20
E15 19 20
E4 19 20
E12 19 20
INDEX KEY
E5 19 20
INDEX KEY
E8 19 20
E2 19 20
E10 19 20
E11 19 20
E6 19 20
E1 19 20
E9 19 20
E14 19 20
P6 5
P7 7
P8 6

2901412

REV LTR D

TABLE I

PLUG	TERMINATIC' MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
P12	P12 (J2 - SCA)
P13	P13 (J3 - SCA)

2901C44-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLE
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE SHT 4

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN Freale
CHECKED A Udovich 17MAR
APPROVED R. Pierma 18MAR
APPROVED
APPROVED MIT 5/11/66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE,
ELECTRICAL, BRANCHED,
BLOCK II SCA

CODE IDENT NO 99974
SIZE E
DRAWING NO 2901412
SCALE Full
SHEET 25 OF 25

MX-10989

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER D.O. 61846	29 MAR 66	LGC J.E.G.
B	REVISED PER MXC 211820	28 APR 66	JJJ RWH
C	REVISED PER MXC 211989	2 MAY 66	HTO CP
(M) D	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	GH EF
(M) E	REVISED PER TDRR 29621	22 JUN 66	K
Ⓜ F	REVISED PER TDRR 30084	16 JUL 66	JIM P.

REV	F	F	F	F	F	F
SHEET	21	22	23	24	25	26

REV STATUS OF SHEETS																				
REV	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN Fride DATE 11 MAR 66
CHECKED A. Udovich 17 MAR 66
APPROVAL R. Pierini 18 MAR 66
APPROVAL ____

NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, BLOCK II SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901412	F
SCALE —		SHEET 1 OF 26	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P13-12					.37 .15	NO NO		12	
A 2	1		E2 P13-41					.37 .15	NO NO		12	
A 3	1		E3 P13-30					.37 .15	NO NO		12	
A 4	1		E4 P13-55					.37 .15	NO NO		12	
A 5	1		E5 P13-23					.37 .15	NO NO		12	
A 6	1		E6 P13-7					.37 .15	NO NO		12	
A 7			DELETED									
A 8	1		E8 P13-37					.37 .15	NO NO		12	
A 9	1		E9 P13-50					.37 .15	NO NO		12	
A 10	1		E10 P13-39					.37 .15	NO NO		12	
A 11	1		E11 P13-76					.37 .15	NO NO		12	
A 12	1		P2-T* P12-55					.22 .15	NO NO		13 11	

SIZE A CODE IDENT NO. 99974 2901412

SCALE-NONE REV LTR F SHEET 6 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-U* P1-62					.22 .15	NO NO		13 11	
A 14	1		P2-X E12					.22 .37	NO NO		13	
A 15	1		P2-Y E13					.22 .37	NO NO		13	
A 16	1		P2-N P12-51					.22 .15	NO NO		13 11	
A 17	1		P2-P P12-29					.22 .15	NO NO		13 11	
A 18	1		P2-V P12-28					.22 .15	NO NO		13 11	
A 19	1		P2-W P12-49					.22 .15	NO NO		13 11	
A 20	1		P2-R P12-53					.22 .15	NO NO		13 11	
A 21	1		P2-S P12-52					.22 .15	NO NO		13 11	
A 22	1		E12 P1-66					.37 .15	NO NO		11	
A 23	1		E13 P1-42					.37 .15	NO NO		11	
A 24	1		E12 P1-68					.37 .15	NO NO		11	

SIZE A CODE IDENT NO. 99974 2901412

SCALE-NONE REV LTR F SHEET 7 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E13 P1-69					.37 .15	NO NO		11	
A 26	1		E12 P1-43					.37 .15	NO NO		11	
A 27			DELETED									
A 28	1		P2-A P13-31					.22 .15	NO NO		13 12	
A 29	1		P2-B E3					.22 .37	NO NO		13	
A 30	1		P2-C P1-22					.22 .15	NO NO		13 11	
A 31	1		P2-D E15					.22 .37	NO NO		13	
A 32	1		P2-E P13-15					.22 .15	NO NO		13 12	
A 33	1		P2-G P1-39					.22 .15	NO NO		13 11	
A 34	1		P2-H E15					.22 .37	NO NO		13	
A 35	1		P2-J P13-56					.22 .15	NO NO		13 12	
A 36	1		P2-K E4					.22 .37	NO NO		13	

SIZE A CODE IDENT NO. 99974 2901412

SCALE-NONE REV LTR F SHEET 8 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-L P1-64					.22 .15	NO NO		13 11	
A 38	1		P2-M E15					.22 .37	NO NO		13	
A 39	1		P2-B* P13-77					.22 .15	NO NO		13 12	
A 40	1		P2-C* E11					.22 .37	NO NO		13	
A 41	1		P2-D* P1-29					.22 .15	NO NO		13 11	
A 42	1		P2-E* E14					.22 .37	NO NO		13	
A 43			DELETED									
A 44			DELETED									
A 45			DELETED									
A 46			DELETED									
A 47			DELETED									
A 48			DELETED									

SIZE A CODE IDENT NO. 99974 2901412

SCALE-NONE REV LTR F SHEET 9 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49			DELETED									
A 50			DELETED									
A 51			DELETED									
A 52			DELETED									
A 53			DELETED									
A 54			DELETED									
A 55			DELETED									
A 56			DELETED									
A 57			DELETED									
A 58			DELETED									
A 59	1		P3-A P13-4					.22 .15	NO NO		13 12	
A 60	2		P3-B P3-F					.22 .22	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 10 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-C P1-57					.22 .15	NO NO		13 11	
A 62	1		P3-D P1-82					.22 .15	NO NO		13 11	
A 63	1		P3-E P13-11					.22 .15	NO NO		13 12	
A 64	1		P3-F E1					.22 .37	NO NO			
A 65	1		P3-G P1-83					.22 .15	NO NO		13 11	
A 66	1		P3-H P1-84					.22 .15	NO NO		13 11	
A 67	1		P3-J P13-29					.22 .15	NO NO		13 12	
A 68	1		P3-K E3					.22 .37	NO NO		13	
A 69	1		P3-L P1-34					.22 .15	NO NO		13 11	
A 70	1		P3-M P1-33					.22 .15	NO NO		13 11	
A 71	1		P3-N P13-54					.22 .15	NO NO		13 12	
A 72	1		P3-P E4					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 11 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-R P1-54					.22 .15	NO NO		13 11	
A 74	1		P3-S P1-31					.22 .15	NO NO		13 11	
A 75	1		P3-T P13-32					.22 .15	NO NO		13 12	
A 76	1		P3-U E4					.22 .37	NO NO		13	
A 77	1		P3-V P1-79					.22 .15	NO NO		13 11	
A 78	1		P3-W P1-78					.22 .15	NO NO		13 11	
A 79	1		P3-X P13-8					.22 .15	NO NO		13 12	
A 80	2		P3-Y P3-C*					.22 .22	NO NO		13 13	
A 81	1		P3-Z P1-46					.22 .15	NO NO		13 11	
A 82	1		P3-A* P1-71					.22 .15	NO NO		13 11	
A 83			DELETED									
A 84			DELETED									

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 12 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85			DELETED									
A 86			DELETED									
A 87	1		P3-F* P13-24					.22 .15	NO NO		13 12	
A 88	1		P3-G* E5					.22 .37	NO NO		13	
A 89	1		P3-H* P1-73					.22 .15	NO NO		13 11	
A 90	1		P3-I* P1-72					.22 .15	NO NO		13 11	
A 91			DELETED									
A 92			DELETED									
A 93			DELETED									
A 94			DELETED									
A 95	1		P3-BB P12-41					.22 .15	NO NO		13 11	
A 96	1		P3-CC P12-22					.22 .15	NO NO		13 11	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 13 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	2		P3-DD P7-MM					.22 .22	NO NO		13 13	
A 98	2		P3-FE P7-NN					.22 .22	NO NO		13 13	
A 99	1		P6-A P13-13					.22 .15	NO NO		13 12	
A 100	1		P6-B E1					.22 .37	NO NO		13	
A 101	1		P6-C P1-80					.22 .15	NO NO		13 11	
A 102	1		P6-D P1-81					.22 .15	NO NO		13 11	
A 103	1		P6-E P13-65					.22 .15	NO NO		13 12	
A 104	1		P6-F E2					.22 .37	NO NO		13	
A 105	1		P6-J P13-3					.22 .15	NO NO		13 12	
A 106	1		P6-K E1					.22 .37	NO NO		13	
A 107	1		P6-L P1-85					.22 .15	NO NO		13 11	
A 108	1		P6-M P1-61					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 14 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-N P13-66					.22 .15	NO NO		13 12	
A 110	1		P6-P E2					.22 .37	NO NO		13	
A 111	1		P6-T P13-18					.22 .15	NO NO		13 12	
A 112	1		P6-U E6					.22 .37	NO NO		13	
A 113	1		P6-X P13-19					.22 .15	NO NO		13 12	
A 114	1		P6-Y E6					.22 .37	NO NO		13	
A 115	1		P6-B* P13-28					.22 .15	NO NO		13 12	
A 116	1		P6-C* E9					.22 .37	NO NO		13	
A 117	1		P6-P* P13-42					.22 .15	NO NO		13 12	
A 118	1		P6-O* E2					.22 .37	NO NO		13	
A 119	1		P6-R* P1-59					.22 .15	NO NO		13 11	
A 120	1		P6-S* P1-35					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 15 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-T* P13-14					.22 .15	NO NO		13 12	
A 122	1		P6-U* E3					.22 .37	NO NO		13	
A 123	1		P7-A P13-9					.22 .15	NO NO		13 12	
A 124	2		P7-B P7-F					.22 .22	NO NO		13 13	
A 125	1		P7-C P1-28					.22 .15	NO NO		13 11	
A 126	1		P7-D P1-48					.22 .15	NO NO		13 11	
A 127			DELETED									
A 128			DELETED									
A 129			DELETED									
A 130			DELETED									
A 131	1		P7-J P13-44					.22 .15	NO NO		13 12	
A 132	2		P7-K P7-P					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 16 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-L P12-57					.22 .15	NO NO		13 11	
A 134	1		P7-M P12-58					.22 .15	NO NO		13 11	
A 135	1		P7-N P13-69					.22 .15	NO NO		13 12	
A 136	1		P7-P P13-68					.22 .15	NO NO		12	
A 137	1		P7-R P12-59					.22 .15	NO NO		13 11	
A 138	1		P7-S P12-36					.22 .15	NO NO		13 11	
A 139	1		P7-T P13-49					.22 .15	NO NO		13 12	
A 140	1		P7-U E9					.22 .37	NO NO		13	
A 141	1		P7-V P12-39					.22 .15	NO NO		13 11	
A 142	1		P7-W P12-38					.22 .15	NO NO		13 11	
A 143	1		P7-X P13-57					.22 .15	NO NO		13 12	
A 144	2		P7-Y P7-C*					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 17 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-Z P12-12					.22 .15	NO NO		13 11	
A 146	1		P7-A* P12-27					.22 .15	NO NO		13 11	
A 147	1		P7-B* P13-34					.22 .15	NO NO		13 12	
A 148	1		P7-C* P8-Y					.22 .22	NO NO		 13	
A 149	1		P7-D* P12-26					.22 .15	NO NO		13 11	
A 150	2		P7-E* P7-A*					.22 .22	NO NO		13	
A 151	1		P7-F* P13-74					.22 .15	NO NO		13 12	
A 152	1		P7-G* E9					.22 .37	NO NO		13	
A 153	1		P7-H* P12-37					.22 .15	NO NO		13 11	
A 154	1		P7-I* P12-61					.22 .15	NO NO		13 11	
A 155	1		P7-J* P13-20					.22 .15	NO NO		13 12	
A 156	1		P7-K* E10					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 18 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P7-M* P12-24					.22 .15	NO NO		13 11	
A 158	1		P7-N* P12-44					.22 .15	NO NO		13 11	
A 159	1		P7-X* P13-21					.22 .15	NO NO		13 12	
A 160	1		P7-Y* E10					.22 .37	NO NO		13	
A 161	1		P7-Z* P12-46					.22 .15	NO NO		13 11	
A 162	1		P7-AA P12-25					.22 .15	NO NO		13 11	
A 163	1		P7-BB P13-40					.22 .15	NO NO		13 12	
A 164	1		P7-CC E10					.22 .37	NO NO		13	
A 165	1		P7-DD P12-42					.22 .15	NO NO		13 11	
A 166	1		P7-EE P12-43					.22 .15	NO NO		13 11	
A 167	1		P7-FF P13-79					.22 .15	NO NO		13 12	
A 168	1		P7-GG P13-78					.22 .15	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 19 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P7-HH P1-5					.22 .15	NO NO		13 11	
A 170	1		P7-JJ P1-4					.22 .15	NO NO		13 11	
A 171	1		P7-KK P13-64					.22 .15	NO NO		13 12	
A 172	1		P7-LL E10					.22 .37	NO NO		13	
A 173	1		P7-MM P1-30					.22 .15	NO NO		 11	
A 174	1		P7-NN P1-15					.22 .15	NO NO		 11	
A 175	1		P8-A P13-52					.22 .15	NO NO		13 12	
A 176	1		P8-B E11					.22 .37	NO NO		13	
A 177	1		P8-C P1-27					.22 .15	NO NO		13 11	
A 178	1		P8-D E14					.22 .37	NO NO		13	
A 179	1		P8-E P13-51					.22 .15	NO NO		13 12	
A 180	1		P8-F E11					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 20 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G P1-47					.22 .15	NO NO		13 11	
A 182	1		P8-H E14					.22 .37	NO NO		13	
A 183	1		P8-KK P13-33					.22 .15	NO NO		13 12	
A 184	1		P8-LL E4					.22 .37	NO NO		13	
A 185	1		P8-MM P1-7					.22 .15	NO NO		13 11	
A 186	1		P8-NN P1-8					.22 .15	NO NO		13 11	
A 187	1		P8-N P13-1					.22 .15	NO NO		13 12	
A 188	1		P8-P P13-6					.22 .15	NO NO		13 12	
A 189	1		P7-P* P13-35					.22 .15	NO NO		13 12	
A 190	1		P7-Q* P13-83					.22 .15	NO NO		13 12	
A 191	1		P7-R* P1-75					.22 .15	NO NO		13 11	
A 192	1		P7-S* P1-77					.22 .15	NO NO		13 11	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 21 OF 26

MIL 2084 9-65

CABLE ASSEMBLY▼ BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-X P13-59					.22 .15	NO NO		13 12	
A 194	2		P8-Y P13-58					.22 .15	NO NO		 12	
A 195	1		P8-Z P1-74					.22 .15	NO NO		13 11	
A 196	1		P8-A* E13					.22 .37	NO NO		13	
A 197	1		P8-B* P13-60					.22 .15	NO NO		13 12	
A 198	1		P8-C* E8					.22 .37	NO NO		13	
A 199	1		P8-F* P13-36					.22 .15	NO NO		13 12	
A 200	1		P8-G* E8					.22 .37	NO NO		13	
A 201	1		P8-J* P13-38					.22 .15	NO NO		13 12	
A 202	1		P8-K* E8					.22 .37	NO NO		13	
A 203	1		P8-P* P13-61					.22 .15	NO NO		13 12	
A 204	1		P8-Q* E8					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 22 OF 26

CABLE ASSEMBLY▼ BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	2		P8-T* P8-B*					.22 .22	NO NO		13	
A 206	1		P8-U* E8					.22 .37	NO NO		13	
A 207	1		E14 P1-12					.37 .15	NO NO		 11	
A 208	1		E15 P1-40					.37 .15	NO NO		 11	
A 209	2		P6-X* P2-N					.22 .22	NO NO		13	
A 210	2		P6-Y* P2-P					.22 .22	NO NO		13	
A 211	2		P6-BB P2-V					.22 .22	NO NO		13	
A 212	2		P6-CC P2-W					.22 .22	NO NO		13	
A 213	2		P6-FF P2-R					.22 .22	NO NO		13	
A 214	2		P6-GG P2-S					.22 .22	NO NO		13	
A 215			DELETED									
A 216			DELETED									

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 23 OF 26

CABLE ASSEMBLY▼ BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217			DELETED									
A 218			DELETED									
A 219	2		P1-14 P7-JJ					.15 .22	NO NO		11	
A 220	1		P8-N* P1-67					.22 .15	NO NO		13 11	
A 221			DELETED									
A 222	1		P8-V* P12-3					.22 .15	NO NO		13 11	
A 223	1		P8-W* P12-10					.22 .15	NO NO		13 11	
A 224	1		E12 P8-X*					.37 .22	NO NO		 13	
A 225	1		E13 P8-Y*					.37 .22	NO NO		 13	
A 226	1		P2-J* P13-62					.22 .15	NO NO		13 12	
A 227	1		P2-K* E11					.22 .37	NO NO		13	
A 228	1		P2-GG P13-63					.22 .15	NO NO		13 12	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 24 OF 26

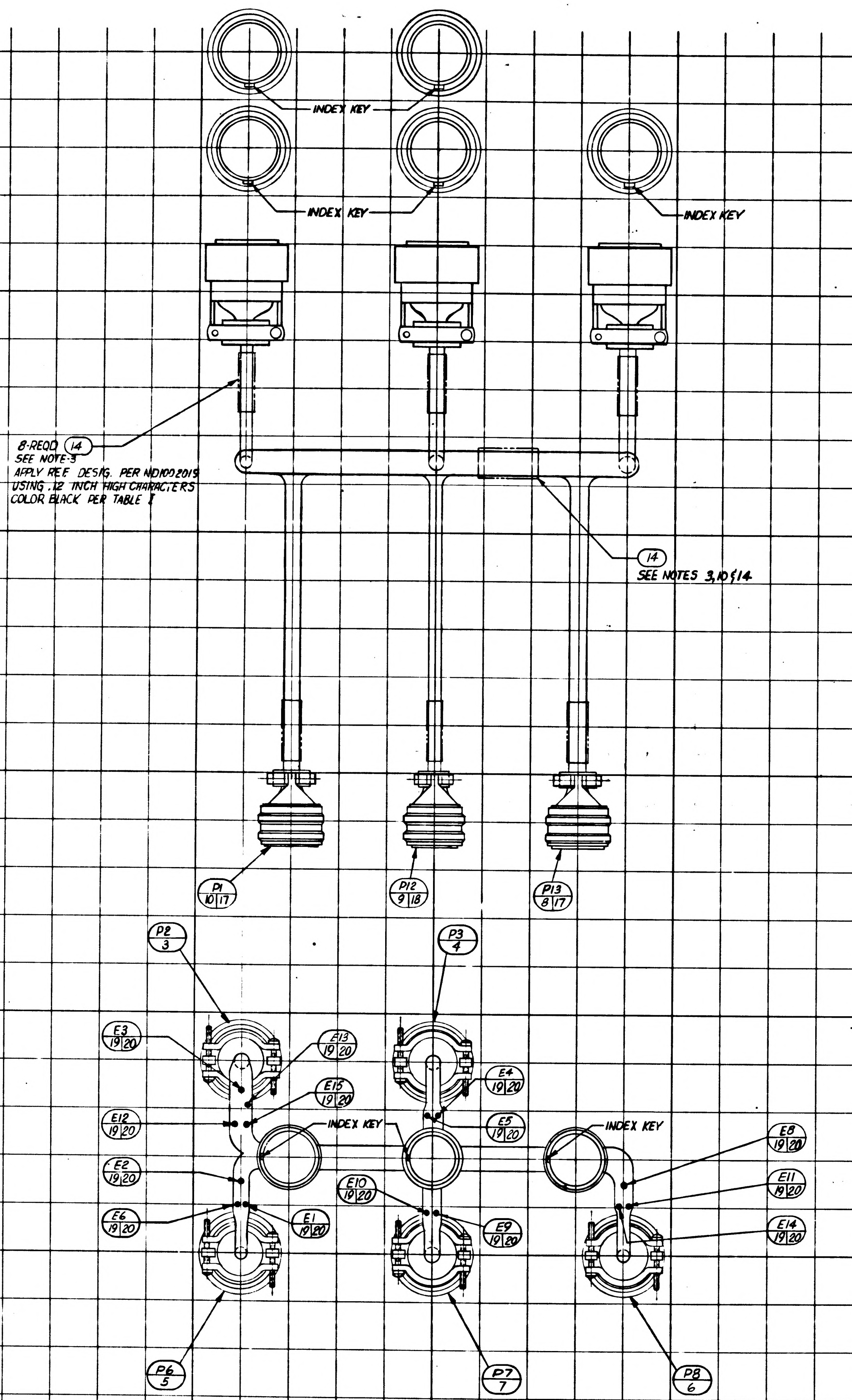
CABLE ASSEMBLY▼ BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P2-HH E9					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 25 OF 26

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


INDEX KEY
INDEX KEY
INDEX KEY
8-REQD (14)
SEE NOTE-3
APPLY REF. DESIG. PER ND1002019
USING .12 INCH HIGH CHARACTERS
COLOR BLACK PER TABLE I
(14)
SEE NOTES 3,10 & 14
P1 10 17
P12 9 18
P13 8 17
P2 3
P3 4
E3 19 20
E13 19 20
E15 19 20
E4 19 20
E12 19 20
E5 19 20
INDEX KEY
INDEX KEY
E8 19 20
E2 19 20
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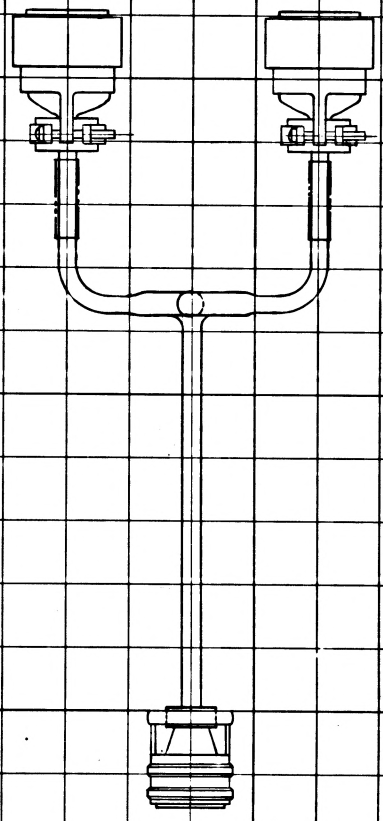
E11 19 20
E6 19 20
E1 19 20
E9 19 20
E14 19 20
P6 5
P7 7
P8 6



2901412
REV LTR F

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
P12	P12 (J2 - SCA)
P13	P13 (J3 - SCA)

NEXT ASSY	USED ON
2901044-011	2900895-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE SHT 4

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP

DRAWN Freda
CHECKED
APPROVED R. Pierce
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE,
ELECTRICAL, BRANCHED,
BLOCK II SCA

CODE IDENT NO 99974
SIZE E
DRAWING NO. 2901412
SCALE
SHEET 26 OF 26

MX-109891

5141065

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2901044-011	2400895-011	A	REVISED PER D.O. 61846	29 MAR 66	LGC J.E.G.
		B	REVISED PER MXC 211820	28 APR 66	JJJ RWH
		C	REVISED PER MXC 211989	2 MAY 66	HTO CP
		D	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	GH EF
		E	REVISED PER TDRR 29621	22 JUN 66	K
		F	REVISED PER TDRR 30084	16 JUL 66	JIM P.
		G	REVISED PER TDRR 30450	16 AUG 66	MEM JK

REV	F	F	F	F	F	F																
SHEET	21	22	23	24	25	26																
REV STATUS	REV				G	F	F	F	F	F	F	F	F	F	F	G	F	F	F	G	F	F	F	F
OF SHEETS	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS

DRAWN 11 MAR 66 DATE
CHECKED A. Udovich 17 MAR 66
APPROVAL R. Pierini 18 MAR 66
APPROVAL

NASA APPROVAL
MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE,
ELECTRICAL, BRANCHED,
BLOCK II SCA

CODE IDENT NO.	SIZE		REV
99974	A	2901412	G

SCALE —

SHEET 1 OF 26

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 15.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
6	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
7	APPLY LEAD IDENTIFICATIONS PER ND1002019.
8	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS. COLOR BLACK.
9	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEMS 8,9 AND 10.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SPIRALLING OF LEAD IDENTIFICATION IS ALLOWED.
12	ASSEMBLE PER ND1002032.
13	LACE HARNESS USING ITEM 15.
14	SERIALIZE PER ND1002023.

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 2 OF 26

MIL 2084 9-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
15	ITEM 11 SUPPLIED WITH ITEMS 8 AND 9, ITEM 12 SUPPLIED WITH ITEM 10 AND ITEM 13 SUPPLIED WITH ITEMS 3 THRU 7.
16	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 16 TO SECURE WIRE BUNDLE TO STRAIN RELIEF CLAMP OR CABLE CLAMP.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIFLD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 3 OF 26

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901412-001	WIRE ND1002181, TYPE 1, CLASS 1, 22AWG, WHT
	2	1	2901412-002	WIRE ND1002181, TYPE 1, CLASS 1, 24AWG, WHT
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	5	1	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	6	1	MS3126F24-61PY	(1897047-613) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
	7	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELEC, CRIMP TYPE, PIN CONTACT
6	8	1	1897249-002	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	9	1	1897249-008	CONNECTOR, PLUG, ELEC-(CRIMP TYPE SOCKET CONTACTS)
6	10	1	1897250-001	CONNECTOR, PLUG, ELEC-(CRIMP TYPE PIN CONTACTS)
6	11	X	1897190- 2	CONTACT SOCKET
6	12	X	1897190- 1	CONTACT PIN
	13	X	MS3192A20A	(1896855-020) CONTACT, ELEC, PIN CRIMP
6	14	8	1016128-011	BAND-IDENTIFICATION, BLANK

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 4 OF 26

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
6	15	AR	MIL-T-713B	LACING TAPE, TYPE +, CLASS 2, BLACK
	16	AR	MIL-I-631	TYPE F FORM T (BLACK), GRADE A CLASS 1, .62 WIDE, .02 THICK
6	17	2	1010933-105	CLAMP, CABLE ELEC CONNECTOR
6	18	1	1010933-104	CLAMP, CABLE ELEC CONNECTOR
6	19	14	1016006-001	SPLICE-REDUCER
6	20	14	1010490-228	INSULATION-SLEEVING, ELEC (HEAT SHRINKABLE)

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 5 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		F1 P13-12					.37 .15	NO NO		12	
A 2	1		E2 P13-41					.37 .15	NO NO		12	
A 3	1		E3 P13-30					.37 .15	NO NO		12	
A 4	1		E4 P13-55					.37 .15	NO NO		12	
A 5	1		E5 P13-23					.37 .15	NO NO		12	
A 6	1		E6 P13-7					.37 .15	NO NO		12	
A 7			DELETED									
A 8	1		E8 P13-37					.37 .15	NO NO		12	
A 9	1		F9 P13-50					.37 .15	NO NO		12	
A 10	1		F10 P13-39					.37 .15	NO NO		12	
A 11	1		F11 P13-76					.37 .15	NO NO		12	
A 12	1		P2-T* P12-55					.22 .15	NO NO		13 11	

SIZE A | CODE IDENT NO. 99974 | 2901412
SCALE-NONE | REV LTR F | SHEET 6 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P2-U* P1-62					.22 .15	NO NO		13 11	
A 14	1		P2-X F12					.22 .37	NO NO		13	
A 15	1		P2-Y E13					.22 .37	NO NO		13	
A 16	1		P2-N P12-51					.22 .15	NO NO		13 11	
A 17	1		P2-P P12-29					.22 .15	NO NO		13 11	
A 18	1		P2-V P12-28					.22 .15	NO NO		13 11	
A 19	1		P2-W P12-49					.22 .15	NO NO		13 11	
A 20	1		P2-R P12-53					.22 .15	NO NO		13 11	
A 21	1		P2-S P12-52					.22 .15	NO NO		13 11	
A 22	1		F12 P1-66					.37 .15	NO NO		11	
A 23	1		E13 P1-47					.37 .15	NO NO		11	
A 24	1		F12 P1-68					.37 .15	NO NO		11	

SIZE A | CODE IDENT NO. 99974 | 2901412
SCALE-NONE | REV LTR F | SHEET 7 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E13 P1-69					.37 .15	NO NO		11	
A 26	1		F12 P1-43					.37 .15	NO NO		11	
A 27			DELETED									
A 28	1		P2-A P13-31					.22 .15	NO NO		13 12	
A 29	1		P2-B E3					.22 .37	NO NO		13	
A 30	1		P2-C P1-22					.22 .15	NO NO		13 11	
A 31	1		P2-D E15					.22 .37	NO NO		13	
A 32	1		P2-E P13-15					.22 .15	NO NO		13 12	
A 33	1		P2-G P1-39					.22 .15	NO NO		13 11	
A 34	1		P2-H E15					.22 .37	NO NO		13	
A 35	1		P2-J P13-56					.22 .15	NO NO		13 12	
A 36	1		P2-K F4					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901412
SCALE-NONE | REV LTR F | SHEET 8 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P2-L P1-64					.22 .15	NO NO		13 11	
A 38	1		P2-M E15					.22 .37	NO NO		13	
A 39	1		P2-B* P13-77					.22 .15	NO NO		13 12	
A 40	1		P2-C* E11					.22 .37	NO NO		13	
A 41	1		P2-D* P1-29					.22 .15	NO NO		13 11	
A 42	1		P2-E* F14					.22 .37	NO NO		13	
A 43			DELETED									
A 44			DELETED									
A 45			DELETED									
A 46			DELETED									
A 47			DELETED									
A 48			DELETED									

SIZE A | CODE IDENT NO. 99974 | 2901412
SCALE-NONE | REV LTR F | SHEET 9 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49			DELETED									
A 50			DELETED									
A 51			DELETED									
A 52			DELETED									
A 53			DELETED									
A 54			DELETED									
A 55			DELETED									
A 56			DELETED									
A 57			DELETED									
A 58			DELETED									
A 59	1		P3-A P13-4					.22 .15	NO NO		13 12	
A 60	2		P3-B P3-F					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR F		SHEET 10 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P3-C P1-57					.22 .15	NO NO		13 11	
A 62	1		P3-D P1-82					.22 .15	NO NO		13 11	
A 63	1		P3-E P13-11					.22 .15	NO NO		13 12	
A 64	1		P3-F E1					.22 .37	NO NO			
A 65	1		P3-G P1-83					.22 .15	NO NO		13 11	
A 66	1		P3-H P1-84					.22 .15	NO NO		13 11	
A 67	1		P3-J P13-29					.22 .15	NO NO		13 12	
A 68	1		P3-K E3					.22 .37	NO NO		13	
A 69	1		P3-L P1-34					.22 .15	NO NO		13 11	
A 70	1		P3-M P1-33					.22 .15	NO NO		13 11	
A 71	1		P3-N P13-54					.22 .15	NO NO		13 12	
A 72	1		P3-P E4					.22 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR F		SHEET 11 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P3-R P1-54					.22 .15	NO NO		13 11	
A 74	1		P3-S P1-31					.22 .15	NO NO		13 11	
A 75	1		P3-T P13-32					.22 .15	NO NO		13 12	
A 76	1		P3-U E4					.22 .37	NO NO		13	
A 77	1		P3-V P1-79					.22 .15	NO NO		13 11	
A 78	1		P3-W P1-78					.22 .15	NO NO		13 11	
A 79	1		P3-X P13-8					.22 .15	NO NO		13 12	
A 80	2		P3-Y E6					.22 .37	NO NO		13	
A 81	1		P3-Z P1-46					.22 .15	NO NO		13 11	
A 82	1		P3-A* P1-71					.22 .15	NO NO		13 11	
A 83			DELETED									
A 84			DELETED									

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR G		SHEET 12 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85			DELETED									
A 86			DELETED									
A 87	1		P3-F* P13-24					.22 .15	NO NO		13 12	
A 88	1		P3-G* E5					.22 .37	NO NO		13	
A 89	1		P3-H* P1-73					.22 .15	NO NO		13 11	
A 90	1		P3-I* P1-72					.22 .15	NO NO		13 11	
A 91			DELETED									
A 92			DELETED									
A 93			DELETED									
A 94			DELETED									
A 95	1		P3-BB P12-41					.22 .15	NO NO		13 11	
A 96	1		P3-CC P12-22					.22 .15	NO NO		13 11	

SIZE A	CODE IDENT NO. 99974	2901412	
SCALE-NONE	REV LTR F		SHEET 13 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	2		P3-DD P7-MM					.22 .22	NO NO		13 13	
A 98	2		P3-EE P7-NN					.22 .22	NO NO		13 13	
A 99	1		P6-A P13-13					.22 .15	NO NO		13 12	
A 100	1		P6-B E1					.22 .37	NO NO		13	
A 101	1		P6-C P1-80					.22 .15	NO NO		13 11	
A 102	1		P6-D P1-81					.22 .15	NO NO		13 11	
A 103	1		P6-E P13-65					.22 .15	NO NO		13 12	
A 104	1		P6-F E2					.22 .37	NO NO		13	
A 105	1		P6-J P13-3					.22 .15	NO NO		13 12	
A 106	1		P6-K E1					.22 .37	NO NO		13	
A 107	1		P6-L P1-85					.22 .15	NO NO		13 11	
A 108	1		P6-M P1-61					.22 .15	NO NO		13 11	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 14 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P6-N P13-66					.22 .15	NO NO		13 12	
A 110	1		P6-P E2					.22 .37	NO NO		13	
A 111	1		P6-T P13-18					.22 .15	NO NO		13 12	
A 112	1		P6-U E6					.22 .37	NO NO		13	
A 113	1		P6-X P13-19					.22 .15	NO NO		13 12	
A 114	1		P6-Y E6					.22 .37	NO NO		13	
A 115	1		P6-B* P13-28					.22 .15	NO NO		13 12	
A 116	1		P6-C* E9					.22 .37	NO NO		13	
A 117	1		P6-P* P13-42					.22 .15	NO NO		13 12	
A 118	1		P6-Q* E2					.22 .37	NO NO		13	
A 119	1		P6-R* P1-59					.22 .15	NO NO		13 11	
A 120	1		P6-S* P1-35					.22 .15	NO NO		13 11	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 15 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-T* P13-14					.22 .15	NO NO		13 12	
A 122	1		P6-U* E3					.22 .37	NO NO		13	
A 123	1		P7-A P13-9					.22 .15	NO NO		13 12	
A 124	2		P7-B E5					.22 .37	NO NO		13	
A 125	1		P7-C P1-28					.22 .15	NO NO		13 11	
A 126	1		P7-D P1-48					.22 .15	NO NO		13 11	
A 127			DELETED									
A 128			DELETED									
A 129			DELETED									
A 130			DELETED									
A 131	1		P7-J P13-44					.22 .15	NO NO		13 12	
A 132	2		P7-K P7-P					.22 .22	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR G
SHEET 16 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P7-L P12-57					.22 .15	NO NO		13 11	
A 134	1		P7-M P12-58					.22 .15	NO NO		13 11	
A 135	1		P7-N P13-69					.22 .15	NO NO		13 12	
A 136	1		P7-P P13-68					.22 .15	NO NO		 12	
A 137	1		P7-R P12-59					.22 .15	NO NO		13 11	
A 138	1		P7-S P12-36					.22 .15	NO NO		13 11	
A 139	1		P7-T P13-49					.22 .15	NO NO		13 12	
A 140	1		P7-U E9					.22 .37	NO NO		13	
A 141	1		P7-V P12-39					.22 .15	NO NO		13 11	
A 142	1		P7-W P12-38					.22 .15	NO NO		13 11	
A 143	1		P7-X P13-57					.22 .15	NO NO		13 12	
A 144	2		P7-Y P7-C*					.22 .22	NO NO		13 13	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 17 OF 26

MIL 2084 9-65

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P7-Z					.22	NO		13	
			P12-12					.15	NO		11	
A 146	1		P7-A*					.22	NO		13	
			P12-27					.15	NO		11	
A 147	1		P7-B*					.22	NO		13	
			P13-34					.15	NO		12	
A 148	1		P7-C*					.22	NO			
			P8-Y					.22	NO		13	
A 149	1		P7-D*					.22	NO		13	
			P12-26					.15	NO		11	
A 150	2		P7-E*					.22	NO		13	
			P7-A*					.22	NO			
A 151	1		P7-F*					.22	NO		13	
			P13-74					.15	NO		12	
A 152	1		P7-G*					.22	NO		13	
			E9					.37	NO			
A 153	1		P7-H*					.22	NO		13	
			P12-37					.15	NO		11	
A 154	1		P7-I*					.22	NO		13	
			P12-61					.15	NO		11	
A 155	1		P7-J*					.22	NO		13	
			P13-20					.15	NO		12	
A 156	1		P7-K*					.22	NO		13	
			E10					.37	NO			

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 18 OF 26

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P7-M*					.22	NO		13	
			P12-24					.15	NO		11	
A 158	1		P7-N*					.22	NO		13	
			P12-44					.15	NO		11	
A 159	1		P7-X*					.22	NO		13	
			P13-21					.15	NO		12	
A 160	1		P7-Y*					.22	NO		13	
			E10					.37	NO			
A 161	1		P7-Z*					.22	NO		13	
			P12-46					.15	NO		11	
A 162	1		P7-AA					.22	NO		13	
			P12-25					.15	NO		11	
A 163	1		P7-BB					.22	NO		13	
			P13-40					.15	NO		12	
A 164	1		P7-CC					.22	NO		13	
			E10					.37	NO			
A 165	1		P7-DD					.22	NO		13	
			P12-42					.15	NO		11	
A 166	1		P7-EE					.22	NO		13	
			P12-43					.15	NO		11	
A 167	1		P7-FF					.22	NO		13	
			P13-79					.15	NO		12	
A 168	1		P7-GG					.22	NO		13	
			P13-78					.15	NO		12	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 19 OF 26

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P7-HH					.22	NO		13	
			P1-5					.15	NO		11	
A 170	1		P7-JJ					.22	NO		13	
			P1-4					.15	NO		11	
A 171	1		P7-KK					.22	NO		13	
			P13-64					.15	NO		12	
A 172	1		P7-LL					.22	NO		13	
			E10					.37	NO			
A 173	1		P7-MM					.22	NO			
			P1-30					.15	NO		11	
A 174	1		P7-NN					.22	NO			
			P1-15					.15	NO		11	
A 175	1		P8-A					.22	NO		13	
			P13-52					.15	NO		12	
A 176	1		P8-B					.22	NO		13	
			E11					.37	NO			
A 177	1		P8-C					.22	NO		13	
			P1-27					.15	NO		11	
A 178	1		P8-D					.22	NO		13	
			E14					.37	NO			
A 179	1		P8-E					.22	NO		13	
			P13-51					.15	NO		12	
A 180	1		P8-F					.22	NO		13	
			E11					.37	NO			

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 20 OF 26

CABLE ASSEMBLY BLK II 2901412 F

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P8-G					.22	NO		13	
			P1-47					.15	NO		11	
A 182	1		P8-H					.22	NO		13	
			E14					.37	NO			
A 183	1		P8-KK					.22	NO		13	
			P13-33					.15	NO		12	
A 184	1		P8-LL					.22	NO		13	
			E4					.37	NO			
A 185	1		P8-MM					.22	NO		13	
			P1-7					.15	NO		11	
A 186	1		P8-NN					.22	NO		13	
			P1-8					.15	NO		11	
A 187	1		P8-N					.22	NO		13	
			P13-1					.15	NO		12	
A 188	1		P8-P					.22	NO		13	
			P13-6					.15	NO		12	
A 189	1		P7-P*					.22	NO		13	
			P13-35					.15	NO		12	
A 190	1		P7-Q*					.22	NO		13	
			P13-83					.15	NO		12	
A 191	1		P7-R*					.22	NO		13	
			P1-75					.15	NO		11	
A 192	1		P7-S*					.22	NO		13	
			P1-77					.15	NO		11	

SIZE A
CODE IDENT NO. 99974
2901412
SCALE-NONE
REV LTR F
SHEET 21 OF 26

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P8-X P13-59					.22 .15	NO NO		13 12	
A 194	2		P8-Y P13-58					.22 .15	NO NO		 12	
A 195	1		P8-Z P1-74					.22 .15	NO NO		13 11	
A 196	1		P8-A* E13					.22 .37	NO NO		13	
A 197	1		P8-B* P13-60					.22 .15	NO NO		13 12	
A 198	1		P8-C* E8					.22 .37	NO NO		13	
A 199	1		P8-F* P13-36					.22 .15	NO NO		13 12	
A 200	1		P8-G* E8					.22 .37	NO NO		13	
A 201	1		P8-J* P13-38					.22 .15	NO NO		13 12	
A 202	1		P8-K* E8					.22 .37	NO NO		13	
A 203	1		P8-P* P13-61					.22 .15	NO NO		13 12	
A 204	1		P8-Q* E8					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 22 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	2		P8-T* P8-B*					.22 .22	NO NO		13	
A 206	1		P8-U* E8					.22 .37	NO NO		13	
A 207	1		E14 P1-12					.37 .15	NO NO		 11	
A 208	1		E15 P1-40					.37 .15	NO NO		 11	
A 209	2		P6-X* P2-N					.22 .22	NO NO		13	
A 210	2		P6-Y* P2-P					.22 .22	NO NO		13	
A 211	2		P6-BB P2-V					.22 .22	NO NO		13	
A 212	2		P6-CC P2-W					.22 .22	NO NO		13	
A 213	2		P6-FF P2-R					.22 .22	NO NO		13	
A 214	2		P6-GG P2-S					.22 .22	NO NO		13	
A 215			DELETED									
A 216			DELETED									

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 23 OF 26

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217			DELETED									
A 218			DELETED									
A 219	2		P1-14 P7-JJ					.15 .22	NO NO		11	
A 220	1		P8-N* P1-67					.22 .15	NO NO		13 11	
A 221			DELETED									
A 222	1		P8-V* P12-3					.22 .15	NO NO		13 11	
A 223	1		P8-W* P12-13					.22 .15	NO NO		13 11	
A 224	1		E12 P8-X*					.37 .22	NO NO		 13	
A 225	1		E13 P8-Y*					.37 .22	NO NO		 13	
A 226	1		P2-J* P13-62					.22 .15	NO NO		13 12	
A 227	1		P2-K* E11					.22 .37	NO NO		13	
A 228	1		P2-GG P13-63					.22 .15	NO NO		13 12	

SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 24 OF 26

MIL 2084 9-65

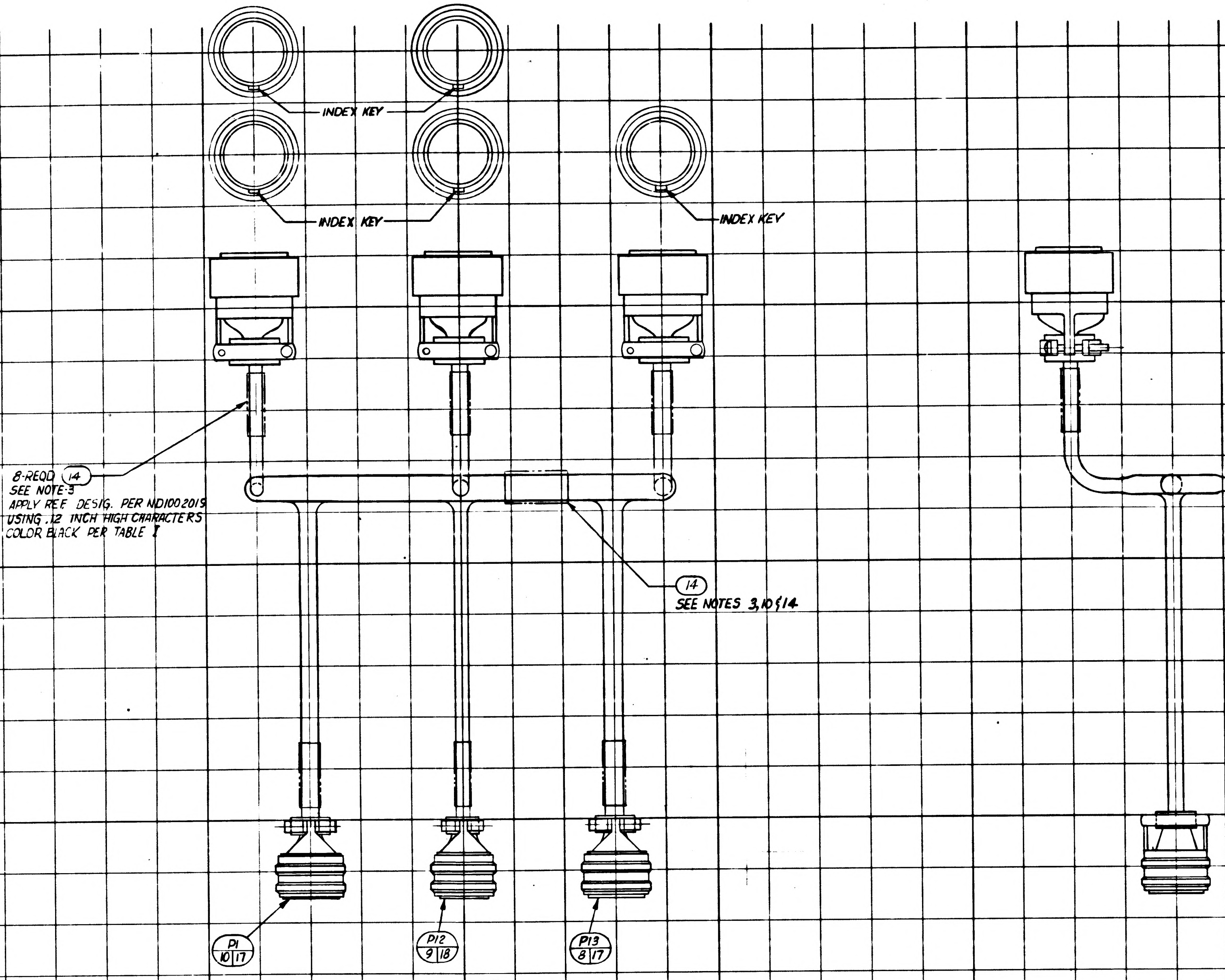
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P2-HH E9					.22 .37	NO NO		13	

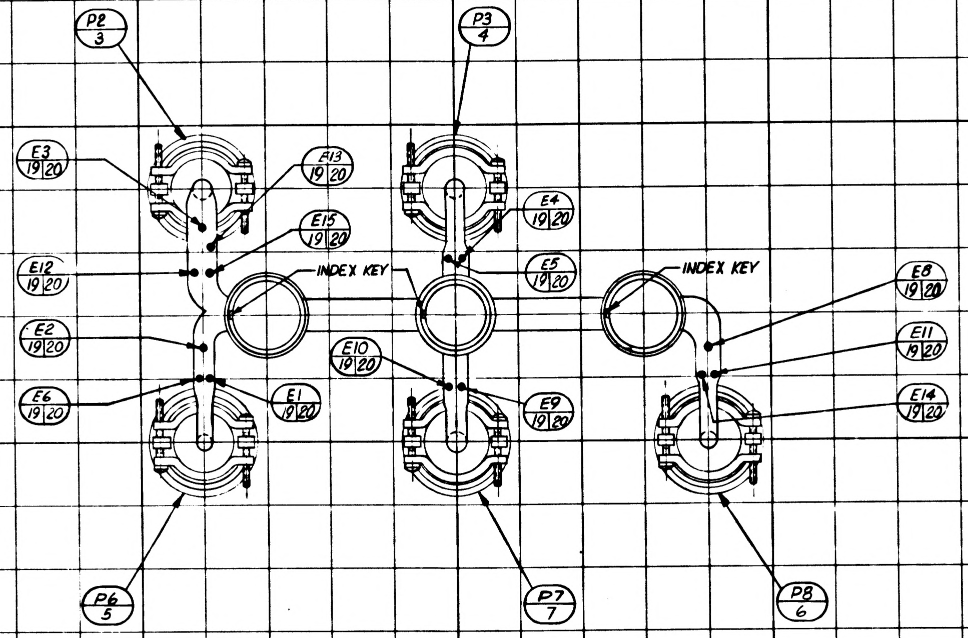
SIZE	CODE IDENT NO.	
A	99974	2901412
SCALE-NONE	REV LTR F	SHEET 25 OF 26

MIL 2084 9-65

S141065

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			


INDEX KEY
INDEX KEY
INDEX KEY
8-REQD (14)
SEE NOTE-3
APPLY REF. DESIG. PER ND1002019
USING .12 INCH HIGH CHARACTERS
COLOR BLACK PER TABLE I
(14)
SEE NOTES 3,10 & 14
P1 10 17
P12 9 18
P13 8 17


P2 3
P3 4
E3 19 20
E13 19 20
E4 19 20
E15 19 20
E12 19 20
INDEX KEY
E5 19 20
INDEX KEY
E8 19 20
E2 19 20
E10 19 20
E11 19 20
E6 19 20
E1 19 20
E9 19 20
E14 19 20
P6 5
P7 7
P8 6

2901412
REV LTR F

TABLE I

PLUG	TERMINATION MARKING
P1	P1 (J1 - SCA)
P2	P2 (J2 - IN/OUT PANEL)
P3	P3 (J3 - IN/OUT PANEL)
P6	P6 (J6 - IN/OUT PANEL)
P7	P7 (J7 - IN/OUT PANEL)
P8	P8 (J8 - IN/OUT PANEL)
P12	P12 (J2 - SCA)
P13	P13 (J3 - SCA)

2901069-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE SHT 4

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

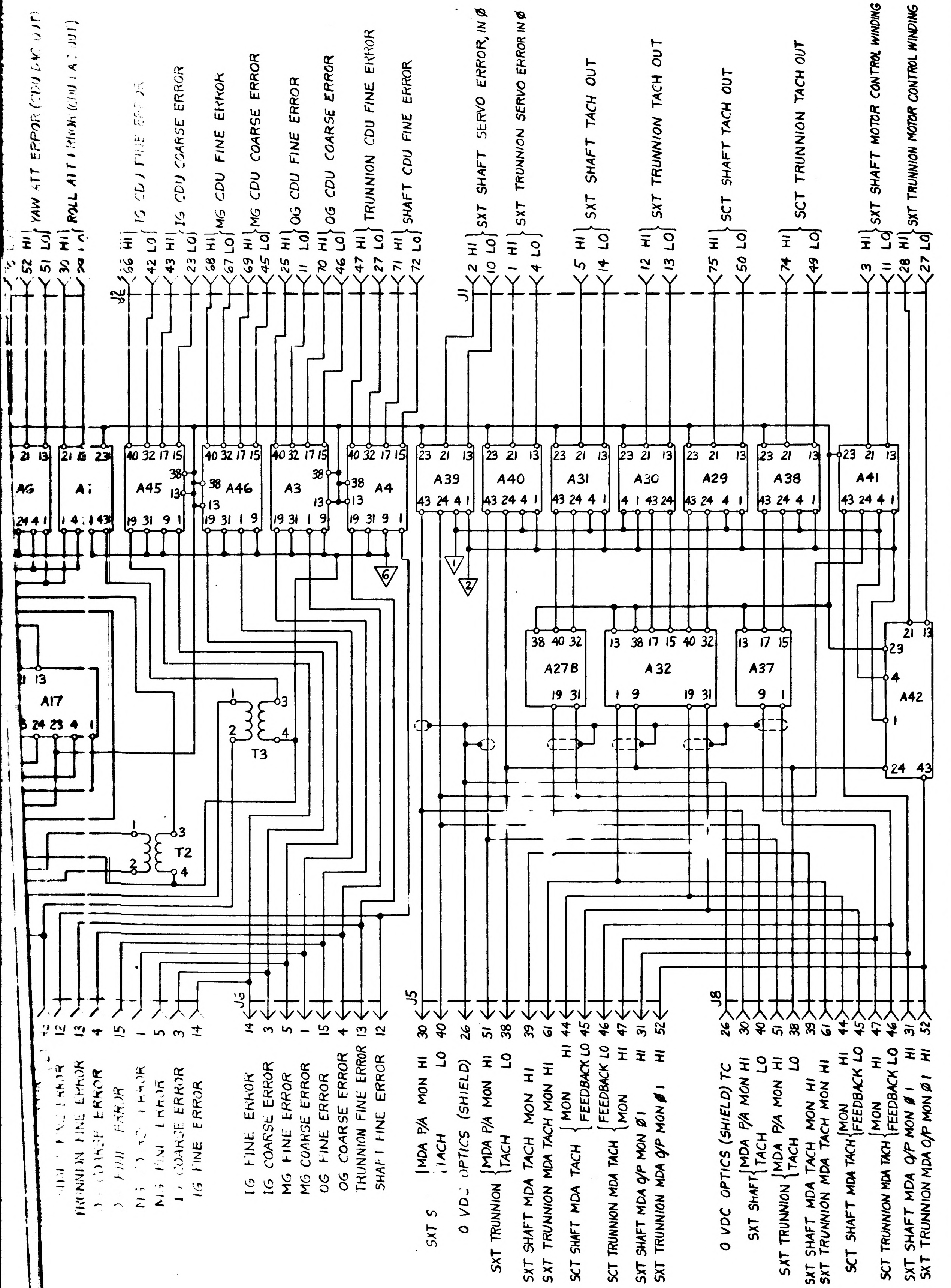
DRAWN Freels
CHECKED A. Udovich
APPROVED R. Piernas
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, BLOCK II SCA

CODE IDENT NO 99974
SIZE E
DRAWING NO 2901412
SCALE
SHEET 26 OF 26

MX 09891



YAW ATT ERROR
ROLL ATT ERROR
IG CDU FINE ERROR
IG CDU COARSE ERROR
MG CDU FINE ERROR
MG CDU COARSE ERROR
OG CDU FINE ERROR
OG CDU COARSE ERROR
TRUNNION CDU FINE ERROR
SHAFT CDU FINE ERROR
SXT SHAFT SERVO ERROR, IN Ø
SXT TRUNNION SERVO ERROR IN Ø
SXT SHAFT TACH OUT
SXT TRUNNION TACH OUT
SCT SHAFT TACH OUT
SCT TRUNNION TACH OUT
SXT SHAFT MOTOR CONTROL WINDING
SXT TRUNNION MOTOR CONTROL WINDING
J1
J2
J3
J5
J8
A6
A1
A45
A46
A3
A4
A39
A40
A31
A30
A29
A38
A41
A17
T3
T2
A27B
A32
A37
A42
IG FINE ERROR
IG COARSE ERROR
MG FINE ERROR
MG COARSE ERROR
OG FINE ERROR
OG COARSE ERROR
TRUNNION FINE ERROR
SHAFT FINE ERROR
SXT S MDA P/A MON HI
0 VDC OPTICS (SHIELD)
SXT TRUNNION MDA P/A MON HI
SXT SHAFT MDA TACH MON HI
SXT TRUNNION MDA TACH MON HI
SXT SHAFT MDA TACH MON FEEDBACK LO
SCT TRUNNION MDA TACH MON FEEDBACK LO
SXT SHAFT MDA O/P MON Ø1 HI
SXT TRUNNION MDA O/P MON Ø1 HI
0 VDC OPTICS (SHIELD) TC
SXT SHAFT MDA P/A MON HI
SXT TRUNNION MDA P/A MON HI
SXT SHAFT MDA TACH MON HI
SXT TRUNNION MDA TACH MON HI
SCT SHAFT MDA TACH MON FEEDBACK LO
SCT TRUNNION MDA TACH MON HI
SXT SHAFT MDA O/P MON Ø1 HI
SXT TRUNNION MDA O/P MON Ø1 HI

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E16	CR1	1N645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
E17	CR2	1N645 (1896966-004)		
E17	CR3	1N645 (1896966-004)		
E18	CR4	1N645 (1896966-004)		
E19	CR5	1N645 (1896966-004)		
E19	CR6	1N645 (1896966-004)		
D21	CR7	1N645 (1896966-004)		
D21	CR8	1N645 (1896966-004)		
D22	CR9	1N645 (1896966-004)		
D23	CR10	1N645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
C20	E1			
D22	F1	F02B250V1/2A (1897099-025)	FUSE-CARTRIDGE MIL-F-15160/02	.5 AMP
	J1	1897247-002	CONNECTOR	
	J2	1897247-003		
	J3	1897252-109		
	J4	MS3102R14S-7S(C) (1896916-107)		
	J5	1897252-107		
	J6	1897252-106		
	J7	1897247-006		
	J8	1897247-007	CONNECTOR	
E16	K1	1015832-118	RELAY	
E17	K2			
E17	K3			
E18	K4			
E19	K5			
E19	K6			
D21	K7			
D22	K8			
D22	K9			
D23	K10	1015832-118	RELAY	
F20	R1	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
F19	R2	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C10	R3	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C22	S1	1016265-004	SWITCH-TOGGLE	
C21	S2	1897379-001	-ROTARY	
D19	S3	1016265-004	-TOGGLE	
D17	S4	-006		
D17	S5	-006		
C18	S6	1016265-006	SWITCH-TOGGLE	
C 9	T1	1897413	TRANSFORMER	
C 9	T2	1897413	TRANSFORMER	
D 8	T3	1897413	TRANSFORMER	
	XF1	MS26572-1	FUSEHOLDER	

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E20	A2	2901063-011	PHASE DIFF CKT	2900988
E8	A3	1902433-011	AC AMPLIFIER	1902451
E8	A4	1902433-011	AC AMPLIFIER	1902451
E9	A5	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E9	A6			
E9	A7			
F12	A8			
E11	A9	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A10		NOT USED	
E13	A11	2901203-011	CONVERTER, WAVE FORM	2901213
	A12		NOT USED	
	A13		NOT USED	
	A14		NOT USED	
D10	A15	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A16	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A17	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
	A18		NOT USED	
C11	A19	2901203-011	CONVERTER, WAVE FORM	2901213
D13	A20	1902433-011	AC AMPLIFIER	1902451
D13	A21			
▷1	A22			
D11	A23	1902433-011	AC AMPLIFIER	1902451
E10	A24	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A25	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A26	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
▷1	A27	1902433-011	AC AMPLIFIER	1902451
	A28		NOT USED	
E7	A29	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A30	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A31	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
D7	A32	1902433-011	AC AMPLIFIER	1902451
D12	A33	2901203-011	CONVERTER, WAVE FORM	2901213
	A34		NOT USED	
	A35		NOT USED	
	A36		NOT USED	
D6	A37	1902433-011	AC AMPLIFIER	1902451
E6	A38	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E8	A39			
E7	A40			
E6	A41			
D6	A42	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A43		NOT USED	
D11	A44	2901147-011	PHASE SHIFTER, 90°	2900989
E9	A45	1902433-011	AC AMPLIFIER	1902451
E8	A46	1902433-011	AC AMPLIFIER	1902451
D16	A47	2901154-011	GLITCH DETECTOR	2901155
C16	A48			
E15	A49			
E15	A50			
E15	A51			
E14	A52			
E14	A53			
E14	A54	2901154-011	GLITCH DETECTOR	2901155
	A55		NOT USED	
	A56			
	A57			
	A58		NOT USED	
▷1	A59	2901168-011	ATTENUATOR	2901215
F20	A60	1902434-011	LINE DRIVE AMPLIFIER	1902448

REVISIONS

ZONE	LTR	DESCRIPTION	CHG NO	DATE	APPROVE
	A	REVISED PER MXC 211816		27 APR 66	3 RWH
	3	INITIAL RELEASE CLASS A PER TDRR 2264.		66	GC

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN W. Munson DATE 11 APR 66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

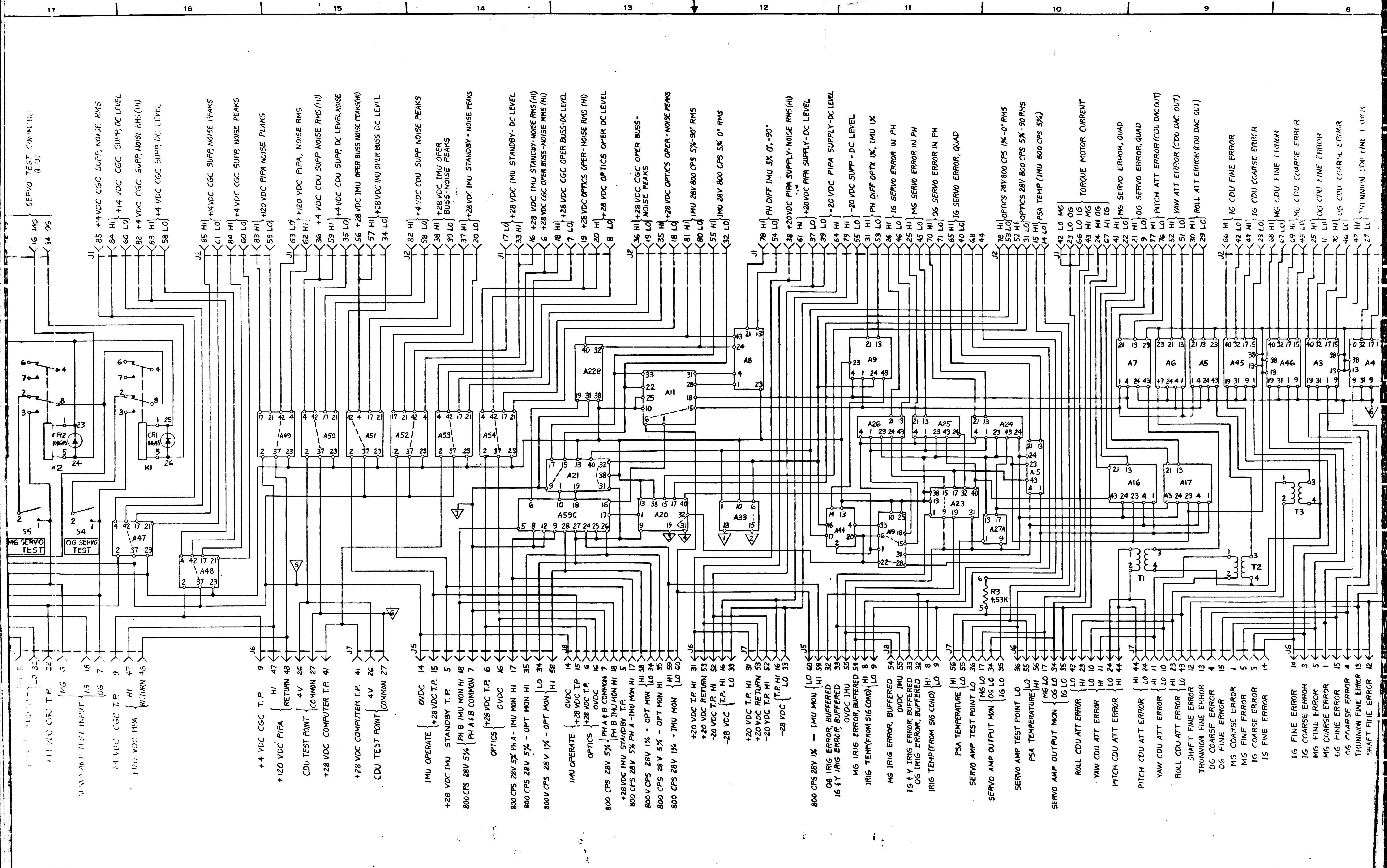
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PSA ADAPTER MODULE
(BLOCK II)

SIZE J3 CODE IDENT NO. 99974 2901419
SCALE — SHEET 1 OF 1

0149

3X2901419


17
16
15
14
13
12
11
10
9
8
SERVO TEST COMMAND (MG) (OG)
16 MG
34 OG
J1
85 HI +14 VDC CGC SUPP, NOISE RMS
84 HI
60 LO +14 VDC CGC SUPP DC LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI
58 LO +4 VDC CGC SUPP DC LEVEL
J2
85 HI
61 LO +14VDC CGC SUPP, NOISE PEAKS
84 HI
60 LO +4 VDC CGC SUPP, NOISE PEAKS
83 HI
59 LO +120 VDC PIPA NOISE PEAKS
J1
63 LO
62 HI +120 VDC PIPA, NOISE RMS
36 +4 VDC CDU SUPP NOISE RMS (HI)
59 HI
35 LO +4VDC CDU SUPP, DC LEVEL, NOISE
56 +28 VDC IMU OPER BUSS NOISE PEAKS (HI)
57 HI
34 LO +28 VDC IMU OPER BUSS DC LEVEL
J2
82 HI
58 LO +4 VDC CDU SUPP NOISE PEAKS
38 HI
39 LO +28 VDC IMU OPER BUSS-NOISE PEAKS
37 HI
20 LO +28 VDC IMU STANDBY - NOISE PEAKS
J1
17 LO
33 HI +28 VDC IMU STANDBY - DC LEVEL
16 +28 VDC IMU STANDBY-NOISE RMS (HI)
6 +28 VDC CGC OPER BUSS-NOISE RMS (HI)
18 HI
7 LO +28 VDC CGC OPER BUSS-DC LEVEL
19 +28 VDC OPTICS OPER - NOISE RMS (HI)
20 HI
8 LO +28 VDC OPTICS OPER DC LEVEL
J2
36 HI
19 LO +28 VDC CGC OPER BUSS-NOISE PEAKS
35 HI
18 LO +28 VDC OPTICS OPER - NOISE PEAKS
81 HI
80 LO IMU 28V 800 CPS 5% -90° RMS
55 HI
32 LO IMU 28V 800 CPS 5% 0° RMS
J1
78 HI
54 LO PH DIFF IMU 5% 0°, -90°
38 +20VDC PIPA SUPPLY-NOISE RMS (HI)
61 HI
37 LO +20VDC PIPA SUPPLY-DC LEVEL
39 LO
64 HI -20 VDC PIPA SUPPLY-DC LEVEL
79 HI
55 LO -20 VDC SUPP - DC LEVEL
31 HI
53 LO PH DIFF OPTX 1%, IMU 1%
26 HI
46 LO IG SERVO ERROR IN PH
25 HI
45 LO MG SERVO ERROR IN PH
70 HI
71 LO OG SERVO ERROR IN PH
65 HI
40 LO IG SERVO ERROR, QUAD
68
44
J2
78 HI
53 LO OPTICS 28V 800 CPS 1% -0° RMS
52 HI
31 LO OPTICS 28V 800 CPS 5% -90 RMS
15 HI
14 LO PSA TEMP (IMU 800 CPS 5%)
J1
42 LO MG
23 LO OG
66 LO IG
43 HI MG
24 HI OG
67 HI IG TORQUE MOTOR CURRENT
41 HI
22 LO MG SERVO ERROR, QUAD
21 HI
9 LO OG SERVO ERROR, QUAD
77 HI
76 LO PITCH ATT ERROR (CDU DAC OUT)
52 HI
51 LO YAW ATT ERROR (CDU DAC OUT)
30 HI
29 LO ROLL ATT ERROR (CDU DAC OUT)
J2
66 HI
42 LO IG CDU FINE ERROR
43 HI
23 LO IG CDU COARSE ERROR
68 HI
67 LO MG CDU FINE ERROR
69 HI
45 LO MG CDU COARSE ERROR
25 HI
11 LO OG CDU FINE ERROR
70 HI
46 LO OG CDU COARSE ERROR
47 HI
27 LO TRUNNION CDU FINE ERROR
K2
CR2 1N645
K1
CR1 1N645
S5 MG SERVO TEST
S4 OG SERVO TEST
A47
A48
A49
A50
A51
A52
A53
A54
A22B
A21
A59C
A20
A11
A8
A33
A9
A26
A25
A24
A44
A19
A23
A27A
A15
A16
A17
A7
A6
A5
A45
A46
A3
A4
T1
T2
T3
R3 4.53K
LO 32
+14 VDC CGC T.P. 22
SERVO AMP TEST INPUT MG 6 IG 18 OG 7
+4 VDC CGC T.P. 9
+120 VDC PIPA HI 47 RETURN 48
J6
+4 VDC CGC T.P. 9
+120 VDC PIPA HI 47 RETURN 48
CDU TEST POINT 4V 26 COMMON 27
+28 VDC COMPUTER T.P. 41
J7
+28 VDC COMPUTER T.P. 41
CDU TEST POINT 4V 26 COMMON 27
J5
IMU OPERATE OVDC 14 +28 VDC T.P. 15
+28 VDC IMU STANDBY T.P. 5
800 CPS 28V 5% PH B IMU MON HI 18 PH A & B COMMON 7
OPTICS +28 VDC T.P. 6 OVDC 16
800 CPS 28V 5% PH A - IMU MON HI 17
800 CPS 28V 5% - OPT MON HI 35
800V CPS 28V 1% - OPT MON LO 34 HI 58
J8
IMU OPERATE OVDC 14 +28 VDC T.P 15
OPTICS +28 VDC T.P. 6 OVDC 16
800 CPS 28V 5% PH A & B COMMON 7 PH B IMU MON HI 18
+28 VDC IMU STANDBY T.P. 5
800 CPS 28V 5% PH A -IMU MON HI 17
800V CPS 28V 1% - OPT MON HI 58 LO 34
800 CPS 28 V 5% - OPT MON HI 35
800 CPS 28V 1% - IMU MON HI 59 LO 60
J6
+20 VDC T.P. HI 31
+20 VDC RETURN 53
-20 VDC T.P. HI 52
-28 VDC T.P. HI 16 LO 33
J7
+20 VDC T.P. HI 31
+20 VDC RETURN 53
-20 VDC T.P. HI 52
-28 VDC T.P. HI 16 LO 33
J5
800 CPS 28V 1% — IMU MON LO 60 HI 59
OG IRIG ERROR, BUFFERED 32
IG & Y IRIG ERROR, BUFFERED 33
OVDC IMU 55
MG IRIG ERROR, BUFFERED 54
IRIG TEMP(FROM SIG COND) HI 8 LO 9
J8
MG IRIG ERROR, BUFFERED 54
OVDC IMU 55
IG & Y IRIG ERROR, BUFFERED 33
OG IRIG ERROR, BUFFERED 32
IRIG TEMP(FROM SIG COND) HI 8 LO 9
J7
PSA TEMPERATURE HI 56 LO 55
SERVO AMP TEST POINT LO 36
SERVO AMP OUTPUT MON MG LO 17 OG LO 34 IG LO 35
J6
SERVO AMP TEST POINT LO 36
PSA TEMPERATURE LO 55 HI 56
SERVO AMP OUTPUT MON MG LO 17 OG LO 34 IG LO 35
ROLL CDU ATT ERROR LO 43 HI 23
YAW CDU ATT ERROR LO 10 HI 11
PITCH CDU ATT ERROR LO 24 HI 44
J7
PITCH CDU ATT ERROR HI 44 LO 24
YAW CDU ATT ERROR HI 11 LO 10
ROLL CDU ATT ERROR HI 23 LO 43
SHAFT FINE ERROR 12
TRUNNION FINE ERROR 13
OG COARSE ERROR 4
OG FINE ERROR 15
MG COARSE ERROR 1
MG FINE ERROR 5
IG COARSE ERROR 3
IG FINE ERROR 14
J6
IG FINE ERROR 14
IG COARSE ERROR 3
MG FINE ERROR 5
MG COARSE ERROR 1
OG FINE ERROR 15
OG COARSE ERROR 4
TRUNNION FINE ERROR 13
SHAFT FINE ERROR 12

2901419

2901419

17 16 15 14 13 12 11 10 9 8

2Z2901419

NOTES:

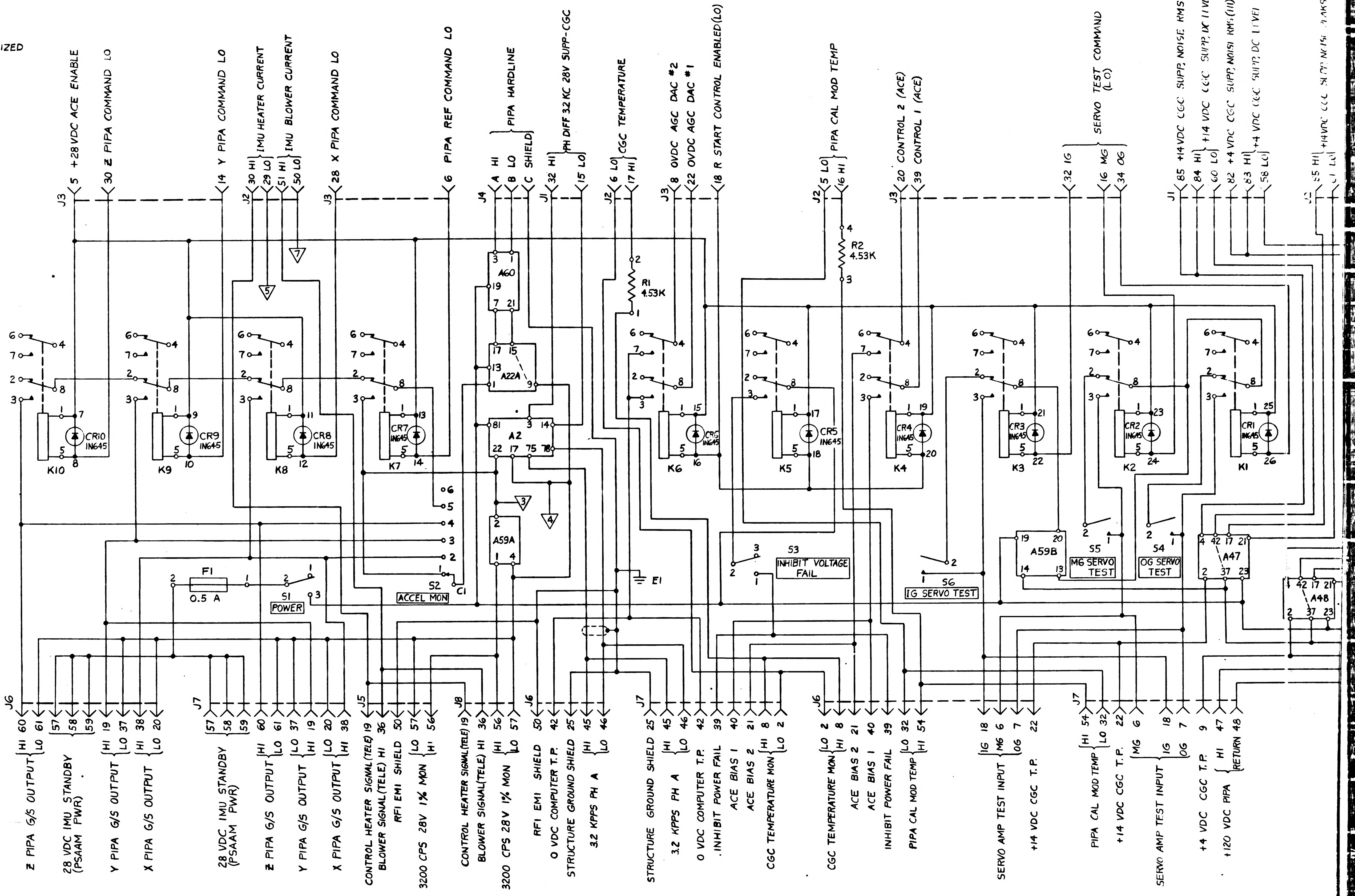
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   - 2901143-011 ASSEMBLY DRAWING
   - 2901144 WIRING HARNESS A
   - 2901458 LEAD SET A-A
4. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. LAST NUMBER USED ▽ = 7
6. SIGNAL DESCRIPTIONS:
   - ▽1 PSD REF HI
   - ▽2 PSD REF LO
   - ▽3 3200 CPS BUFFERED HI
   - ▽4 3200 CPS 28V 1% MON LO
   - ▽5 IMU OPERATE 0VDC
   - ▽6 CDU TEST POINT COMMON
   - ▽7 IMU BLOWER CURRENT LO

UNUSED TERMINALS

REF DES	TERMINAL NO.
K1	4,6,7
K2	4,6,7
K3	4,6,7
K4	2,6
K5	2,4,6,7
K6	2,6
K7	4,6,7
K8	4,6,7
K9	4,6,7
K10	4,6,7
S1	1
S2	6
S3	3
J1	47,48,69,72,73,80,81
J2	1-4, 7-10,12,13,21,22,24, 26,28,33,34,40,41,44,48 49,54,56,57,62-65, 73-77,79
J3	1-4,7,9-13,15,17,19,21,23-27, 29,31,33,35-38,40 44
J5	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,53
J6	28,29,30,49,51
J7	28,29,30,49,50,51
J8	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,50,53

▷1 SEPARATED SYMBOL LOCATIONS

REF DES	ZONE
A22A,B	E20, E13
A27A,B	D10, D7
A59A,B,C	D20, D17, D13



J3
5 +28 VDC ACE ENABLE
30 Z PIPA COMMAND LO
14 Y PIPA COMMAND LO
J2
30 HI
29 LO
IMU HEATER CURRENT
51 HI
50 LO
IMU BLOWER CURRENT
J3
28 X PIPA COMMAND LO
6 PIPA REF COMMAND LO
J4
A HI
B LO
C SHIELD
PIPA HARDLINE
J1
32 HI
15 LO
PH DIFF 3.2 KC 28V SUPP-CGC
J2
6 LO
17 HI
CGC TEMPERATURE
J3
8 0VDC AGC DAC #2
22 0VDC AGC DAC #1
18 R START CONTROL ENABLED (LO)
J2
5 LO
16 HI
PIPA CAL MOD TEMP
J3
20 CONTROL 2 (ACE)
39 CONTROL 1 (ACE)
32 IG
16 MG
34 OG
SERVO TEST COMMAND (LO)
J1
85 +14 VDC CGC SUPP. NOISE RMS
84 HI
60 LO
+14 VDC CGC SUPP. DC LEVEL
82 +4 VDC CGC SUPP. NOISE RMS (III)
83 HI
58 LO
+4 VDC CGC SUPP. DC LEVEL
R2 4.53K
R1 4.53K
A60
A22A
A2
A59A
K10
K9
K8
K7
K6
K5
K4
K3
K2
K1
CR10 IN645
CR9 IN645
CR8 IN645
CR7 IN645
CR6 IN645
CR5 IN645
CR4 IN645
CR3 IN645
CR2 IN645
CR1 IN645
F1
0.5 A
S1
POWER
S2
ACCEL MON
C1
E1
S3
INHIBIT VOLTAGE FAIL
S6
IG SERVO TEST
A59B
S5
MG SERVO TEST
S4
OG SERVO TEST
A47
A48
J6
60 HI
61 LO
Z PIPA G/S OUTPUT
57
58
59
28 VDC IMU STANDBY (PSAAM PWR)
19 HI
37 LO
Y PIPA G/S OUTPUT
38 HI
20 LO
X PIPA G/S OUTPUT
J7
57
58
59
28 VDC IMU STANDBY (PSAAM PWR)
60 HI
61 LO
Z PIPA G/S OUTPUT
37 LO
19 HI
Y PIPA G/S OUTPUT
20 LO
38 HI
X PIPA G/S OUTPUT
J5
19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL(TELE) HI
50 RFI EMI SHIELD
57 LO
56 HI
3200 CPS 28V 1% MON
J8
19 CONTROL HEATER SIGNAL(TELE)
36 BLOWER SIGNAL(TELE) HI
56 HI
57 LO
3200 CPS 28V 1% MON
J6
50 RFI EMI SHIELD
42 0 VDC COMPUTER T.P.
25 STRUCTURE GROUND SHIELD
45 HI
46 LO
3.2 KPPS PH A
J7
25 STRUCTURE GROUND SHIELD
45 HI
46 LO
3.2 KPPS PH A
42 0 VDC COMPUTER T.P.
39 INHIBIT POWER FAIL
40 ACE BIAS 1
21 ACE BIAS 2
8 HI
2 LO
CGC TEMPERATURE MON
J6
2 LO
8 HI
CGC TEMPERATURE MON
21 ACE BIAS 2
40 ACE BIAS 1
39 INHIBIT POWER FAIL
32 LO
54 HI
PIPA CAL MOD TEMP
18 IG
6 MG
7 OG
SERVO AMP TEST INPUT
22 +14 VDC CGC T.P.
J7
54 HI
32 LO
PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG
18 IG
7 OG
SERVO AMP TEST INPUT
9 +4 VDC CGC T.P.
47 HI
48 RETURN
+120 VDC PIPA

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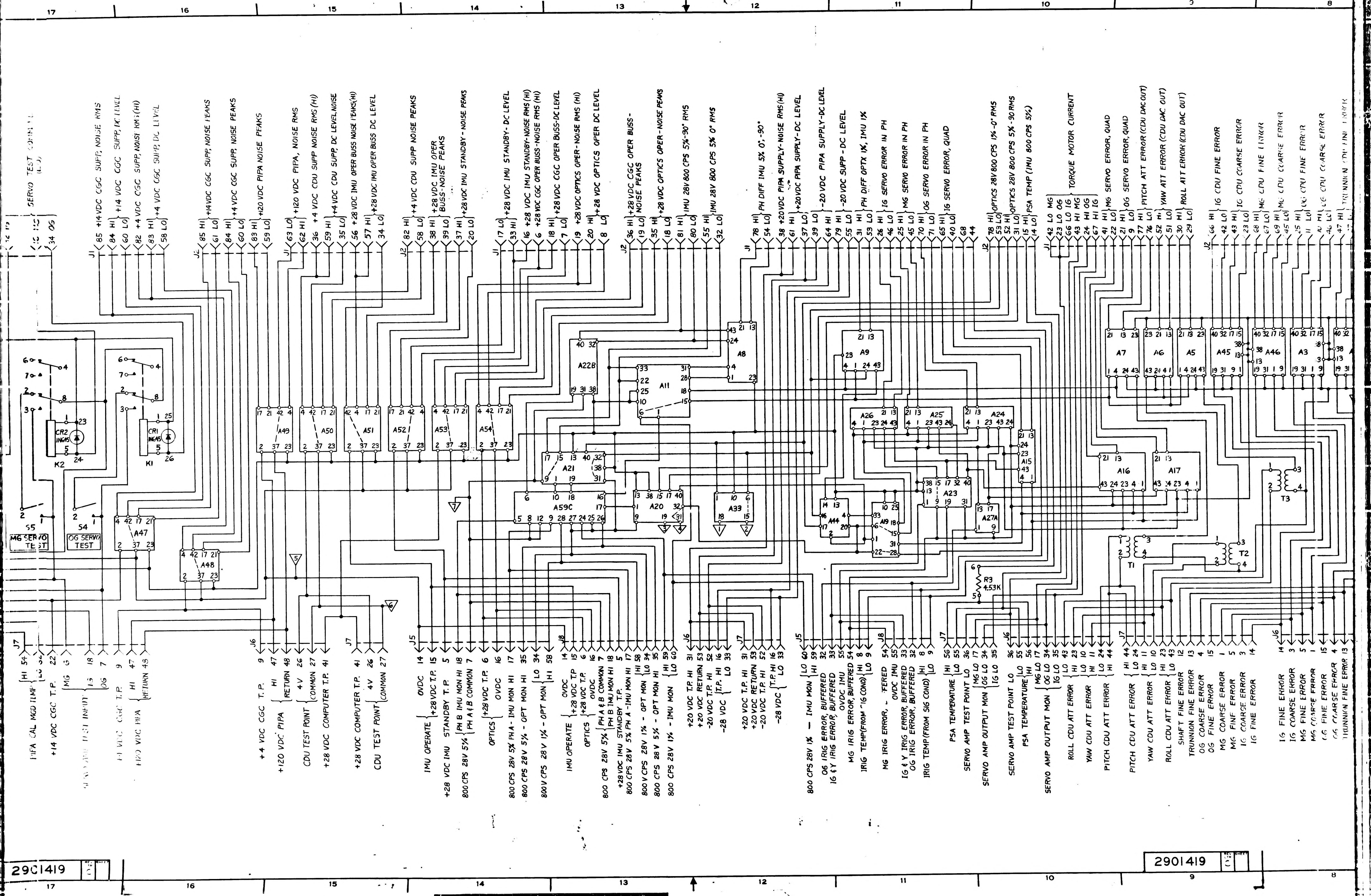

17
16
15
14
13
12
11
10
9
8
SERVO TEST CONTROL (LO)
+14 VDC CGC SUPP, NOISE RMS
+14 VDC CGC SUPP, DC LEVEL
+4 VDC CGC SUPP, NOISE RMS (HI)
+4 VDC CGC SUPP, DC LEVEL
+14 VDC CGC SUPP NOISE PEAKS
+4 VDC CGC SUPP NOISE PEAKS
+120 VDC PIPA NOISE PEAKS
+120 VDC PIPA, NOISE RMS
+4 VDC CDU SUPP NOISE RMS (HI)
+4 VDC CDU SUPP, DC LEVEL, NOISE
+28 VDC IMU OPER BUSS NOISE PEAKS (HI)
+28 VDC IMU OPER BUSS DC LEVEL
+4 VDC CDU SUPP NOISE PEAKS
+28 VDC IMU OPER BUSS-NOISE PEAKS
+28 VDC IMU STANDBY-NOISE PEAKS
+28 VDC IMU STANDBY-DC LEVEL
+28 VDC IMU STANDBY-NOISE RMS (HI)
+28 VDC CGC OPER BUSS-NOISE RMS (HI)
+28 VDC CGC OPER BUSS-DC LEVEL
+28 VDC OPTICS OPER-NOISE RMS (HI)
+28 VDC OPTICS OPER DC LEVEL
+28 VDC CGC OPER BUSS-NOISE PEAKS
+28 VDC OPTICS OPER-NOISE PEAKS
IMU 28V 800 CPS 5% -90° RMS
IMU 28V 800 CPS 5% 0° RMS
PH DIFF IMU 5% 0°, -90°
+20 VDC PIPA SUPPLY-NOISE RMS (HI)
+20 VDC PIPA SUPPLY-DC LEVEL
-20 VDC PIPA SUPPLY-DC LEVEL
-20 VDC SUPP-DC LEVEL
PH DIFF OPTX 1%, IMU 1%
IG SERVO ERROR IN PH
MG SERVO ERROR IN PH
OG SERVO ERROR IN PH
IG SERVO ERROR, QUAD
OPTICS 28V 800 CPS 1% -0° RMS
OPTICS 28V 800 CPS 5% -90 RMS
PSA TEMP (IMU 800 CPS 5%)
TORQUE MOTOR CURRENT
MG SERVO ERROR, QUAD
OG SERVO ERROR, QUAD
PITCH ATT ERROR (CDU DAC OUT)
YAW ATT ERROR (CDU DAC OUT)
ROLL ATT ERROR (CDU DAC OUT)
IG CDU FINE ERROR
IG CDU COARSE ERROR
MG CDU FINE ERROR
MG CDU COARSE ERROR
OG CDU FINE ERROR
OG CDU COARSE ERROR
TRUNNION CDU FINE ERROR
J1
J2
J5
J6
J7
J8
A3
A5
A6
A7
A8
A9
A11
A15
A16
A17
A19
A20
A21
A22B
A23
A24
A25
A26
A27A
A33
A44
A45
A46
A47
A48
A49
A50
A51
A52
A53
A54
A59C
CR2 IN645
CR1 IN645
K2
K1
S5
MG SERVO TEST
S4
OG SERVO TEST
T1
T2
T3
R3 4.53K
PIPA CAL MOD TEMP
+14 VDC CGC T.P.
SERVO AMP TEST INPUT
+4 VDC CGC T.P.
+120 VDC PIPA
+4 VDC CGC T.P.
+120 VDC PIPA
CDU TEST POINT
+28 VDC COMPUTER T.P.
+28 VDC COMPUTER T.P.
CDU TEST POINT
IMU OPERATE
0VDC
+28 VDC T.P.
+28 VDC IMU STANDBY T.P.
800 CPS 28V 5%
PH B IMU MON HI
PH A & B COMMON
OPTICS
+28 VDC T.P.
800 CPS 28V 5% PH A - IMU MON HI
800 CPS 28V 5% - OPT MON HI
800 V CPS 28 V 1% - OPT MON
+28 VDC IMU STANDBY T.P.
800 V CPS 28V 1% - OPT MON
800 CPS 28 V 5% - OPT MON HI
800 CPS 28V 1% - IMU MON
+20 VDC T.P. HI
+20 VDC RETURN
-20 VDC T.P. HI
-28 VDC
800 CPS 28V 1% - IMU MON
OG IRIG ERROR, BUFFERED
IG & Y IRIG ERROR, BUFFERED
0VDC IMU
MG IRIG ERROR, BUFFERED
IRIG TEMP (FROM IG COND)
MG IRIG ERROR, BUFFERED
IG & Y IRIG ERROR, BUFFERED
OG IRIG ERROR, BUFFERED
IRIG TEMP (FROM SIG COND)
PSA TEMPERATURE
SERVO AMP TEST POINT LO
SERVO AMP OUTPUT MON
SERVO AMP TEST POINT LO
PSA TEMPERATURE
SERVO AMP OUTPUT MON
ROLL CDU ATT ERROR
YAW CDU ATT ERROR
PITCH CDU ATT ERROR
PITCH CDU ATT ERROR
YAW CDU ATT ERROR
ROLL CDU ATT ERROR
SHAFT FINE ERROR
TRUNNION FINE ERROR
OG COARSE ERROR
OG FINE ERROR
MG COARSE ERROR
MG FINE ERROR
IG COARSE ERROR
IG FINE ERROR
IG FINE ERROR
IG COARSE ERROR
MG FINE ERROR
MG COARSE ERROR
OG COARSE ERROR
TRUNNION FINE ERROR
2901419

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   2901144 WIRING HARNESS A
   2901458 LEAD SET A-A

4. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. LAST NUMBER USED ▽ = 7
6. SIGNAL DESCRIPTIONS:

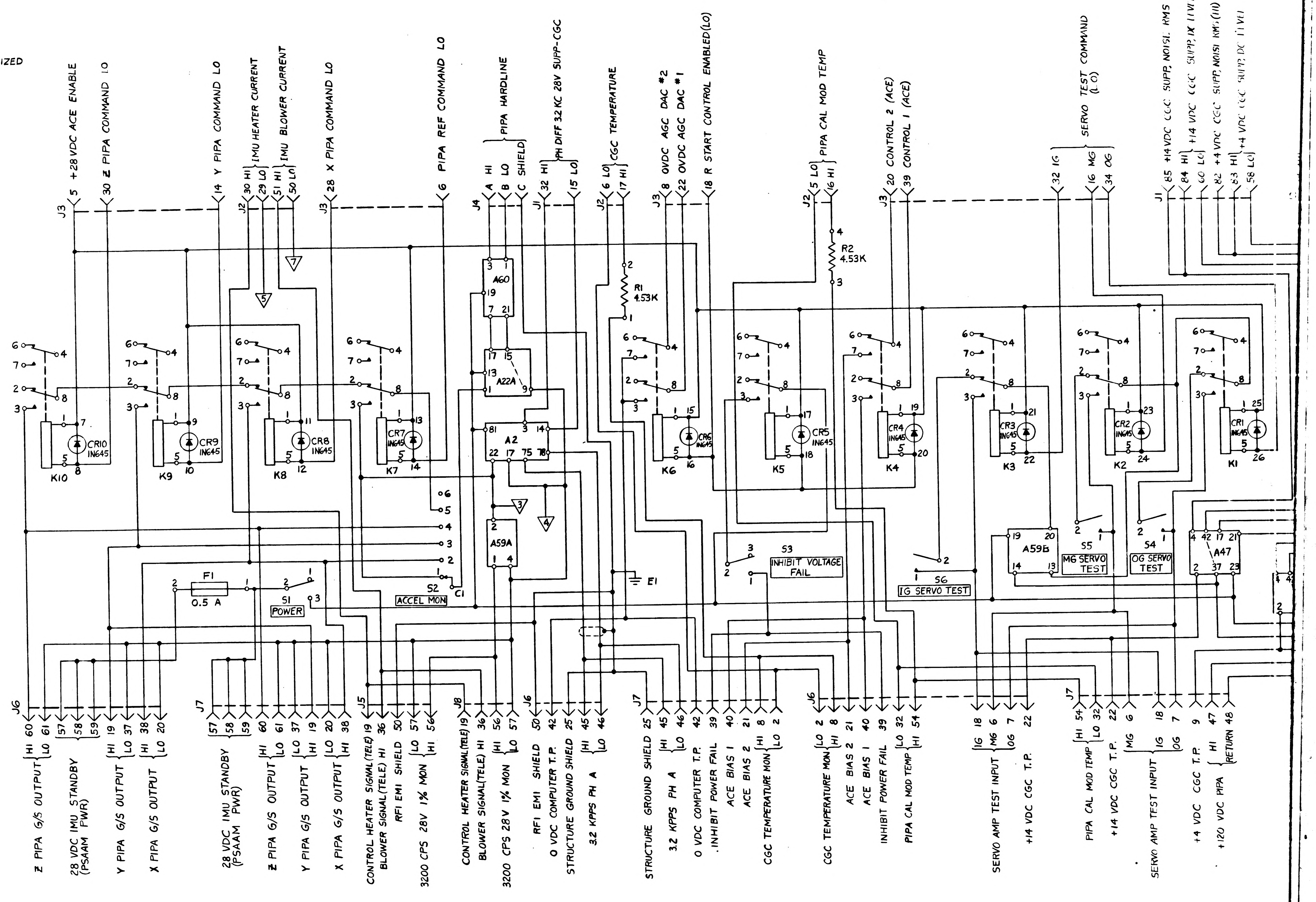
   ▽1 PSD REF HI
   ▽2 PSD REF LO
   ▽3 3200 CPS BUFFERED HI
   ▽4 3200 CPS 28V 1% MON LO
   ▽5 IMU OPERATE OVDC
   ▽6 CDU TEST POINT COMMON
   ▽7 IMU BLOWER CURRENT LO

UNUSED TERMINALS

REF DES	TERMINAL NO.
K1	4,6,7
K2	4,6,7
K3	4,6,7
K4	2,6
K5	2,4,6,7
K6	2,6
K7	4,6,7
K8	4,6,7
K9	4,6,7
K10	4,6,7
S1	1
S2	6
S3	3
J1	47,48,69,72,73,80,81
J2	1-4, 7-10,12,13,21,22,24, 26,28,33,34,40,41,44,48 49,54,56,57,62-65, 73-77,79
J3	1-4,7,9-13,15,17,19,21,23-27, 29,31,33,35-38,40 44
J5	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,53
J6	28,29,30,49,51
J7	28,29,30,49,50,51
J8	1-4,10-13,20-25,27,28,29, 37,41,42,43,48,49,50,53

▷1 SEPARATED SYMBOL LOCATIONS

REF DES	ZONE
A22A,B	E20, E13
A27A,B	D10, D7
A59A,B,C	D20, D17, D13


J3 5 +28 VDC ACE ENABLE
30 Z PIPA COMMAND LO
14 Y PIPA COMMAND LO
J2 30 HI 29 LO IMU HEATER CURRENT
51 HI 50 LO IMU BLOWER CURRENT
J3 28 X PIPA COMMAND LO
6 PIPA REF COMMAND LO
J4 A HI B LO C SHIELD PIPA HARDLINE
J1 32 HI 15 LO PH DIFF 32 KC 28V SUPP-CGC
J2 6 LO 17 HI CGC TEMPERATURE
J3 8 OVDC AGC DAC #2
22 OVDC AGC DAC #1
18 R START CONTROL ENABLED (LO)
J2 5 LO 16 HI PIPA CAL MOD TEMP
J3 20 CONTROL 2 (ACE)
39 CONTROL 1 (ACE)
32 IG 16 MG 34 OG SERVO TEST COMMAND (LO)
J1 85 +14 VDC CGC SUPP, NOISE RMS
84 HI 60 LO +14 VDC CGC SUPP, IX LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI 58 LO +4 VDC CGC SUPP, DC LEVEL
K10 CR10 IN645
K9 CR9 IN645
K8 CR8 IN645
K7 CR7 IN645
K6 CR6 IN645
K5 CR5 IN645
K4 CR4 IN645
K3 CR3 IN645
K2 CR2 IN645
K1 CR1 IN645
A60
A22A
A2
A59A
A59B
A47
R1 4.53K
R2 4.53K
F1 0.5 A
S1 POWER
S2 ACCEL MON
C1
E1
S3 INHIBIT VOLTAGE FAIL
S6 IG SERVO TEST
S5 MG SERVO TEST
S4 OG SERVO TEST
J6 60 HI 61 LO Z PIPA G/S OUTPUT
57 58 59 28 VDC IMU STANDBY (PSAAM PWR)
19 HI 37 LO Y PIPA G/S OUTPUT
38 HI 20 LO X PIPA G/S OUTPUT
J7 57 58 59 28 VDC IMU STANDBY (PSAAM PWR)
60 HI 61 LO Z PIPA G/S OUTPUT
37 LO 19 HI Y PIPA G/S OUTPUT
20 LO 38 HI X PIPA G/S OUTPUT
J5 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
50 RFI EMI SHIELD
57 LO 56 HI 3200 CPS 28V 1% MON
J8 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
56 HI 57 LO 3200 CPS 28V 1% MON
J6 50 RFI EMI SHIELD
42 0 VDC COMPUTER T.P.
25 STRUCTURE GROUND SHIELD
45 HI 46 LO 3.2 KPPS PH A
J7 25 STRUCTURE GROUND SHIELD
45 HI 46 LO 3.2 KPPS PH A
42 0 VDC COMPUTER T.P.
39 INHIBIT POWER FAIL
40 ACE BIAS 1
21 ACE BIAS 2
8 HI 2 LO CGC TEMPERATURE MON
J6 2 LO 8 HI CGC TEMPERATURE MON
21 ACE BIAS 2
40 ACE BIAS 1
39 INHIBIT POWER FAIL
32 LO 54 HI PIPA CAL MOD TEMP
18 IG 6 MG 7 OG SERVO AMP TEST INPUT
22 +14 VDC CGC T.P.
J7 54 HI 32 LO PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG 18 IG 7 OG SERVO AMP TEST INPUT
9 +4 VDC CGC T.P.
47 HI 48 RETURN +120 VDC PIPA

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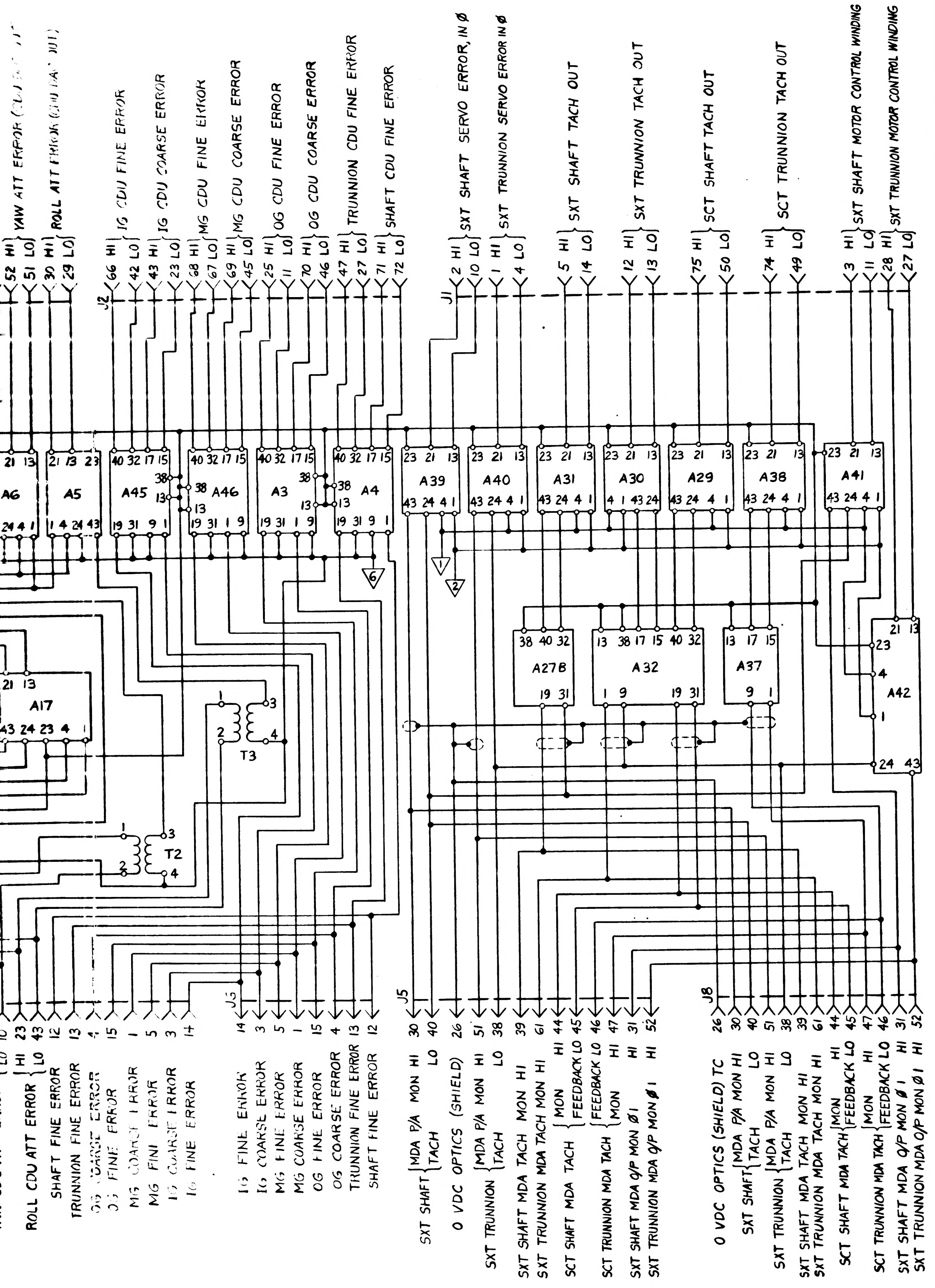

52 HI
51 LO
YAW ATT ERROR (CDU DAC OUT)
30 HI
29 LO
ROLL ATT ERROR (CDU DAC OUT)
J2
66 HI
42 LO
IG CDU FINE ERROR
43 HI
23 LO
IG CDU COARSE ERROR
68 HI
67 LO
MG CDU FINE ERROR
69 HI
45 LO
MG CDU COARSE ERROR
25 HI
11 LO
OG CDU FINE ERROR
70 HI
46 LO
OG CDU COARSE ERROR
47 HI
27 LO
TRUNNION CDU FINE ERROR
71 HI
72 LO
SHAFT CDU FINE ERROR
J1
2 HI
10 LO
SXT SHAFT SERVO ERROR, IN Ø
1 HI
4 LO
SXT TRUNNION SERVO ERROR IN Ø
5 HI
14 LO
SXT SHAFT TACH OUT
12 HI
13 LO
SXT TRUNNION TACH OUT
75 HI
50 LO
SCT SHAFT TACH OUT
74 HI
49 LO
SCT TRUNNION TACH OUT
3 HI
11 LO
SXT SHAFT MOTOR CONTROL WINDING
28 HI
27 LO
SXT TRUNNION MOTOR CONTROL WINDING
A6
A5
A45
A46
A3
A4
A39
A40
A31
A30
A29
A38
A41
A27B
A32
A37
A42
A17
T1
T2
T3
1
2
6
ROLL CDU ATT ERROR
HI 23
LO 43
SHAFT FINE ERROR 12
TRUNNION FINE ERROR 13
OG COARSE ERROR 4
OG FINE ERROR 15
MG COARSE ERROR 1
MG FINE ERROR 5
IG COARSE ERROR 3
IG FINE ERROR 14
J3
IG FINE ERROR 14
IG COARSE ERROR 3
MG FINE ERROR 5
MG COARSE ERROR 1
OG FINE ERROR 15
OG COARSE ERROR 4
TRUNNION FINE ERROR 13
SHAFT FINE ERROR 12
J5
SXT SHAFT MDA P/A MON HI 30
SXT SHAFT TACH LO 40
0 VDC OPTICS (SHIELD) 26
SXT TRUNNION MDA P/A MON HI 51
SXT TRUNNION TACH LO 38
SXT SHAFT MDA TACH MON HI 39
SXT TRUNNION MDA TACH MON HI 61
SCT SHAFT MDA TACH MON HI 44
SCT SHAFT MDA TACH FEEDBACK LO 45
SCT TRUNNION MDA TACH FEEDBACK LO 46
SCT TRUNNION MDA TACH MON HI 47
SXT SHAFT MDA O/P MON Ø 1 HI 31
SXT TRUNNION MDA O/P MON Ø 1 HI 52
J8
0 VDC OPTICS (SHIELD) TC 26
SXT SHAFT MDA P/A MON HI 30
SXT SHAFT TACH LO 40
SXT TRUNNION MDA P/A MON HI 51
SXT TRUNNION TACH LO 38
SXT SHAFT MDA TACH MON HI 39
SXT TRUNNION MDA TACH MON HI 61
SCT SHAFT MDA TACH MON HI 44
SCT SHAFT MDA TACH FEEDBACK LO 45
SCT TRUNNION MDA TACH MON HI 47
SCT TRUNNION MDA TACH FEEDBACK LO 46
SXT SHAFT MDA O/P MON Ø 1 HI 31
SXT TRUNNION MDA O/P MON Ø 1 HI 52

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E16	CR1	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
E17	CR2	IN645 (1896966-004)		
E17	CR3	IN645 (1896966-004)		
E18	CR4	IN645 (1896966-004)		
E19	CR5	IN645 (1896966-004)		
E19	CR6	IN645 (1896966-004)		
D21	CR7	IN645 (1896966-004)		
D21	CR8	IN645 (1896966-004)		
D22	CR9	IN645 (1896966-004)		
D23	CR10	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
C20	E1			
D22	F1	F02B250V1/2A (1897099-025)	FUSE-CARTRIDGE MIL-F-15160/02	.5 AMP
	J1	1897247-002	CONNECTOR	
	J2	1897247-003		
	J3	1897252-109		
	J4	MS3102R14S-7S(C) (1896916-107)		
	J5	1897252-107		
	J6	1897252-106		
	J7	1897247-006		
	J8	1897247-007	CONNECTOR	
E16	K1	1015832-118	RELAY	
E17	K2			
E17	K3			
E18	K4			
E19	K5			
E19	K6			
D21	K7			
D22	K8			
D22	K9			
D23	K10	1015832-118	RELAY	
F20	R1	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
F19	R2	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C10	R3	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C22	S1	1016265-004	SWITCH - TOGGLE	
C21	S2	1897379-001	- ROTARY	
D19	S3	1016265-004	- TOGGLE	
D17	S4	-006		
D17	S5	-006		
C18	S6	1016265-006	SWITCH-TOGGLE	
C 9	T1	1897413	TRANSFORMER	
C 9	T2	1897413	TRANSFORMER	
D 8	T3	1897413	TRANSFORMER	
	XF1	MS26572-1	FUSEHOLDER	

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E20	A2	2901063-011	PHASE DIFF CKT	2900988
E8	A3	1902433-011	AC AMPLIFIER	1902451
E8	A4	1902433-011	AC AMPLIFIER	1902451
E9	A5	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E9	A6			
E9	A7			
F12	A8			
E11	A9	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A10		NOT USED	
E13	A11	2901203-011	CONVERTER, WAVE FORM	2901213
	A12		NOT USED	
	A13		NOT USED	
	A14		NOT USED	
D10	A15	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A16	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A17	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
	A18		NOT USED	
C11	A19	2901203-011	CONVERTER, WAVE FORM	2901213
D13	A20	1902433-011	AC AMPLIFIER	1902451
D13	A21			
▷	A22			
D11	A23	1902433-011	AC AMPLIFIER	1902451
E10	A24	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A25	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A26	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
▷	A27	1902433-011	AC AMPLIFIER	1902451
	A28		NOT USED	
E7	A29	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A30	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A31	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
D7	A32	1902433-011	AC AMPLIFIER	1902451
D12	A33	2901203-011	CONVERTER, WAVE FORM	2901213
	A34		NOT USED	
	A35		NOT USED	
	A36		NOT USED	
D6	A37	1902433-011	AC AMPLIFIER	1902451
E6	A38	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E8	A39			
E7	A40			
E6	A41			
D6	A42	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A43		NOT USED	
D11	A44	2901147-011	PHASE SHIFTER, 90°	2900989
E9	A45	1902433-011	AC AMPLIFIER	1902451
E8	A46	1902433-011	AC AMPLIFIER	1902451
D16	A47	2901154-011	GLITCH DETECTOR	2901155
C16	A48			
E15	A49			
E15	A50			
E15	A51			
E14	A52			
E14	A53			
E14	A54	2901154-011	GLITCH DETECTOR	2901155
	A55		NOT USED	
	A56			
	A57			
	A58		NOT USED	
▷	A59	2901168-011	ATTENUATOR	2901215
F20	A60	1902434-011	LINE DRIVE AMPLIFIER	1902448

REVISIONS

ZONE	LTR	DESCRIPTION	CHG NO.	DATE	APPROVE
	A	REVISED. PER MXC 211816		27 APR 66	B RWH
	B	INITIAL RELEASE CLASS A PER TDRR 2264		2 MAY 66	GC
	C	REVISED PER TDRR 29636		23 JUL 66	
	D	REVISED PER TDRR 29?73		14 JUL 66	SAC

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

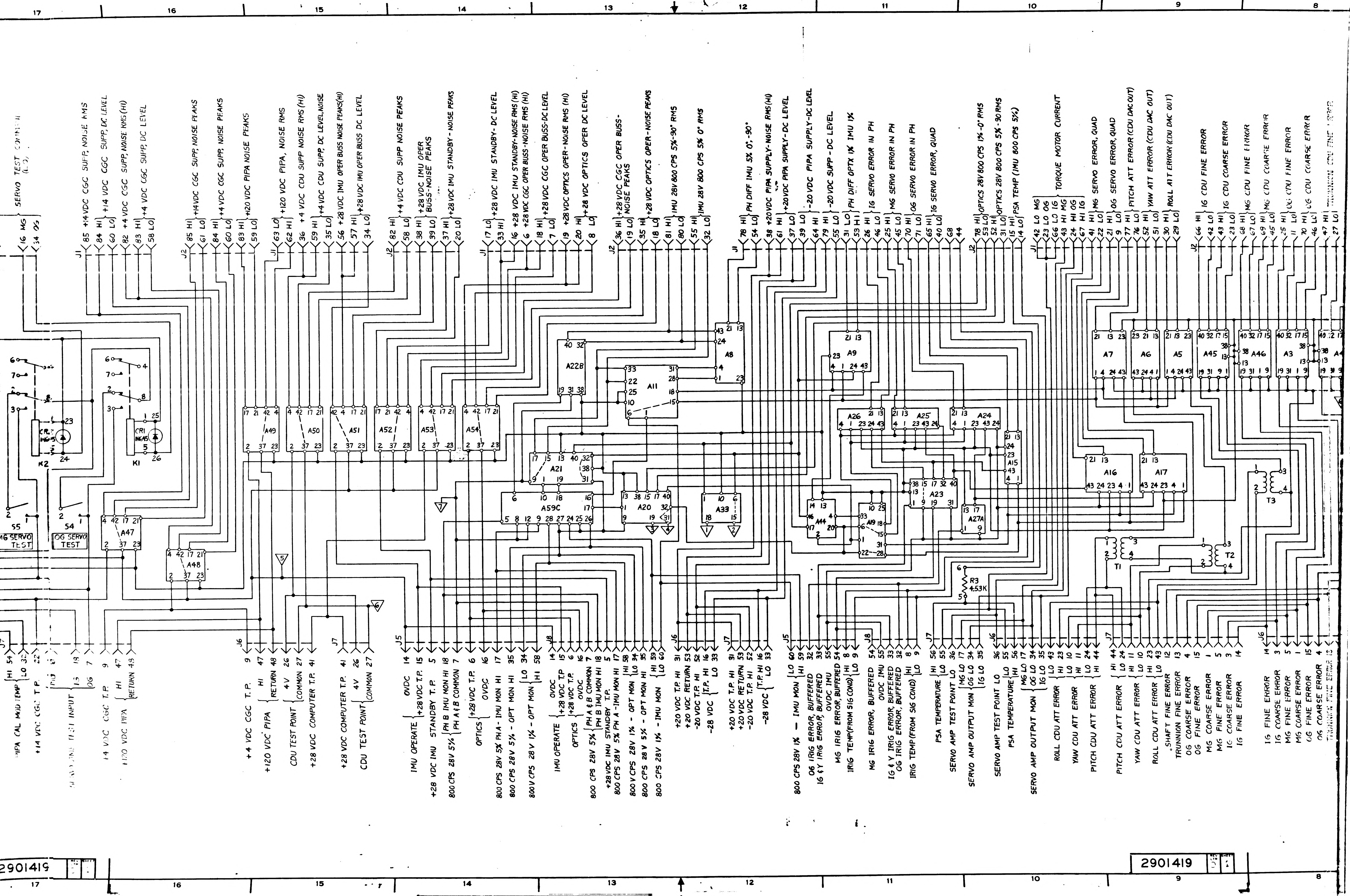
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN W. Munson DATE 11 APR 66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PSA ADAPTER MODULE
(BLOCK II)

SIZE J3 CODE IDENT NO. 99974 2901419
SCALE — SHEET 1 OF 1


17
16
15
14
13
12
11
10
9
8
SERVO TEST CONN
16 MG
34 OG
J1
85 +14 VDC CGC SUPP, NOISE RMS
84 HI +14 VDC CGC SUPP, DC LEVEL
60 LO
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI +4 VDC CGC SUPP, DC LEVEL
58 LO
J2
85 HI +14 VDC CGC SUPP, NOISE PEAKS
61 LO
84 HI +4 VDC CGC SUPP, NOISE PEAKS
60 LO
83 HI +120 VDC PIPA NOISE PEAKS
59 LO
J1
63 LO +120 VDC PIPA, NOISE RMS
62 HI
36 +4 VDC CDU SUPP NOISE RMS (HI)
59 HI +4 VDC CDU SUPP, DC LEVEL, NOISE
35 LO
56 +28 VDC IMU OPER BUSS NOISE PEAKS (HI)
57 HI +28 VDC IMU OPER BUSS DC LEVEL
34 LO
J2
82 HI +4 VDC CDU SUPP NOISE PEAKS
58 LO
38 HI +28 VDC IMU OPER BUSS-NOISE PEAKS
39 LO
37 HI +28 VDC IMU STANDBY - NOISE PEAKS
20 LO
J1
17 LO +28 VDC IMU STANDBY - DC LEVEL
33 HI
16 +28 VDC IMU STANDBY-NOISE RMS (HI)
6 +28 VDC CGC OPER BUSS-NOISE RMS (HI)
18 HI +28 VDC CGC OPER BUSS-DC LEVEL
7 LO
19 +28 VDC OPTICS OPER-NOISE RMS (HI)
20 HI +28 VDC OPTICS OPER DC LEVEL
8 LO
J2
36 HI +28 VDC CGC OPER BUSS-NOISE PEAKS
19 LO
35 HI +28 VDC OPTICS OPER-NOISE PEAKS
18 LO
81 HI IMU 28V 800 CPS 5% -90° RMS
80 LO
55 HI IMU 28V 800 CPS 5% 0° RMS
32 LO
J1
78 HI PH DIFF IMU 5% 0°-90°
54 LO
38 +20 VDC PIPA SUPPLY-NOISE RMS (HI)
61 HI +20 VDC PIPA SUPPLY-DC LEVEL
37 LO
64 HI -20 VDC PIPA SUPPLY-DC LEVEL
79 HI -20 VDC SUPP-DC LEVEL
55 LO
31 LO PH DIFF OPTX 1% IMU 1%
53 HI
26 HI IG SERVO ERROR IN PH
46 LO
25 HI MG SERVO ERROR IN PH
45 LO
70 HI OG SERVO ERROR IN PH
71 LO
65 HI IG SERVO ERROR, QUAD
40 LO
68
44
J2
78 HI OPTICS 28V 800 CPS 1% -0° RMS
53 LO
52 HI OPTICS 28V 800 CPS 5% -90 RMS
15 HI PSA TEMP (IMU 800 CPS 5%)
14 LO
J1
42 LO MG
23 LO OG
66 LO IG
43 HI MG
24 HI OG
67 HI IG
TORQUE MOTOR CURRENT
41 HI MG SERVO ERROR, QUAD
22 LO
21 HI OG SERVO ERROR, QUAD
9 LO
77 HI PITCH ATT ERROR (CDU DAC OUT)
76 LO
52 HI YAW ATT ERROR (CDU DAC OUT)
51 LO
30 HI ROLL ATT ERROR (CDU DAC OUT)
29 LO
J2
66 HI IG CDU FINE ERROR
42 LO
43 HI IG CDU COARSE ERROR
23 LO
68 HI MG CDU FINE ERROR
67 LO
69 HI MG CDU COARSE ERROR
45 LO
25 HI OG CDU FINE ERROR
11 LO
70 HI OG CDU COARSE ERROR
46 LO
47 HI TRUNNION CDU FINE ERROR
27 LO
K2
CR2 1N645
K1
CR1 1N645
S5 MG SERVO TEST
S4 OG SERVO TEST
A47
A48
A49
A50
A51
A52
A53
A54
A228
A21
A59C
A11
A20
A33
A8
A9
A26
A25
A24
A15
A44
A19
A23
A27A
A7
A6
A5
A45
A46
A3
A4
A16
A17
T3
T1
T2
R3 4.53K
J7
PIPA CAL MOD TEMP HI 54 LO 32
+14 VDC CGC T.P. 22
SERVO TEST INPUT MG 13 OG 7
+4 VDC CGC T.P. 9
+120 VDC PIPA HI 47 RETURN 48
J6
+4 VDC CGC T.P. 9
+120 VDC PIPA HI 47 RETURN 48
CDU TEST POINT 4V 26 COMMON 27
+28 VDC COMPUTER T.P. 41
J7
+28 VDC COMPUTER T.P. 41
CDU TEST POINT 4V 26 COMMON 27
J5
IMU OPERATE OVDC 14 +28 VDC T.P. 15
+28 VDC IMU STANDBY T.P. 5
800 CPS 28V 5% PH B IMU MON HI 18 PH A & B COMMON 7
OPTICS +28 VDC T.P. 6 OVDC 16
800 CPS 28V 5% PH A - IMU MON HI 17
800 CPS 28V 5% - OPT MON HI 35
800V CPS 28 V 1% - OPT MON LO 34 HI 58
J8
IMU OPERATE OVDC 14 +28 VDC T.P. 15
OPTICS +28 VDC T.P. 6 OVDC 16
800 CPS 28V 5% PH A & B COMMON 7 PH B IMU MON HI 18
+28 VDC IMU STANDBY T.P. 5
800 CPS 28V 5% PH A - IMU MON HI 17
800 V CPS 28V 1% - OPT MON HI 58 LO 34
800 CPS 28 V 5% - OPT MON HI 35
800 CPS 28V 1% - IMU MON HI 59 LO 60
J6
+20 VDC T.P. HI 31
+20 VDC RETURN 53
-20 VDC T.P. HI 52
-28 VDC T.P. HI 16 LO 33
J7
+20 VDC T.P. HI 31
+20 VDC RETURN 53
-20 VDC T.P. HI 52
-28 VDC T.P. HI 16 LO 33
J5
800 CPS 28V 1% - IMU MON LO 60 HI 59
OG IRIG ERROR, BUFFERED 32
IG & Y IRIG ERROR, BUFFERED 33
OVDC IMU 55
MG IRIG ERROR, BUFFERED 54
IRIG TEMP (FROM SIG COND) HI 8 LO 9
J8
MG IRIG ERROR, BUFFERED 54
OVDC IMU 55
IG & Y IRIG ERROR, BUFFERED 33
OG IRIG ERROR, BUFFERED 32
IRIG TEMP (FROM SIG COND) HI 8 LO 9
J7
PSA TEMPERATURE HI 56 LO 55
SERVO AMP TEST POINT LO 17
SERVO AMP OUTPUT MON MG LO 17 OG LO 34 IG LO 35
J6
SERVO AMP TEST POINT LO 36
PSA TEMPERATURE HI 56 LO 55
SERVO AMP OUTPUT MON MG LO 17 OG LO 34 IG LO 35
ROLL CDU ATT ERROR LO 43 HI 23
YAW CDU ATT ERROR HI 11 LO 10
PITCH CDU ATT ERROR LO 24 HI 44
J7
PITCH CDU ATT ERROR HI 44 LO 24
YAW CDU ATT ERROR HI 11 LO 10
ROLL CDU ATT ERROR HI 23 LO 43
SHAFT FINE ERROR 12
TRUNNION FINE ERROR 13
OG COARSE ERROR 4
OG FINE ERROR 1
MG COARSE ERROR 5
MG FINE ERROR 3
IG FINE ERROR 14
J6
IG FINE ERROR 14
IG COARSE ERROR 3
MG FINE ERROR 5
MG COARSE ERROR 1
OG FINE ERROR 15
OG COARSE ERROR 4
TRUNNION FINE ERROR 13
2901419
2901419

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NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

2901143-011	ASSEMBLY DRAWING
2901144	WIRING HARNESS A
2901458	LEAD SET A-A

4. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. LAST NUMBER USED ▽ = 7
6. SIGNAL DESCRIPTIONS:

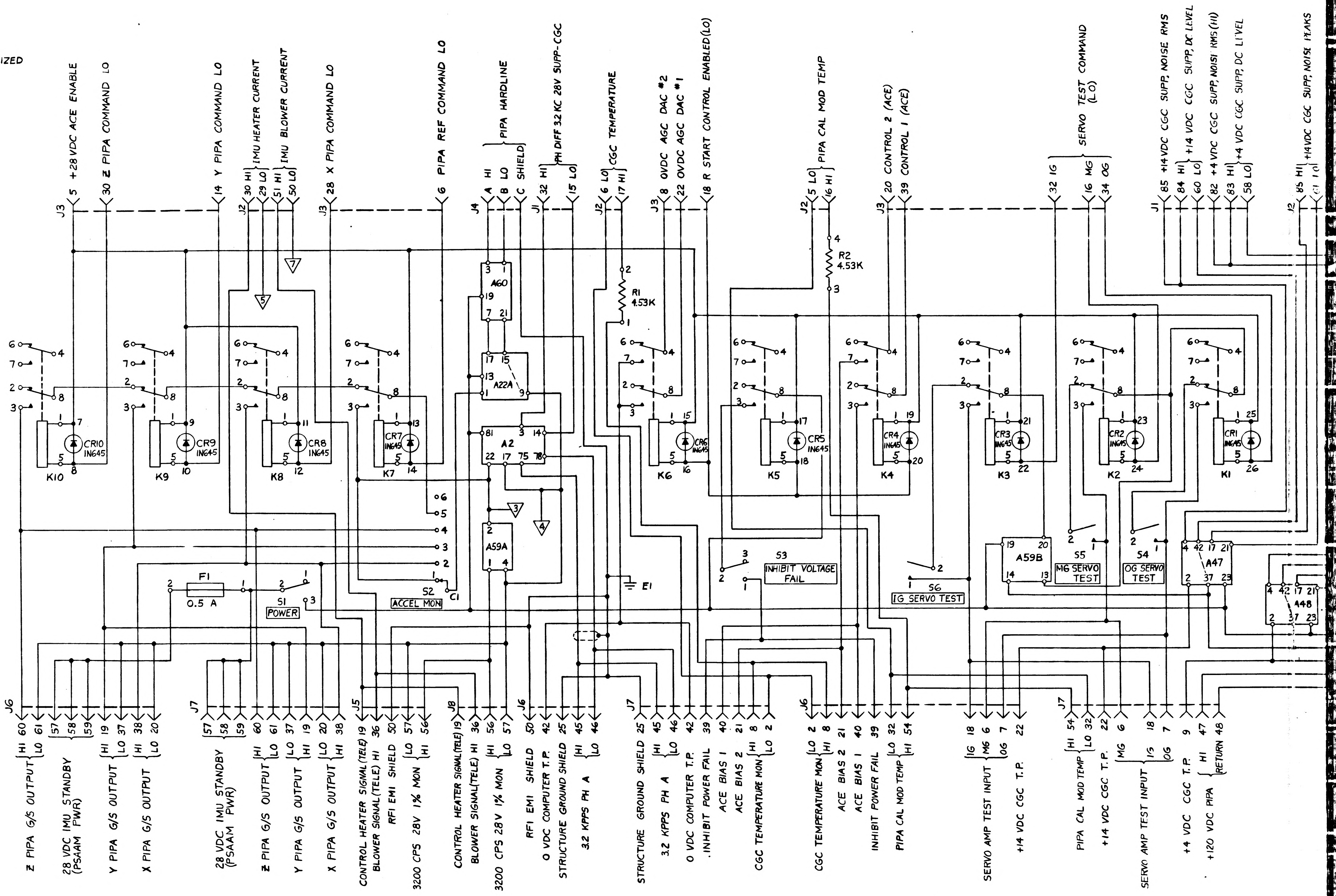
▽1	PSD REF HI
▽2	PSD REF LO
▽3	3200 CPS BUFFERED HI
▽4	3200 CPS 28V 1% MON LO
▽5	IMU OPERATE OVDC
▽6	CDU TEST POINT COMMON
▽7	IMU BLOWER CURRENT LO

UNUSED TERMINALS

REF DES	TERMINAL NO.
K1	4,6,7
K2	4,6,7
K3	4,6,7
K4	2,6
K5	2,4,6,7
K6	2,6
K7	4,6,7
K8	4,6,7
K9	4,6,7
K10	4,6,7
S1	1
S2	6
S3	3
J1	47,48,69,72,73,80,81
J2	1-4, 7-10, 12, 13, 21, 22, 24, 26, 28, 33, 34, 40, 41, 44, 48, 49, 54, 56, 57, 62-65, 73-77, 79
J3	1-4, 7, 9-13, 15, 17, 19, 21, 23-27, 29, 31, 33, 35-38, 40, 44
J5	1-4, 10-13, 20-25, 27, 28, 29, 37, 41, 42, 43, 48, 49, 53
J6	28, 29, 30, 49, 51
J7	28, 29, 30, 49, 50, 51
J8	1-4, 10-13, 20-25, 27, 28, 29, 37, 41, 42, 43, 48, 49, 50, 53

▷1 SEPARATED SYMBOL LOCATIONS

REF DES	ZONE
A22A,B	E20, E13
A27A,B	D10, D7
A59A,B,C	D20, D17, D13



J3 5 +28VDC ACE ENABLE
30 Z PIPA COMMAND LO
14 Y PIPA COMMAND LO
J2 30 HI, 29 LO IMU HEATER CURRENT
51 HI, 50 LO IMU BLOWER CURRENT
J3 28 X PIPA COMMAND LO
6 PIPA REF COMMAND LO
J4 A HI, B LO, C SHIELD PIPA HARDLINE
J1 32 HI, 15 LO PH DIFF 3.2 KC 28V SUPP-CGC
J2 6 LO, 17 HI CGC TEMPERATURE
J3 8 OVDC AGC DAC #2
22 OVDC AGC DAC #1
18 R START CONTROL ENABLED (LO)
J2 5 LO, 16 HI PIPA CAL MOD TEMP
J3 20 CONTROL 2 (ACE)
39 CONTROL 1 (ACE)
32 IG, 16 MG, 34 OG SERVO TEST COMMAND (LO)
J1 85 +14VDC CGC SUPP, NOISE RMS
84 HI, 60 LO +14 VDC CGC SUPP, DC LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI, 58 LO +4 VDC CGC SUPP, DC LEVEL
J2 85 HI +14VDC CGC SUPP, NOISE PEAKS
R1 4.53K
R2 4.53K
A60
A22A
A2
A59A
A59B
A47
A48
K10 CR10 IN645
K9 CR9 IN645
K8 CR8 IN645
K7 CR7 IN645
K6 CR6 IN645
K5 CR5 IN645
K4 CR4 IN645
K3 CR3 IN645
K2 CR2 IN645
K1 CR1 IN645
F1 0.5 A
S1 POWER
S2 ACCEL MON
C1
E1
S3 INHIBIT VOLTAGE FAIL
S6 IG SERVO TEST
S5 MG SERVO TEST
S4 OG SERVO TEST
J6 60 HI, 61 LO Z PIPA G/S OUTPUT
57, 58, 59 28 VDC IMU STANDBY (PSAAM PWR)
19 HI, 37 LO Y PIPA G/S OUTPUT
38 HI, 20 LO X PIPA G/S OUTPUT
J7 57, 58, 59 28 VDC IMU STANDBY (PSAAM PWR)
60 HI, 61 LO Z PIPA G/S OUTPUT
37 LO, 19 HI Y PIPA G/S OUTPUT
20 LO, 38 HI X PIPA G/S OUTPUT
J5 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
50 RFI EMI SHIELD
57 LO, 56 HI 3200 CPS 28V 1% MON
J8 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
56 HI, 57 LO 3200 CPS 28V 1% MON
J6 50 RFI EMI SHIELD
42 O VDC COMPUTER T.P.
25 STRUCTURE GROUND SHIELD
45 HI, 46 LO 3.2 KPPS PH A
J7 25 STRUCTURE GROUND SHIELD
45 HI, 46 LO 3.2 KPPS PH A
42 O VDC COMPUTER T.P.
39 .INHIBIT POWER FAIL
40 ACE BIAS 1
21 ACE BIAS 2
8 HI, 2 LO CGC TEMPERATURE MON
J6 2 LO, 8 HI CGC TEMPERATURE MON
21 ACE BIAS 2
40 ACE BIAS 1
39 INHIBIT POWER FAIL
32 LO, 54 HI PIPA CAL MOD TEMP
18 IG, 6 MG, 7 OG SERVO AMP TEST INPUT
22 +14 VDC CGC T.P.
J7 54 HI, 32 LO PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG, 18 IG, 7 OG SERVO AMP TEST INPUT
9 +4 VDC CGC T.P.
47 HI, 48 RETURN +120 VDC PIPA

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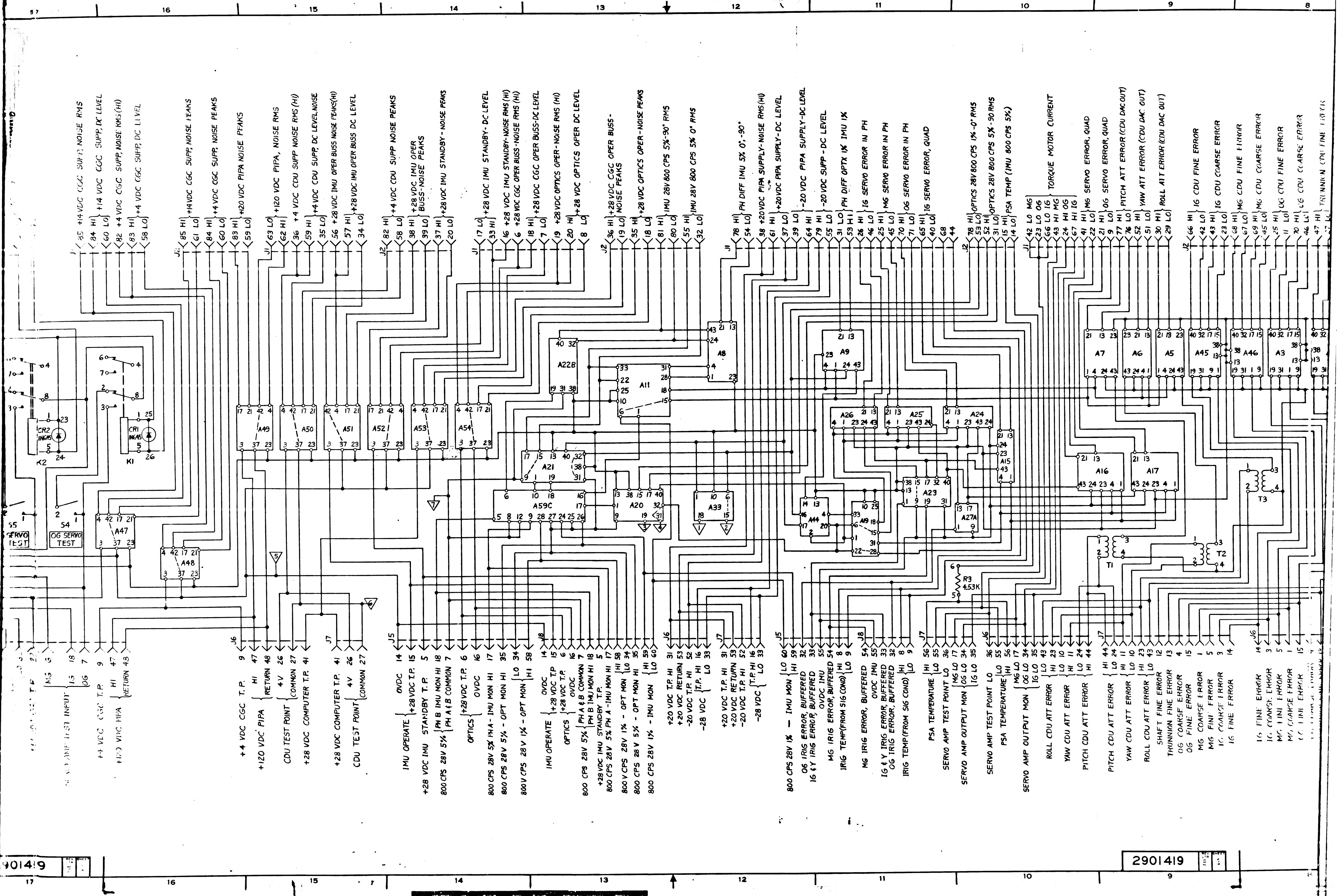
17
16
15
14
13
12
11
10
9
8
J1
85 +14 VDC CGC SUPP NOISE RMS
84 HI, 60 LO +14 VDC CGC SUPP, DC LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI, 58 LO +4 VDC CGC SUPP, DC LEVEL
J2
85 HI, 61 LO +14 VDC CGC SUPP, NOISE PEAKS
84 HI, 60 LO +4 VDC CGC SUPP, NOISE PEAKS
83 HI, 59 LO +120 VDC PIPA NOISE PEAKS
J1
63 LO, 62 HI +120 VDC PIPA, NOISE RMS
36 +4 VDC CDU SUPP NOISE RMS (HI)
59 HI, 35 LO +4 VDC CDU SUPP, DC LEVEL, NOISE
56 +28 VDC IMU OPER BUSS NOISE PEAKS (HI)
57 HI, 34 LO +28 VDC IMU OPER BUSS DC LEVEL
J2
82 HI, 58 LO +4 VDC CDU SUPP NOISE PEAKS
38 HI, 39 LO +28 VDC IMU OPER BUSS-NOISE PEAKS
37 HI, 20 LO +28 VDC IMU STANDBY - NOISE PEAKS
J1
17 LO, 33 HI +28 VDC IMU STANDBY - DC LEVEL
16 +28 VDC IMU STANDBY-NOISE RMS (HI)
6 +28 VDC CGC OPER BUSS-NOISE RMS (HI)
18 HI, 7 LO +28 VDC CGC OPER BUSS-DC LEVEL
19 +28 VDC OPTICS OPER-NOISE RMS (HI)
20 HI, 8 LO +28 VDC OPTICS OPER DC LEVEL
J2
36 HI, 19 LO +28 VDC CGC OPER BUSS-NOISE PEAKS
35 HI, 18 LO +28 VDC OPTICS OPER-NOISE PEAKS
81 HI, 80 LO IMU 28V 800 CPS 5% -90° RMS
55 HI, 32 LO IMU 28V 800 CPS 5% 0° RMS
J1
78 HI, 54 LO PH DIFF IMU 5% 0°, -90°
38 +20 VDC PIPA SUPPLY-NOISE RMS (HI)
61 HI, 37 LO +20 VDC PIPA SUPPLY-DC LEVEL
39 LO, 64 HI -20 VDC PIPA SUPPLY-DC LEVEL
79 HI, 55 LO -20 VDC SUPP - DC LEVEL
31 LO, 53 HI PH DIFF OPTX 1% IMU 1%
26 HI, 46 LO IG SERVO ERROR IN PH
25 HI, 45 LO MG SERVO ERROR IN PH
70 HI, 71 LO OG SERVO ERROR IN PH
65 HI, 40 LO IG SERVO ERROR, QUAD
68
44
J2
78 HI, 53 LO OPTICS 28V 800 CPS 1% -0° RMS
52 HI, 31 LO OPTICS 28V 800 CPS 5% -90 RMS
15 HI, 14 LO PSA TEMP (IMU 800 CPS 5%)
J1
42 LO MG
23 LO OG
66 LO IG
43 HI MG
24 HI OG
67 HI IG
TORQUE MOTOR CURRENT
41 HI, 22 LO MG SERVO ERROR, QUAD
21 HI, 9 LO OG SERVO ERROR, QUAD
77 HI, 76 LO PITCH ATT ERROR (CDU DAC OUT)
52 HI, 51 LO YAW ATT ERROR (CDU DAC OUT)
30 HI, 29 LO ROLL ATT ERROR (CDU DAC OUT)
J2
66 HI, 42 LO IG CDU FINE ERROR
43 HI, 23 LO IG CDU COARSE ERROR
68 HI, 67 LO MG CDU FINE ERROR
69 HI, 45 LO MG CDU COARSE ERROR
25 HI, 11 LO OG CDU FINE ERROR
70 HI, 46 LO OG CDU COARSE ERROR
47 HI TRUNNION CDU FINE ERROR
A22B
40 32
19 31 38
A11
33 22 25 10 6
31 28 18 15
A8
43 21 13 24 1 4 23
A9
21 13 23 4 1 24 43
A26
A25
A24
A15
A21
17 15 13 40 32 38 31 9 1 19
A59C
6 10 18 16 17 5 8 12 9 28 27 24 25 26
A20
13 38 15 17 40 1 9 32 31
A33
1 10 6 18 15
A44
A19
A23
38 15 17 32 40 13 1 9 19 31
A27A
13 17 1 9
A16
A17
A7
A6
A5
A45
A46
A3
21 13 23
1 4 24 43
40 32 17 15 38 13 19 31 9 1
A49
A50
A51
A52
A53
A54
17 21 42 4
3 37 23
A47
A48
4 42 17 21
3 37 23
K2
K1
CR2 IN645
CR1 IN645
23 24 25 26
S5 SERVO TEST
S4 OG SERVO TEST
T1
T2
T3
R3 4.53K
1
2
3
4
5
6
7
J6
9 +4 VDC CGC T.P.
47 HI, 48 RETURN +120 VDC PIPA
26 4V, 27 COMMON CDU TEST POINT
41 +28 VDC COMPUTER T.P.
J7
41 +28 VDC COMPUTER T.P.
26 4V, 27 COMMON CDU TEST POINT
J5
14 OVDC, 15 +28 VDC T.P. IMU OPERATE
5 +28 VDC IMU STANDBY T.P.
18 PH B IMU MON HI, 7 PH A & B COMMON 800 CPS 28V 5%
6 +28 VDC T.P., 16 OVDC OPTICS
17 800 CPS 28V 5% PH A - IMU MON HI
35 800 CPS 28V 5% - OPT MON HI
34 LO, 58 HI 800 V CPS 28V 1% - OPT MON
J8
14 OVDC, 15 +28 VDC T.P IMU OPERATE
6 +28 VDC T.P., 16 OVDC OPTICS
7 PH A & B COMMON, 18 PH B IMU MON HI 800 CPS 28V 5%
5 +28 VDC IMU STANDBY T.P.
17 800 CPS 28V 5% PH A - IMU MON HI
58 HI, 34 LO 800 V CPS 28V 1% - OPT MON
35 800 CPS 28 V 5% - OPT MON HI
59 HI, 60 LO 800 CPS 28V 1% - IMU MON
J6
31 +20 VDC T.P. HI
53 +20 VDC RETURN
52 -20 VDC T.P. HI
16 T.P. HI, 33 LO -28 VDC
J7
31 +20 VDC T.P. HI
53 +20 VDC RETURN
52 -20 VDC T.P. HI
16 T.P. HI, 33 LO -28 VDC
J5
60 LO, 59 HI 800 CPS 28V 1% — IMU MON
32 OG IRIG ERROR, BUFFERED
33 IG & Y IRIG ERROR, BUFFERED
55 OVDC IMU
54 MG IRIG ERROR, BUFFERED
8 HI, 9 LO IRIG TEMP (FROM SIG COND)
J8
54 MG IRIG ERROR, BUFFERED
55 OVDC IMU
33 IG & Y IRIG ERROR, BUFFERED
32 OG IRIG ERROR, BUFFERED
8 HI, 9 LO IRIG TEMP (FROM SIG COND)
J7
56 HI, 55 LO PSA TEMPERATURE
36 SERVO AMP TEST POINT LO
17 MG LO, 34 OG LO, 35 IG LO SERVO AMP OUTPUT MON
J6
36 SERVO AMP TEST POINT LO
55 LO, 56 HI PSA TEMPERATURE
17 MG LO, 34 OG LO, 35 IG LO SERVO AMP OUTPUT MON
43 LO, 23 HI ROLL CDU ATT ERROR
10 LO, 11 HI YAW CDU ATT ERROR
24 LO, 44 HI PITCH CDU ATT ERROR
J7
44 HI, 24 LO PITCH CDU ATT ERROR
11 HI, 10 LO YAW CDU ATT ERROR
23 HI, 43 LO ROLL CDU ATT ERROR
12 SHAFT FINE ERROR
13 TRUNNION FINE ERROR
4 OG COARSE ERROR
15 OG FINE ERROR
1 MG COARSE ERROR
5 MG FINE ERROR
3 IG COARSE ERROR
14 IG FINE ERROR
J6
14 IG FINE ERROR
3 IG COARSE ERROR
5 MG FINE ERROR
1 MG COARSE ERROR
15 OG FINE ERROR
T.P.
SERVO AMP TEST INPUT MG 6, IG 18, OG 7
9 +4 VDC CGC T.P.
47 HI, 48 RETURN +120 VDC PIPA

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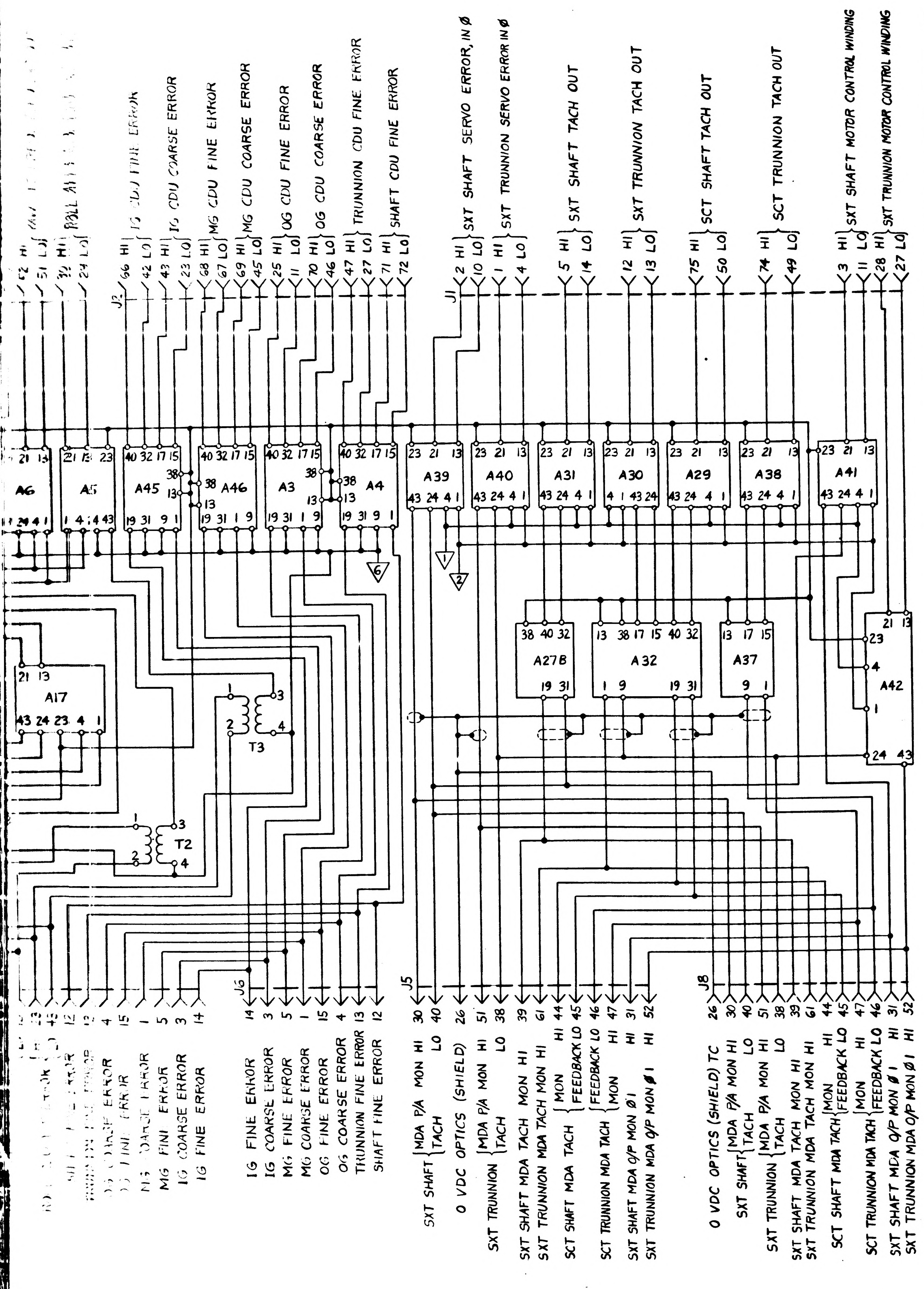

J2
66 HI
42 LO
IG CDU FINE ERROR
43 HI
23 LO
IG CDU COARSE ERROR
68 HI
67 LO
MG CDU FINE ERROR
69 HI
45 LO
MG CDU COARSE ERROR
25 HI
11 LO
OG CDU FINE ERROR
70 HI
46 LO
OG CDU COARSE ERROR
47 HI
27 LO
TRUNNION CDU FINE ERROR
71 HI
72 LO
SHAFT CDU FINE ERROR
J1
2 HI
10 LO
SXT SHAFT SERVO ERROR, IN Ø
1 HI
4 LO
SXT TRUNNION SERVO ERROR IN Ø
5 HI
14 LO
SXT SHAFT TACH OUT
12 HI
13 LO
SXT TRUNNION TACH OUT
75 HI
50 LO
SCT SHAFT TACH OUT
74 HI
49 LO
SCT TRUNNION TACH OUT
3 HI
11 LO
SXT SHAFT MOTOR CONTROL WINDING
28 HI
27 LO
SXT TRUNNION MOTOR CONTROL WINDING
ROLL ATT
A6
A5
A45
A46
A3
A4
A39
A40
A31
A30
A29
A38
A41
A27B
A32
A37
A42
A17
T3
T2
1
2
6
J6
14 IG FINE ERROR
3 IG COARSE ERROR
5 MG FINE ERROR
1 MG COARSE ERROR
15 OG FINE ERROR
4 OG COARSE ERROR
13 TRUNNION FINE ERROR
12 SHAFT FINE ERROR
J5
30 SXT SHAFT MDA P/A MON HI
40 LO
26 0 VDC OPTICS (SHIELD)
51 SXT TRUNNION MDA P/A MON HI
38 TACH LO
39 SXT SHAFT MDA TACH MON HI
61 SXT TRUNNION MDA TACH MON HI
44 SCT SHAFT MDA TACH MON HI
45 FEEDBACK LO
46 SCT TRUNNION MDA TACH FEEDBACK LO
47 MON HI
31 SXT SHAFT MDA O/P MON Ø1 HI
52 SXT TRUNNION MDA O/P MON Ø1 HI
J8
26 0 VDC OPTICS (SHIELD) TC
30 SXT SHAFT MDA P/A MON HI
40 TACH LO
51 SXT TRUNNION MDA P/A MON HI
38 TACH LO
39 SXT SHAFT MDA TACH MON HI
61 SXT TRUNNION MDA TACH MON HI
44 SCT SHAFT MDA TACH MON HI
45 FEEDBACK LO
47 SCT TRUNNION MDA TACH MON HI
46 FEEDBACK LO
31 SXT SHAFT MDA O/P MON Ø1 HI
52 SXT TRUNNION MDA O/P MON Ø1 HI

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E16	CR1	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
E17	CR2	IN645 (1896966-004)		
E17	CR3	IN645 (1896966-004)		
E18	CR4	IN645 (1896966-004)		
E19	CR5	IN645 (1896966-004)		
E19	CR6	IN645 (1896966-004)		
D21	CR7	IN645 (1896966-004)		
D21	CR8	IN645 (1896966-004)		
D22	CR9	IN645 (1896966-004)		
D23	CR10	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
C20	E1			
D22	F1	F02B250V1/2A (1897099-025)	FUSE-CARTRIDGE MIL-F-15160/02	.5 AMP
	J1	1897247-002	CONNECTOR	
	J2	1897247-003		
	J3	1897252-109		
	J4	MS3102R14S-7S(C) (1896916-107)		
	J5	1897252-107		
	J6	1897252-106		
	J7	1897247-006		
	J8	1897247-007	CONNECTOR	
E16	K1	1015832-118	RELAY	
E17	K2			
E17	K3			
E18	K4			
E19	K5			
E19	K6			
D21	K7			
D22	K8			
D22	K9			
D23	K10	1015832-118	RELAY	
F20	R1	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
F19	R2	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C10	R3	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53K ±1%
C22	S1	1016265-004	SWITCH-TOGGLE	
C21	S2	1897379-001	-ROTARY	
D19	S3	1016265-004	-TOGGLE	
D17	S4	-006		
D17	S5	-006		
C18	S6	1016265-006	SWITCH-TOGGLE	
C 9	T1	1897413	TRANSFORMER	
C 9	T2	1897413	TRANSFORMER	
D 8	T3	1897413	TRANSFORMER	
	XF1	MS26572-1	FUSEHOLDER	

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E20	A2	2901063-011	PHASE DIFF CKT	2900988
E8	A3	1902433-011	AC AMPLIFIER	1902451
E8	A4	1902433-011	AC AMPLIFIER	1902451
E9	A5	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E9	A6			
E9	A7			
F12	A8			
E11	A9	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A10		NOT USED	
E13	A11	2901203-011	CONVERTER, WAVE FORM	2901213
	A12		NOT USED	
	A13		NOT USED	
	A14		NOT USED	
D10	A15	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A16	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A17	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
	A18		NOT USED	
C11	A19	2901203-011	CONVERTER, WAVE FORM	2901213
D13	A20	1902433-011	AC AMPLIFIER	1902451
D13	A21			
▷	A22			
D11	A23	1902433-011	AC AMPLIFIER	1902451
E10	A24	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A25	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A26	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
▷	A27	1902433-011	AC AMPLIFIER	1902451
	A28		NOT USED	
E7	A29	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A30	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A31	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
D7	A32	1902433-011	AC AMPLIFIER	1902451
D12	A33	2901203-011	CONVERTER, WAVE FORM	2901213
	A34		NOT USED	
	A35		NOT USED	
	A36		NOT USED	
D6	A37	1902433-011	AC AMPLIFIER	1902451
E6	A38	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E8	A39			
E7	A40			
E6	A41			
D6	A42	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A43		NOT USED	
D11	A44	2901147-011	PHASE SHIFTER, 90°	2900989
E9	A45	1902433-011	AC AMPLIFIER	1902451
E8	A46	1902433-011	AC AMPLIFIER	1902451
D16	A47	2901154-011	GLITCH DETECTOR	2901155
C16	A48			
E15	A49			
E15	A50			
E15	A51			
E14	A52			
E14	A53			
E14	A54	2901154-011	GLITCH DETECTOR	2901155
	A55		NOT USED	
	A56			
	A57			
	A58		NOT USED	
▷	A59	2901168-011	ATTENUATOR	2901215
F20	A60	1902434-011	LINE DRIVE AMPLIFIER	1902448

REVISIONS

ZONE	LTR	DESCRIPTION	CHG NO	DATE	APPROVE
	A	REVISED PER MXC 211816		27 APR 66	3 RWH
	B	INITIAL RELEASE CLASS A PER TDRR 2264.		[illegible] 66	[illegible]
	C	REVISED PER TDRR 29636		23 JUL 66	[illegible]
	D	REVISED PER TDRR 29[illegible]3		4 JUL 66	LK
	E	REVISED PER TDRR 30489		[illegible]	[illegible]

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN W. Munson DATE 11 APR 66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PSA ADAPTER MODULE
(BLOCK II)

SIZE J3 CODE IDENT NO. 99974 2901419
SCALE — SHEET OF 1

2901419

3/2901419

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

2901143-011	ASSEMBLY DRAWING
2901144	WIRING HARNESS A
2901458	LEAD SET A-A

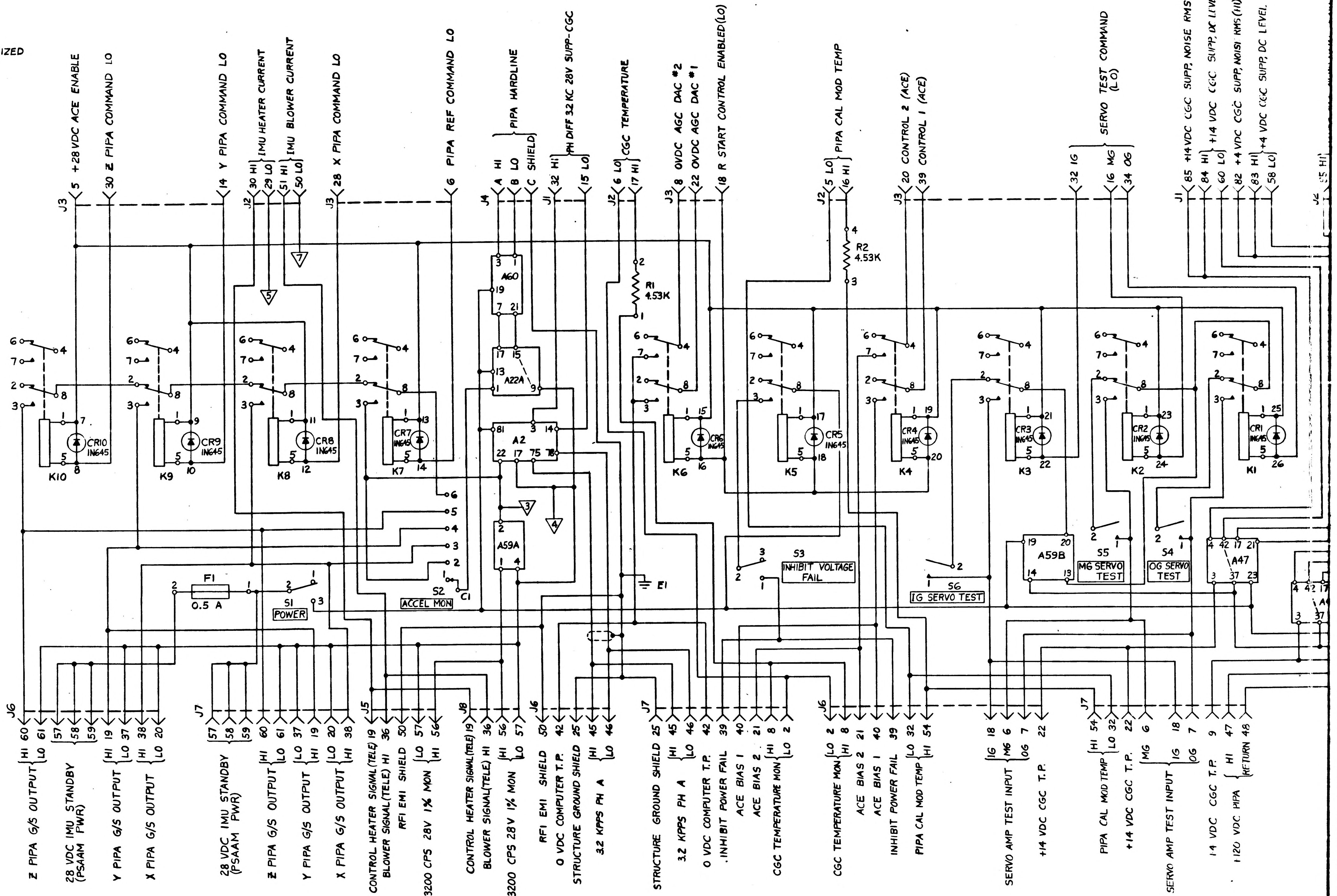
4. RELAYS ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
5. LAST NUMBER USED ▽ = 7
6. SIGNAL DESCRIPTIONS:
   - ▽1 PSD REF HI
   - ▽2 PSD REF LO
   - ▽3 3200 CPS BUFFERED HI
   - ▽4 3200 CPS 28V 1% MON LO
   - ▽5 IMU *OPERATE OVDC*
   - ▽6 CDU TEST POINT COMMON
   - ▽7 IMU BLOWER CURRENT LO

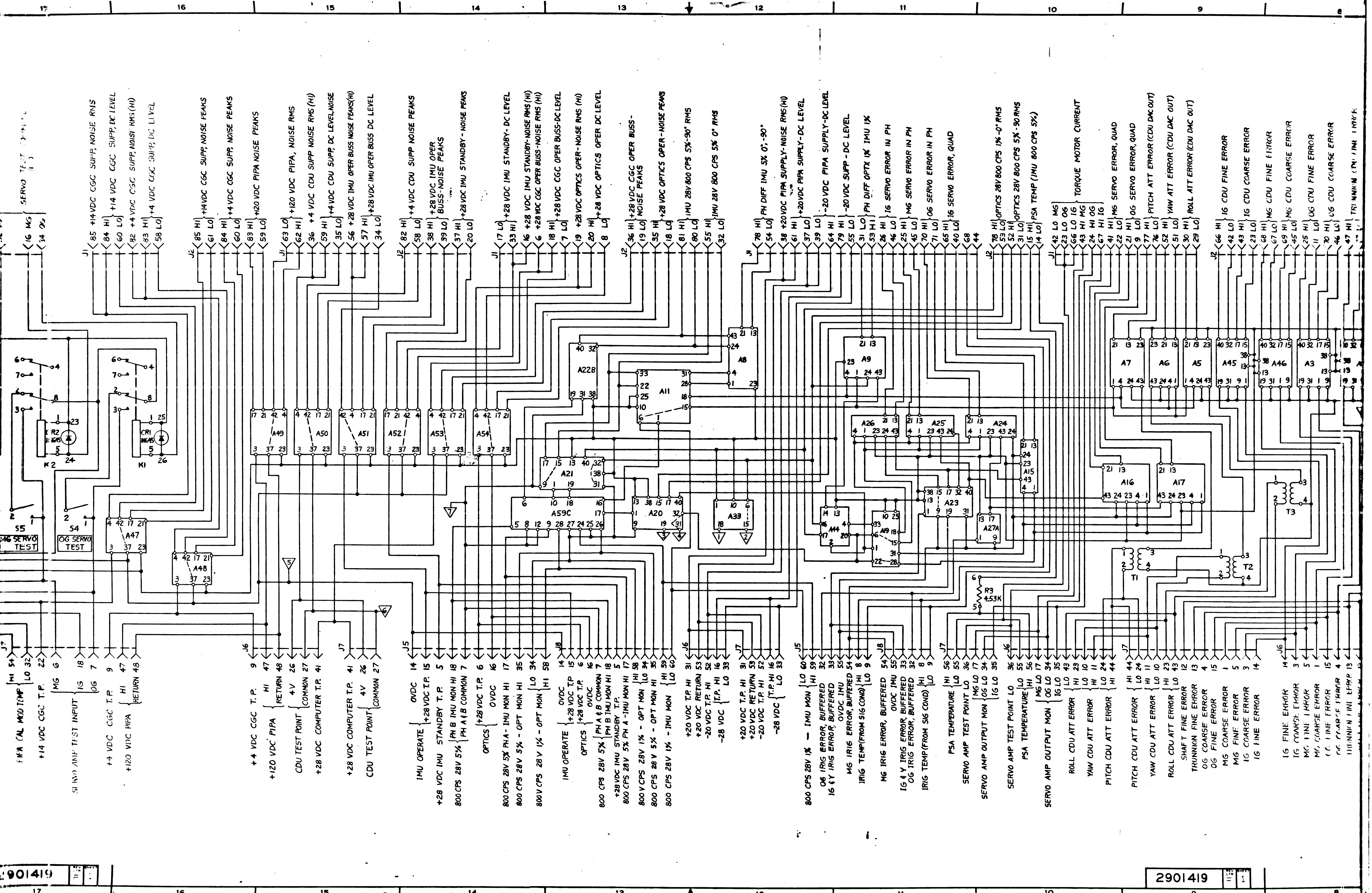
UNUSED TERMINALS

REF DES	TERMINAL NO.
K1	4,6,7
K2	4,6,7
K3	4,6,7
K4	2,6
K5	2,4,6,7
K6	2,6
K7	4,6,7
K8	4,6,7
K9	4,6,7
K10	4,6,7
S1	1
S2	6
S3	3
J1	47,48,69,72,73,80,81
J2	1-4, 7-10,12,13,21,22,24, 26,28,33,34,40,41,44,48 49,54,56,57,62-65, 73-77,79
J3	1-4, 7, 9-13,15,17,19,21,23-27, 29,31,33,35-38,40 44
J5	1-4,10-13, 20-25,27,28,29, 37,41,42,43,48,49,53
J6	28,29,30, 49,51
J7	28,29,30, 49,50,51
J8	1-4, 10-13,20-25,27,28,29, 37,41,42,43,48,49,50,53

▷1 SEPARATED SYMBOL LOCATIONS

REF DES	ZONE
A22A,B	E20, E13
A27A,B	D10, D7
A59A,B,C	D20, D17, D13


J3 5 +28VDC ACE ENABLE
30 Z PIPA COMMAND LO
14 Y PIPA COMMAND LO
J2 30 HI, 29 LO IMU HEATER CURRENT
51 HI, 50 LO IMU BLOWER CURRENT
J3 28 X PIPA COMMAND LO
6 PIPA REF COMMAND LO
J4 A HI, B LO, C SHIELD PIPA HARDLINE
J1 32 HI, 15 LO PH DIFF 3.2 KC 28V SUPP-CGC
J2 6 LO, 17 HI CGC TEMPERATURE
J3 8 OVDC AGC DAC #2
22 OVDC AGC DAC #1
18 R START CONTROL ENABLED (LO)
J2 5 LO, 16 HI PIPA CAL MOD TEMP
J3 20 CONTROL 2 (ACE)
39 CONTROL 1 (ACE)
32 IG, 16 MG, 34 OG SERVO TEST COMMAND (LO)
J1 85 +14VDC CGC SUPP, NOISE RMS
84 HI, 60 LO +14 VDC CGC SUPP, DC LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI, 58 LO +4 VDC CGC SUPP, DC LEVEL
J2
R1 4.53K
R2 4.53K
A60
A22A
A2
A59A
A59B
A47
K10 CR10 IN645
K9 CR9 IN645
K8 CR8 IN645
K7 CR7 IN645
K6 CR6 IN645
K5 CR5 IN645
K4 CR4 IN645
K3 CR3 IN645
K2 CR2 IN645
K1 CR1 IN645
F1 0.5 A
S1 POWER
S2 ACCEL MON
C1
E1
S3 INHIBIT VOLTAGE FAIL
S6 IG SERVO TEST
S5 MG SERVO TEST
S4 OG SERVO TEST
J6 60 HI, 61 LO Z PIPA G/S OUTPUT
57, 58, 59 28 VDC IMU STANDBY (PSAAM PWR)
19 HI, 37 LO Y PIPA G/S OUTPUT
38 HI, 20 LO X PIPA G/S OUTPUT
J7 57, 58, 59 28 VDC IMU STANDBY (PSAAM PWR)
60 HI, 61 LO Z PIPA G/S OUTPUT
37 LO, 19 HI Y PIPA G/S OUTPUT
20 LO, 38 HI X PIPA G/S OUTPUT
J5 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
50 RFI EMI SHIELD
57 LO, 56 HI 3200 CPS 28V 1% MON
J8 19 CONTROL HEATER SIGNAL (TELE)
36 BLOWER SIGNAL (TELE) HI
56 HI, 57 LO 3200 CPS 28V 1% MON
J6 50 RFI EMI SHIELD
42 0 VDC COMPUTER T.P.
25 STRUCTURE GROUND SHIELD
45 HI, 46 LO 3.2 KPPS PH A
J7 25 STRUCTURE GROUND SHIELD
45 HI, 46 LO 3.2 KPPS PH A
42 0 VDC COMPUTER T.P.
39 INHIBIT POWER FAIL
40 ACE BIAS 1
21 ACE BIAS 2
8 HI, 2 LO CGC TEMPERATURE MON
J6 2 LO, 8 HI CGC TEMPERATURE MON
21 ACE BIAS 2
40 ACE BIAS 1
39 INHIBIT POWER FAIL
32 LO, 54 HI PIPA CAL MOD TEMP
18 IG, 6 MG, 7 OG SERVO AMP TEST INPUT
22 +14 VDC CGC T.P.
J7 54 HI, 32 LO PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG, 18 IG, 7 OG SERVO AMP TEST INPUT
9 14 VDC CGC T.P.
47 HI, 48 RETURN 120 VDC PIPA


17
16
15
14
13
12
11
10
9
8
SERVO TEST
16 MG
34 OG
J1
85 +14 VDC CGC SUPP, NOISE RMS
84 HI
60 LO
+14 VDC CGC SUPP, DC LEVEL
82 +4 VDC CGC SUPP, NOISE RMS (HI)
83 HI
58 LO
+4 VDC CGC SUPP, DC LEVEL
J2
85 HI
61 LO
+14 VDC CGC SUPP, NOISE PEAKS
84 HI
60 LO
+4 VDC CGC SUPP, NOISE PEAKS
83 HI
59 LO
+120 VDC PIPA NOISE PEAKS
J1
63 LO
62 HI
+120 VDC PIPA, NOISE RMS
36 +4 VDC CDU SUPP NOISE RMS (HI)
59 HI
35 LO
+4 VDC CDU SUPP, DC LEVEL, NOISE
56 +28 VDC IMU OPER BUSS NOISE PEAKS (HI)
57 HI
34 LO
+28 VDC IMU OPER BUSS DC LEVEL
J2
82 HI
58 LO
+4 VDC CDU SUPP NOISE PEAKS
38 HI
39 LO
+28 VDC IMU OPER BUSS-NOISE PEAKS
37 HI
20 LO
+28 VDC IMU STANDBY - NOISE PEAKS
J1
17 LO
33 HI
+28 VDC IMU STANDBY - DC LEVEL
16 +28 VDC IMU STANDBY-NOISE RMS (HI)
6 +28 VDC CGC OPER BUSS-NOISE RMS (HI)
18 HI
7 LO
+28 VDC CGC OPER BUSS-DC LEVEL
19 +28 VDC OPTICS OPER-NOISE RMS (HI)
20 HI
8 LO
+28 VDC OPTICS OPER DC LEVEL
J2
36 HI
19 LO
+28 VDC CGC OPER BUSS-NOISE PEAKS
35 HI
18 LO
+28 VDC OPTICS OPER-NOISE PEAKS
81 HI
80 LO
IMU 28V 800 CPS 5% -90° RMS
55 HI
32 LO
IMU 28V 800 CPS 5% 0° RMS
J1
78 HI
54 LO
PH DIFF IMU 5% 0°, -90°
38 +20 VDC PIPA SUPPLY-NOISE RMS (HI)
61 HI
37 LO
+20 VDC PIPA SUPPLY-DC LEVEL
39 LO
64 HI
-20 VDC PIPA SUPPLY-DC LEVEL
79 HI
55 LO
-20 VDC SUPP - DC LEVEL
31 LO
53 HI
PH DIFF OPTX 1% IMU 1%
26 HI
46 LO
IG SERVO ERROR IN PH
25 HI
45 LO
MG SERVO ERROR IN PH
70 HI
71 LO
OG SERVO ERROR IN PH
65 HI
40 LO
IG SERVO ERROR, QUAD
68
44
J2
78 HI
53 LO
OPTICS 28V 800 CPS 1% -0° RMS
52 HI
31 LO
OPTICS 28V 800 CPS 5% -90 RMS
15 HI
14 LO
PSA TEMP (IMU 800 CPS 5%)
J1
42 LO MG
23 LO OG
66 LO IG
43 HI MG
24 HI OG
67 HI IG
TORQUE MOTOR CURRENT
41 HI
22 LO
MG SERVO ERROR, QUAD
21 HI
9 LO
OG SERVO ERROR, QUAD
77 HI
76 LO
PITCH ATT ERROR (CDU DAC OUT)
52 HI
51 LO
YAW ATT ERROR (CDU DAC OUT)
30 HI
29 LO
ROLL ATT ERROR (CDU DAC OUT)
J2
66 HI
42 LO
IG CDU FINE ERROR
43 HI
23 LO
IG CDU COARSE ERROR
68 HI
67 LO
MG CDU FINE ERROR
69 HI
45 LO
MG CDU COARSE ERROR
25 HI
11 LO
OG CDU FINE ERROR
70 HI
46 LO
OG CDU COARSE ERROR
47 HI
TRUNNION CDU FINE ERROR
K2
R2
1N645
K1
CR1
1N645
S5
MG SERVO TEST
S4
OG SERVO TEST
A47
A48
A49
A50
A51
A52
A53
A54
A22B
A21
A59C
A11
A20
A33
A8
A9
A26
A25
A24
A15
A44
A19
A23
A27A
A16
A17
A7
A6
A5
A45
A46
A3
T1
T2
T3
R3
4.53K
J7
HI 54
LO 32
PIPA CAL MOD TEMP
22 +14 VDC CGC T.P.
6 MG
18 IG
7 OG
SERVO AMP TEST INPUT
9 +4 VDC CGC T.P.
47 HI
48 RETURN
+120 VDC PIPA
J6
9 +4 VDC CGC T.P.
47 HI
48 RETURN
+120 VDC PIPA
26 4V
27 COMMON
CDU TEST POINT
41 +28 VDC COMPUTER T.P.
J7
41 +28 VDC COMPUTER T.P.
26 4V
27 COMMON
CDU TEST POINT
J5
14 OVDC
15 +28 VDC T.P.
IMU OPERATE
5 +28 VDC IMU STANDBY T.P.
18 PH B IMU MON HI
7 PH A & B COMMON
800 CPS 28V 5%
6 +28 VDC T.P.
16 OVDC
OPTICS
17 800 CPS 28V 5% PH A - IMU MON HI
35 800 CPS 28V 5% - OPT MON HI
34 LO
58 HI
800 V CPS 28V 1% - OPT MON
J8
14 OVDC
15 +28 VDC T.P.
IMU OPERATE
6 +28 VDC T.P.
16 OVDC
OPTICS
7 PH A & B COMMON
18 PH B IMU MON HI
800 CPS 28V 5%
5 +28 VDC IMU STANDBY T.P.
17 800 CPS 28V 5% PH A - IMU MON HI
58 HI
34 LO
800 V CPS 28V 1% - OPT MON
35 800 CPS 28V 5% - OPT MON HI
59 HI
60 LO
800 CPS 28V 1% - IMU MON
J6
31 +20 VDC T.P. HI
53 +20 VDC RETURN
52 -20 VDC T.P. HI
16 T.P. HI
33 LO
-28 VDC
J7
31 +20 VDC T.P. HI
53 +20 VDC RETURN
52 -20 VDC T.P. HI
16 T.P. HI
33 LO
-28 VDC
J5
60 LO
59 HI
800 CPS 28V 1% — IMU MON
32 OG IRIG ERROR, BUFFERED
33 IG & Y IRIG ERROR, BUFFERED
55 OVDC IMU
54 MG IRIG ERROR, BUFFERED
8 HI
9 LO
IRIG TEMP (FROM SIG COND)
J8
54 MG IRIG ERROR, BUFFERED
55 OVDC IMU
33 IG & Y IRIG ERROR, BUFFERED
32 OG IRIG ERROR, BUFFERED
8 HI
9 LO
IRIG TEMP (FROM SIG COND)
J7
56 HI
55 LO
PSA TEMPERATURE
36 SERVO AMP TEST POINT LO
17 MG LO
34 OG LO
35 IG LO
SERVO AMP OUTPUT MON
J6
36 SERVO AMP TEST POINT LO
55 LO
56 HI
PSA TEMPERATURE
17 MG LO
34 OG LO
35 IG LO
SERVO AMP OUTPUT MON
43 LO
23 HI
ROLL CDU ATT ERROR
10 LO
11 HI
YAW CDU ATT ERROR
24 LO
44 HI
PITCH CDU ATT ERROR
J7
44 HI
24 LO
PITCH CDU ATT ERROR
11 HI
10 LO
YAW CDU ATT ERROR
23 HI
43 LO
ROLL CDU ATT ERROR
12 SHAFT FINE ERROR
13 TRUNNION FINE ERROR
4 OG COARSE ERROR
15 OG FINE ERROR
1 MG COARSE ERROR
5 MG FINE ERROR
3 IG COARSE ERROR
14 IG FINE ERROR
J6
14 IG FINE ERROR
3 IG COARSE ERROR
5 MG FINE ERROR
1 MG COARSE ERROR
15 OG FINE ERROR
4 OG COARSE ERROR
13 TRUNNION FINE ERROR

2901419

2901419

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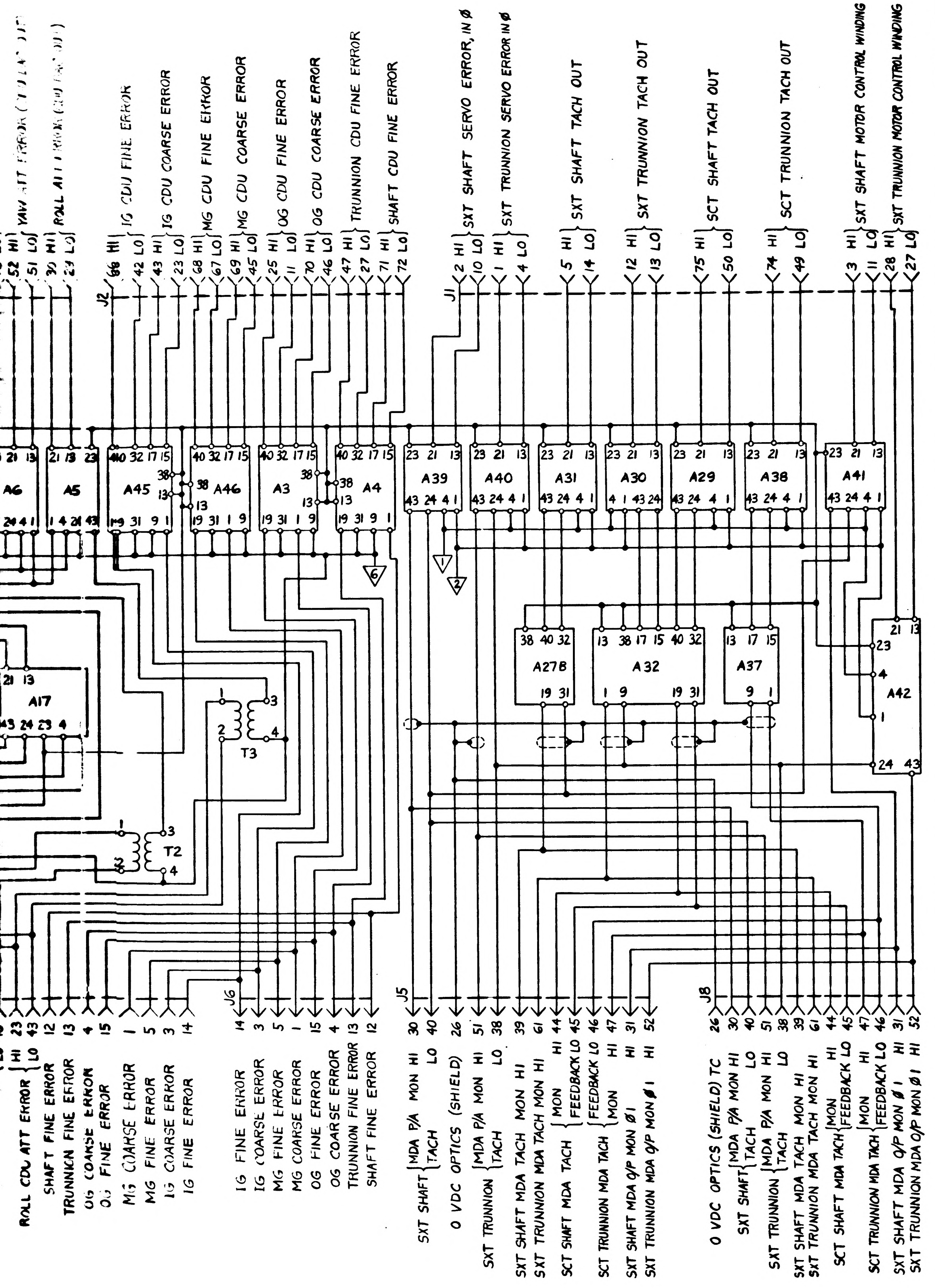

52 HI
51 LO
YAW ATT ERROR (CDU FINE OUT)
30 HI
23 LO
ROLL ATT ERROR (CDU FINE OUT)
J2
66 HI
42 LO
IG CDU FINE ERROR
43 HI
23 LO
IG CDU COARSE ERROR
68 HI
67 LO
MG CDU FINE ERROR
69 HI
45 LO
MG CDU COARSE ERROR
25 HI
11 LO
OG CDU FINE ERROR
70 HI
46 LO
OG CDU COARSE ERROR
47 HI
27 LO
TRUNNION CDU FINE ERROR
71 HI
72 LO
SHAFT CDU FINE ERROR
J1
2 HI
10 LO
SXT SHAFT SERVO ERROR, IN Ø
1 HI
4 LO
SXT TRUNNION SERVO ERROR IN Ø
5 HI
14 LO
SXT SHAFT TACH OUT
12 HI
13 LO
SXT TRUNNION TACH OUT
75 HI
50 LO
SCT SHAFT TACH OUT
74 HI
49 LO
SCT TRUNNION TACH OUT
3 HI
11 LO
SXT SHAFT MOTOR CONTROL WINDING
28 HI
27 LO
SXT TRUNNION MOTOR CONTROL WINDING
A6
A5
A45
A46
A3
A4
A39
A40
A31
A30
A29
A38
A41
A27B
A32
A37
A42
A17
T2
T3
1
2
6
J6
J5
J8
ROLL CDU ATT ERROR HI LO
SHAFT FINE ERROR
TRUNNION FINE ERROR
OG COARSE ERROR
OG FINE ERROR
MG COARSE ERROR
MG FINE ERROR
IG COARSE ERROR
IG FINE ERROR
IG FINE ERROR
IG COARSE ERROR
MG FINE ERROR
MG COARSE ERROR
OG FINE ERROR
OG COARSE ERROR
TRUNNION FINE ERROR
SHAFT FINE ERROR
SXT SHAFT MDA P/A MON HI
TACH LO
0 VDC OPTICS (SHIELD)
SXT TRUNNION MDA P/A MON HI
TACH LO
SXT SHAFT MDA TACH MON HI
SXT TRUNNION MDA TACH MON HI
SCT SHAFT MDA TACH MON HI
FEEDBACK LO
SCT TRUNNION MDA TACH FEEDBACK LO
MON HI
SXT SHAFT MDA O/P MON Ø 1 HI
SXT TRUNNION MDA O/P MON Ø 1 HI
0 VDC OPTICS (SHIELD) TC
SXT SHAFT MDA P/A MON HI
TACH LO
SXT TRUNNION MDA P/A MON HI
TACH LO
SXT SHAFT MDA TACH MON HI
SXT TRUNNION MDA TACH MON HI
SCT SHAFT MDA TACH MON HI
FEEDBACK LO
SCT TRUNNION MDA TACH MON HI
FEEDBACK LO
SXT SHAFT MDA O/P MON Ø 1 HI
SXT TRUNNION MDA O/P MON Ø 1 HI

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E16	CR1	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
E17	CR2	IN645 (1896966-004)		
E17	CR3	IN645 (1896966-004)		
E18	CR4	IN645 (1896966-004)		
E19	CR5	IN645 (1896966-004)		
E19	CR6	IN645 (1896966-004)		
D21	CR7	IN645 (1896966-004)		
D21	CR8	IN645 (1896966-004)		
D22	CR9	IN645 (1896966-004)		
D23	CR10	IN645 (1896966-004)	SEMICONDUCTOR MIL-S-19500	
C20	E1			
D22	F1	F02B250V1/2A (1897099-025)	FUSE-CARTRIDGE MIL-F-15160/02	.5 AMP
	J1	1897247-002	CONNECTOR	
	J2	1897247-003		
	J3	1897252-109		
	J4	MS3102R14S-7S(C) (1896916-107)		
	J5	1897252-107		
	J6	1897252-106		
	J7	1897247-006		
	J8	1897247-007	CONNECTOR	
E16	K1	1015832-118	RELAY	
E17	K2			
E17	K3			
E18	K4			
E19	K5			
E19	K6			
D21	K7			
D22	K8			
D22	K9			
D23	K10	1015832-118	RELAY	
F20	R1	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53 K ±1%
F19	R2	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53 K ±1%
C10	R3	RN60C4531F (1896976-352)	RESISTOR MIL-R-10509/1	4.53 K ±1%
C22	S1	1016265-004	SWITCH - TOGGLE	
C21	S2	1897379-001	- ROTARY	
D19	S3	1016265-004	- TOGGLE	
D17	S4	-006		
D17	S5	-006		
C18	S6	1016265-006	SWITCH - TOGGLE	
C 9	T1	1897413	TRANSFORMER	
C 9	T2	1897413	TRANSFORMER	
D 8	T3	1897413	TRANSFORMER	
	XF1	MS26572-1	FUSEHOLDER	

ZONE	REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAG OR VALUE, TOL & RATING
E20	A2	2901063-011	PHASE DIFF CKT	2900988
E8	A3	1902433-011	AC AMPLIFIER	1902451
E8	A4	1902433-011	AC AMPLIFIER	1902451
E9	A5	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E9	A6			
E9	A7			
F12	A8			
E11	A9	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A10		NOT USED	
E13	A11	2901203-011	CONVERTER, WAVE FORM	2901213
	A12		NOT USED	
	A13		NOT USED	
	A14		NOT USED	
D10	A15	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A16	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
D9	A17	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
	A18		NOT USED	
C11	A19	2901203-011	CONVERTER, WAVE FORM	2901213
D13	A20	1902433-011	AC AMPLIFIER	1902451
D13	A21			
▷	A22			
D11	A23	1902433-011	AC AMPLIFIER	1902451
E10	A24	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A25	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
E11	A26	2901176-021	PHASE SENSITIVE DEM ASSY	2901228
▷	A27	1902433-011	AC AMPLIFIER	1902451
	A28		NOT USED	
E7	A29	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A30	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E7	A31	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
D7	A32	1902433-011	AC AMPLIFIER	1902451
D12	A33	2901203-011	CONVERTER, WAVE FORM	2901213
	A34		NOT USED	
	A35		NOT USED	
	A36		NOT USED	
D6	A37	1902433-011	AC AMPLIFIER	1902451
E6	A38	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
E8	A39			
E7	A40			
E6	A41			
D6	A42	2901176-011	PHASE SENSITIVE DEM ASSY	2901227
	A43		NOT USED	
D11	A44	2901147-011	PHASE SHIFTER, 90°	2900989
E9	A45	1902433-011	AC AMPLIFIER	1902451
E8	A46	1902433-011	AC AMPLIFIER	1902451
D16	A47	2901154-011	GLITCH DETECTOR	2901155
C16	A48			
E15	A49			
E15	A50			
E15	A51			
E14	A52			
E14	A53			
E14	A54	2901154-011	GLITCH DETECTOR	2901155
	A55		NOT USED	
	A56			
	A57			
	A58		NOT USED	
▷	A59	2901168-011	ATTENUATOR	2901215
F20	A60	1902434-011	LINE DRIVE AMPLIFIER	1902448

REVISIONS

ZONE	LTR	DESCRIPTION	CHG NO.	DATE	APPROVE
	A	REVISED PER MXC 211816		27 APR 66	3 RWH
	B	INITIAL RELEASE CLASS A PER TDRR 2264		4 MAY 66	GC ET
	C	REVISED PER TDRR 29636		23 JUN 66	[illegible]
	D	REVISED PER TDRR 29973		14 JUL 66	LK RC
	E	REVISED PER TDRR 30489		[illegible]	[illegible]
	F	REVISED PER TDRR 30725		25 AUG 66	[illegible]

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ———
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN W. Munson DATE 11 APR 66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL
PSA ADAPTER MODULE
(BLOCK II)

SIZE	CODE IDENT NO.	
J3	99974	2901419

SCALE — SHEET 1 OF 1

2901419 F 1

37/2901419

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61867	31 MAR 66	JJJ JRC
B	REVISED PER D.O. 61883	5 APR 66	FRW
C	REVISED PER MXC 211541	21 APR 66	JHP/JRS
D	REVISED PER MXC 211990	2 MAY 66	LK
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF

[illegible] 25 MAR

REV	E	E	E	E	E	E	E
SHEET	21	22	23	24	25	26	27

REV STATUS OF SHEETS	REV	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66 (DAY MO YR)
CHECKER 25 MAR 66
ENGINEER 25 MAR 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED-
LEM SCA

SIZE A
CODE IDENT. NO 99974
2901420
SCALE NONE
SHEET 1 OF 27

MIL 1377A6 12-65

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEM 8 AND 9.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
8	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 14.
9	ASSEMBLE PER ND1002032.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SERIALIZE PER ND1002023.
12	ITEM 13 IS SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 12 IS SUPPLIED WITH ITEM 8.
13	MARK IDENTIFICATION BANDS AS NOTED IN TABLE I, PER ND1002019. CENTRALIZE.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 2 OF 27

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
16	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED CABLE DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF CABLE FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 3 OF 27

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901420-001	WIRE ND1002181 CLASS 1, TYPE 1, 22AWG, WHITE TOTAL LENGTH
	2	1	2901420-002	WIRE ND1002181 CLASS 1, TYPE 1, 24AWG, WHITE TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELECTRICAL
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR, RECEPTACLE, ELECTRICAL
5	8	1	1897250-001	CONNECTOR, PLUG, ELECTRICAL (PIN CONTACT)
	9	1	2901162-011	CONNECTOR, RECEPTACLE, ELECTRICAL
5	10	1	1010933-105	CLAMP, CABLE, ELECTRICAL
5	11	171	1897300-003	CONTACT, SPRING SOCKET
12	12	X	1897190- 1	CONTACT, ELECTRICAL PIN (FURNISHED WITH ITEM 8)
12	13	X	MS3192A-20A	(1896855-020) CONTACT-ELECTRICAL, PIN (FURNISHED WITH ITEM 3 THRU 7)
5	14	AR	1012507-004	TAPE, LACING AND TYING
14	15	AR	MIL-I-631, TYPE F, FORM T, BLACK, GRADE A, CLASS 1	FILLER TAPE .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 4 OF 27

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	9	1016128-011	BAND-IDENTIFICATION
5	17	14	1016006-001	SPLICE, REDUCER
5	18	1	1016006-002	SPLICE, REDUCER
5	19	2	1016006-003	SPLICE, REDUCER
5	20	14	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	21	1	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	22	2	1010490-256	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	23	171	1015864-232	INSULATION, SLEEVING, ELECTRICAL

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 5 OF 27

CABLE ASSEMBLY 2901420 ~~D~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-C2					.37 .18	NO NO		 11, 23	
A 2	1		E2 P1-A30					.37 .18	NO NO		 11, 23	
A 3	1		E2 P1-B30					.37 .18	NO NO		 11, 23	
A 4	1		F2 P1-C30					.37 .18	NO NO		 11, 23	
A 5	1		E2 P1-D30					.37 .18	NO NO		 11, 23	
A 6	1		E2 P1-F30					.37 .18	NO NO		 11, 23	
A 7	1		E2 P1-G30					.37 .18	NO NO		 11, 23	
A 8	1		E2 P1-A27					.37 .18	NO NO		 11, 23	
A 9	1		E2 P1-B27					.37 .18	NO NO		 11, 23	
A 10	1		E2 P1-C27					.37 .18	NO NO		 11, 23	
A 11	1		E2 P1-D27					.37 .18	NO NO		 11, 23	
A 12	1		E2 P1-B23					.37 .18	NO NO		 11, 23	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR ~~D~~ E		SHEET 6 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 ~~D~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E2 P1-D23					.37 .18	NO NO		 11, 23	
A 14	1		E2 P2-U*					.37 .22	NO NO		 13	
A 15	1		E3 P1-F3					.37 .18	NO NO		 11, 23	
A 16	1		E3 E4					.37 .37	NO NO			
A 17	1		E5 E6					.37 .37	NO NO			
A 18	1		E6 P1-F10					.37 .18	NO NO		 11, 23	
A 19	1		E8 P1-F8					.37 .18	NO NO		 11, 23	
A 20	1		E9 P1-B4					.37 .18	NO NO		 11, 23	
A 21	1		E9 E10					.37 .37	NO NO			
A 22	1		E11 P1-F5					.37 .18	NO NO		 11, 23	
A 23	1		E12 P1-B6					.37 .18	NO NO		 11, 23	
A 24	1		E13 P1-D18					.37 .18	NO NO		 11, 23	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR ~~D~~ E		SHEET 7 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 ~~D~~ E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E14 P1-A11					.37 .18	NO NO		 11, 23	
A 26	1		E15 E8					.37 .37	NO NO			
A 27	1		E16 P1-F12					.37 .18	NO NO		 11, 23	
A 28	1		P12-17 P12-35					.15 .15	NO NO		12 12	
A 29	1		P1-B32 P12-8					.18 .15	NO NO		11, 23 12	
A 30			DELETED									
A 31	1		P1-A36 P1-A37					.18 .18	NO NO		11, 23 11, 23	
A 32	1		P12-52 P12-76					.15 .15	NO NO		12 12	
A 33	1		P1-B37 P1-C15					.18 .18	NO NO		11, 23 11, 23	
A 34	1		P12-53 P12-6					.15 .15	NO NO		12 12	
A 35	1		P1-C16 P1-D15					.18 .18	NO NO		11, 23 11, 23	
A 36	1		P12-18 P12-36					.15 .15	NO NO		12 12	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR ~~D~~ E		SHEET 8 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-D35 P1-F35					.18 .18	NO NO		11, 23 11, 23	
A 38	1		P12-70 P12-71					.15 .15	NO NO		12 12	
A 39	1		P1-D36 P1-F36					.18 .18	NO NO		11, 23 11, 23	
A 40	1		P12-72 P12-73					.15 .15	NO NO		12 12	
A 41	1		P1-F32 P1-G32					.18 .18	NO NO		11, 23 11, 23	
A 42	1		P12-82 P12-57					.15 .15	NO NO		12 12	
A 43	1		P1-G17 P1-G18					.18 .18	NO NO		11, 23 11, 23	
A 44	1		P12-83 P12-84					.15 .15	NO NO		12 12	
A 45	1		P1-B15 P1-B16					.18 .18	NO NO		11, 23 11, 23	
A 46	1		E7 P1-B9					.37 .18	NO NO		 11, 23	
A 47	1		P8-KK ~~P2-A~~ P1-G6					.22 .18	NO NO		13 11, 23	
A 48	1		P8-LL ~~P2-B~~ E11					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR ~~D~~ E		SHEET 9 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 DE

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P8-MM ~~P2-C~~ P1-A17					.22 .18	NO NO		13 11, 23	
A 50	1		P8-NN ~~P2-D~~ P1-A18					.22 .18	NO NO		13 11, 23	
A 51	1		P2-E P1-G5					.22 .18	NO NO		13 11, 23	
A 52	1		P2-N P1-G15					.22 .18	NO NO		13 11, 23	
A 53	1		P2-P P1-G16					.22 .18	NO NO		13 11, 23	
A 54	1		P2-V P1-A15					.22 .18	NO NO		13 11, 23	
A 55	1		P2-W P1-A16					.22 .18	NO NO		13 11, 23	
A 56	1		P2-X P1-C18					.22 .18	NO NO		13 11, 23	
A 57	1		P2-Y E13					.22 .37	NO NO		13	
A 58	1		P2-B* P1-D12					.22 .18	NO NO		13 11, 23	
A 59	1		P2-C* E16					.22 .37	NO NO		13	
A 60	1		P2-D* P1-B31					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR DE	SHEET 10 OF 27

CABLE ASSEMBLY 2901420 DE

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P2-E* F13					.22 .37	NO NO		13	
A 62	1		P2-F* P12-27					.22 .15	NO NO		13 12	
A 63	1		P2-G* P12-26					.22 .15	NO NO		13 12	
A 64	1		P2-H* P1-D16					.22 .18	NO NO		13 11, 23	
A 65	1		P2-I* P1-F15					.22 .18	NO NO		13 11, 23	
A 66	1		P2-J* P1-D8					.22 .18	NO NO		13 11, 23	
A 67	1		P2-K* E15					.22 .37	NO NO		13	
A 68	1		P2-V* P1-F7					.22 .18	NO NO		13 11, 23	
A 69	1		P2-X* P1-F24					.22 .18	NO NO		13 11, 23	
A 70	1		P2-Y* P1-G24					.22 .18	NO NO		13 11, 23	
A 71	1		P2-Z* P1-A24					.22 .18	NO NO		13 11, 23	
A 72	1		P2-AA P1-B24					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR DE	SHEET 11 OF 27

CABLE ASSEMBLY 2901420 DE

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P2-GG P1-D7					.22 .18	NO NO		13 11, 23	
A 74	1		P2-HH E15					.22 .37	NO NO		13	
A 75	1		P2-JJ P1-C24					.22 .18	NO NO		13 11, 23	
A 76	1		P2-KK P1-D24					.22 .18	NO NO		13 11, 23	
A 77	1		P2-LL P12-47					.22 .15	NO NO		13 12	
A 78	2		P2-MM P2-G*					.22 .22	NO NO		13 ~~13~~	
A 79	1		P2-NN P1-F16					.22 .18	NO NO		13 11, 23	
A 80	1		P3-A P1-B1					.22 .18	NO NO		13 11, 23	
A 81	1		P3-B E1					.22 .37	NO NO		13	
A 82	1		P3-C P1-~~A28~~ A29					.22 .18	NO NO		13 11, 23	
A 83	1		P3-D P1-~~A29~~ A28					.22 .18	NO NO		13 11, 23	
A 84	1		P3-E P1-B2					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR DE	SHEET 12 OF 27

CABLE ASSEMBLY 2901420 ED

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-F F1					.22 .37	NO NO		13	
A 86	1		P3-G P1-~~B28~~ B29					.22 .18	NO NO		13 11, 23	
A 87	1		P3-H P1-~~B29~~ B28					.22 .18	NO NO		13 11, 23	
A 88	1		P3-J P1-C1					.22 .18	NO NO		13 11, 23	
A 89	1		P3-K E1					.22 .37	NO NO		13	
A 90	1		P3-L P1-~~C28~~ C29					.22 .18	NO NO		13 11, 23	
A 91	1		P3-M P1-~~C29~~ C28					.22 .18	NO NO		13 11, 23	
A 92	1		P3-N P1-D1					.22 .18	NO NO		13 11, 23	
A 93	1		P3-P E1					.22 .37	NO NO		13	
A 94	1		P3-R P1-~~D28~~ D29					.22 .18	NO NO		13 11, 23	
A 95	1		P3-S P1-~~D29~~ D28					.22 .18	NO NO		13 11, 23	
A 96	1		P3-T P1-F1					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR DE	SHEET 13 OF 27

CABLE ASSEMBLY 2901420 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P3-U E1					.22 .37	NO NO		13	
A 98	1		P3-V P1-~~F28~~ F29					.22 .18	NO NO		13 11, 23	
A 99	1		P3-W P1-~~F29~~ F28					.22 .18	NO NO		13 11, 23	
A 100	1		P3-X P1-D2					.22 .18	NO NO		13 11, 23	
A 101	1		P3-Y E1					.22 .37	NO NO		13	
A 102	1		P3-Z P1-~~G28~~ G29					.22 .18	NO NO		13 11, 23	
A 103	1		P3-A* P1-~~G29~~ G28					.22 .18	NO NO		13 11, 23	
A 104	1		P3-B* P1-F2					.22 .18	NO NO		13 11, 23	
A 105	1		P3-C* F3					.22 .37	NO NO		13	
A 106	1		P3-D* P1-A26					.22 .18	NO NO		13 11, 23	
A 107	1		P3-E* P1-A25					.22 .18	NO NO		13 11, 23	
A 108	1		P3-F* P1-G3					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~D~~ E	SHEET 14 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P3-G* E3					.22 .37	NO NO		13	
A 110	1		P3-H* P1-B26					.22 .18	NO NO		13 11, 23	
A 111	1		P3-I* P1-B25					.22 .18	NO NO		13 11, 23	
A 112	1		P3-J* P1-F4					.22 .18	NO NO		13 11, 23	
A 113	1		P3-K* E3					.22 .37	NO NO		13	
A 114	1		P3-M* P1-C26					.22 .18	NO NO		13 11, 23	
A 115	1		P3-N* P1-C25					.22 .18	NO NO		13 11, 23	
A 116	1		P4-X* P12-64					.22 .15	NO NO		13 12	
A 117	1		P4-Z* P1-A32					.22 .18	NO NO		13 11, 23	
A 118	1		P6-A P1-A4					.22 .18	NO NO		13 11, 23	
A 119	1		P6-B E10					.22 .37	NO NO		13	
A 120	1		P6-C P1-G25					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 15 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-D P1-F25					.22 .18	NO NO		13 11, 23	
A 122	1		P6-E P1-C5					.22 .18	NO NO		13 11, 23	
A 123	1		P6-F E11					.22 .37	NO NO		13	
A 124	1		P6-J P1-A5					.22 .18	NO NO		13 11, 23	
A 125	1		P6-K E10					.22 .37	NO NO		13	
A 126	1		P6-L P1-G26					.22 .18	NO NO		13 11, 23	
A 127	1		P6-M P1-F26					.22 .18	NO NO		13 11, 23	
A 128	1		P6-N P1-D6					.22 .18	NO NO		13 11, 23	
A 129	1		P6-P E11					.22 .37	NO NO		13	
A 130	1		P6-T P1-G10					.22 .18	NO NO		13 11, 23	
A 131	1		P6-U E6					.22 .37	NO NO		13	
A 132	1		P6-V P1-F33					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 16 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E ~~D~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P6-X P1-F9					.22 .18	NO NO		13 11, 23	
A 134	1		P6-Y F6					.22 .37	NO NO		13	
A 135	1		P6-Z P1-G33					.22 .18	NO NO		13 11, 23	
A 136	2		P6-A* P6-E*					.22 .22	NO NO		13 13	
A 137	1		P6-B* P1-C10					.22 .18	NO NO		13 11, 23	
A 138	1		P6-C* E7					.22 .37	NO NO		13	
A 139	1		P6-D* P1-B33					.22 .18	NO NO		13 11, 23	
A 140	1		P6-E* P1-A33					.22 .18	NO NO		~~13~~ 11, 23	
A 141	1		P6-F* P1-C9					.22 .18	NO NO		13 11, 23	
A 142	1		P6-G* E7					.22 .37	NO NO		13	
A 143	1		P6-H* P1-C33					.22 .18	NO NO		13 11, 23	
A 144	1		P6-J* P1-C8					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~D~~ E	SHEET 17 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P6-K*					.22	NO		13	
			E7					.37	NO			
A 146	1		P6-M*					.22	NO		13	
			P1-D33					.18	NO		11, 23	
A 147	1		P6-P*					.22	NO		13	
			P1-C4					.18	NO		11, 23	
A 148	1		P6-Q*					.22	NO		13	
			E10					.37	NO			
A 149	1		P6-R*					.22	NO		13	
			P1-G27					.18	NO		11, 23	
A 150	1		P6-S*					.22	NO		13	
			P1-F27					.18	NO		11, 23	
A 151	1		P6-T*					.22	NO		13	
			P1-F6					.18	NO		11, 23	
A 152	1		P6-U*					.22	NO		13	
			E11					.37	NO			
A 153	1		P6-X*					.22	NO		13	
			P1-B5					.18	NO		11, 23	
A 154	1		P6-Y*					.22	NO		13	
			E12					.37	NO			
A 155	1		P6-Z*					.22	NO		13	
			P1-G37					.18	NO		11, 23	
A 156	1		P6-AA					.22	NO		13	
			P1-G36					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 18 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-BB					.22	NO		13	
			P1-C6					.18	NO		11, 23	
A 158	1		P6-CC					.22	NO		13	
			E12					.37	NO			
A 159	1		P6-DD					.22	NO		13	
			P1-G38					.18	NO		11, 23	
A 160	1		P6-FF					.22	NO		13	
			P1-A6					.18	NO		11, 23	
A 161	1		P6-GG					.22	NO		13	
			E12					.37	NO			
A 162	1		P6-HH					.22	NO		13	
			P1-G39					.18	NO		11, 23	
A 163	1		P7-A					.22	NO		13	
			P1-G4					.18	NO		11, 23	
A 164	1		P7-B					.22	NO		13	
			E4					.37	NO			
A 165	1		P7-C					.22	NO		13	
			P1-D26					.18	NO		11, 23	
A 166	1		P7-D					.22	NO		13	
			P1-D25					.18	NO		11, 23	
A 167	1		P7-E					.22	NO		13	
			P1-D9					.18	NO		11, 23	
A 168	1		P7-F					.22	NO		13	
			E5					.37	NO			

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 19 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P7-G					.22	NO		13	
			P1-B21					.18	NO		11, 23	
A 170	1		P7-H					.22	NO		13	
			P1-B22					.18	NO		11, 23	
A 171	1		P7-J					.22	NO		13	
			P1-D10					.18	NO		11, 23	
A 172	1		P7-K					.22	NO		13	
			E5					.37	NO			
A 173	1		P7-L					.22	NO		13	
			P1-D21					.18	NO		11, 23	
A 174	1		P7-M					.22	NO		13	
			P1-D22					.18	NO		11, 23	
A 175	1		P7-N					.22	NO		13	
			P1-G7					.18	NO		11, 23	
A 176	1		P7-P					.22	NO		13	
			E8					.37	NO			
A 177	1		P7-T					.22	NO		13	
			P1-B3					.18	NO		11, 23	
A 178	1		P7-U					.22	NO		13	
			E9					.37	NO			
A 179	1		P7-V					.22	NO		13	
			P1-D37					.18	NO		11, 23	
A 180	1		P7-W					.22	NO		13	
			P1-F37					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 20 OF 27

MIL 2084 9-65

CABLE ASSEMBLY 2901420 E

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P7-X					.22	NO		13	
			P1-A3					.18	NO		11, 23	
A 182	1		P7-Y					.22	NO		13	
			E9					.37	NO			
A 183	1		P7-Z					.22	NO		13	
			P1-D38					.18	NO		11, 23	
A 184	1		P7-A*					.22	NO		13	
			P1-F38					.18	NO		11, 23	
A 185	1		P7-B*					.22	NO		13	
			P1-C3					.18	NO		11, 23	
A 186	1		P7-C*					.22	NO		13	
			E9					.37	NO			
A 187	1		P7-D*					.22	NO		13	
			P1-D39					.18	NO		11, 23	
A 188	1		P7-E*					.22	NO		13	
			P1-F39					.18	NO		11, 23	
A 189	1		P7-F*					.22	NO		13	
			P1-D3					.18	NO		11, 23	
A 190	1		P7-G*					.22	NO		13	
			E4					.37	NO			
A 191	1		P7-H*					.22	NO		13	
			P1-D40					.18	NO		11, 23	
A 192	1		P7-I*					.22	NO		13	
			P1-F40					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 21 OF 27

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-J* P1-D4					.22 .18	NO NO		13 11, 23	
A 194	1		P7-K* E4					.22 .37	NO NO		13	
A 195	1		P7-M* P1-D41					.22 .18	NO NO		13 11, 23	
A 196	1		P7-N* P1-F41					.22 .18	NO NO		13 11, 23	
A 197	1		P7-P* P1-D5					.22 .18	NO NO		13 11, 23	
A 198	1		P7-Q* E11					.22 .37	NO NO		13	
A 199	1		P7-FF P1-G8					.22 .18	NO NO		13 11, 23	
A 200	1		P7-GG E8					.22 .37	NO NO		13	
A 201	1		P7-HH P1-C19					.22 .18	NO NO		13 11, 23	
A 202	1		P7-JJ P1-C20					.22 .18	NO NO		13 11, 23	
A 203	1		P8-A P1-G12					.22 .18	NO NO		13 11, 23	
A 204	1		P8-B E16					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR E | SHEET 22 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P8-C P1-D31					.22 .18	NO NO		13 11, 23	
A 206	1		P8-D E13					.22 .37	NO NO		13	
A 207	1		P8-E P1-F13					.22 .18	NO NO		13 11, 23	
A 208	1		P8-F E16					.22 .37	NO NO		13	
A 209	1		P8-G P1-G31					.22 .18	NO NO		13 11, 23	
A 210	1		P8-H E13					.22 .37	NO NO		13	
A 211	1		P8-N P1-B8					.22 .18	NO NO		13 11, 23	
A 212	1		P8-P E7					.22 .37	NO NO		13	
A 213	1		P7-X* ~~P8-T~~ P1-D11					.22 .18	NO NO		13 11, 23	
A 214	2		P7-Y* ~~P8-U~~ P8-Y					.22 .22	NO NO		13 13	
A 215	1		P7-Z* ~~P8-V~~ P1-D19					.22 .18	NO NO		13 11, 23	
A 216	2		P7-AA ~~P8-W~~ P8-A*					.22 .22	NO NO		13 13	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR E | SHEET 23 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P8-X P1-C11					.22 .18	NO NO		13 11, 23	
A 218	1		P8-Y P1-C12					.22 .18	NO NO		13 11, 23	
A 219	1		P8-Z P1-D20					.22 .18	NO NO		13 11, 23	
A 220	2		P8-B* P2-X					.22 .22	NO NO		13	
A 221	1		P8-C* E13					.22 .37	NO NO		13	
A 222	1		P8-F* P1-A10					.22 .16	NO NO		13 11, 23	
A 223	1		P8-G* E14					.22 .37	NO NO		13	
A 224	1		P8-B* P1-C17					.22 .18	NO NO		 11, 23	
A 225	1		P8-I* E13					.22 .37	NO NO		13	
A 226	1		P8-P* P1-B10					.22 .18	NO NO		13 11, 23	
A 227	1		P8-Q* E14					.22 .37	NO NO		13	
A 228	1		P8-R* P1-F17					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR E | SHEET 24 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P8-S* P1-F18					.22 .18	NO NO		13 11, 23	
A 230	1		P8-T* P12-21					.22 .15	NO NO		13 12	
A 231	1		P8-U* P12-43					.22 .15	NO NO		13 12	
A 232	1		P8-V* P1-A34					.22 .18	NO NO		13 11, 23	
A 233	1		P8-W* P1-D17					.22 .18	NO NO		13 11, 23	
A 234	1		P8-Z* P1-A31					.22 .18	NO NO		13 11, 23	
A 235	1		P8-AA E13					.22 .37	NO NO		13	
A 236	1		P8-DD P1-C31					.22 .18	NO NO		13 11, 23	
A 237	1		P8-EE E13					.22 .37	NO NO		13	
A 238	1		P8-HH P1-F31					.22 .18	NO NO		13 11, 23	
A 239	1		P8-JJ E13					.22 .37	NO NO		13	
A 240	1		P8-A* P1-F14					.22 .18	NO NO		~~13~~ 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR E | SHEET 25 OF 27

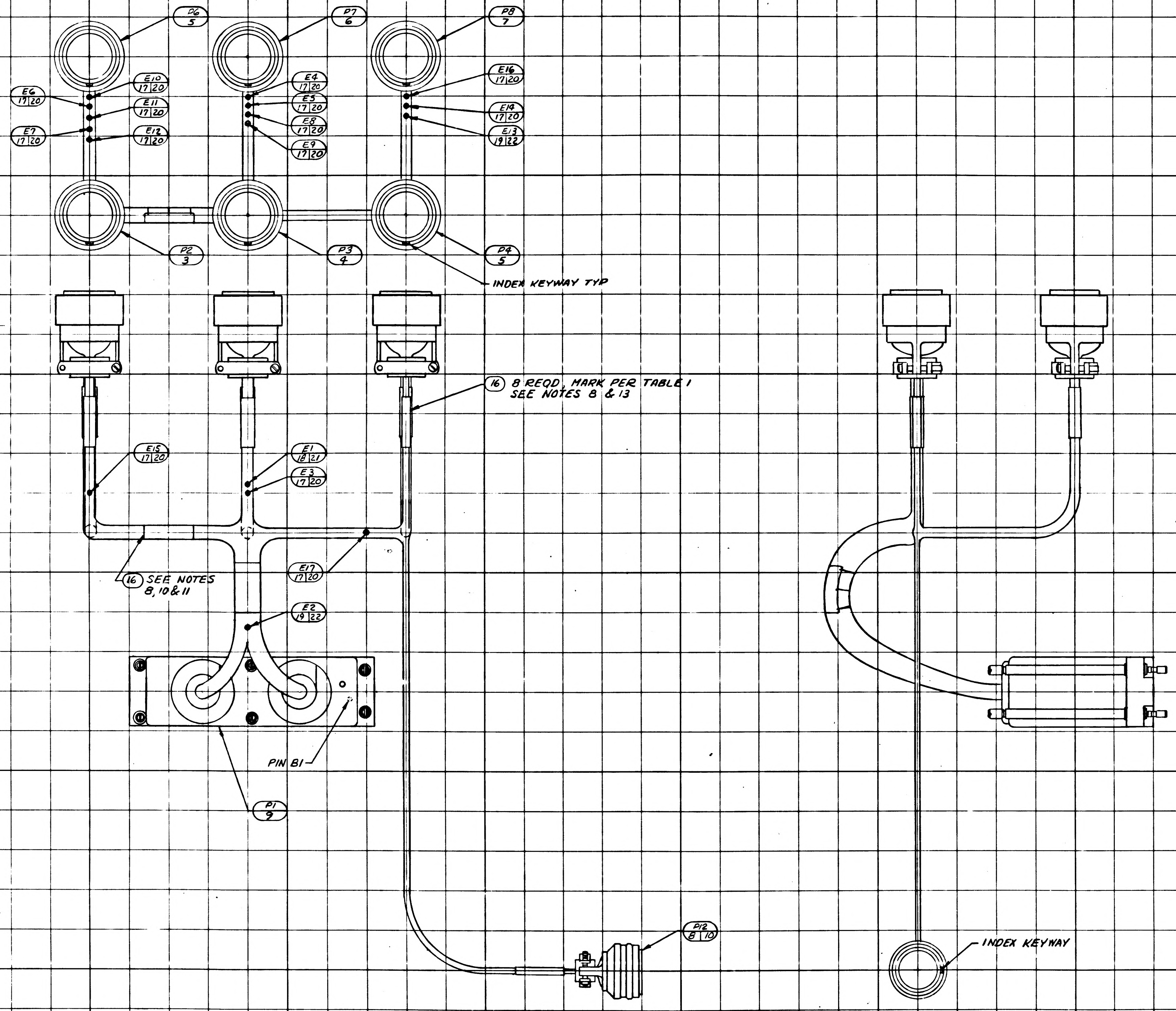
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P4-BB E17					.22 .37	NO NO		13	
A 242	1		P4-CC E17					.22 .37	NO NO		13	
A 243	1		P4-DD E17					.22 .37	NO NO		13	
A 244	1		P4-EE E17					.22 .37	NO NO		13	
A 245	1		P4-FF E17					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR E	SHEET 26 OF 27

MIL 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD


P6
5
P7
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P8
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E5
17 20
E8
17 20
E9
17 20
E16
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E14
17 20
E13
19 22
P2
3
P3
4
P4
5
INDEX KEYWAY TYP
16
8 REQD, MARK PER TABLE I
SEE NOTES 8 & 13
E15
17 20
E1
18 21
E3
17 20
16
SEE NOTES
8, 10 & 11
E17
17 20
E2
19 22
PIN B1
P1
9
P12
8 10
INDEX KEYWAY

TABLE I

LOCATION	MARK ID BAND
P1	P1 (J1 SCA)
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3)
P4	P4 (J4)
P6	P6 (J6)
P7	P7 (J7)
P8	P8 (J8 IN/OUT PANEL)
P12	P12 (J2 SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN [illegible] DATE 16 MAR 66
CHECKED [illegible] 22 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE E
CODE IDENT NO. 99974
2901420
SCALE 1/1
SHEET

MX-09851

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61867	31 MAR 66	JJJ JRC
B	REVISED PER D.O. 61883	5 APR 66	FRW
C	REVISED PER MXC 211541	21 APR 66	JHP/JRS
D	REVISED PER MXC 211990	MAY 66	LK
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
F	REVISED PER TDRR 29894	13 JUL 66	B.

25 MAR

REV	F	F	F	F	F	F	F
SHEET	21	22	23	24	25	26	27

REV STATUS OF SHEETS	REV				F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66 (DAY MO YR)
CHECKER 25 MAR
ENGINEER
APPROVAL
CONTR NO. NAS9497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED - LEM SCA

SIZE	CODE IDENT. NO	
A	99974	2901420
SCALE NONE		SHEET 1 OF 27

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEM 8 AND 9.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
8	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 14.
9	ASSEMBLE PER ND1002032.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SERIALIZE PER ND1002023.
12	ITEM 13 IS SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 12 IS SUPPLIED WITH ITEM 8.
13	MARK IDENTIFICATION BANDS AS NOTED IN TABLE I, PER ND1002019. CENTRALIZE.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.

SIZE	CODE IDENT NO.			
A	99974	2901420		
SCALE-NONE	REV LTR	F	SHEET	2 OF 27

NOTE NUMBER	GENERAL NOTES DESCRIPTION
16	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED CABLE DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF CABLE FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.			
A	99974	2901420		
SCALE-NONE	REV LTR	F	SHEET	3 OF 27

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901420-001	WIRE ND1002181 CLASS 1, TYPE 1, 22AWG, WHITE TOTAL LENGTH
	2	1	2901420-002	WIRE ND1002181 CLASS 1, TYPE 1, 24AWG, WHITE TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELECTRICAL
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR, RECEPTACLE, ELECTRICAL
5	8	1	1897250-001	CONNECTOR, PLUG, ELECTRICAL (PIN CONTACT)
	9	1	2901162-011	CONNECTOR, RECEPTACLE, ELECTRICAL
5	10	1	1C10933-105	CLAMP, CABLE, ELECTRICAL
5	11	171	1897300-003	CONTACT, SPRING SOCKET
12	12	X	1897190- 1	CONTACT, ELECTRICAL PIN (FURNISHED WITH ITEM 8)
12	13	X	MS3192A-20A	(1896855-020) CONTACT-ELECTRICAL, PIN (FURNISHED WITH ITEM 3 THRU 7)
5	14	AR	1012507-004	TAPE, LACING AND TYING
14	15	AR	MIL-I-631, TYPE F, FORM T, BLACK, GRADE A, CLASS 1	FILLER TAPE .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.			
A	99974	2901420		
SCALE-NONE	REV LTR	F	SHEET	4 OF 27

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	9	1016128-011	BAND-IDENTIFICATION
5	17	14	1016006-001	SPLICE, REDUCER
5	18	1	1016006-002	SPLICE, REDUCER
5	19	2	1016006-003	SPLICE, REDUCER
5	20	14	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	21	1	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	22	2	1010490-256	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	23	171	1015864-232	INSULATION, SLEEVING, ELECTRICAL

SIZE	CODE IDENT NO.			
A	99974	2901420		
SCALE-NONE	REV LTR	F	SHEET	5 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1					.37	NO			
			P1-C2					.18	NO		11, 23	
A 2	1		E2					.37	NO			
			P1-A30					.18	NO		11, 23	
A 3	1		E2					.37	NO			
			P1-B30					.18	NO		11, 23	
A 4	1		E2					.37	NO			
			P1-C30					.18	NO		11, 23	
A 5	1		E2					.37	NO			
			P1-D30					.18	NO		11, 23	
A 6	1		E2					.37	NO			
			P1-F30					.18	NO		11, 23	
A 7	1		E2					.37	NO			
			P1-G30					.18	NO		11, 23	
A 8	1		E2					.37	NO			
			P1-A27					.18	NO		11, 23	
A 9	1		E2					.37	NO			
			P1-B27					.18	NO		11, 23	
A 10	1		E2					.37	NO			
			P1-C27					.18	NO		11, 23	
A 11	1		E2					.37	NO			
			P1-D27					.18	NO		11, 23	
A 12	1		E2					.37	NO			
			P1-B23					.18	NO		11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR F | SHEET 6 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		E2					.37	NO			
			P1-D23					.18	NO		11, 23	
A 14	1		E2					.37	NO			
			P2-U*					.22	NO		13	
A 15	1		E3					.37	NO			
			P1-F3					.18	NO		11, 23	
A 16	1		E3					.37	NO			
			E4					.37	NO			
A 17	1		E5					.37	NO			
			E6					.37	NO			
A 18	1		E6					.37	NO			
			P1-F10					.18	NO		11, 23	
A 19	1		E8					.37	NO			
			P1-F8					.18	NO		11, 23	
A 20	1		E9					.37	NO			
			P1-B4					.18	NO		11, 23	
A 21	1		E9					.37	NO			
			E10					.37	NO			
A 22	1		E11					.37	NO			
			P1-F5					.18	NO		11, 23	
A 23	1		E12					.37	NO			
			P1-B6					.18	NO		11, 23	
A 24	1		E13					.37	NO			
			P1-D18					.18	NO		11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR F | SHEET 7 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E14					.37	NO			
			P1-A11					.18	NO		11, 23	
A 26	1		E15					.37	NO			
			E8					.37	NO			
A 27	1		E16					.37	NO			
			P1-F12					.18	NO		11, 23	
A 28	1		P12-17					.15	NO		12	
			P12-35					.15	NO		12	
A 29	1		P1-B32					.18	NO		11, 23	
			P12-8					.15	NO		12	
A 30			DELETED									
A 31	1		P1-A36					.18	NO		11, 23	
			P1-A37					.18	NO		11, 23	
A 32	1		P12-52					.15	NO		12	
			P12-76					.15	NO		12	
A 33	1		P1-B37					.18	NO		11, 23	
			P1-C15					.18	NO		11, 23	
A 34	1		P12-53					.15	NO		12	
			P12-6					.15	NO		12	
A 35	1		P1-C16					.18	NO		11, 23	
			P1-D15					.18	NO		11, 23	
A 36	1		P12-18					.15	NO		12	
			P12-36					.15	NO		12	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR F | SHEET 8 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-D35					.18	NO		11, 23	
			P1-F35					.18	NO		11, 23	
A 38	1		P12-70					.15	NO		12	
			P12-71					.15	NO		12	
A 39	1		P1-D36					.18	NO		11, 23	
			P1-F36					.18	NO		11, 23	
A 40	1		P12-72					.15	NO		12	
			P12-73					.15	NO		12	
A 41	1		P1-F32					.18	NO		11, 23	
			P1-G32					.18	NO		11, 23	
A 42	1		P12-82					.15	NO		12	
			P12-57					.15	NO		12	
A 43	1		P1-G17					.18	NO		11, 23	
			P1-G18					.18	NO		11, 23	
A 44	1		P12-83					.15	NO		12	
			P12-84					.15	NO		12	
A 45	1		P1-B15					.18	NO		11, 23	
			P1-B16					.18	NO		11, 23	
A 46	1		E7					.37	NO			
			P1-B9					.18	NO		11, 23	
A 47	1		P8-KK					.22	NO		13	
			P1-G6					.18	NO		11, 23	
A 48	1		P8-LL					.22	NO		13	
			E11					.37	NO			

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR F | SHEET 9 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P8-MM					.22	NO		13	
			P1-A17					.18	NO		11, 23	
A 50	1		P8-NN					.22	NO		13	
			P1-A18					.18	NO		11, 23	
A 51	1		P2-E					.22	NO		13	
			P1-G5					.18	NO		11, 23	
A 52	1		P2-N					.22	NO		13	
			P1-G15					.18	NO		11, 23	
A 53	1		P2-P					.22	NO		13	
			P1-G16					.18	NO		11, 23	
A 54	1		P2-V					.22	NO		13	
			P1-A15					.18	NO		11, 23	
A 55	1		P2-W					.22	NO		13	
			P1-A16					.18	NO		11, 23	
A 56	1		P2-X					.22	NO		13	
			P1-C18					.18	NO		11, 23	
A 57	1		P2-Y					.22	NO		13	
			E13					.37	NO			
A 58	1		P2-B*					.22	NO		13	
			P1-D12					.18	NO		11, 23	
A 59	1		P2-C*					.22	NO		13	
			E16					.37	NO			
A 60	1		P2-D*					.22	NO		13	
			P1-B31					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 10 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P2-E*					.22	NO		13	
			E13					.37	NO			
A 62	1		P2-F*					.22	NO		13	
			P12-27					.15	NO		12	
A 63	1		P2-G*					.22	NO		13	
			P12-26					.15	NO		12	
A 64	1		P2-H*					.22	NO		13	
			P1-D16					.18	NO		11, 23	
A 65	1		P2-I*					.22	NO		13	
			P1-F16					.18	NO		11, 23	
A 66	1		P2-J*					.22	NO		13	
			P1-D8					.18	NO		11, 23	
A 67	1		P2-K*					.22	NO		13	
			E15					.37	NO			
A 68	1		P2-V*					.22	NO		13	
			P1-F7					.18	NO		11, 23	
A 69	1		P2-X*					.22	NO		13	
			P1-F24					.18	NO		11, 23	
A 70	1		P2-Y*					.22	NO		13	
			P1-G24					.18	NO		11, 23	
A 71	1		P2-Z*					.22	NO		13	
			P1-A24					.18	NO		11, 23	
A 72	1		P2-AA					.22	NO		13	
			P1-B24					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 11 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P2-GG					.22	NO		13	
			P1-D7					.18	NO		11, 23	
A 74	1		P2-HH					.22	NO		13	
			E15					.37	NO			
A 75	1		P2-JJ					.22	NO		13	
			P1-C24					.18	NO		11, 23	
A 76	1		P2-KK					.22	NO		13	
			P1-D24					.18	NO		11, 23	
A 77	1		P2-LL					.22	NO		13	
			P12-47					.15	NO		12	
A 78	2		P2-MM					.22	NO		13	
			P2-G*					.22	NO			
A 79	1		P2-NN					.22	NO		13	
			P1-F15					.18	NO		11, 23	
A 80	1		P3-A					.22	NO		13	
			P1-B1					.18	NO		11, 23	
A 81	1		P3-B					.22	NO		13	
			E1					.37	NO			
A 82	1		P3-C					.22	NO		13	
			P1-A29					.18	NO		11, 23	
A 83	1		P3-D					.22	NO		13	
			P1-A28					.18	NO		11, 23	
A 84	1		P3-E					.22	NO		13	
			P1-B2					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE NONE	REV LTR F	SHEET 12 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-F					.22	NO		13	
			E1					.37	NO			
A 86	1		P3-G					.22	NO		13	
			P1-B29					.18	NO		11, 23	
A 87	1		P3-H					.22	NO		13	
			P1-B28					.18	NO		11, 23	
A 88	1		P3-J					.22	NO		13	
			P1-C1					.18	NO		11, 23	
A 89	1		P3-K					.22	NO		13	
			E1					.37	NO			
A 90	1		P3-L					.22	NO		13	
			P1-C29					.18	NO		11, 23	
A 91	1		P3-M					.22	NO		13	
			P1-C28					.18	NO		11, 23	
A 92	1		P3-N					.22	NO		13	
			P1-D1					.18	NO		11, 23	
A 93	1		P3-P					.22	NO		13	
			E1					.37	NO			
A 94	1		P3-R					.22	NO		13	
			P1-D29					.18	NO		11, 23	
A 95	1		P3-S					.22	NO		13	
			P1-D28					.18	NO		11, 23	
A 96	1		P3-T					.22	NO		13	
			P1-F1					.18	NO		11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 13 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P3-U E1					.22 .37	NO NO		13	
A 98	1		P3-V P1-F29					.22 .18	NO NO		13 11, 23	
A 99	1		P3-W P1-F28					.22 .18	NO NO		13 11, 23	
A 100	1		P3-X P1-D2					.22 .18	NO NO		13 11, 23	
A 101	1		P3-Y E1					.22 .37	NO NO		13	
A 102	1		P3-Z P1-G29					.22 .18	NO NO		13 11, 23	
A 103	1		P3-A* P1-G28					.22 .18	NO NO		13 11, 23	
A 104	1		P3-B* P1-F2					.22 .18	NO NO		13 11, 23	
A 105	1		P3-C* E3					.22 .37	NO NO		13	
A 106	1		P3-D* P1-A26					.22 .18	NO NO		13 11, 23	
A 107	1		P3-E* P1-A25					.22 .18	NO NO		13 11, 23	
A 108	1		P3-F* P1-G3					.22 .18	NO NO		13 11, 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P3-G* E3					.22 .37	NO NO		13	
A 110	1		P3-H* P1-B26					.22 .18	NO NO		13 11, 23	
A 111	1		P3-I* P1-B25					.22 .18	NO NO		13 11, 23	
A 112	1		P3-J* P1-F4					.22 .18	NO NO		13 11, 23	
A 113	1		P3-K* E3					.22 .37	NO NO		13	
A 114	1		P3-M* P1-C26					.22 .18	NO NO		13 11, 23	
A 115	1		P3-N* P1-C25					.22 .18	NO NO		13 11, 23	
A 116	1		P4-X* P12-64					.22 .15	NO NO		13 12	
A 117	1		P4-Z* P1-A32					.22 .18	NO NO		13 11, 23	
A 118	1		P6-A P1-A4					.22 .18	NO NO		13 11, 23	
A 119	1		P6-B E10					.22 .37	NO NO		13	
A 120	1		P6-C P1-G25					.22 .18	NO NO		13 11, 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-D P1-F25					.22 .18	NO NO		13 11, 23	
A 122	1		P6-E P1-C5					.22 .18	NO NO		13 11, 23	
A 123	1		P6-F E11					.22 .37	NO NO		13	
A 124	1		P6-J P1-A5					.22 .18	NO NO		13 11, 23	
A 125	1		P6-K E10					.22 .37	NO NO		13	
A 126	1		P6-L P1-G26					.22 .18	NO NO		13 11, 23	
A 127	1		P6-M P1-F26					.22 .18	NO NO		13 11, 23	
A 128	1		P6-N P1-D6					.22 .18	NO NO		13 11, 23	
A 129	1		P6-P E11					.22 .37	NO NO		13	
A 130	1		P6-T P1-G10					.22 .18	NO NO		13 11, 23	
A 131	1		P6-U E6					.22 .37	NO NO		13	
A 132	1		P6-V P1-F33					.22 .18	NO NO		13 11, 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P6-X P1-F9					.22 .18	NO NO		13 11, 23	
A 134	1		P6-Y E6					.22 .37	NO NO		13	
A 135	1		P6-Z P1-G33					.22 .18	NO NO		13 11, 23	
A 136	2		P6-A* P6-E*					.22 .22	NO NO		13 13	
A 137	1		P6-B* P1-C10					.22 .18	NO NO		13 11, 23	
A 138	1		P6-C* E7					.22 .37	NO NO		13	
A 139	1		P6-D* P1-B33					.22 .18	NO NO		13 11, 23	
A 140	1		P6-E* P1-A33					.22 .18	NO NO		 11, 23	
A 141	1		P6-F* P1-C9					.22 .18	NO NO		13 11, 23	
A 142	1		P6-G* E7					.22 .37	NO NO		13	
A 143	1		P6-H* P1-C33					.22 .18	NO NO		13 11, 23	
A 144	1		P6-J* P1-C8					.22 .18	NO NO		13 11, 23	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P6-K* E7					.22 .37	NO NO		13	
A 146	1		P6-M* P1-D33					.22 .18	NO NO		13 11, 23	
A 147	1		P6-P* P1-C4					.22 .18	NO NO		13 11, 23	
A 148	1		P6-Q* E10					.22 .37	NO NO		13	
A 149	1		P6-R* P1-G27					.22 .18	NO NO		13 11, 23	
A 150	1		P6-S* P1-F27					.22 .18	NO NO		13 11, 23	
A 151	1		P6-T* P1-F6					.22 .18	NO NO		13 11, 23	
A 152	1		P6-U* E11					.22 .37	NO NO		13	
A 153	1		P6-X* P1-B5					.22 .18	NO NO		13 11, 23	
A 154	1		P6-Y* E12					.22 .37	NO NO		13	
A 155	1		P6-Z* P1-G37					.22 .18	NO NO		13 11, 23	
A 156	1		P6-AA P1-G36					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 18 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-BB P1-C6					.22 .18	NO NO		13 11, 23	
A 158	1		P6-CC E12					.22 .37	NO NO		13	
A 159	1		P6-DD P1-G38					.22 .18	NO NO		13 11, 23	
A 160	1		P6-FF P1-A6					.22 .18	NO NO		13 11, 23	
A 161	1		P6-GG E12					.22 .37	NO NO		13	
A 162	1		P6-HH P1-G39					.22 .18	NO NO		13 11, 23	
A 163	1		P7-A P1-G4					.22 .18	NO NO		13 11, 23	
A 164	1		P7-B E4					.22 .37	NO NO		13	
A 165	1		P7-C P1-D26					.22 .18	NO NO		13 11, 23	
A 166	1		P7-D P1-D25					.22 .18	NO NO		13 11, 23	
A 167	1		P7-E P1-D9					.22 .18	NO NO		13 11, 23	
A 168	1		P7-F E5					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 19 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 169	1		P7-G P1-B21					.22 .18	NO NO		13 11, 23	
A 170	1		P7-H P1-B22					.22 .18	NO NO		13 11, 23	
A 171	1		P7-J P1-D10					.22 .18	NO NO		13 11, 23	
A 172	1		P7-K E5					.22 .37	NO NO		13	
A 173	1		P7-L P1-D21					.22 .18	NO NO		13 11, 23	
A 174	1		P7-M P1-D22					.22 .18	NO NO		13 11, 23	
A 175	1		P7-N P1-G7					.22 .18	NO NO		13 11, 23	
A 176	1		P7-P E8					.22 .37	NO NO		13	
A 177	1		P7-T P1-B3					.22 .18	NO NO		13 11, 23	
A 178	1		P7-U E9					.22 .37	NO NO		13	
A 179	1		P7-V P1-D37					.22 .18	NO NO		13 11, 23	
A 180	1		P7-W P1-F37					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 20 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P7-X P1-A3					.22 .18	NO NO		13 11, 23	
A 182	1		P7-Y E9					.22 .37	NO NO		13	
A 183	1		P7-Z P1-D38					.22 .18	NO NO		13 11, 23	
A 184	1		P7-A* P1-F38					.22 .18	NO NO		13 11, 23	
A 185	1		P7-B* P1-C3					.22 .18	NO NO		13 11, 23	
A 186	1		P7-C* E9					.22 .37	NO NO		13	
A 187	1		P7-D* P1-D39					.22 .18	NO NO		13 11, 23	
A 188	1		P7-E* P1-F39					.22 .18	NO NO		13 11, 23	
A 189	1		P7-F* P1-D3					.22 .18	NO NO		13 11, 23	
A 190	1		P7-G* E4					.22 .37	NO NO		13	
A 191	1		P7-H* P1-D40					.22 .18	NO NO		13 11, 23	
A 192	1		P7-I* P1-F40					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR F	SHEET 21 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-J* P1-D4					.22 .18	NO NO		13 11, 23	
A 194	1		P7-K* E4					.22 .37	NO NO		13	
A 195	1		P7-M* P1-D41					.22 .18	NO NO		13 11, 23	
A 196	1		P7-N* P1-F41					.22 .18	NO NO		13 11, 23	
A 197	1		P7-P* P1-D5					.22 .18	NO NO		13 11, 23	
A 198	1		P7-Q* E11					.22 .37	NO NO		13	
A 199	1		P7-FF P1-G8					.22 .18	NO NO		13 11, 23	
A 200	1		P7-GG E8					.22 .37	NO NO		13	
A 201	1		P7-HH P1-C19					.22 .18	NO NO		13 11, 23	
A 202	1		P7-JJ P1-C20					.22 .18	NO NO		13 11, 23	
A 203	1		P8-A P1-G12					.22 .18	NO NO		13 11, 23	
A 204	1		P8-B E16					.22 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR F	SHEET 22 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P8-C P1-D31					.22 .18	NO NO		13 11, 23	
A 206	1		P8-D E13					.22 .37	NO NO		13	
A 207	1		P8-E P1-F13					.22 .18	NO NO		13 11, 23	
A 208	1		P8-F E16					.22 .37	NO NO		13	
A 209	1		P8-G P1-G31					.22 .18	NO NO		13 11, 23	
A 210	1		P8-H E13					.22 .37	NO NO		13	
A 211	1		P8-N P1-B8					.22 .18	NO NO		13 11, 23	
A 212	1		P8-P E7					.22 .37	NO NO		13	
A 213	1		P7-X* P1-D11					.22 .18	NO NO		13 11, 23	
A 214	2		P7-Y* P8-Y					.22 .22	NO NO		13 13	
A 215	1		P7-Z* P1-D19					.22 .18	NO NO		13 11, 23	
A 216	2		P7-AA P8-A*					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR F	SHEET 23 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P8-X P1-C11					.22 .18	NO NO		13 11, 23	
A 218	1		P8-Y P1-C12					.22 .18	NO NO		13 11, 23	
A 219	1		P8-Z P1-D20					.22 .18	NO NO		13 11, 23	
A 220	2		P8-B* P2-X					.22 .22	NO NO		13	
A 221	1		P8-C* E13					.22 .37	NO NO		13	
A 222	1		P8-F* P1-A10					.22 .18	NO NO		13 11, 23	
A 223	1		P8-G* E14					.22 .37	NO NO		13	
A 224	1		P8-B* P1-C17					.22 .18	NO NO		 11, 23	
A 225	1		P8-I* E13					.22 .37	NO NO		13	
A 226	1		P8-P* P1-B10					.22 .18	NO NO		13 11, 23	
A 227	1		P8-Q* E14					.22 .37	NO NO		13	
A 228	1		P8-R* P1-F17					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR F	SHEET 24 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P8-S* P1-F18					.22 .18	NO NO		13 11, 23	
A 230	1		P8-T* P12-21					.22 .15	NO NO		13 12	
A 231	1		P8-U* P12-43					.22 .15	NO NO		13 12	
A 232	1		P8-V* P1-A34					.22 .18	NO NO		13 11, 23	
A 233	1		P8-W* P1-D17					.22 .18	NO NO		13 11, 23	
A 234	1		P8-Z* P1-A31					.22 .18	NO NO		13 11, 23	
A 235	1		P8-AA E13					.22 .37	NO NO		13	
A 236	1		P8-DD P1-C31					.22 .18	NO NO		13 11, 23	
A 237	1		P8-EE E13					.22 .37	NO NO		13	
A 238	1		P8-HH P1-F31					.22 .18	NO NO		13 11, 23	
A 239	1		P8-JJ E13					.22 .37	NO NO		13	
A 240	1		P8-A* P1-F14					.22 .18	NO NO		 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR F	SHEET 25 OF 27

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P4-BB E17					.22 .37	NO NO		13	
A 242	1		P4-CC E17					.22 .37	NO NO		13	
A 243	1		P4-DD E17					.22 .37	NO NO		13	
A 244	1		P4-EE E17					.22 .37	NO NO		13	
A 245	1		P4-FF E17					.22 .37	NO NO		13	
A 246	2		P3-FF P2-N					.22 .22	NO NO		13	
A 247	2		P3-GG P2-P					.22 .22	NO NO		13	
A 248	2		P3-KK P2-V					.22 .22	NO NO		13	
A 249	2		P3-LL P2-m					.22 .22	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR F	SHEET 26 OF 27

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET I FOR REVISION RECORD

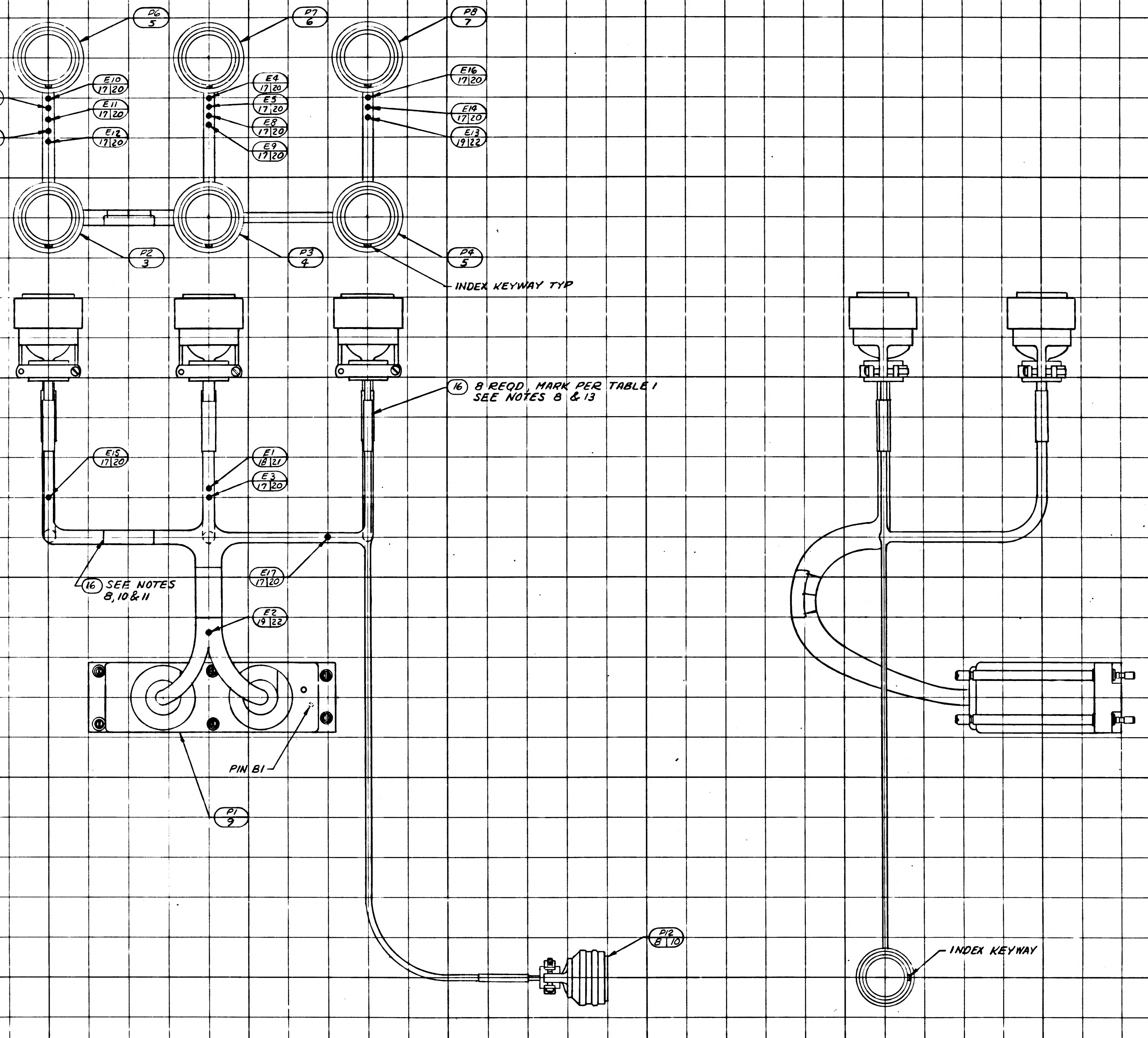

P6 5
P7 6
P8 7
E6 17 20
E10 17 20
E11 17 20
E7 17 20
E12 17 20
E4 17 20
E5 17 20
E8 17 20
E9 17 20
E16 17 20
E14 17 20
E13 19 22
P2 3
P3 4
P4 5
INDEX KEYWAY TYP
16 8 REQD, MARK PER TABLE I SEE NOTES 8 & 13
E15 17 20
E1 18 21
E3 17 20
16 SEE NOTES 8, 10 & 11
E17 17 20
E2 19 22
PIN B1
P1 9
P12 8 10
INDEX KEYWAY

TABLE I

LOCATION	MARK ID BAND
P1	P1(J1 SCA)
P2	P2 (J2 IN/OUT PANEL)
P3	P3(J3)
P4	P4 (J4)
P6	P6 (J6)
P7	P7(J7)
P8	P8(J8 IN/OUT PANEL)
P12	P12(J2 SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R. Olson DATE 16 MAR 66
CHECKED [illegible] 22 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE E
CODE IDENT NO. 99974
2901420
SCALE 1/1
SHEET

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61867	31 MAR 66	JJJ / JRC
B	REVISED PER D.O. 61883	5 APR 66	FRW / MM
C	REVISED PER MXC 211541	21 APR 66	JHP/JRS
D	REVISED PER MXC 211990	2 MAY 66	LK / W.D.
E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP / EF
F	REVISED PER TDRR 29894	13-JUL-66	B. / W.D.
G	REVISED PER TDRR 30082	21-JUL 66	M.A. / T.M.

(M)

Ⓝ

Charleston 25 MAR 66

REV	G	G	G	G	G	G	G	G
SHEET	21	22	23	24	25	26	27	28

REV STATUS OF SHEETS																							
REV				G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN R.K. Olson 16 MAR 66 (DAY MO YR)
CHECKER 25 MAR 66
ENGINEER L. Perini 25 Mar 66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED - LEM SCA

SIZE A
CODE IDENT. NO 99974
2901420
SCALE NONE
SHEET 1 OF 28

MIL 1377A6 12-65

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEM 8 AND 9.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
8	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 14.
9	ASSEMBLE PER ND1002032.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SERIALIZE PER ND1002023.
12	ITEM 13 IS SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 12 IS SUPPLIED WITH ITEM 8.
13	MARK IDENTIFICATION BANDS AS NOTED IN TABLE I, PER ND1002019. CENTRALIZE.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR G		SHEET 2 OF 28

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
16	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED CABLE DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF CABLE FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR G		SHEET 3 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901420-001	WIRE ND1002181 CLASS 1, TYPE 1, 22AWG, WHITE TOTAL LENGTH
	2	1	2901420-002	WIRE ND1002181 CLASS 1, TYPE 1, 24AWG, WHITE TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELECTRICAL
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR, RECEPTACLE, ELECTRICAL
5	8	1	1897250-001	CONNECTOR, PLUG, ELECTRICAL (PIN CONTACT)
	9	1	2901162-011	CONNECTOR, RECEPTACLE, ELECTRICAL
5	10	1	1010933-105	CLAMP, CABLE, ELECTRICAL
5	11	151	1897300-003	CONTACT, SPRING SOCKET
12	12	X	1897190- 1	CONTACT, ELECTRICAL PIN (FURNISHED WITH ITEM 8)
12	13	X	MS3192A-20A	(1896855-020) CONTACT-ELECTRICAL, PIN (FURNISHED WITH ITEM 3 THRU 7)
5	14	AR	1012507-004	TAPE, LACING AND TYING
14	15	AR	MIL-I-631, TYPE F, FORM T, BLACK, GRADE A, CLASS 1	FILLER TAPE .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR G		SHEET 4 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	9	1016128-011	BAND-IDENTIFICATION
5	17	12	1016006-001	SPLICE, REDUCER
5	18	1	1016006-002	SPLICE, REDUCER
5	19	2	1016006-003	SPLICE, REDUCER
5	20	12	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	21	1	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	22	2	1010490-256	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	23	151	1015864-232	INSULATION, SLEEVING, ELECTRICAL

SIZE	CODE IDENT NO.		
A	99974	2901420	
SCALE-NONE	REV LTR G		SHEET 5 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD. STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-C2					.37 .18	NO NO		 11, 23	
A 2	1		E2 P1-A30					.37 .18	NO NO		 11, 23	
A 3	1		E2 P1-B30					.37 .18	NO NO		 11, 23	
A 4	1		E2 P1-C30					.37 .18	NO NO		 11, 23	
A 5	1		E2 P1-D30					.37 .18	NO NO		 11, 23	
A 6	1		E2 P1-F30					.37 .18	NO NO		 11, 23	
A 7	1		E2 P1-G30					.37 .18	NO NO		 11, 23	
A 8	1		E2 P1-A27					.37 .18	NO NO		 11, 23	
A 9	1		E2 P1-B27					.37 .18	NO NO		 11, 23	
A 10	1		E2 P1-C27					.37 .18	NO NO		 11, 23	
A 11	1		E2 P1-D27					.37 .18	NO NO		 11, 23	
A 12	1		P1-B23 P1-B23					.37 .18	NO NO		 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 6 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-D23 P1-D23					.37 .18	NO NO		 11, 23	
A 14	1		E2 P2-U*					.37 .22	NO NO		 13	
A 15	1		E3 P1-F3					.37 .18	NO NO		 11, 23	
A 16	1		E7 E4					.37 .37	NO NO			
A 17	1		E6 E6					.37 .37	NO NO			
A 18	1		E6 P1-F10					.37 .18	NO NO		 11, 23	
A 19	1		E8 P1-F8					.37 .18	NO NO		 11, 23	
A 20	1		E9 P1-B4					.37 .18	NO NO		 11, 23	
A 21	1		E9 E10					.37 .37	NO NO			
A 22	1		E11 P1-F5					.37 .18	NO NO		 11, 23	
A 23	1		E12 P1-B6					.37 .18	NO NO		 11, 23	
A 24	1		E13 P1-D18					.37 .18	NO NO		 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 7 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E14 P1-A11					.37 .18	NO NO		 11, 23	
A 26	1		E8 E8					.37 .37	NO NO			
A 27	1		E16 P1-F12					.37 .18	NO NO		 11, 23	
A 28	1		P12-17 P12-35					.15 .15	NO NO		12 12	
A 29	1		P1-B32 P12-8					.18 .15	NO NO		11, 23 12	
A 30			DELETED									
A 31	1		P1-A36 P1-A37					.18 .18	NO NO		11, 23 11, 23	
A 32	1		P12-52 P12-76					.15 .15	NO NO		12 12	
A 33	1		P1-B37 P1-C15					.18 .18	NO NO		11, 23 11, 23	
A 34	1		P12-53 P12-6					.15 .15	NO NO		12 12	
A 35	1		P1-C16 P1-D15					.18 .18	NO NO		11, 23 11, 23	
A 36	1		P12-18 P12-36					.15 .15	NO NO		12 12	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 8 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-D35 P1-F35					.18 .18	NO NO		11, 23 11, 23	
A 38	1		P12-70 P12-71					.15 .15	NO NO		12 12	
A 39	1		P1-D36 P1-F36					.18 .18	NO NO		11, 23 11, 23	
A 40	1		P12-72 P12-73					.15 .15	NO NO		12 12	
A 41	1		P1-F32 P1-G32					.18 .18	NO NO		11, 23 11, 23	
A 42	1		P12-82 P12-57					.15 .15	NO NO		12 12	
A 43	1		P1-G17 P1-G18					.18 .18	NO NO		11, 23 11, 23	
A 44	1		P12-83 P12-84					.15 .15	NO NO		12 12	
A 45	1		P1-B15 P1-B16					.18 .18	NO NO		11, 23 11, 23	
A 46	1		E7 P1-B9					.37 .18	NO NO		 11, 23	
A 47	1		P8-KK P1-G6					.22 .18	NO NO		13 11, 23	
A 48	1		P8-LL E11					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 9 OF 28

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P8-MM P1-A17					.22 .18	NO NO		13 11, 23	
A 50	1		P8-NN P1-A18					.22 .18	NO NO		13 11, 23	
A 51	1		P2-E P1-G5					.22 .18	NO NO		13 11, 23	
A 52	1		P2-N P1-G15					.22 .16	NO NO		13 11, 23	
A 53	1		P2-P P1-G16					.22 .18	NO NO		13 11, 23	
A 54	1		P2-V P1-A15					.22 .18	NO NO		13 11, 23	
A 55	1		P2-W P1-A16					.22 .18	NO NO		13 11, 23	
A 56	1		P2-X P1-C18					.22 .18	NO NO		13 11, 23	
A 57	1		P2-Y E13					.22 .37	NO NO		13	
A 58	1		P2-B* P1-D12					.22 .18	NO NO		13 11, 23	
A 59	1		P2-C* E16					.22 .37	NO NO		13	
A 60	1		P2-D* P1-B31					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 10 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P2-E* E13					.22 .37	NO NO		13	
A 62	1		P2-F* P12-27					.22 .15	NO NO		13 12	
A 63	1		P2-G* P12-26					.22 .15	NO NO		13 12	
A 64	1		P2-H* P1-D16					.22 .18	NO NO		13 11, 23	
A 65	1		P2-I* P1-F16					.22 .18	NO NO		13 11, 23	
A 66	1		P1-D8 P1-D8					.22 .18	NO NO		13 11, 23	
A 67	1		E15 E15					.22 .37	NO NO		13	
A 68	1		P1-F7 P1-F7					.22 .18	NO NO		13 11, 23	
A 69	1		P1-F24 P1-F24					.22 .18	NO NO		13 11, 23	
A 70	1		P1-G24 P1-G24					.22 .18	NO NO		13 11, 23	
A 71	1		P1-A24 P1-A24					.22 .18	NO NO		13 11, 23	
A 72	1		P1-B24 P1-B24					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 11 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 73	1		P1-D7 P1-D7					.22 .18	NO NO		13 11, 23	
A 74	1		E15 E15					.22 .37	NO NO		13	
A 75	1		P1-C24 P1-C24					.22 .18	NO NO		13 11, 23	
A 76	1		P1-D24 P1-D24					.22 .18	NO NO		13 11, 23	
A 77	1		P2-LL P12-47					.22 .15	NO NO		13 12	
A 78	2		P2-MM P2-G*					.22 .22	NO NO		13	
A 79	1		P2-NN P1-F15					.22 .18	NO NO		13 11, 23	
A 80	1		P3-A P1-B1					.22 .18	NO NO		13 11, 23	
A 81	1		P3-B E1					.22 .37	NO NO		13	
A 82	1		P3-C P1-A29					.22 .18	NO NO		13 11, 23	
A 83	1		P3-D P1-A28					.22 .18	NO NO		13 11, 23	
A 84	1		P3-E P1-B2					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 12 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-F E1					.22 .37	NO NO		13	
A 86	1		P3-G P1-B29					.22 .18	NO NO		13 11, 23	
A 87	1		P3-H P1-B28					.22 .18	NO NO		13 11, 23	
A 88	1		P3-J P1-C1					.22 .18	NO NO		13 11, 23	
A 89	1		P3-K E1					.22 .37	NO NO		13	
A 90	1		P3-L P1-C29					.22 .18	NO NO		13 11, 23	
A 91	1		P3-M P1-C28					.22 .18	NO NO		13 11, 23	
A 92	1		P3-N P1-D1					.22 .18	NO NO		13 11, 23	
A 93	1		P3-P E1					.22 .37	NO NO		13	
A 94	1		P3-R P1-D29					.22 .18	NO NO		13 11, 23	
A 95	1		P3-S P1-D28					.22 .18	NO NO		13 11, 23	
A 96	1		P3-T P1-F1					.22 .18	NO NO		13 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 13 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P6-K* E7					.22 .37	NO NO		13	
A 146	1		P6-M* P1-D33,					.22 .18	NO NO		13 11, 23	
A 147	1		P6-P* P1-C4					.22 .18	NO NO		13 11, 23	
A 148	1		P6-Q* E10					.22 .37	NO NO		13	
A 149	1		P6-R* P1-G27					.22 .18	NO NO		13 11, 23	
A 150	1		P6-S* P1-F27					.22 .18	NO NO		13 11, 23	
A 151	1		P1-F6 P1-F6					.22 .18	NO NO		13 11, 23	
A 152	1		E11 E11					.22 .37	NO NO		13	
A 153	1		P6-X* P1-B5					.22 .18	NO NO		13 11, 23	
A 154	1		P6-Y* E12					.22 .37	NO NO		13	
A 155	1		P6-Z* P1-G37					.22 .18	NO NO		13 11, 23	
A 156	1		P6-AA P1-G36					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 18 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-BB P1-C6					.22 .18	NO NO		13 11, 23	
A 158	1		P6-CC E12					.22 .37	NO NO		13	
A 159	1		P6-DD P1-G38					.22 .18	NO NO		13 11, 23	
A 160	1		P6-FF P1-A6					.22 .18	NO NO		13 11, 23	
A 161	1		P6-GG E12					.22 .37	NO NO		13	
A 162	1		P6-HH P1-G39					.22 .18	NO NO		13 11, 23	
A 163	1		P7-A P1-G4					.22 .18	NO NO		13 11, 23	
A 164	1		P7-B E3					.22 .37	NO NO		13	
A 165	1		P7-C P1-D26					.22 .18	NO NO		13 11, 23	
A 166	1		P7-D P1-D25					.22 .18	NO NO		13 11, 23	
A 167	1		P7-E P1-C7					.22 .18	NO NO		13 11, 23	
A 168	1		P7-F E4					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 19 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 169	2		P7-G P3-V					.22 .22	NO NO		13	
A 170	2		P7-H P3-W					.22 .22	NO NO		13	
A 171	1		P1-D10 P1-D10					.22 .18	NO NO		13 11, 23	
A 172	1		E5 E5					.22 .37	NO NO		13	
A 173	1		P1-D21 P1-D21					.22 .18	NO NO		13 11, 23	
A 174	1		P1-D22 P1-D22					.22 .18	NO NO		13 11, 23	
A 175	1		P7-N P1-G7					.22 .18	NO NO		13 11, 23	
A 176	1		P7-P E8					.22 .37	NO NO		13	
A 177	1		P7-T P1-B3					.22 .18	NO NO		13 11, 23	
A 178	1		P7-U E9					.22 .37	NO NO		13	
A 179	1		P7-V P1-D37					.22 .18	NO NO		13 11, 23	
A 180	1		P7-W P1-F37					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 20 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P7-X P1-A3					.22 .18	NO NO		13 11, 23	
A 182	1		P7-Y E9					.22 .37	NO NO		13	
A 183	1		P7-Z P1-D38					.22 .18	NO NO		13 11, 23	
A 184	1		P7-A* P1-F38					.22 .18	NO NO		13 11, 23	
A 185	1		P7-B* P1-C3					.22 .18	NO NO		13 11, 23	
A 186	1		P7-C* E9					.22 .37	NO NO		13	
A 187	1		P7-D* P1-D39					.22 .18	NO NO		13 11, 23	
A 188	1		P7-E* P1-F39					.22 .18	NO NO		13 11, 23	
A 189	1		P7-F* P1-A7					.22 .18	NO NO		13 11, 23	
A 190	1		P7-G* E4					.22 .37	NO NO		13	
A 191	2		P7-H* P3-C					.22 .22	NO NO		13	
A 192	2		P7-I* P3-D					.22 .22	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 21 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-J* P1-B7					.22 .18	NO NO		13 11, 23	
A 194	1		P7-K* E4					.22 .37	NO NO		13	
A 195	2		P7-M* P3-L					.22 .22	NO NO		13	
A 196	2		P7-N* P3-M					.22 .22	NO NO		13	
A 197	1		P7-P* P1-D5					.22 .18	NO NO		13 11, 23	
A 198	1		P7-Q* E11					.22 .37	NO NO		13	
A 199	1		P7-FF P1-G8					.22 .18	NO NO		13 11, 23	
A 200	1		P7-GG E8					.22 .37	NO NO		13	
A 201	1		P7-HH P1-C19					.22 .18	NO NO		13 11, 23	
A 202	1		P7-JJ P1-C20					.22 .18	NO NO		13 11, 23	
A 203	1		P8-A P1-G12					.22 .18	NO NO		13 11, 23	
A 204	1		P8-B E16					.22 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 22 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P8-C P1-D31					.22 .18	NO NO		13 11, 23	
A 206	1		P8-D E13					.22 .37	NO NO		13	
A 207	1		P8-E P1-F13					.22 .18	NO NO		13 11, 23	
A 208	1		P8-F E16					.22 .37	NO NO		13	
A 209	1		P8-G P1-G31					.22 .18	NO NO		13 11, 23	
A 210	1		P8-H E13					.22 .37	NO NO		13	
A 211	1		P8-N P1-B8					.22 .18	NO NO		13 11, 23	
A 212	1		P8-P E7					.22 .37	NO NO		13	
A 213	1		P7-X* P1-D11					.22 .18	NO NO		13 11, 23	
A 214	2		P7-Y* P8-Y					.22 .22	NO NO		13 13	
A 215	1		P7-Z* P1-D19					.22 .18	NO NO		13 11, 23	
A 216	2		P7-AA P8-A*					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 23 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P8-X P1-C11					.22 .18	NO NO		13 11, 23	
A 218	1		P8-Y P1-C12					.22 .18	NO NO		13 11, 23	
A 219	1		P8-Z P1-D20					.22 .18	NO NO		13 11, 23	
A 220	2		P8-B* P2-X					.22 .22	NO NO		13	
A 221	1		P8-C* E13					.22 .37	NO NO		13	
A 222	1		P8-F* P1-A10					.22 .18	NO NO		13 11, 23	
A 223	1		P8-G* E14					.22 .37	NO NO		13	
A 224	1		P8-B* P1-C17					.22 .18	NO NO		 11, 23	
A 225	1		P8-I* E13					.22 .37	NO NO		13	
A 226	1		P8-P* P1-B10					.22 .18	NO NO		13 11, 23	
A 227	1		P8-Q* E14					.22 .37	NO NO		13	
A 228	1		P8-R* P1-F17					.22 .18	NO NO		13 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 24 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P8-S* P1-F18					.22 .18	NO NO		13 11, 23	
A 230	1		P8-T* P12-21					.22 .15	NO NO		13 12	
A 231	1		P8-U* P12-43					.22 .15	NO NO		13 12	
A 232	1		P8-V* P1-A34					.22 .18	NO NO		13 11, 23	
A 233	1		P8-W* P1-D17					.22 .18	NO NO		13 11, 23	
A 234	1		P1-A31 P1-A31					.22 .18	NO NO		13 11, 23	
A 235	1		E13 E13					.22 .37	NO NO		13	
A 236	1		P1-C31 P1-C31					.22 .18	NO NO		13 11, 23	
A 237	1		E13 E13					.22 .37	NO NO		13	
A 238	1		P1-F31 P1-F31					.22 .18	NO NO		13 11, 23	
A 239	1		E13 E13					.22 .37	NO NO		13	
A 240	1		P8-A* P1-F14					.22 .18	NO NO		 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 25 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P4-BB E17					.22 .37	NO NO		13	
A 242	1		P4-CC E17					.22 .37	NO NO		13	
A 243	1		P4-DD E17					.22 .37	NO NO		13	
A 244	1		P4-EE E17					.22 .37	NO NO		13	
A 245	1		P4-FF E17					.22 .37	NO NO		13	
A 246	2		P3-FF P2-N					.22 .22	NO NO		13	
A 247	2		P3-GG P2-P					.22 .22	NO NO		13	
A 248	2		P3-KK P2-V					.22 .22	NO NO		13	
A 249	2		P3-LL P2-W					.22 .22	NO NO		13	
A 250	1		P7-KK P1-D13					.22 .18	NO NO		13 11, 23	
A 251	2		P7-LL P3-CC					.22 .22	NO NO		13 13	
A 252	1		P7-MM P1-C32					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR G | SHEET 26 OF 28

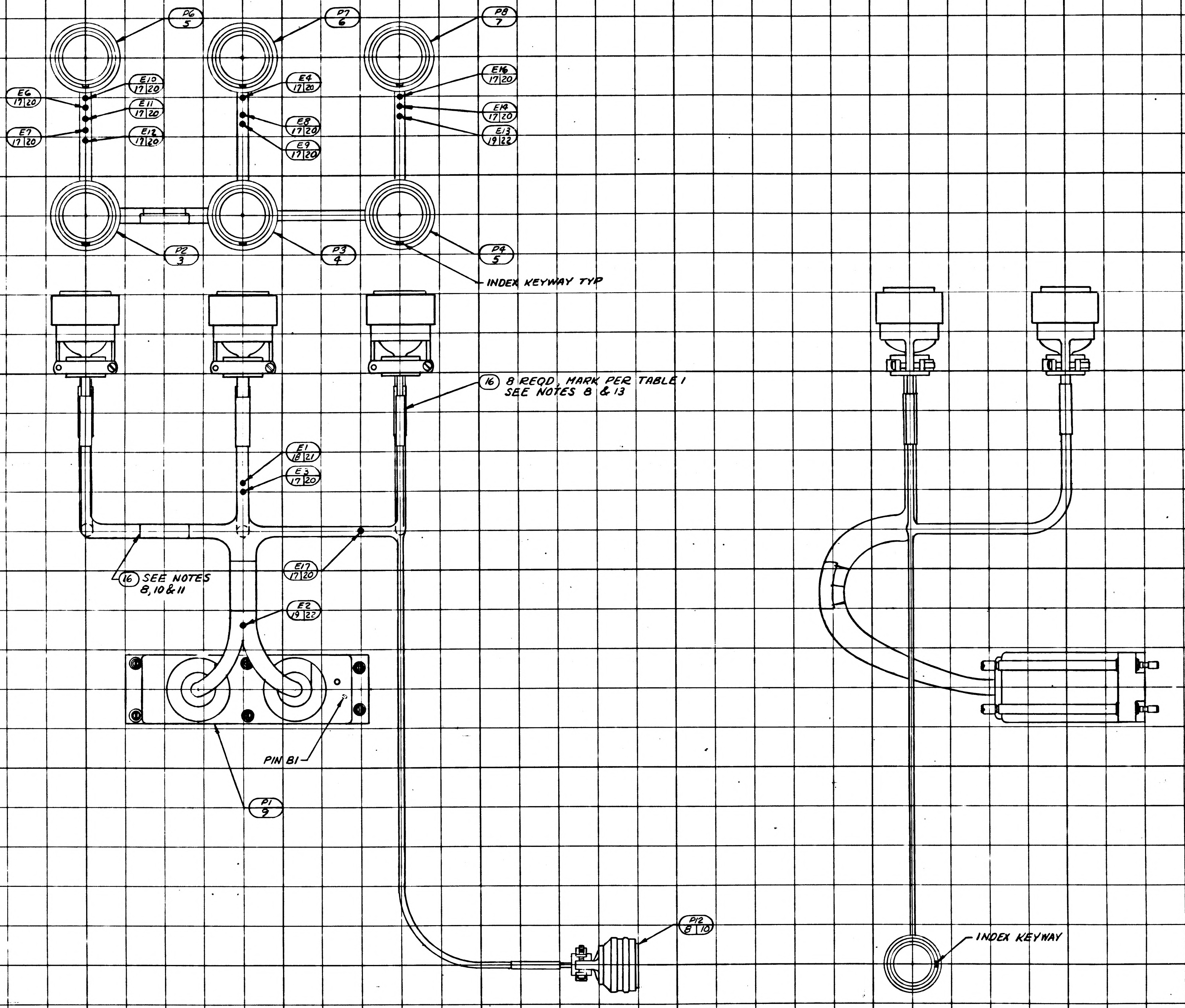
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P7-NN P1-D32					.22 .18	NO NO		13 11, 23	
A 254	1		P3-BB P1-G13					.22 .18	NO NO		13 11, 23	
A 255	1		P3-CC E16					.22 .37	NO NO			
A 256	1		P3-DD P1-B19					.22 .18	NO NO		13 11, 23	
A 257	1		P3-EE P1-B20					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR G | SHEET 27 OF 28

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD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P7 6
P8 7
E10 17 20
E6 17 20
E11 17 20
E7 17 20
E12 17 20
E4 17 20
E8 17 20
E9 17 20
E16 17 20
E14 17 20
E13 19 22
P2 3
P3 4
P4 5
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E3 17 20
16 SEE NOTES 8, 10 & 11
E17 17 20
E2 19 22
PIN 81
P1 9
P12 8 10
INDEX KEYWAY

TABLE I

LOCATION	MARK ID BAND
P1	P1 (J1 SCA)
P2	P2 (J2 IN/OUT PANEL)
P3	P3 (J3 " ")
P4	P4 (J4 " ")
P6	P6 (J6 " ")
P7	P7 (J7 " ")
P8	P8 (J8 IN/OUT PANEL)
P12	P12 (J2 SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R.G.Olson DATE 16 MAR 66
CHECKED Foster 22 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE E
CODE IDENT NO. 99974
2901420
SCALE 1/1
SHEET 3 OF 23

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

REVISIONS

	LTR	DESCRIPTION	DATE	APPROVED
	A	REVISED PER D.O. 61867	31 MAR 66	JJJ JRC
	B	REVISED PER D.O. 61883	5 APR 66	FRW
	C	REVISED PER MXC 211541	21 APR 66	JHP/JRS
	D	REVISED PER MXC 211990	2 MAY 66	LK W.D.
m,	E	INITIAL RELEASE CLASS A PER TDRR 28674	3 MAY 66	JHP EF
Ⓖ	F	REVISED PER TDRR 29894	13-JUL-66	B. W.D.
ⓜ	G	REVISED PER TDRR 30082	21-JUL 66	
	H	REVISED PER TDRR 30481	9 AUG. 66	JI RW

25 MAR 66

REV		G	G	G	G	G	G	H	G												
SHEET		21	22	23	24	25	26	27	28												
REV STATUS OF SHEETS	REV				H	G	G	H	H	G	G	H	H	G	G	G	G	G	H	G	G	G	G	G
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66 (DAY MO YR)
CHECKER 25 MAR 66
ENGINEER 25 Mar 66
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CONTR NO. NAS9-497
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE	CODE IDENT. NO	
A	99974	2901420
SCALE NONE		SHEET 1 OF 28

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES EXCEPT ITEM 8 AND 9.
4	A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.
5	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
6	APPLY LEAD IDENTIFICATIONS PER ND1002019.
7	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019.
8	FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 14.
9	ASSEMBLE PER ND1002032.
10	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
11	SERIALIZE PER ND1002023.
12	ITEM 13 IS SUPPLIED WITH ITEM 3 THRU 7 AND ITEM 12 IS SUPPLIED WITH ITEM 8.
13	MARK IDENTIFICATION BANDS AS NOTED IN TABLE I, PER ND1002019. CENTRALIZE.
14	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CABLE CLAMP USING ITEM 15 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP OR CABLE CLAMP.
15	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.

NOTE NUMBER	GENERAL NOTES DESCRIPTION
16	GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED CABLE DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF CABLE FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.
17	CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 2 OHMS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901420-001	WIRE ND1002181 CLASS 1, TYPE 1, 22AWG, WHITE TOTAL LENGTH
	2	1	2901420-002	WIRE ND1002181 CLASS 1, TYPE 1, 24AWG, WHITE TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELECTRICAL
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR, RECEPTACLE, ELECTRICAL
5	8	1	1897250-001	CONNECTOR, PLUG, ELECTRICAL (PIN CONTACT)
	9	1	2901162-011	CONNECTOR, RECEPTACLE, ELECTRICAL
5	10	1	1010933-105	CLAMP, CABLE, ELECTRICAL
5	11	155	1897300-003	CONTACT, SPRING SOCKET
12	12	X	1897190- 1	CONTACT, ELECTRICAL PIN (FURNISHED WITH ITEM 8)
12	13	X	MS3192A-20A	(1898855-020) CONTACT-ELECTRICAL, PIN (FURNISHED WITH ITEM 3 THRU 7)
5	14	AR	1012507-004	TAPE, LACING AND TYING
14	15	AR	MIL-I-631, TYPE F, FORM T, BLACK, GRADE A, CLASS 1	FILLER TAPE .62 WIDE, .02 THICK

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	9	1016128-011	BAND-IDENTIFICATION
5	17	12	1016006-001	SPLICE, REDUCER
5	18	1	1016006-002	SPLICE, REDUCER
5	19	2	1016006-003	SPLICE, REDUCER
5	20	12	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	21	1	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	22	2	1010490-256	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	23	155	1015864-232	INSULATION, SLEEVING, ELECTRICAL

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	1		E1 P1-C2					.37 .18	NO NO		 11, 23	
A 2	1		E2 P1-A30					.37 .18	NO NO		 11, 23	
A 3	1		E2 P1-B30					.37 .18	NO NO		 11, 23	
A 4	1		E2 P1-C30					.37 .18	NO NO		 11, 23	
A 5	1		E2 P1-D30					.37 .18	NO NO		 11, 23	
A 6	1		E2 P1-F30					.37 .18	NO NO		 11, 23	
A 7	1		E2 P1-G30					.37 .18	NO NO		 11, 23	
A 8	1		E2 P1-A27					.37 .18	NO NO		 11, 23	
A 9	1		E2 P1-B27					.37 .18	NO NO		 11, 23	
A 10	1		E2 P1-C27					.37 .18	NO NO		 11, 23	
A 11	1		E2 P1-D27					.37 .18	NO NO		 11, 23	
A 12	1		P1-B23 P1-B23					.37 .18	NO NO		 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 6 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	1		P1-D23 P1-D23					.37 .18	NO NO		 11, 23	
A 14	1		E2 P2-U*					.37 .22	NO NO		 13	
A 15	1		E3 P1-F3					.37 .18	NO NO		 11, 23	
A 16	1		E7 E4					.37 .37	NO NO			
A 17	1		E6 E6					.37 .37	NO NO			
A 18	1		E6 P1-F10					.37 .18	NO NO		 11, 23	
A 19	1		E8 P1-F8					.37 .18	NO NO		 11, 23	
A 20	1		E9 P1-B4					.37 .18	NO NO		 11, 23	
A 21	1		E9 E10					.37 .37	NO NO			
A 22	1		E11 P1-F5					.37 .18	NO NO		 11, 23	
A 23	1		E12 P1-B6					.37 .18	NO NO		 11, 23	
A 24	1		E13 P1-D18					.37 .18	NO NO		 11, 23	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR G
SHEET 7 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25	1		E14 P1-A11					.37 .18	NO NO		 11, 23	
A 26	1		E8 E8					.37 .37	NO NO			
A 27	1		E16 P1-F12					.37 .18	NO NO		 11, 23	
A 28	1		P12-17 P12-35					.15 .15	NO NO		12 12	
A 29	1		P1-B32 P1-C34					.18 .18	NO NO		11, 23 11, 23	
A 30			DELETED									
A 31	1		P1-A36 P1-B34					.18 .18	NO NO		11, 23 11, 23	
A 32	1		P12-77 P12-76					.15 .15	NO NO		12 12	
A 33	1		P1-B37 P1-A37					.18 .18	NO NO		11, 23 11, 23	
A 34	1		P12-53 P12-6					.15 .15	NO NO		12 12	
A 35	1		P1-C16 P1-C15					.18 .18	NO NO		11, 23 11, 23	
A 36	1		P12-18 P12-36					.15 .15	NO NO		12 12	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR H
SHEET 8 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 37	1		P1-D35 P1-D15					.18 .18	NO NO		11, 23 11, 23	
A 38	1		P12-70 P12-71					.15 .15	NO NO		12 12	
A 39	1		P1-D36 P1-F35					.18 .18	NO NO		11, 23 11, 23	
A 40	1		P12-72 P12-73					.15 .15	NO NO		12 12	
A 41	1		P1-F32 P1-F36					.18 .18	NO NO		11, 23 11, 23	
A 42	1		P12-82 P12-57					.15 .15	NO NO		12 12	
A 43	1		P1-G17 P1-G32					.18 .18	NO NO		11, 23 11, 23	
A 44	1		P12-83 P12-84					.15 .15	NO NO		12 12	
A 45	1		P1-B15 P1-G18					.18 .18	NO NO		11, 23 11, 23	
A 46	1		E7 P1-B9					.37 .18	NO NO		 11, 23	
A 47	1		P8-KK P1-G6					.22 .18	NO NO		13 11, 23	
A 48	1		P8-LL E11					.22 .37	NO NO		13	

SIZE A
CODE IDENT NO. 99974
2901420
SCALE-NONE
REV LTR H
SHEET 9 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-J* P1-B7					.22 .18	NO NO		13 11, 23	
A 194	1		P7-K* E4					.22 .37	NO NO		13	
A 195	2		P7-M* P3-L					.22 .22	NO NO		13	
A 196	2		P7-N* P3-M					.22 .22	NO NO		13	
A 197	1		P7-P* P1-D5					.22 .18	NO NO		13 11, 23	
A 198	1		P7-Q* E11					.22 .37	NO NO		13	
A 199	1		P7-FF P1-G8					.22 .18	NO NO		13 11, 23	
A 200	1		P7-GG E8					.22 .37	NO NO		13	
A 201	1		P7-HH P1-C19					.22 .18	NO NO		13 11, 23	
A 202	1		P7-JJ P1-C20					.22 .18	NO NO		13 11, 23	
A 203	1		P8-A P1-G12					.22 .18	NO NO		13 11, 23	
A 204	1		P8-B E16					.22 .37	NO NO		13	

SIZE A	CODE IDENT NO. 99974	2901420		
SCALE-NONE	REV LTR G	SHEET 22 OF 28		

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P8-C P1-D31					.22 .18	NO NO		13 11, 23	
A 206	1		P8-D E13					.22 .37	NO NO		13	
A 207	1		P8-E P1-F13					.22 .18	NO NO		13 11, 23	
A 208	1		P8-F E16					.22 .37	NO NO		13	
A 209	1		P8-G P1-G31					.22 .18	NO NO		13 11, 23	
A 210	1		P8-H E13					.22 .37	NO NO		13	
A 211	1		P8-N P1-B8					.22 .18	NO NO		13 11, 23	
A 212	1		P8-P E7					.22 .37	NO NO		13	
A 213	1		P7-X* P1-D11					.22 .18	NO NO		13 11, 23	
A 214	2		P7-Y* P8-Y					.22 .22	NO NO		13 13	
A 215	1		P7-Z* P1-D19					.22 .18	NO NO		13 11, 23	
A 216	2		P7-AA P8-A*					.22 .22	NO NO		13 13	

SIZE A	CODE IDENT NO. 99974	2901420		
SCALE-NONE	REV LTR G	SHEET 23 OF 28		

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P8-X P1-C11					.22 .18	NO NO		13 11, 23	
A 218	1		P8-Y P1-C12					.22 .18	NO NO		13 11, 23	
A 219	1		P8-Z P1-D20					.22 .18	NO NO		13 11, 23	
A 220	2		P8-B* P2-X					.22 .22	NO NO		13	
A 221	1		P8-C* E13					.22 .37	NO NO		13	
A 222	1		P8-F* P1-A10					.22 .18	NO NO		13 11, 23	
A 223	1		P8-G* E14					.22 .37	NO NO		13	
A 224	1		P8-B* P1-C17					.22 .18	NO NO		 11, 23	
A 225	1		P8-I* E13					.22 .37	NO NO		13	
A 226	1		P8-P* P1-B10					.22 .18	NO NO		13 11, 23	
A 227	1		P8-Q* E14					.22 .37	NO NO		13	
A 228	1		P8-R* P1-F17					.22 .18	NO NO		13 11, 23	

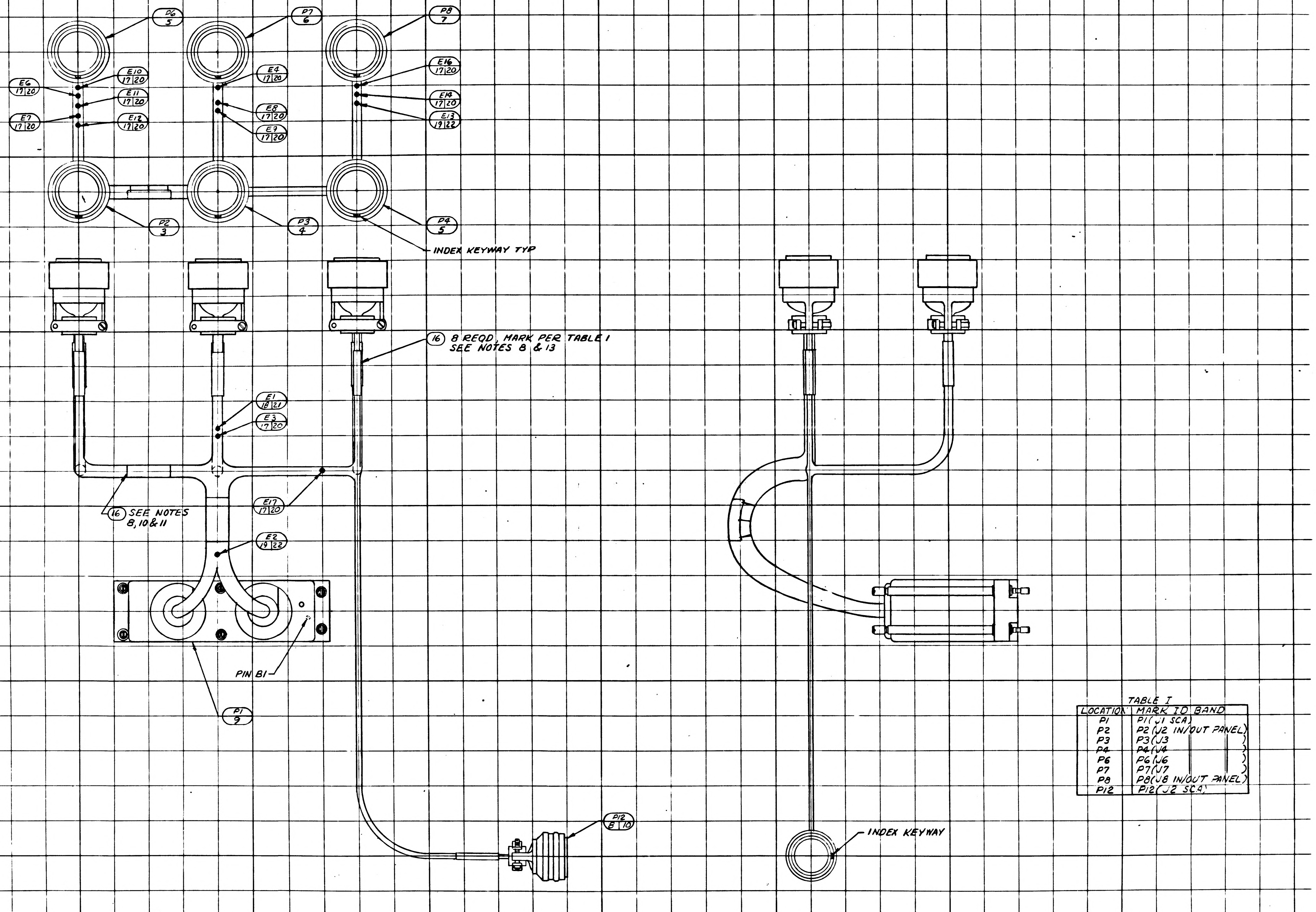
SIZE A	CODE IDENT NO. 99974	2901420		
SCALE-NONE	REV LTR G	SHEET 24 OF 28		

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P8-S* P1-F18					.22 .18	NO NO		13 11, 23	
A 230	1		P8-T* P12-21					.22 .15	NO NO		13 12	
A 231	1		P8-U* P12-43					.22 .15	NO NO		13 12	
A 232	1		P8-V* P1-A34					.22 .18	NO NO		13 11, 23	
A 233	1		P8-W* P1-D17					.22 .18	NO NO		13 11, 23	
A 234	1		P1-A31 P1-A31					.22 .18	NO NO		13 11, 23	
A 235	1		E13 E13					.22 .37	NO NO		13	
A 236	1		P1-C31 P1-C31					.22 .18	NO NO		13 11, 23	
A 237	1		E13 E13					.22 .37	NO NO		13	
A 238	1		P1-F31 P1-F31					.22 .18	NO NO		13 11, 23	
A 239	1		E13 E13					.22 .37	NO NO		13	
A 240	1		P8-A* P1-F14					.22 .18	NO NO		 11, 23	

SIZE A	CODE IDENT NO. 99974	2901420		
SCALE-NONE	REV LTR G	SHEET 25 OF 28		

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



P6 5
P7 6
P8 7
E10 17 20
E6 17 20
E11 17 20
E7 17 20
E12 17 20
E4 17 20
E8 17 20
E9 17 20
E16 17 20
E14 17 20
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⑯ 8 REQD, MARK PER TABLE I SEE NOTES 8 & 13
E1 18 21
E3 17 20
E17 17 20
⑯ SEE NOTES 8, 10 & 11
E2 19 22
PIN B1
P1 9
P12 8 10
INDEX KEYWAY

TABLE I

LOCATION	MARK ID BAND
P1	P1(J1 SCA)
P2	P2(J2 IN/OUT PANEL)
P3	P3(J3 〃 〃)
P4	P4(J4 〃 〃)
P6	P6(J6 〃 〃)
P7	P7(J7 〃 〃)
P8	P8(J8 IN/OUT PANEL)
P12	P12(J2 SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
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MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN 16 MAR 66 DATE
CHECKED 22 MAR 66
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CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE E
CODE IDENT NO. 99974
2901420
SCALE 1/1
SHEET

APPLICATION	
NEXT ASSY	USED ON
2901044-011	2900895-011

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H	REVISED PER TDRR 30481	9 AUG. 66	JI
J	REVISED PER TDRR 31041	5 OCT 66	DG AU

25 MAR 66

REV	G	G	G	G	J	G	H	G	
SHEET	21	22	23	24	25	26	27	28	

REV STATUS OF SHEETS																							
REV				J	G	G	H	H	J	J	J	H	G	J	J	G	G	H	J	G	J	G	J
SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 16 MAR 66
DAY MO YR
CHECKER 25 MAR
ENGINEER
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED - LEM SCA

SIZE A
CODE IDENT. NO 99974
2901420
SCALE NONE
SHEET 1 OF 28

MIL 1377A6 12-65

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SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 2 OF 28

NOTE NUMBER	GENERAL NOTES DESCRIPTION
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LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 3 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901420-001	WIRE ND1002181 CLASS 1, TYPE 1, 22AWG, WHITE TOTAL LENGTH
	2	1	2901420-002	WIRE ND1002181 CLASS 1, TYPE 1, 24AWG, WHITE TOTAL LENGTH
	3	1	MS3126F24-61PZ	(1897047-614) CONNECTOR-PLUG, ELECTRICAL
	4	1	MS3126F24-61PW	(1897047-611) CONNECTOR-PLUG, ELECTRICAL
	5	2	MS3126F24-61P	(1897047-610) CONNECTOR-PLUG, ELECTRICAL
	6	1	MS3126F24-61PX	(1897047-612) CONNECTOR-PLUG, ELECTRICAL
	7	1	MS3126F24-61PY	(1897047-613) CONNECTOR, RECEPTACLE, ELECTRICAL
5	8	1	1897250-001	CONNECTOR, PLUG, ELECTRICAL (PIN CONTACT)
	9	1	2901162-011	CONNECTOR, RECEPTACLE, ELECTRICAL
5	10	1	1010933-105	CLAMP, CABLE, ELECTRICAL
5	11	155	1897300-003	CONTACT, SPRING SOCKET
12	12	X	1897190- 1	CONTACT, ELECTRICAL PIN (FURNISHED WITH ITEM 8)
12	13	X	MS3192A-20A	(1898855-020) CONTACT-ELECTRICAL, PIN (FURNISHED WITH ITEM 3 THRU 7)
5	14	AR	1012507-004	TAPE, LACING AND TYING
14	15	AR	MIL-I-631, TYPE F, FORM T, BLACK, GRADE A, CLASS 1	FILLER TAPE .62 WIDE, .02 THICK

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR H	SHEET 4 OF 28

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
5	16	9	1016128-011	BAND-IDENTIFICATION
5	17	12	1016006-001	SPLICE, REDUCER
5	18	1	1016006-002	SPLICE, REDUCER
5	19	2	1016006-003	SPLICE, REDUCER
5	20	12	1010490-228	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	21	1	1010490-258	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	22	2	1010490-256	INSULATION-SLEEVING,ELECTRICAL,HEAT SHRINKABLE
5	23	155	1015864-232	INSULATION, SLEEVING, ELECTRICAL

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR H	SHEET 5 OF 28

CABLE ASSEMBLY 2901420 J ~~6~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	1	1		E1 P1-C2				.37 .18	NO NO		 11, 23	
A	2	1		E2 P1-A30				.37 .18	NO NO		 11, 23	
A	3	1		E2 P1-B30				.37 .18	NO NO		 11, 23	
A	4	1		E2 P1-C30				.37 .18	NO NO		 11, 23	
A	5	1		E2 P1-D30				.37 .18	NO NO		 11, 23	
A	6	1		E2 P1-F30				.37 .18	NO NO		 11, 23	
A	7	1		E2 P1-G30				.37 .18	NO NO		 11, 23	
A	8	1		E2 P1-A27				.37 .18	NO NO		 11, 23	
A	9	1		E2 P1-B27				.37 .18	NO NO		 11, 23	
A	10	1		E2 P1-C27				.37 .18	NO NO		 11, 23	
A	11	1		E2 P1-D27				.37 .18	NO NO		 11, 23	
~~A~~	~~12~~	~~1~~		~~P1-A23~~ ~~P1-B23~~ DELETED				~~.37~~ ~~.18~~	~~NO~~ ~~NO~~		 ~~11, 23~~	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~6~~ J	SHEET 6 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 J ~~6~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
~~A~~	~~13~~	~~1~~		~~P1-[illegible]~~ ~~P1-[illegible]~~ DELETED				~~.37~~ ~~.18~~	~~NO~~ ~~NO~~		 ~~11, 23~~	
A	14	1		E2 P2-U*				.37 .22	NO NO		 13	
A	15	1		E3 P1-F3				.37 .18	NO NO		 11, 23	
A	16	1		E7 E4				.37 .37	NO NO			
~~A~~	~~17~~	~~1~~		~~E4~~ ~~E6~~ DELETED				~~.37~~ ~~.37~~	~~NO~~ ~~NO~~			
A	18	1		E6 P1-F10				.37 .18	NO NO		 11, 23	
A	19	1		E8 P1-F8				.37 .18	NO NO		 11, 23	
A	20	1		E9 P1-B4				.37 .18	NO NO		 11, 23	
A	21	1		E9 E10				.37 .37	NO NO			
A	22	1		E11 P1-F5				.37 .18	NO NO		 11, 23	
A	23	1		E12 P1-B6				.37 .18	NO NO		 11, 23	
A	24	1		E13 P1-D18				.37 .18	NO NO		 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~6~~ J	SHEET 7 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 J ~~H~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	25	1		E14 P1-A11				.37 .18	NO NO		 11, 23	
~~A~~	~~26~~	~~1~~		~~E8~~ ~~E8~~ DELETED				~~.37~~ ~~.37~~	~~NO~~ ~~NO~~			
A	27	1		E16 P1-F12				.37 .18	NO NO		 11, 23	
A	28	1		P12-17 P12-35				.15 .15	NO NO		12 12	
A	29	1		P1-B32 P1-C34				.18 .18	NO NO		11, 23 11, 23	
A	30			DELETED								
A	31	1		P1-A36 P1-B34				.18 .18	NO NO		11, 23 11, 23	
A	32	1		P12-77 P12-76				.15 .15	NO NO		12 12	
A	33	1		P1-B37 P1-A37				.18 .18	NO NO		11, 23 11, 23	
A	34	1		P12-53 P12-6				.15 .15	NO NO		12 12	
A	35	1		P1-C16 P1-C15				.18 .18	NO NO		11, 23 11, 23	
A	36	1		P12-18 P12-36				.15 .15	NO NO		12 12	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~H~~ J	SHEET 8 OF 28

MIL 2084 9-65

CABLE ASSEMBLY 2901420 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	37	1		P1-D35 P1-D15				.18 .18	NO NO		11, 23 11, 23	
A	38	1		P12-70 P12-71				.15 .15	NO NO		12 12	
A	39	1		P1-D36 P1-F35				.18 .18	NO NO		11, 23 11, 23	
A	40	1		P12-72 P12-73				.15 .15	NO NO		12 12	
A	41	1		P1-F32 P1-F36				.18 .18	NO NO		11, 23 11, 23	
A	42	1		P12-82 P12-57				.15 .15	NO NO		12 12	
A	43	1		P1-G17 P1-G32				.18 .18	NO NO		11, 23 11, 23	
A	44	1		P12-83 P12-84				.15 .15	NO NO		12 12	
A	45	1		P1-B15 P1-G18				.18 .18	NO NO		11, 23 11, 23	
A	46	1		E7 P1-B9				.37 .18	NO NO		 11, 23	
A	47	1		P8-KK P1-G6				.22 .18	NO NO		13 11, 23	
A	48	1		P8-LL E11				.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR H	SHEET 9 OF 28

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	1		P8-MM P1-A17					.22 .18	NO NO		13 11, 23	
A 50	1		P8-NN P1-A18					.22 .18	NO NO		13 11, 23	
A 51	1		P2-E P1-G5					.22 .18	NO NO		13 11, 23	
A 52	1		P2-N P1-G15					.22 .18	NO NO		13 11, 23	
A 53	1		P2-P P1-G16					.22 .18	NO NO		13 11, 23	
A 54	1		P2-V P1-A15					.22 .18	NO NO		13 11, 23	
A 55	1		P2-W P1-A16					.22 .18	NO NO		13 11, 23	
A 56	1		P2-X P1-C19					.22 .18	NO NO		13 11, 23	
A 57	1		P2-Y E13					.22 .37	NO NO		13	
A 58	1		P2-B* P1-D12					.22 .18	NO NO		13 11, 23	
A 59	1		P2-C* E16					.22 .37	NO NO		13	
A 60	1		P2-D* P1-B31					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR G | SHEET 10 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 61	1		P2-E* E13					.22 .37	NO NO		13	
A 62	1		P2-F* P12-27					.22 .15	NO NO		13 12	
A 63	1		P2-G* P12-26					.22 .15	NO NO		13 12	
A 64	1		P2-H* P1-D16					.22 .18	NO NO		13 11, 23	
A 65	1		P2-I* P1-F16					.22 .18	NO NO		13 11, 23	
~~A 66~~	~~1~~		~~P1-D8~~ ~~P1-D8~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 67~~	~~1~~		~~E16~~ ~~E15~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 68~~	~~1~~		~~P1-F7~~ ~~P1-F7~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 69~~	~~1~~		~~P1-F24~~ ~~P1-F24~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 70~~	~~1~~		~~P1-G24~~ ~~P1-G24~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 71~~	~~1~~		~~P1-A24~~ ~~P1-A24~~	DELETED				~~.22~~ ~~.16~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 72~~	~~1~~		~~P1-B24~~ ~~P1-B24~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR ~~G~~ J | SHEET 11 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
~~A 73~~	~~1~~		~~P1-D7~~ ~~P1-D7~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 74~~	~~1~~		~~E15~~ ~~E15~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 75~~	~~1~~		~~P1-C24~~ ~~P1-C24~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 76~~	~~1~~		~~P1-D24~~ ~~P1-D24~~	DELETED				~~.22~~ ~~.16~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
A 77	1		P2-LL P12-47					.22 .15	NO NO		13 12	
A 78	2		P2-MM P2-G*					.22 .22	NO NO		13	
A 79	1		P2-NN P1-F15					.22 .18	NO NO		13 11, 23	
A 80	1		P3-A P1-B1					.22 .18	NO NO		13 11, 23	
A 81	1		P3-B E1					.22 .37	NO NO		13	
A 82	1		P3-C P1-A29					.22 .18	NO NO		13 11, 23	
A 83	1		P3-D P1-A28					.22 .18	NO NO		13 11, 23	
A 84	1		P3-E P1-B2					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR ~~G~~ J | SHEET 12 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85	1		P3-F E1					.22 .37	NO NO		13	
A 86	1		P3-G P1-B29					.22 .18	NO NO		13 11, 23	
A 87	1		P3-H P1-B28					.22 .18	NO NO		13 11, 23	
A 88	1		P3-J P1-C1					.22 .18	NO NO		13 11, 23	
A 89	1		P3-K E1					.22 .37	NO NO		13	
A 90	1		P3-L P1-C29					.22 .18	NO NO		13 11, 23	
A 91	1		P3-M P1-C28					.22 .18	NO NO		13 11, 23	
A 92	1		P3-N P1-D1					.22 .18	NO NO		13 11, 23	
A 93	1		P3-P E1					.22 .37	NO NO		13	
A 94	1		P3-R P1-D29					.22 .18	NO NO		13 11, 23	
A 95	1		P3-S P1-D28					.22 .18	NO NO		13 11, 23	
A 96	1		P3-T P1-F1					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420

SCALE-NONE | REV LTR G | SHEET 13 OF 28

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 97	1		P3-U					.22	NO		13	
			E1					.37	NO			
A 98	1		P3-V					.22	NO		13	
			P1-F29					.18	NO		11, 23	
A 99	1		P3-W					.22	NO		13	
			P1-F28					.18	NO		11, 23	
A 100	1		P3-X					.22	NO		13	
			P1-D2					.18	NO		11, 23	
A 101	1		P3-Y					.22	NO		13	
			E1					.37	NO			
A 102	1		P3-Z					.22	NO		13	
			P1-G29					.18	NO		11, 23	
A 103	1		P3-A*					.22	NO		13	
			P1-G28					.18	NO		11, 23	
A 104	1		P3-B*					.22	NO		13	
			P1-F2					.18	NO		11, 23	
A 105	1		P3-C*					.22	NO		13	
			E3					.37	NO			
A 106	1		P3-D*					.22	NO		13	
			P1-A26					.18	NO		11, 23	
A 107	1		P3-E*					.22	NO		13	
			P1-A25					.18	NO		11, 23	
A 108	1		P3-F*					.22	NO		13	
			P1-G3					.18	NO		11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 14 OF 28

CABLE ASSEMBLY 2901420 H

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 109	1		P3-G*					.22	NO		13	
			E3					.37	NO			
A 110	1		P3-H*					.22	NO		13	
			P1-B26					.18	NO		11, 23	
A 111	1		P3-I*					.22	NO		13	
			P1-B25					.18	NO		11, 23	
A 112	1		P3-J*					.22	NO		13	
			P1-F4					.18	NO		11, 23	
A 113	1		P3-K*					.22	NO		13	
			E3					.37	NO			
A 114	1		P3-M*					.22	NO		13	
			P1-C26					.18	NO		11, 23	
A 115	1		P3-N*					.22	NO		13	
			P1-C25					.18	NO		11, 23	
A 116	1		P12-38					.15	NO		12	
			P12-69					.15	NO		12	
A 117	1		P4-Z*					.22	NO		13	
			P1-A32					.18	NO		11, 23	
A 118	1		P6-A					.22	NO		13	
			P1-A4					.18	NO		11, 23	
A 119	1		P6-B					.22	NO		13	
			E10					.37	NO			
A 120	1		P6-C					.22	NO		13	
			P1-G25					.18	NO		11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR H	SHEET 15 OF 28

CABLE ASSEMBLY 2901420 J ~~G~~

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 121	1		P6-D					.22	NO		13	
			P1-F25					.18	NO		11, 23	
~~A 122~~	~~1~~		~~P1-G5~~ DELETED					~~.22~~	~~NO~~		~~13~~	
			~~P1-G5~~					~~.18~~	~~NO~~		~~11, 23~~	
~~A 123~~	~~1~~		~~E11~~ DELETED					~~.22~~	~~NO~~		~~13~~	
			~~E11~~					~~.37~~	~~NO~~			
A 124	1		P6-J					.22	NO		13	
			P1-A5					.18	NO		11, 23	
A 125	1		P6-K					.22	NO		13	
			E10					.37	NO			
A 126	1		P6-L					.22	NO		13	
			P1-G26					.18	NO		11, 23	
A 127	1		P6-M					.22	NO		13	
			P1-F26					.18	NO		11, 23	
~~A 128~~	~~1~~		~~P1-D6~~ DELETED					~~.22~~	~~NO~~		~~13~~	
			~~P1-D6~~					~~.18~~	~~NO~~		~~11, 23~~	
~~A 129~~	~~1~~		~~E11~~ DELETED					~~.22~~	~~NO~~		~~13~~	
			~~E11~~					~~.37~~	~~NO~~			
A 130	1		P6-T					.22	NO		13	
			P1-G10					.18	NO		11, 23	
A 131	1		P6-U					.22	NO		13	
			E6					.37	NO			
A 132	1		P6-V					.22	NO		13	
			P1-F33					.18	NO		11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR ~~G~~ J	SHEET 16 OF 28

CABLE ASSEMBLY 2901420 G

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 133	1		P6-X					.22	NO		13	
			P1-F9					.18	NO		11, 23	
A 134	1		P6-Y					.22	NO		13	
			E6					.37	NO			
A 135	1		P6-Z					.22	NO		13	
			P1-G33					.18	NO		11, 23	
A 136	2		P6-A*					.22	NO		13	
			P6-F*					.22	NO		13	
A 137	1		P6-B*					.22	NO		13	
			P1-C10					.18	NO		11, 23	
A 138	1		P6-C*					.22	NO		13	
			E7					.37	NO			
A 139	1		P6-D*					.22	NO		13	
			P1-B33					.18	NO		11, 23	
A 140	1		P6-E*					.22	NO			
			P1-A33					.18	NO		11, 23	
A 141	1		P6-F*					.22	NO		13	
			P1-C9					.18	NO		11, 23	
A 142	1		P6-G*					.22	NO		13	
			E7					.37	NO			
A 143	1		P6-H*					.22	NO		13	
			P1-C33					.18	NO		11, 23	
A 144	1		P6-J*					.22	NO		13	
			P1-C8					.18	NO		11, 23	

SIZE A	CODE IDENT NO. 99974	2901420
SCALE-NONE	REV LTR G	SHEET 17 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONF. FIG	ACCESSORY ITEMS	REMARKS
A 145	1		P6-K* E7					.22 .37	NO NO		13	
A 146	1		P6-M* P1-D33,					.22 .18	NO NO		13 11, 23	
A 147	1		P6-P* P1-C4					.22 .18	NO NO		13 11, 23	
A 148	1		P6-Q* E10					.22 .37	NO NO		13	
A 149	1		P6-R* P1-G27					.22 .18	NO NO		13 11, 23	
A 150	1		P6-S* P1-F27					.22 .18	NO NO		13 11, 23	
~~A 151~~	~~1~~		~~P1-F6~~ ~~P1-F6~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
A 152	1		P2-F ~~E11~~ E11					.22 .37	NO NO		13	
A 153	1		P6-X* P1-B5					.22 .18	NO NO		13 11, 23	
A 154	1		P6-Y* E12					.22 .37	NO NO		13	
A 155	1		P6-Z* P1-G37					.22 .18	NO NO		13 11, 23	
A 156	1		P6-AA P1-G36					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR ~~G~~ J | SHEET 18 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONF. FIG	ACCESSORY ITEMS	REMARKS
A 157	1		P6-BB P1-C6					.22 .18	NO NO		13 11, 23	
A 158	1		P6-CC E12					.22 .37	NO NO		13	
A 159	1		P6-DD P1-G38					.22 .18	NO NO		13 11, 23	
A 160	1		P6-FF P1-A6					.22 .18	NO NO		13 11, 23	
A 161	1		P6-GG E12					.22 .37	NO NO		13	
A 162	1		P6-HH P1-G39					.22 .18	NO NO		13 11, 23	
A 163	1		P7-A P1-G4					.22 .18	NO NO		13 11, 23	
A 164	1		P7-B E3					.22 .37	NO NO		13	
A 165	1		P7-C P1-D26					.22 .18	NO NO		13 11, 23	
A 166	1		P7-D P1-D25					.22 .18	NO NO		13 11, 23	
A 167	1		P7-E P1-C7					.22 .18	NO NO		13 11, 23	
A 168	1		P7-F E4					.22 .37	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR G | SHEET 19 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONF. FIG	ACCESSORY ITEMS	REMARKS
A 169	2		P7-G P3-V					.22 .22	NO NO		13	
A 170	2		P7-H P3-W					.22 .22	NO NO		13	
~~A 171~~	~~1~~		~~P1-D10~~ ~~P1-D10~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 172~~	~~1~~		~~E5~~ ~~E5~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 173~~	~~1~~		~~P1-D21~~ ~~P1-D21~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 174~~	~~1~~		~~P1-D22~~ ~~P1-D22~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
A 175	1		P7-N P1-G7					.22 .18	NO NO		13 11, 23	
A 176	1		P7-P E8					.22 .37	NO NO		13	
A 177	1		P7-T P1-B3					.22 .18	NO NO		13 11, 23	
A 178	1		P7-U E9					.22 .37	NO NO		13	
A 179	1		P7-V P1-D37					.22 .18	NO NO		13 11, 23	
A 180	1		P7-W P1-F37					.22 .18	NO NO		13 11, 23	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR ~~G~~ J | SHEET 20 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONF. FIG	ACCESSORY ITEMS	REMARKS
A 181	1		P7-X P1-A3					.22 .18	NO NO		13 11, 23	
A 182	1		P7-Y E9					.22 .37	NO NO		13	
A 183	1		P7-Z P1-D38					.22 .18	NO NO		13 11, 23	
A 184	1		P7-A* P1-F38					.22 .18	NO NO		13 11, 23	
A 185	1		P7-B* P1-C3					.22 .18	NO NO		13 11, 23	
A 186	1		P7-C* E9					.22 .37	NO NO		13	
A 187	1		P7-D* P1-D39					.22 .18	NO NO		13 11, 23	
A 188	1		P7-E* P1-F39					.22 .18	NO NO		13 11, 23	
A 189	1		P7-F* P1-A7					.22 .18	NO NO		13 11, 23	
A 190	1		P7-G* E4					.22 .37	NO NO		13	
A 191	2		P7-H* P3-C					.22 .22	NO NO		13	
A 192	2		P7-I* P3-D					.22 .22	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901420
SCALE-NONE | REV LTR G | SHEET 21 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 193	1		P7-J* P1-B7					.22 .18	NO NO		13 11, 23	
A 194	1		P7-K* E4					.22 .37	NO NO		13	
A 195	2		P7-M* P3-L					.22 .22	NO NO		13	
A 196	2		P7-N* P3-M					.22 .22	NO NO		13	
A 197	1		P7-P* P1-D5					.22 .18	NO NO		13 11, 23	
A 198	1		P7-Q* E11					.22 .37	NO NO		13	
A 199	1		P7-FF P1-G8					.22 .18	NO NO		13 11, 23	
A 200	1		P7-GG E8					.22 .37	NO NO		13	
A 201	1		P7-HH P1-C19					.22 .18	NO NO		13 11, 23	
A 202	1		P7-JJ * P1-C20					.22 .18	NO NO		13 11, 23	
A 203	1		P8-A P1-G12					.22 .18	NO NO		13 11, 23	
A 204	1		P8-B E16					.22 .37	NO NO		13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 22 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 205	1		P8-C P1-D31					.22 .18	NO NO		13 11, 23	
A 206	1		P8-D E13					.22 .37	NO NO		13	
A 207	1		P8-E P1-F13					.22 .18	NO NO		13 11, 23	
A 208	1		P8-F E16					.22 .37	NO NO		13	
A 209	1		P8-G P1-G31					.22 .18	NO NO		13 11, 23	
A 210	1		P8-H E13					.22 .37	NO NO		13	
A 211	1		P8-N P1-B8					.22 .18	NO NO		13 11, 23	
A 212	1		P8-P E7					.22 .37	NO NO		13	
A 213	1		P7-X* P1-D11					.22 .18	NO NO		13 11, 23	
A 214	2		P7-Y* P8-Y					.22 .22	NO NO		13 13	
A 215	1		P7-Z* P1-D19					.22 .18	NO NO		13 11, 23	
A 216	2		P7-AA P8-A*					.22 .22	NO NO		13 13	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 23 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 217	1		P8-X P1-C11					.22 .18	NO NO		13 11, 23	
A 218	1		P8-Y P1-C12					.22 .18	NO NO		13 11, 23	
A 219	1		P8-Z P1-D20					.22 .18	NO NO		13 11, 23	
A 220	2		P8-B* P2-X					.22 .22	NO NO		13	
A 221	1		P8-C* E13					.22 .37	NO NO		13	
A 222	1		P8-F* P1-A10					.22 .18	NO NO		13 11, 23	
A 223	1		P8-G* E14					.22 .37	NO NO		13	
A 224	1		P8-B* P1-C17					.22 .18	NO NO		 11, 23	
A 225	1		P8-T* E13					.22 .37	NO NO		13	
A 226	1		P8-P* P1-B10					.22 .18	NO NO		13 11, 23	
A 227	1		P8-Q* F14					.22 .37	NO NO		13	
A 228	1		P8-R* P1-F17					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 24 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 229	1		P8-S* P1-F18					.22 .18	NO NO		13 11, 23	
A 230	1		P8-T* P12-21					.22 .15	NO NO		13 12	
A 231	1		P8-U* P12-43					.22 .15	NO NO		13 12	
A 232	1		P8-V* P1-A34					.22 .18	NO NO		13 11, 23	
A 233	1		P8-W* P1-D17					.22 .18	NO NO		13 11, 23	
~~A 234~~	~~1~~		~~P1-A31~~ ~~P1-A31~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 235~~	~~1~~		~~E13~~ ~~E13~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 236~~	~~1~~		~~P1-G31~~ ~~P1-G31~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 237~~	~~1~~		~~E13~~ ~~E13~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
~~A 238~~	~~1~~		~~P1-F21~~ ~~P1-F21~~	DELETED				~~.22~~ ~~.18~~	~~NO~~ ~~NO~~		~~13~~ ~~11, 23~~	
~~A 239~~	~~1~~		~~E13~~ ~~E13~~	DELETED				~~.22~~ ~~.37~~	~~NO~~ ~~NO~~		~~13~~	
A 240	1		P8-A* P1-F14					.22 .18	NO NO		 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR ~~G~~ J	SHEET 25 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 241	1		P4-BB E17					.22 .37	NO NO		13	
A 242	1		P4-CC E17					.22 .37	NO NO		13	
A 243	1		P4-DD E17					.22 .37	NO NO		13	
A 244	1		P4-EE E17					.22 .37	NO NO		13	
A 245	1		P4-FF F17					.22 .37	NO NO		13	
A 246	2		P3-FF P2-N					.22 .22	NO NO		13	
A 247	2		P3-GG P2-P					.22 .22	NO NO		13	
A 248	2		P3-KK P2-V					.22 .22	NO NO		13	
A 249	2		P3-LL P2-W					.22 .22	NO NO		13	
A 250	1		P7-KK P1-D13					.22 .18	NO NO		13 11, 23	
A 251	2		P7-LL P3-CC					.22 .22	NO NO		13 13	
A 252	1		P7-MM P1-C32					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR G	SHEET 26 OF 28

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 253	1		P7-NN P1-D32					.22 .18	NO NO		13 11, 23	
A 254	1		P3-BB P1-G13					.22 .18	NO NO		13 11, 23	
A 255	1		P3-CC E16					.22 .37	NO NO			
A 256	1		P3-DD P1-B19					.22 .18	NO NO		13 11, 23	
A 257	1		P3-EE P1-B20					.22 .18	NO NO		13 11, 23	
A 258	1		P12-20 P12-61					.15 .15	NO NO		12 12	
A 259	1		P1-G34 P1-F34					.18 .18	NO NO		11, 23 11, 23	
A 260	1		P12-63 P12-7					.15 .15	NO NO		12 12	
A 261	1		P4-X* P1-D34					.22 .18	NO NO		13 11, 23	

SIZE	CODE IDENT NO.	
A	99974	2901420
SCALE-NONE	REV LTR H	SHEET 27 OF 28

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD

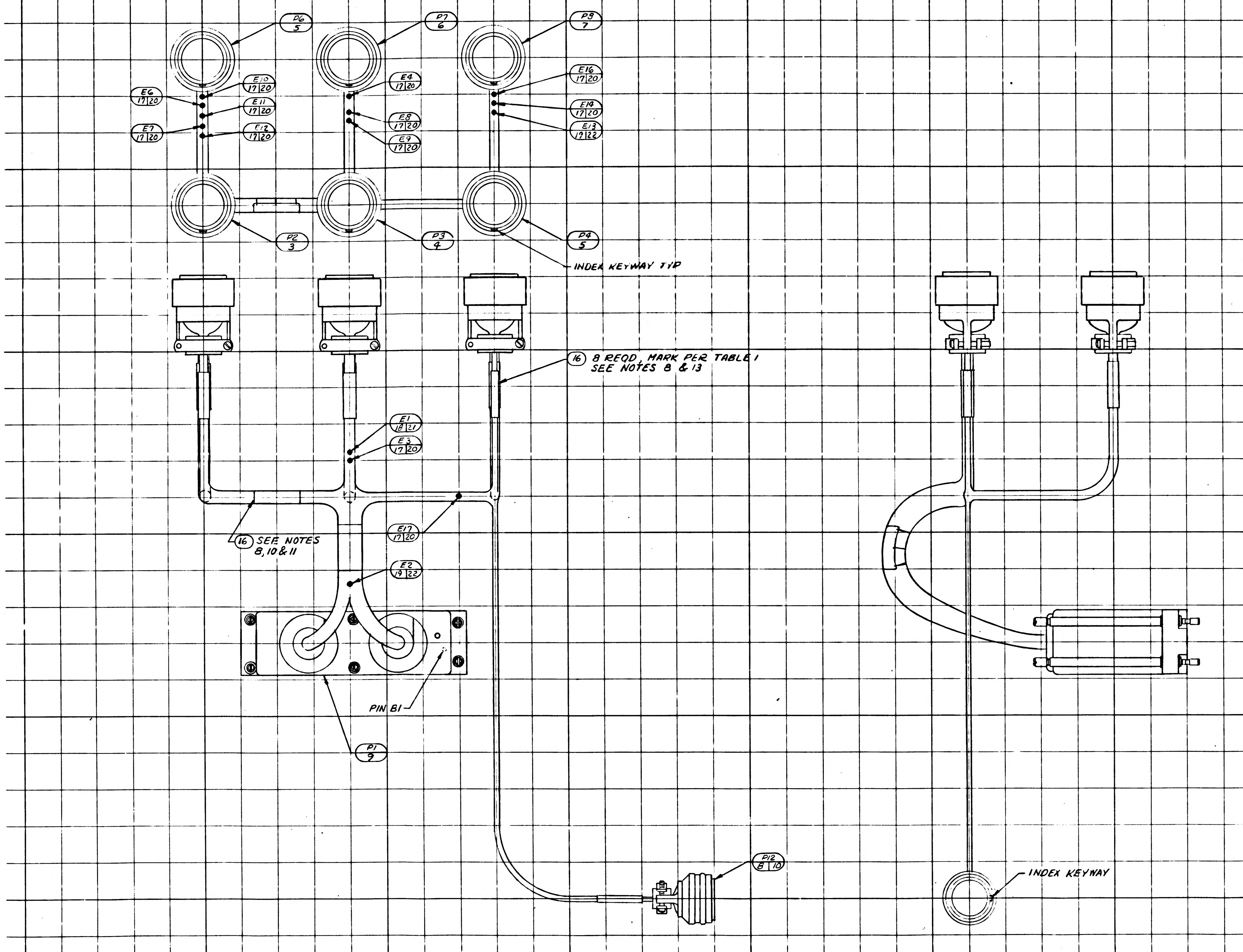

P6
5
P7
6
P8
7
E10
17 | 20
E6
17 | 20
E11
17 | 20
E7
17 | 20
E12
17 | 20
E4
17 | 20
E8
17 | 20
E9
17 | 20
E16
17 | 20
E14
17 | 20
E13
19 | 22
P2
3
P3
4
P4
5
INDEX KEYWAY TYP
16 8 REQD, MARK PER TABLE I
SEE NOTES 8 & 13
E1
18 | 21
E3
17 | 20
16 SEE NOTES
8, 10 & 11
E17
17 | 20
E2
19 | 22
PIN B1
P1
9
P12
8 | 10
INDEX KEYWAY

TABLE I

LOCATION	MARK ID BAND
P1	P1(J1 SCA)
P2	P2 (J2 IN/OUT PANEL)
P3	P3(J3)
P4	P4(J4)
P6	P6(J6)
P7	P7(J7)
P8	P8(J8 IN/OUT PANEL)
P12	P12(J2 SCA)

2901044-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN RJ Olson 16 MAR 66 DATE
CHECKED 22 MAR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED -
LEM SCA

SIZE E
CODE IDENT NO. 99974
2901420
SCALE 1/1
SHEET

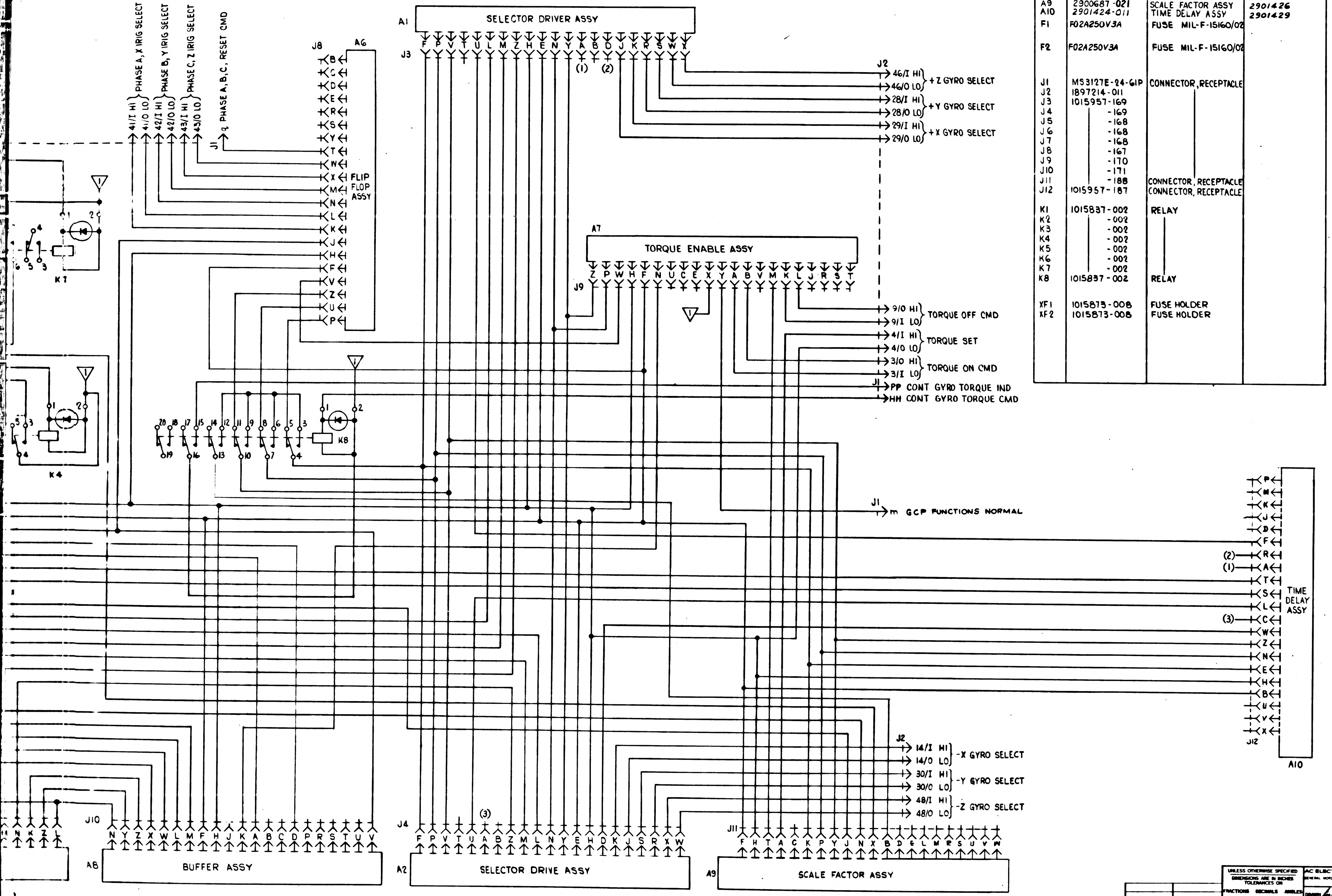
2901420 REV LTR G

2901420

MX-10891

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		REVISED PER D.Q. 61940		18 APR 66	ER. J.E.G.
B		INITIAL RELEASE CLASS A PER TDRR 24759		6 MAY 66	RC CP

REF DES	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM VALUE, TOL & RATING
A1	2900077-011	SELECTOR DRIVE ASSY	2900085
A2	2900077-011	SELECTOR DRIVE ASSY	2900085
A3	2900076-021	INTERROGATOR ASSY	2900099
A4	2900076-021	INTERROGATOR ASSY	2900099
A5	2900076-021	INTERROGATOR ASSY	2900099
A6	2900075-011	FLIP FLOP ASSY	2900019
A7	2900078-011	TORQUE ENABLE ASSY	2900135
A8	2901405-011	BUFFER ASSY	2901407
A9	2900687-021	SCALE FACTOR ASSY	2901426
A10	2901424-011	TIME DELAY ASSY	2901429
F1	F02A250V3A	FUSE MIL-F-15160/02	
F2	F02A250V3A	FUSE MIL-F-15160/02	
J1	MS3127E-24-61P	CONNECTOR, RECEPTACLE	
J2	1897214-011		
J3	1015957-169		
J4	-169		
J5	-168		
J6	-168		
J7	-168		
J8	-167		
J9	-170		
J10	-171		
J11	-188	CONNECTOR, RECEPTACLE	
J12	1015957-187	CONNECTOR, RECEPTACLE	
K1	1015837-002	RELAY	
K2	-002		
K3	-002		
K4	-002		
K5	-002		
K6	-002		
K7	-002		
K8	1015837-002	RELAY	
XF1	1015873-008	FUSE HOLDER	
XF2	1015873-008	FUSE HOLDER	


A1
SELECTOR DRIVER ASSY
J3
F P V T U L M Z H E N Y A B D J K R S W X
(1)
(2)
J2
46/I HI
46/O LO
+Z GYRO SELECT
28/I HI
28/O LO
+Y GYRO SELECT
29/I HI
29/O LO
+X GYRO SELECT
41/I HI
41/O LO
PHASE A, X IRIG SELECT
42/I HI
42/O LO
PHASE B, Y IRIG SELECT
43/I HI
43/O LO
PHASE C, Z IRIG SELECT
J1
q PHASE A, B, C, RESET CMD
J8
A6
B C D E R S Y T W X M N L K J H F V Z U P
FLIP FLOP ASSY
K7
K4
K8
A7
TORQUE ENABLE ASSY
J9
Z P W H F N U C E X Y A B V M K L J R S T
9/O HI
9/I LO
TORQUE OFF CMD
4/I HI
4/O LO
TORQUE SET
3/O HI
3/I LO
TORQUE ON CMD
J1
PP CONT GYRO TORQUE IND
HH CONT GYRO TORQUE CMD
m GCP FUNCTIONS NORMAL
P M K J D F R A T S L C W Z N E H B U V X
(2)
(1)
(3)
TIME DELAY ASSY
J12
A10
J2
14/I HI
14/O LO
-X GYRO SELECT
30/I HI
30/O LO
-Y GYRO SELECT
48/I HI
48/O LO
-Z GYRO SELECT
N K Z L
J10
N Y Z X W L M F H J K A B C D P R S T U V
A8
BUFFER ASSY
J4
F P V T U A B Z M L N Y E H D K J S R X W
(3)
A2
SELECTOR DRIVE ASSY
J11
F H T A C K P Y J N X B D E L M R S U V W
A9
SCALE FACTOR ASSY

2901421 SH REV 3

2900029-021	2900029-021
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE
CHECKED W. Will 1 APR 66
APPROVAL 6 APR 66
APPROVAL 5-13-66
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL –
GYRO CAGING ELECTRONICS

CODE IDENT NO. 99974
SIZE J2
2901421
SCALE —
SHEET 1 OF 1

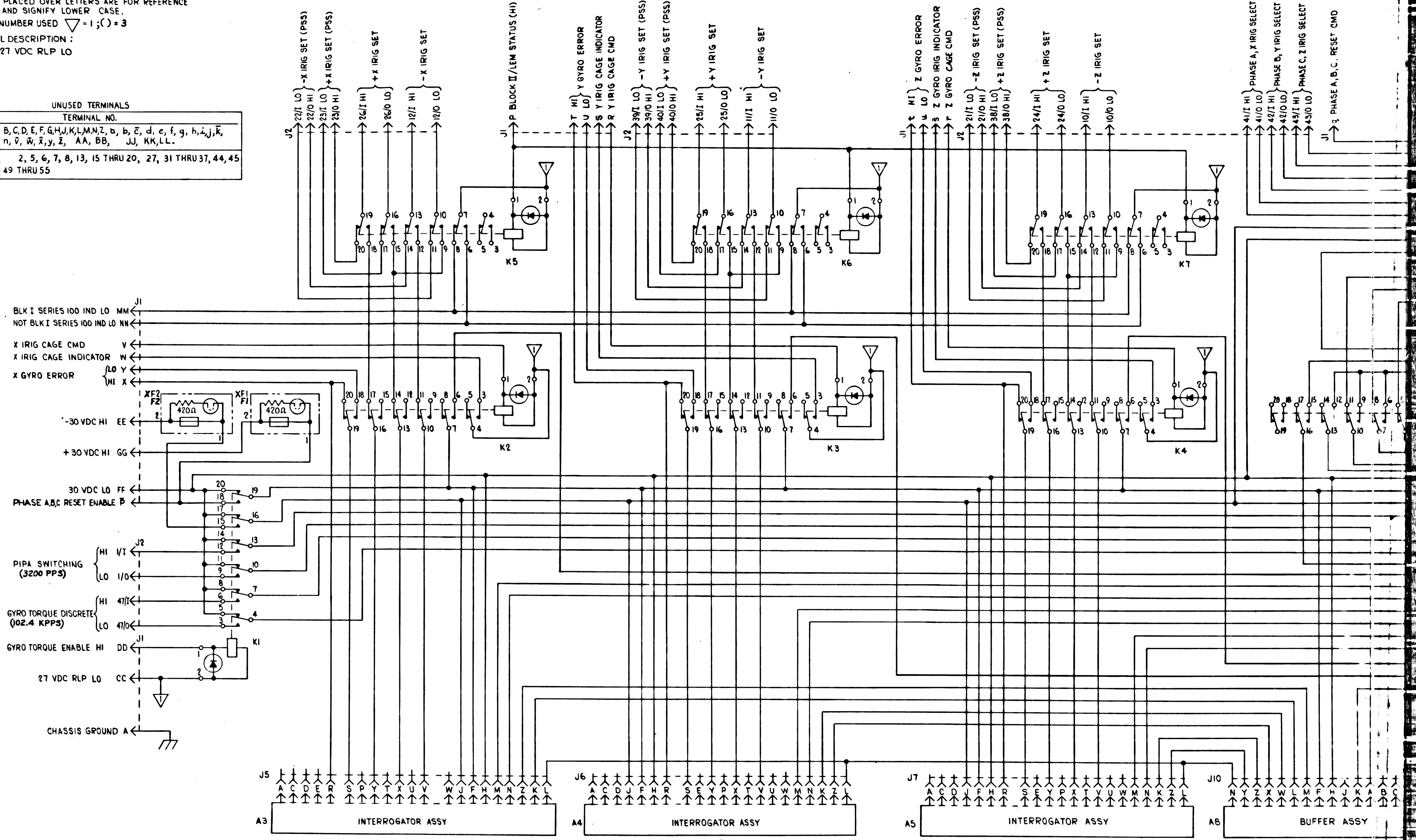
2/2901421

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:
   2900029-021 ASSEMBLY DRAWING
4. ALL RELAYS ARE SHOWN IN THE UNENERGIZED OR OFF POSITION.
5. BARS PLACED OVER LETTERS ARE FOR REFERENCE ONLY AND SIGNIFY LOWER CASE.
6. LAST NUMBER USED ▽ = 1 ; ( ) = 3
7. SIGNAL DESCRIPTION :
   ▽1 27 VDC RLP LO

UNUSED TERMINALS

REF DES	TERMINAL NO.
J1	B, C, D, E, F, G, H, J, K, L, M, N, Z, a, b, c̄, d, e, f, g, h, i, j, k̄, n, v̄, w̄, x̄, y, z̄, AA, BB, JJ, KK, LL.
J2	2, 5, 6, 7, 8, 13, 15 THRU 20, 27, 31 THRU 37, 44, 45 49 THRU 55


J2
22/I LO
22/O HI
-X IRIG SET (PSS)
23/I LO
23/O HI
+X IRIG SET (PSS)
26/I HI
26/O LO
+X IRIG SET
12/I HI
12/O LO
-X IRIG SET
J1
P BLOCK II/LEM STATUS (HI)
T HI
U LO
Y GYRO ERROR
S Y IRIG CAGE INDICATOR
R Y IRIG CAGE CMD
39/I LO
39/O HI
-Y IRIG SET (PSS)
40/I LO
40/O HI
+Y IRIG SET (PSS)
25/I HI
25/O LO
+Y IRIG SET
11/I HI
11/O LO
-Y IRIG SET
t HI
u LO
Z GYRO ERROR
s Z GYRO IRIG INDICATOR
r Z GYRO CAGE CMD
21/I LO
21/O HI
-Z IRIG SET (PSS)
38/I LO
38/O HI
+Z IRIG SET (PSS)
24/I HI
24/O LO
+Z IRIG SET
10/I HI
10/O LO
-Z IRIG SET
41/I HI
41/O LO
PHASE A, X IRIG SELECT
42/I HI
42/O LO
PHASE B, Y IRIG SELECT
43/I HI
43/O LO
PHASE C, Z IRIG SELECT
q PHASE A, B, C, RESET CMD
K5
K6
K7
K2
K3
K4
K1
BLK I SERIES 100 IND LO MM
NOT BLK I SERIES 100 IND LO NN
X IRIG CAGE CMD V
X IRIG CAGE INDICATOR W
X GYRO ERROR LO Y
HI X
XF2 F2
XF1 F1
420Ω
420Ω
-30 VDC HI EE
+30 VDC HI GG
30 VDC LO FF
PHASE A,B,C RESET ENABLE p̄
PIPA SWITCHING (3200 PPS) HI 1/I
LO 1/O
GYRO TORQUE DISCRETE (102.4 KPPS) HI 47/I
LO 47/O
GYRO TORQUE ENABLE HI DD
27 VDC RLP LO CC
CHASSIS GROUND A
J5
A C D E R S P Y T X U V W J F H M N Z K L
A3
INTERROGATOR ASSY
J6
A C D J F H R S E Y P X T V U W M N K Z L
A4
INTERROGATOR ASSY
J7
A C D J F H R S E Y P X T V U W M N K Z L
A5
INTERROGATOR ASSY
J10
N Y Z X W L M F H J K A B
A8
BUFFER ASSY

2901421 SH 1 REV B

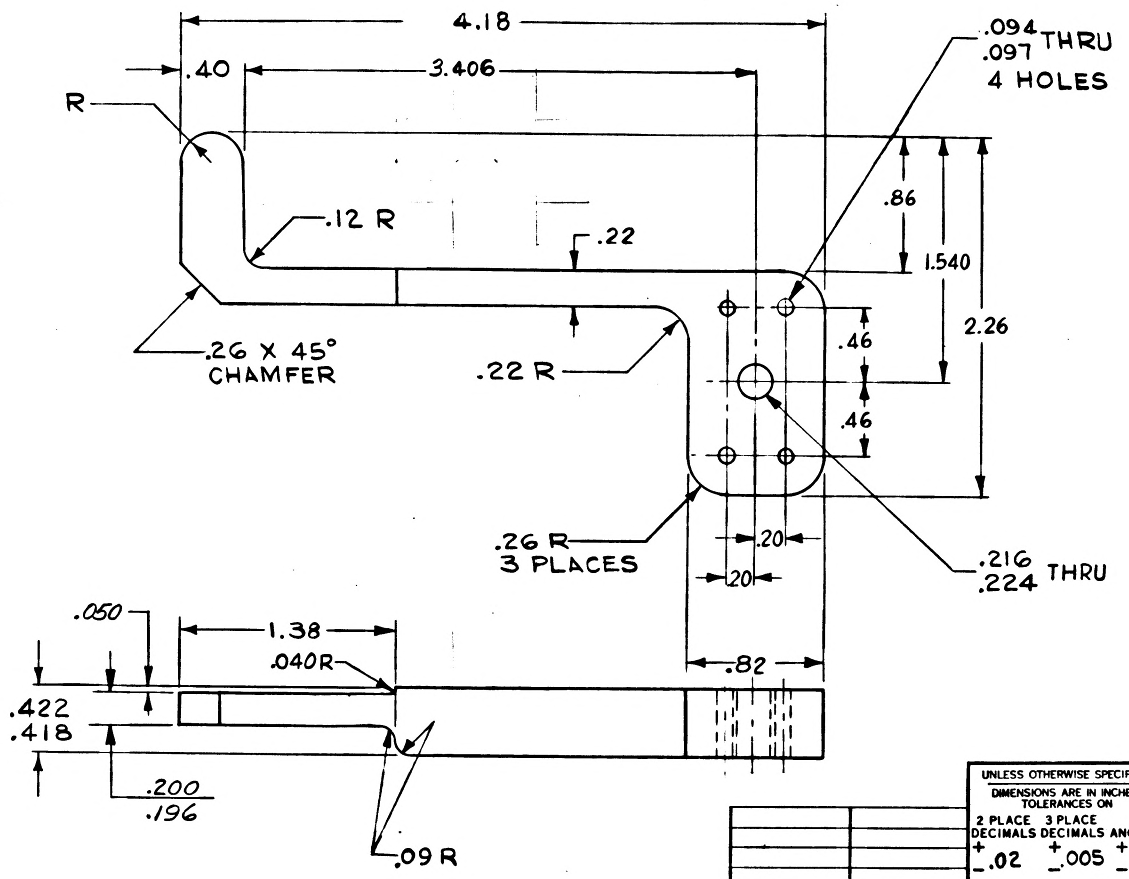
172901421

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP EDGES
3. MATERIAL: SPRING STEEL PER MIL-S-7947 COND A (ES2120, ANNEALED).
4. HEAT TREAT PER MIL-H-6875 TO 1500°±25°F. OIL QUENCH AND DRAW AT 700°-800°F.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267)
6. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 63/.
   B. ALL CORNERS MUST BE .005 TO .015 R, OR CHAMFER.
7. FINISH: CHROME PLATING PER QQ-C-320 CLASS 2 (ES387)

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	REVISED PER MXC 212607		20 MAY 66	RWT CP
	B	INITIAL RELEASE CLASS A PER TDRR 29186		7 MAY 66	JNP



4.18
.40
3.406
R
.12 R
.22
.26 X 45° CHAMFER
.22 R
.094
.097 THRU
4 HOLES
.86
1.540
2.26
.46
.46
.26 R
3 PLACES
.20
.20
.216
.224 THRU
.050
1.38
.040R
.422
.418
.200
.196
.09 R
.82

2901143-011	2901143-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 3
APPROVAL 4 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN M Grabner DATE 1-APR 66
CHECKED Ed Foster 1 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

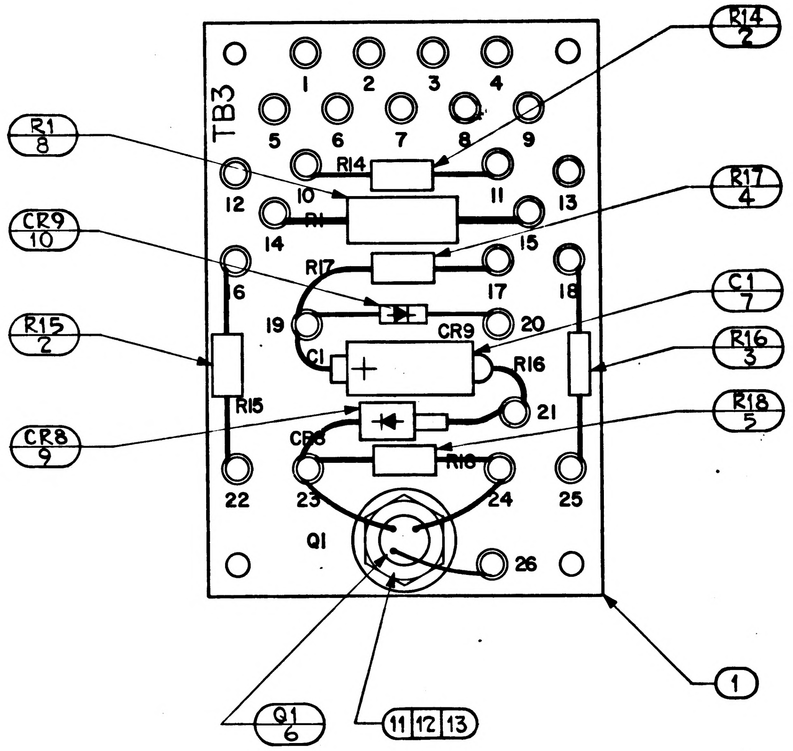
SPRING, RETAINING
LEFT HAND

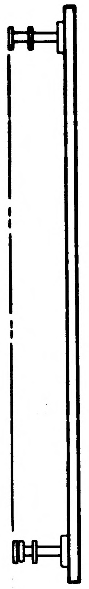
SIZE D
CODE IDENT NO. 99974
2901437
SCALE 2:1
SHEET 1 OF 1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. SOLDER PER ND1002071 USING ITEM ⑭, OR ITEMS ⑮ AND ⑯.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" AND APPLICABLE DASH NO. PER MIL-STD-130 (ES267).

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 30013		4 MAY 66	JHP EF





				AR	16	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
				AR	15	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR	14	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
SEE NOTE 2				1	13	1010618-12	SCREW, BUTTON HD.
				1	12	AN960C4L	(1897006-034) WASHER, FLAT
SEE NOTE 2				1	11	1015872-001	HEATSINK
				1	10	IN459 (1896966-291)	SEMICONDUCTOR DEVICE MIL-S-19500
				1	9	IN3030B (1896966-070)	SEMICONDUCTOR DEVICE MIL-S-19500
				1	8	RC42GF241J (1896951-034)	RESISTOR MIL-R-11/7
				1	7	CS13BF476K (1896954-156)	CAPACITOR MIL-C-26655/2
SEE NOTE 2				1	6	1015928-001	TRANSISTOR
				1	5	RC20GF102J (1896952-049)	RESISTOR MIL-R-11/3
				1	4	RC20GF301J (1896952-025)	RESISTOR MIL-R-11/3
				1	3	RN60C1503F (1896976-498)	RESISTOR MIL-R-10509/1
				2	2	RC20GF474J (1896952-113)	RESISTOR MIL-R-11/3
				1	1	2901439	TERMINAL BOARD (INSEP ASSY)
				011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS		

-011	8102205	2901440-011
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL 11 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN R. G. Baker DATE 4 APR '66
CHECKED 11 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL A. C. METZ
MIT APPROVAL 7-5-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT BOARD ASSEMBLY

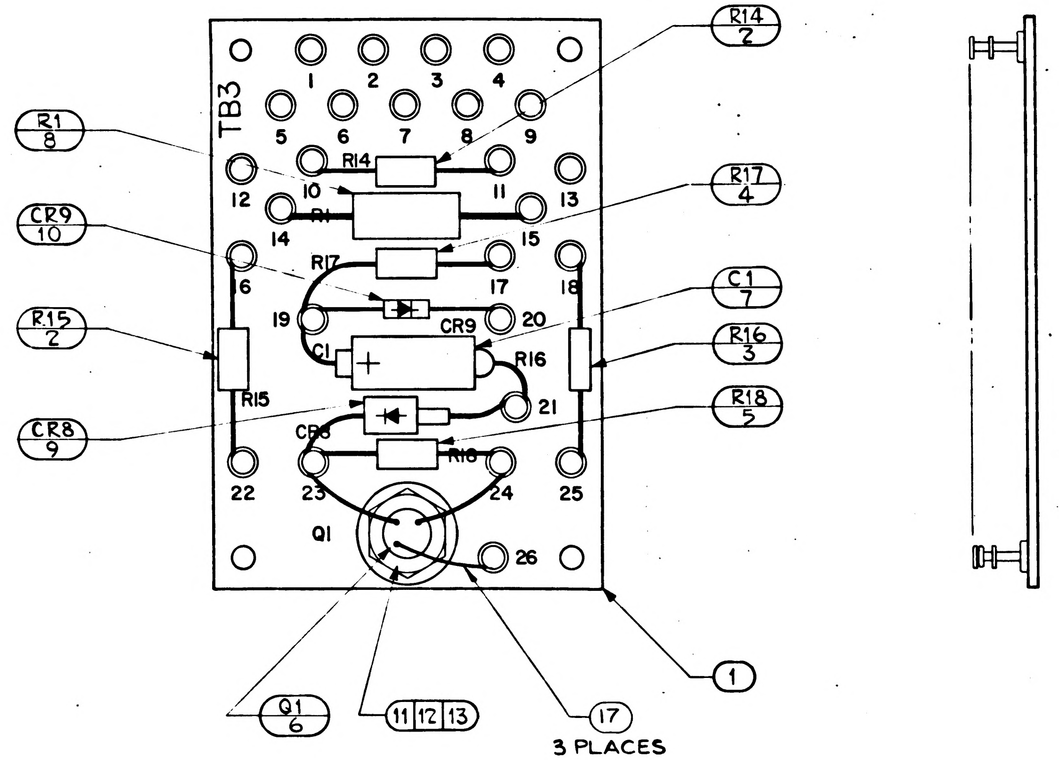
SIZE D
CODE IDENT NO. 99974
2901438
SCALE: 2:1
SHEET 1 of 1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
3. SOLDER PER ND1002071 USING ITEM ⑭, OR ITEMS ⑮ AND ⑯.
4. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" AND APPLICABLE DASH NO. PER MIL-STD-130 (ES267).

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 30013		4 MAY 66	JHP / EF
	B	REVISED PER TDRR 30817		1 SEPT 66	JJB / JI



	QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS		
				011	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				AR	17	1006776-20	INSULATION SLEEVING ELECTRICAL
				AR	16	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
				AR	15	SN60 WS	SOLDER QQ-S-571 (ES2175-1)
				AR	14	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
SEE NOTE 2				1	13	1010618-12	SCREW, BUTTON HD.
				1	12	AN960C4L	(1897006-034) WASHER, FLAT
SEE NOTE 2				1	11	1015872-001	HEATSINK
				1	10	IN459 (1896966-291)	SEMICONDUCTOR DEVICE MIL-S-19500
				1	9	IN3030B (1896966-070)	SEMICONDUCTOR DEVICE MIL-S-19500
				1	8	RC42GF241J (1896951-034)	RESISTOR MIL-R-11/7
				1	7	CS13BF476K (1896954-156)	CAPACITOR MIL-C-26655/2
SEE NOTE 2				1	6	1015928-001	TRANSISTOR
				1	5	RC20GF102J (1896952-049)	RESISTOR MIL-R-11/3
				1	4	RC20GF301J (1896952-025)	RESISTOR MIL-R-11/3
				1	3	RN60C1503F (1896976-498)	RESISTOR MIL-R-10509/1
				2	2	RC20GF474J (1896952-113)	RESISTOR MIL-R-11/3
				1	1	2901439	TERMINAL BOARD (INSEP ASSY)

APPLICABLE DASH NO.	NEXT ASSY	USED ON
-011	8102205	2901440-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − 3 PLACE DECIMALS + — − ANGLES + — −
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN E.G. Baker DATE 4 APR '66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

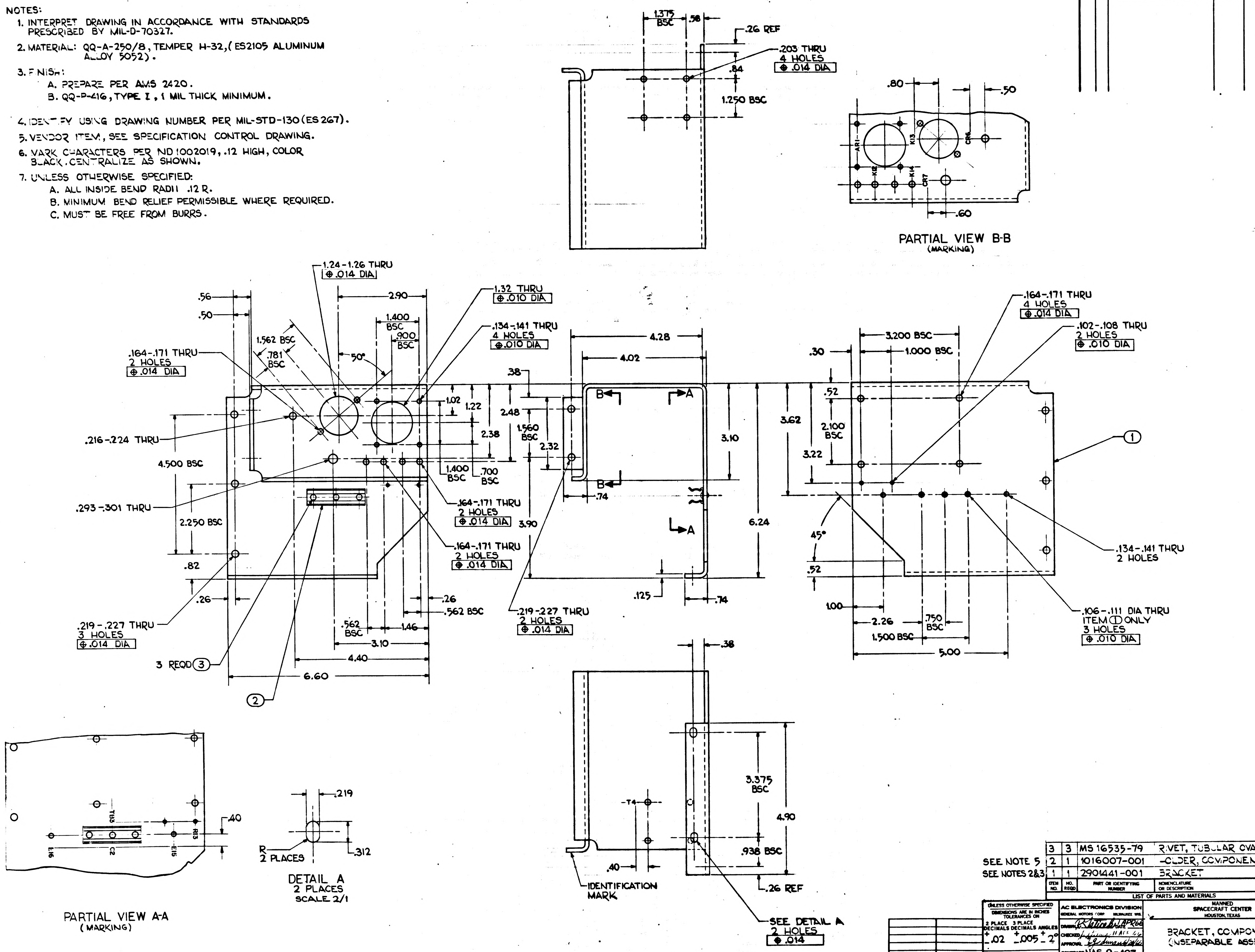
COMPONENT BOARD ASSEMBLY

SIZE D CODE IDENT NO. 99974 2901438
SCAL: 2:1 SHEET 1 of 1

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 30023		4 MAY 66	WHF / EF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-250/8, TEMPER H-32, (ES2105 ALUMINUM ALLOY 5052).
3. FINISH:
   A. PREPARE PER AMS 2420.
   B. QQ-P-416, TYPE I, 1 MIL THICK MINIMUM.
4. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES 267).
5. VENDOR ITEM, SEE SPECIFICATION CONTROL DRAWING.
6. MARK CHARACTERS PER ND 1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
7. UNLESS OTHERWISE SPECIFIED:
   A. ALL INSIDE BEND RADII .12 R.
   B. MINIMUM BEND RELIEF PERMISSIBLE WHERE REQUIRED.
   C. MUST BE FREE FROM BURRS.


1.375 BSC
.58
.26 REF
.203 THRU 4 HOLES ⊕ .014 DIA
.84
1.250 BSC
.80
.50
AR1
K13
CR6
K12
K14
CR7
.60
1.24-1.26 THRU ⊕ .014 DIA
1.32 THRU ⊕ .010 DIA
.134-.141 THRU 4 HOLES ⊕ .010 DIA
.56
.50
2.90
1.400 BSC
.900 BSC
1.562 BSC
.781 BSC
50°
.164-.171 THRU 2 HOLES ⊕ .014 DIA
1.02
1.22
2.38
.216-.224 THRU
4.500 BSC
1.400 BSC
.700 BSC
.293-.301 THRU
2.250 BSC
.164-.171 THRU 2 HOLES ⊕ .014 DIA
.164-.171 THRU 2 HOLES ⊕ .014 DIA
.82
.26
.26
.562 BSC
.219-.227 THRU 3 HOLES ⊕ .014 DIA
.562 BSC
1.46
3.10
4.40
6.60
3 REQD ③
②
4.28
4.02
.38
2.48
1.560 BSC
2.32
B
A
B
A
3.10
3.90
6.24
3.62
.74
.125
.74
.219-.227 THRU 2 HOLES ⊕ .014 DIA
.164-.171 THRU 4 HOLES ⊕ .014 DIA
.102-.108 THRU 2 HOLES ⊕ .010 DIA
3.200 BSC
1.000 BSC
.30
.52
2.100 BSC
3.22
①
45°
.52
.134-.141 THRU 2 HOLES
1.00
2.26
.750 BSC
1.500 BSC
5.00
.106-.111 DIA THRU ITEM ① ONLY 3 HOLES ⊕ .010 DIA
.38
3.375 BSC
4.90
.938 BSC
.26 REF
.40
T4
IDENTIFICATION MARK
SEE DETAIL A 2 HOLES ⊕ .014
E16
C2
E15
R13
TB3
.40
.219
R 2 PLACES
.312

PARTIAL VIEW B-B
(MARKING)

PARTIAL VIEW A-A
(MARKING)

DETAIL A
2 PLACES
SCALE 2/1

	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	3	3	MS 16535-79	RIVET, TUBULAR OVAL HEAD
SEE NOTE 5	2	1	1016007-001	HOLDER, COMPONENT
SEE NOTES 2&3	1	1	2901441-001	BRACKET

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
8102205	2901440-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02
3 PLACE DECIMALS ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL AS NOTED
APPROVAL
11 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN R. Stutzke 1 APR 66 DATE
CHECKED 11 APR 66
APPROVAL 4/20/66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, COMPONENT
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901441
SCALE FULL
SHEET 1 OF 1

APPLICATION	
NEXT ASSY	USED ON
1900011-041	1900011-041

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211995	2 MAY 66	JW / CP
B	INITIAL RELEASE CLASS A PER TDRR 30013	4 MAY 66	JHP / EF

Charleston 20APR66

REV				B	B	B	B	B	B	B
SHEET				1	2	3	4	5	6	7

REV STATUS OF SHEETS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Cozzell 20 APR 66
CHECKER E. Kotoda 20 APR 66
ENGINEER 7.3. Kotras 20 APR 66
APPROVAL
CONTR NO. NAS9-497

A. C. METZGER
NASA APPROVAL

MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED-W192

SIZE A
CODE IDENT. NO 99974
2901447
SCALE NONE
SHEET 1 OF 7

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	MARK REFERENCE DESIGNATIONS SHOWN PER ND1002019, HOT IMPRESSION STAMP, USING .12 BLACK CHARACTERS, CENTRALIZED.
6	GROMMET HOLES WITHOUT LEADS SHALL BE SEALED USING FURNISHED PLUGS AND ITEM 15.
7	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
8	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
9	ASSEMBLE PER ND1002032.
10	FILL THE SPACE BETWEEN THE WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

NOTE NUMBER — GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901447-001	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT, 24 FT. TOTAL LENGTH
3	2	1	2901447-002	TUBING MODIFIED PVC SHRINK FIT 1016197-008 4 FEET 2 INCHES TOTAL LENGTH
3	3	1	2901447-003	TUBING MODIFIED PVC SHRINK FIT 1016197-006 2 FEET 2 INCHES TOTAL LENGTH
3	4	1	2901447-004	TUBING MODIFIED PVC SHRINK FIT 1016197-007 6 INCHES TOTAL LENGTH
3	5	~~2~~3	1016006-002	SPLICE REDUCER PERMANENT
3	6	~~2~~3	1010490-256	INSULATION SLEEVING ELECTRICAL SHRINK FIT.
	7	1	MS3126F14-19P	(1897089-190) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
3	8	3	1016282- 14	GROMMET CONNECTOR STRAIN RELIEF
	9	1	MS3126F14-12S	(1897040-120) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
	10	1	MS3126F14-12SW	(1897040-121) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
3	11	6	1016281-180	CONTACT-PIN SPECIAL
	12	X	MS3193A-20A	(1896877-020) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)
	13	X	MS3193A-16A	(1896877-016) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)

APPLICATION	
NEXT ASSY	USED ON
1900011-041	1900011-041

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 211995	2 MAY 66	JW CP
B	INITIAL RELEASE CLASS A PER TDRR 30013	4 MAY 66	JHP EF
C	REVISED PER TDRR 30815	1 SEPT 66	JJB JI

Charleston 20 APR 66

REV								
SHEET								
REV STATUS OF SHEETS	REV	C	C	B	B	B	B	B
	SHEET	1	2	3	4	5	6	7

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Orzel 20 APR 66 (DAY MO YR)
CHECKER E. Plazda 20 APR 66
ENGINEER [illegible] 20 APR 66
APPROVAL J. W. Watson 6-2-66
CONTR NO. NAS9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED-W192

SIZE A
CODE IDENT. NO 99974
2901447
SCALE NONE
SHEET 1 OF 7

MIL 1377A6 12-65

CABLE ASSEMBLY W192 2901447 C

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

4 APPLY LEAD IDENTIFICATIONS PER ND1002019.

5 MARK REFERENCE DESIGNATIONS SHOWN PER ND1002019, HOT IMPRESSION STAMP, USING .12 WHITE CHARACTERS, CENTRALIZED.

6 GROMMET HOLES WITHOUT LEADS SHALL BE SEALED USING FURNISHED PLUGS AND ITEM 15.

7 ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.

8 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

9 ASSEMBLE PER ND1002032.

10 FILL THE SPACE BETWEEN THE WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

SIZE A	CODE IDENT NO. 99974	2901447
SCALE-NONE	REV LTR C	SHEET 2 OF 7

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A	CODE IDENT NO. 99974	2901447
SCALE-NONE	REV LTR B	SHEET 3 OF 7

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901447-001	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT, 24 FT. TOTAL LENGTH
3	2	1	2901447-002	TUBING MODIFIED PVC SHRINK FIT 1016197-008 4 FEET 2 INCHES TOTAL LENGTH
3	3	1	2901447-003	TUBING MODIFIED PVC SHRINK FIT 1016197-006 2 FEET 2 INCHES TOTAL LENGTH
3	4	1	2901447-004	TUBING MODIFIED PVC SHRINK FIT 1016197-007 6 INCHES TOTAL LENGTH
3	5	23	1016006-002	SPLICE REDUCER PERMANENT
3	6	23	1010490-256	INSULATION SLEEVING ELECTRICAL SHRINK FIT.
	7	1	MS3126F14-19P	(1897089-190) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
3	8	3	1016282- 14	GROMMET CONNECTOR STRAIN RELIEF
	9	1	MS3126F14-12S	(1897040-120) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
	10	1	MS3126F14-12SW	(1897040-121) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
3	11	6	1016281-180	CONTACT-PIN SPECIAL
	12	X	MS3193A-20A	(1896877-020) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)
	13	X	MS3193A-16A	(1896877-016) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)

SIZE A	CODE IDENT NO. 99974	2901447
SCALE-NONE	REV LTR AB	SHEET 4 OF 7

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B A

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	14	X	MS3192A-20A	(1896855-020) CONTACT, ELECTRICAL-PIN TYPE (FURNISHED WITH ITEM 7)
3	15	24	1897370-001	PLUG, END SEAL
3	16	X	1897370-002	PLUG, END SEAL (FURNISHED WITH ITEMS 9 AND 10)
	17	AR	MIL-I-15126 TYPE ACT	TAPE, ADHESIVE, ELECTRICAL .50 WIDE (ES2716-4 TYPE C)
	18	1	2901447-005	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG, WHT 1 FT TOTAL LENGTH

SIZE A	CODE IDENT NO. 99974	2901447
SCALE-NONE	REV LTR AB	SHEET 5 OF 7

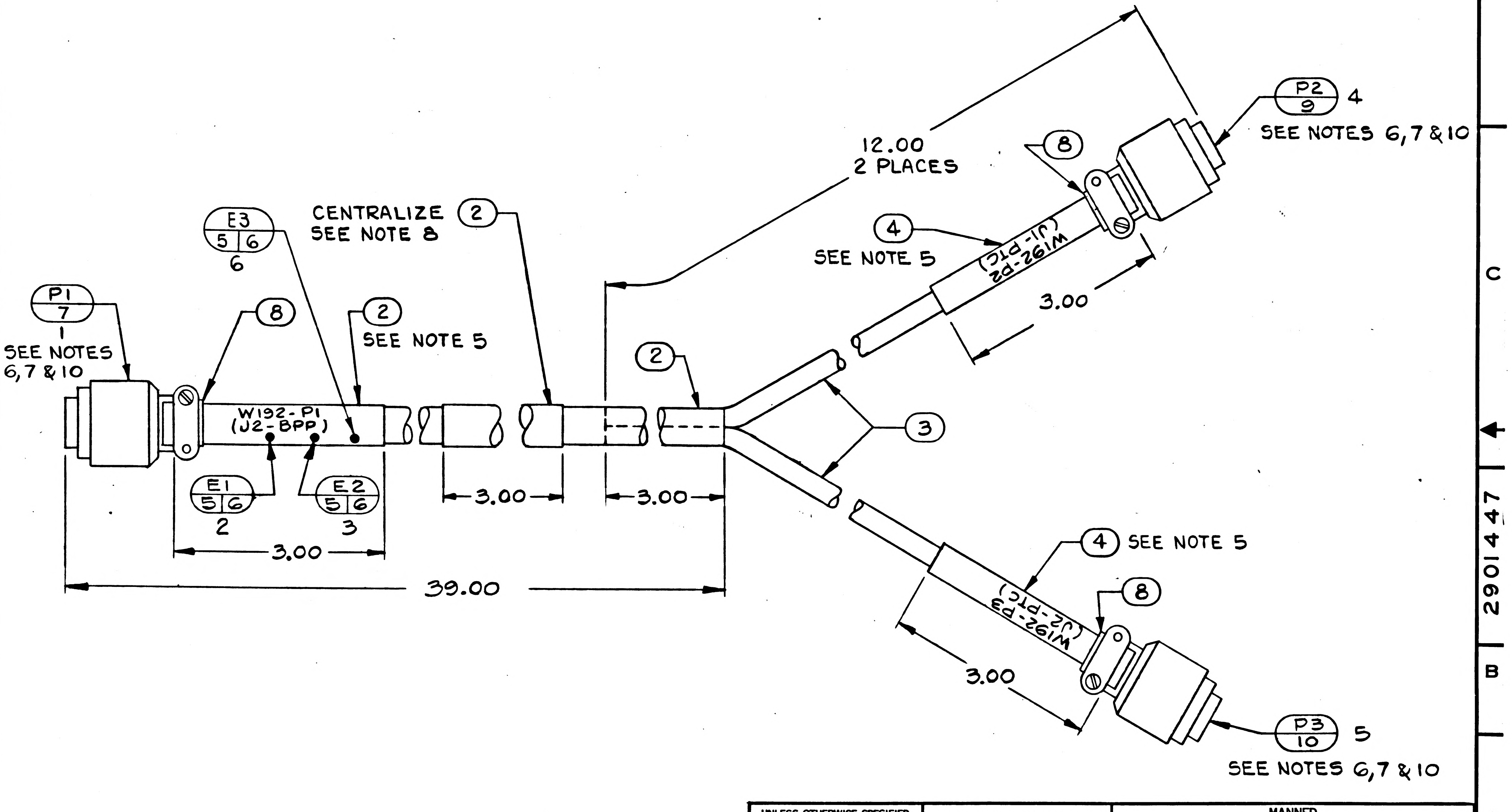
MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	P1-N	1				.25	NO		11	
			E1-B	2				.25	NO			
A	2	1	P1-K	1				.25	NO		11	
			E1-B	2				.25	NO			
A	3	1	E1-BB	2				.25	NO			
			P2-L	4				.25	NO			
A	4	1	P1-P	1				.25	NO		11	
			P2-K	4				.25	NO			
A	5	1	P1-V	1				.25	NO		11	
			E2-BB	3				.25	NO			
A	6	1	E2-B	3				.25	NO			
			P2-M	4				.25	NO			
A	7	1	E2-B	3				.25	NO			
			P3-L	5				.25	NO			
A	8	1	P1-T	1				.25	NO		11	
			P3-M	5				.25	NO			
A	9	1	E3-BB ~~P1-R~~	1				.25	NO		~~11~~	
			P3-J	5				.25	NO			
A	10	1	E3-B	6				.25	NO			
			P1-M	1				.25	NO		11	
A	11	18	E3-B	6				.25	NO			
			P1-L	1				.25	NO		11	
A	12	18	P3-G	5				.25	NO			
			P3-H	5				.25	NO			

SIZE	CODE IDENT NO.	
A	99974	2901447
SCALE-NONE	REV LTR ~~A~~B	SHEET 6 OF 7

REVISIONS					30013
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		See SHT 1 FOR REV RECORD			


P2
9
4
SEE NOTES 6,7 & 10
12.00
2 PLACES
8
4
SEE NOTE 5
W192-P2
(J1-PTC)
3.00
CENTRALIZE
SEE NOTE 8
2
E3
5 | 6
6
P1
7
1
SEE NOTES
6,7 & 10
8
2
SEE NOTE 5
W192-P1
(J2-BPP)
2
3
E1
5 | 6
2
E2
5 | 6
3
3.00
3.00
3.00
39.00
4
SEE NOTE 5
8
W192-P3
(J2-PTC)
3.00
P3
10
5
SEE NOTES 6,7 & 10

8102205	1900011-031
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
± .50	± —	± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN Oezel DATE 20 APR 66
CHECKED Pioida 20APR 66
APPROVAL Gebman 6/28/66
CONTRACT NAS 9-497

A. C. METZ
NASA APPROVAL

MIT APPROVAL W. Murphy 7-5-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED-W192

SIZE C
CODE IDENT NO. 99974
2901447
SCALE ~
SHEET 7 OF 7

MIL-1082D D

CABLE ASSEMBLY W192 2901447 C

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	MARK REFERENCE DESIGNATIONS SHOWN PER ND1002019, HOT IMPRESSION STAMP, USING .12 WHITE CHARACTERS, CENTRALIZED.
6	GROMMET HOLES WITHOUT LEADS SHALL BE SEALED USING FURNISHED PLUGS AND ITEM 15.
7	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
8	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
9	ASSEMBLE PER ND1002032.
10	FILL THE SPACE BETWEEN THE WIRE BUNDLE AND GROMMET USING ITEM 17 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP.

SIZE	CODE IDENT NO.		
A	99974	2901447	
SCALE-NONE	REV LTR C	SHEET 2 OF 7	

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 B

NOTE NUMBER GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.		
A	99974	2901447	
SCALE-NONE	REV LTR B	SHEET 3 OF 7	

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 D B A.

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901447-001	WIRE ND1002181 TYPE 1 CLASS 1 16AWG WHT, 24 FT. TOTAL LENGTH
3	2	1	2901447-002	TUBING MODIFIED PVC SHRINK FIT 1016197-008 4 FEET 2 INCHES TOTAL LENGTH
3	3	1	2901447-003	TUBING MODIFIED PVC SHRINK FIT 1016197-006 2 FEET 2 INCHES TOTAL LENGTH
3	4	1	2901447-004	TUBING MODIFIED PVC SHRINK FIT 1016197-007 6 INCHES TOTAL LENGTH
3	5	~~2~~3	1016006-002	SPLICE REDUCER PERMANENT
3	6	~~2~~3	1010490-256	INSULATION SLEEVING ELECTRICAL SHRINK FIT.
	7	1	MS3126F14-19P	(1897089-190) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
3	8	3	1016282- 14	GROMMET CONNECTOR STRAIN RELIEF
	9	1	MS3126F14-12S	(1897040-120) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
	10	1	MS3126F14-12SW	(1897040-121) CONNECTOR PLUG ELECTRICAL (CRIMP TYPE)
~~3~~	~~11~~	~~6~~	~~1016281-100~~	~~CONTACT PIN SPECIAL~~
	12	X	MS3193A-20A	(1896877-020) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)
	13	X	MS3193A-16A	(1896877-016) CONTACT, ELECTRICAL-SOCKET TYPE (FURNISHED WITH ITEMS 9 AND 10)

SIZE	CODE IDENT NO.		
A	99974	2901447	
SCALE-NONE	REV LTR D AB	SHEET 4 OF 7	

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 BA.

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	14	X	MS3192A-20A	(1896855-020) CONTACT, ELECTRICAL-PIN TYPE (FURNISHED WITH ITEM 7)
3	15	24	1897370-001	PLUG, END SEAL
3	16	X	1897370-002	PLUG, END SEAL (FURNISHED WITH ITEMS 9 AND 10)
	17	AR	MIL-I-15126 TYPE ACT	TAPE, ADHESIVE, ELECTRICAL .50 WIDE (ES2716-4 TYPE C)
	18	1	2901447-005	WIRE ND1002181, TYPE 1, CLASS 1, 22 AWG, WHT 1 FT TOTAL LENGTH

SIZE	CODE IDENT NO.		
A	99974	2901447	
SCALE-NONE	REV LTR AB	SHEET 5 OF 7	

MIL 2084 9-65

CABLE ASSEMBLY W192 2901447 D \ B

LEAD IDENT	WIRE MATL. ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1	P1-N E1-B	1 2				.25 .25	NO NO		++	
A	2	1	P1-K E1-B	1 2				.25 .25	NO NO		++	
A	3	1	E1-BB P2-L	2 4				.25 .25	NO NO			
A	4	1	P1-P P2-K	1 4				.25 .25	NO NO		++	
A	5	1	P1-V E2-BB	1 3				.25 .25	NO NO		++	
A	6	1	E2-B P2-M	3 4				.25 .25	NO NO			
A	7	1	E2-B P3-L	3 5				.25 .25	NO NO			
A	8	1	P1-T P3-M	1 5				.25 .25	NO NO		++	
A	9	1	E3-BB ~~P1-R~~ P3-J	1 5				.25 .25	NO NO		++	
A	10	1	E3-B P1-M	6 1				.25 .25	No No		 ++	
A	11	18	E3-B P1-L	6 1				.25 .25	NO NO		 ++	
A	12	18	P3-G P3-H	5 5				.25 .25	NO NO			

SIZE	CODE IDENT NO.	
A	99974	2901447
SCALE-NONE	REV LTR D	SHEET 6 OF 7

MIL 2084 9-65

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
		A	Revised Per DO. 61964	5-2-66	VM CP
		B	INITIAL RELEASE CLASS A PER TDRR 28757	4 MAY 66	JJJ RS

Charleston 12APR66

REV		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS OF SHEETS	REV				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

		DAY MO YR
DRAFTSMAN	Orzel	1 APR 66
CHECKER	Fiflar	19 APR 66
ENGINEER	Rast	15 APR 66
APPROVAL	J. M. Walton	5-5-66
CONTR NO.	NAS 9-497	
NASA APPROVAL	A C Mut	
MIT APPROVAL	W. C. Mauly	5-12-66

WIRING HARNESS B

SIZE A
CODE IDENT. NO 99974
2901465
SCALE NONE
SHEET 1 OF 209

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	B	84	B	118	B	152	B	186	B										
51	B	85	B	119	B	153	B	187	B										
52	B	86	B	120	B	154	B	188	B										
53	B	87	B	121	B	155	B	189	B										
54	B	88	B	122	B	156	B	190	B										
55	B	89	B	123	B	157	B	191	B										
56	B	90	B	124	B	158	B	192	B										
57	B	91	B	125	B	159	B	193	B										
58	B	92	B	126	B	160	B	194	B										
59	B	93	B	127	B	161	B	195	B										
60	B	94	B	128	B	162	B	196	B										
61	B	95	B	129	B	163	B	197	B										
62	B	96	B	130	B	164	B	198	B										
63	B	97	B	131	B	165	B	199	B										
64	B	98	B	132	B	166	B	200	B										
65	B	99	B	133	B	167	B	201	B										
66	B	100	B	134	B	168	B	202	B										
67	B	101	B	135	B	169	B	203	B										
68	B	102	B	136	B	170	B	204	B										
69	B	103	B	137	B	171	B	205	B										
70	B	104	B	138	B	172	B	206	B										
71	B	105	B	139	B	173	B	207	B										
72	B	106	B	140	B	174	B	208	B										
73	B	107	B	141	B	175	B	209	B										
74	B	108	B	142	B	176	B												
75	B	109	B	143	B	177	B												
76	B	110	B	144	B	178	B												
77	B	111	B	145	B	179	B												
78	B	112	B	146	B	180	B												
79	B	113	B	147	B	181	B												
80	B	114	B	148	B	182	B												
81	B	115	B	149	B	183	B												
82	B	116	B	150	B	184	B												
83	B	117	B	151	B	185	B												

SIZE A
CODE IDENT. NO. 99974
2901465
SCALE NONE
REV LTR B
SHEET 2 OF 209

MIL 1377A3 8-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002032
B - ND1002071

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 LACE HARNESS USING ITEM 109.

4 FASTEN MARKER SECURELY TO CONFORM TO CONFIGURATION USING ITEM 109.

5 A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

6 GRID MODULE IS ONE INCH BASIC FOR DIMENSIONING. UNLESS OTHERWISE SPECIFIED. HARNESS DRAWING IS SHOWN AT TRUE POSITION. CENTERS OF HARNESS FEATURES SHALL BE WITHIN +.25 OR -.25 AND ENDS OF LEADS AND ACCESSORIES +.12 OR -.12 INCH TOLERANCE OF THE TRUE POSITIONS SHOWN. ALL TOLERANCES APPLY REGARDLESS OF FEATURE SIZE.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

8 NUMBER IN BRACKETS ARE QUANTITIES OF LEADS.

9 UNLESS OTHERWISE SPECIFIED APPLY LEAD INDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B

10 SOLDER PER ND1002071 USING ITEM 112 RO ITEMS 110 AND 111.

11 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

NOTE GENERAL NOTES

NUMBER DESCRIPTION

12 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER -
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK, WHITE WITH LETTER K OR WHITE WITH BLACK TRACER.
L - BLUE, WHITE WITH LETTER L, OR WHITE WITH BLUE TRACER
R - RED, WHITE WITH LETTER R OR WHITE WITH RED TRACER.
W - WHITE OR WHITE WITH LETTER W.
X - COAX OUTER CONDUCTOR
Y - YELLOW, WHITE WITH LETTER Y OR WHITE WITH YELLOW TRACER.

13 MARK ITEMS 81 AND 139 PER ND1002019, COLOR BLACK, .12 HIGH IN VIEW X-X AND Y-Y. MARK WITH HARNESS PLUG DESIGINATION AND MATING RECEPTACLE DESIGINATION SHOWN IN TABLE 1

14 USE ITEM 125 AS REQUIRED TO PROVIDE CLAMPING

15 UNLESS OTHERWISE SPECIFIED TUBING SHALL EXTEND A MINIMUM OF .5 INCH BEYOND CABLE CLAMPS SHOWN IN DETAILS A THRU S AND WITHIN 2 INCHS OF THEIR RESPECTIVE DATUMS

16 ON CONDUCTORS 568, 615, 911 AND 986 MARK LEAD IDENTIFICATIONS PER ND1002019 INCLUDING SUFFIXES

17 THE FOLLOWING CONDUCTORS ARE TO BE TWISTED TOGETHER IN ACCORDANCE WITH THE BEST COMMERCIAL PRACTICE. THEY SHALL BE TWISTED WITH A LAY NOT GREATER THAN 14 TIMES NOR LESS THAN 8 TIMES THE PITCH DIAMETER.
568K, 568L, 568R, 568Y, 615L, 615R, 911L, 911R, 911Y,
986L, 986R, 986Y, 1156, 1157, 1178, 1180

18 TOLERANCE FOR STRIP LENGTHS ON ITEM 118 TO BE
PLUS .06, MINUS .00 WHEN ITEMS 90 THRU 94 ARE USED
PLUS .03, MINUS .00 WHEN ITEMS 128 THRU 132 ARE USED
PLUS .03, MINUS .00 WHEN ITEMS 96, 97 AND 98 ARE USED

NOTE GENERAL NOTES

NUMBER DESCRIPTION

19 CONNECTORS MUST HAVE A MINIMUM OF THREE CONTACT POSITIONS FILLED IN HOLES 1 THRU 10 AND 23 THRU 32 TO MEET THIS REQUIREMENT USE CRIMPED UNWIRED CONTACTS IN HOLES 1,2,3 AND 30,31,32.

20 USE TOLERANCE CHART UNLESS OTHERWISE SPECIFIED

21 LEAD INSULATION SHALL NOT BE CRIMPED IN ACCESSORY ITEM 138 WHENEVER ITEMS 2,9, + 142 ARE SPECIFIED. EXPOSED WIRE SHALL NOT EXCEED .06 IN.

22 ASSEMBLE CONTACTS IN ALL SPARE CONNECTOR INSERT HOLES OF ALL MS3126 AND 3127 TYPE CONNECTORS.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901465-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT
	2	1	2901465-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG, WHT
	3	1	2901465-003	WIRE, ND1002181, TYPE 1, CLASS 1, 20AWG, WHT
	7	1	2901465-007	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JACKET, 24AWG, WHT/RED, WHT/BLU
	8	1	2901465-008	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JACKET, 20AWG, WHT/RED, WHT/BLU
	9	1	2901465-009	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JACKET, 16AWG, WHT/RED, WHT/BLU
	10	1	2901465-010	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JACKET, 22AWG, WHT/RED, WHT/BLU
	12	2	MS3126F14-19S	(1897040-190) CONNECTOR PLUG, ELEC
	13	2	MS3126F22-55P	(1897045-550) CONNECTOR PLUG, ELEC
	14	1	MS3126F22-55PW	(1897045-551) CONNECTOR PLUG, ELEC
7	15	3	1015907-100	CONNECTOR PLUG, ELEC
	16	8	MS3126F16-8S	(1897042-080) CONNECTOR PLUG, ELEC
	17	1	MS3126F24-61PZ	(1897047-614) CONNECTOR PLUG, ELEC
7	18	2	1015907-103	CONNECTOR PLUG, ELEC
	20	1	MS3126F22-55PX	(1897045-552) CONNECTOR PLUG, ELEC
	21	1	MS3126F22-55SY	(1897046-553) CONNECTOR PLUG, ELEC

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	98	106	1897229-003	FERRULE
7	99	5	1897357-001	SPLICE, CONDUCTOR
7	100	3	1016369-711	INNER SUPPORT SLEEVE
7	101	3	1016369-713	OUTER SUPPORT SLEEVE
7	103	31	1006783-045	SCREW, BUTTON HEAD
	106	31	AN960C10L	(1897006- 19) WASHER, FLAT
	108	31	1896990-011	NUT, SELF LOCKING
	109	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK
	110	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	111	AR	MIL-F-14256	FLUX (ES2798)
	112	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)
7	113	496	1897266-001	CONTACT, RECEP, ELEC
	114	X	MS3192A-20A	(1896855-020) CONTACT, PIN(FURNISHED WITH CONN)
	115	X	MS3193A-20A	(1896877-020) CONTACT, SOCKET(FURNISHED WITH CONN)
	116	X	MS3192-16A	(1896855-016) CONTACT, PIN(FURNISHED WITH CONN)
	117	X	MS3193-16A	(1896877-016) CONTACT, SOCKET(FURNISHED WITH CONN)
	118	1	2901465-012	CABLE, RF, COAXIAL, MIL-C-17 RG188/U

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 11 OF 209

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	119	246	1010763-002	SLEEVE, SOLDER, ELEC
7	120	743	1010490-228	INSULATION-SLEEVING, ELEC
7	121	16	1010763- 3	SLEEVE, SOLDER, ELEC
7	123	53	1897267-001	CONNECTOR RECEP, ELEC
7	124	20	1010490-232	INSULATION-SLEEVING, ELEC
	125	1	2901465-025	INSULATION, ELEC, MIL-I-631, TYPE F, FORM T, .62 IN. WIDE X .040 IN. THICK, GRADE A, CLASS 1 BLACK
7	126	16	1016281-180	CONTACT-PIN
7	127	36	1016281-181	CONTACT-SOCKET
7	128	99	1016369-588	HYRING
7	129	25	1016369-288	CONTACT-OUTER MALE
7	130	26	1016369-388	CONTACT-INNER FEMALE
7	131	74	1016369-488	CONTACT-OUTER FEMALE
7	132	75	1016369-188	CONTACT-INNER MALE
7	133	13	1016369-420	CONTACT-MALE NO. 20
7	134	67	1016369-421	CONTACT-FEMALE NO. 20
7	135	3	1016369-720	CONTACT-MALE NO. 16
7	136	2	1016369-721	CONTACT-FEMALE NO. 16

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 12 OF 209

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	137	1	2901465-014	WIRE, ND1002181, TYPE III, CLASS 1, T3, WHT, 22AWG
7	138	42	1897266-004	CONTACT, RECEPT, ELECT
7	139	27	1015864-462	INSULATION SLEEVING
	140	1	2901465-015	WIRE, ND1002181, TYPE II, CLASS 1, T2, 22AWG, WHT
	142	1	2901465-017	WIRE, ND1002181, TYPE II, CLASS 1, T2, 16AWG, WHT
	143	1	2901465-024	WIRE ND1002181 TYPE 3 CLASS 4, WHT JACKET, 20AWG WHT/RED WHT/BLU WHT/YEL
7	144	52	1897342-003	LUG, TERMINAL
	145	4	1897331-001	ADAPTER, CABLE CLAMP
	146	4	1897330-001	CLAMP, STRAIN RELIEF
	147	1	1016006-002	SPLICE REDUCER
7	148	109	1015908-082	BUSHING
	149	1	1897070-010	CLAMP, STRAIN RELIEF

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 13 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120	
B 1E			J8-G1 P12-G1	27 126				.11 .11	NO NO		93,148 90,148	237 237
B 1X			J8-G2 P12-G2	27 126								238 238
B 2	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120	
B 2E			J8-J1 P12-J1	27 126				.11 .11	NO NO		93,148 90,148	241 241
B 2X			J8-J2 P12-J2	27 126								242 242
B 3	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120	
B 3E			J8-K1 P12-K1	27 126				.11 .11	NO NO		93,148 90,148	243 243
B 3X			J8-K2 P12-K2	27 126								244 244
B 4	118				.52 .52	.23 .23				A,9 A,10	91, 92,120 92, 94,120	
B 4E			J8-H1 P12-H1	27 126				.11 .11	NO NO		93,148 90,148	239 239
B 4X			J8-H2 P12-H2	27 126								240 240

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 14 OF 209

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 20E			J9-H1 P127A-12A	25 170A				.11 .22	NO NO		93,148 96	259A 259A
B 20X			J9-H2 P127A-12B	25 170A								260A 260A
B 21	118				.52 2.25	.23 2.00				A,9 B,6B	91, 92,120 119,120	
B 21B	1		P14-C* SHLD B21	197				.22 .25	NO NO		114	373 373
B 21E			J13-A1 P14-D*	29 197				.11 .22	NO NO		93,148 114	372 372
B 21X			J13-A2 SHLD B21	29								373 373
B 22	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 22E			J13-E1 P127A-17A	29 170A				.11 .22	NO NO		93,148 96	380 380
B 22X			J13-E2 P127A-17B	29 170A								381 381
B 23	118				.52 .44	.23 .28				A,9	91, 92,120 12C, 97, 98	
B 23E			J13-F1 P127A-18A	29 170A				.11 .22	NO NO		93,148 96	382 382
B 23X			J13-F2 P127A-18B	29 170A								383 383

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 19 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 24	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 24E			J13-G1 P127A-19A	29 170A				.11 .22	NO NO		93,148 96	384 384
B 24X			J13-G2 P127A-19B	29 170A								385 385
B 25	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 25E			J13-J1 P127A-21A	29 170A				.11 .22	NO NO		93,148 96	388A 388A
B 25X			J13-J2 P127A-21B	29 170A								389A 389A
B 26	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 26E			J13-K1 P127A-24A	29 17CA				.11 .22	NO NO		93,148 96	390B 390B
B 26X			J13-K2 P127A-24B	29 170A								391A 391A
B 27	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 27E			J13-H1 P127A-20A	29 170A				.11 .22	NO NO		93,148 96	386 386
B 27X			J13-H2 P127A-20B	29 170A								387A 387A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 20 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 28	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,124,120	
B 28B	1		P26-P* SHLD B28	194				.22 .25	NO NO		115	375 375
B 28E			J13-B1 P26-N*	29 194				.11 .22	NO NO		93,148 115	374 374
B 28X			J13-B2 SHLD B28	29								375 375
B 29	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,124,120	
B 29B	1		P25-V* SHLD B29	195				.22 .25	NO NO		115	379 379
B 29E			J13-D1 P25-U*	29 195				.11 .22	NO NO		93,148 115	378 378
B 29X			J13-D2 SHLD B29	29								379 379
B 30	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,124,120	
B 30B	1		P25-Z* SHLD B30	195				.22 .25	NO NO		115	377 377
B 30E			J13-C1 P25-Y*	29 195				.11 .22	NO NO		93,148 115	376 376
B 30X			J13-C2 SHLD B30	29								377 377

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 21 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 31	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,124,120	
B 31B	1		P26-PP SHLD B31	 194				.22 .25	NO NO		115	1420 1420
B 31E			J14-K1 P26-NN	28 194				.11 .22	NO NO		93,148 115	1419 1419
B 31X			J14-K2 SHLD B31	28								1420 1420
B 32	118				.52 2.25	.23 2.00				A,9 B,68	91, 92,120 119,124,120	
B 32B	1		P15-Y SHLD B32	198				.22 .25	NO NO		114	393 393
B 32E			J14-A1 P15-Z	28 198				.11 .22	NO NO		93,148 114	392 392
B 32X			J14-A2 SHLD B32	28								393 393
B 33	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	
B 33E			J14-B1 P128A-1A	28 171				.11 .22	NO NO		93,148 96	394 394
B 33X			J14-B2 P128A-1B	28 171								395 395
B 34	118				.52 .44	.23 .28				A,9	91, 92,120 120, 97, 98	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 22 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 48R			J16-G* P104D-11	20 68				.22 .12	NO NO		114 113	434 434
B 49	1		J16-HH P92-Y*	20 183				.22 .22	NO NO		114 115	455 455
B 50	1		J16-D* P98-GG	20 187				.22 .22	NO NO		114 115	431 431
B 51	1		J16-E* P98-HH	20 187				.22 .22	NO NO		114 115	432 432
B 52	1		J16-F* P98-FF	20 187				.22 .22	NO NO		114 115	433 433
B 53	1		J16-CC P92-V*	20 183				.22 .22	NO NO		114 115	452 452
B 54	1		J16-BB P92-W*	20 183				.22 .22	NO NO		114 115	451 451
B 55	1		J16-FF P92-U*	20 183				.22 .22	NO NO		114 115	454 454
B 56	1		J16-EE P92-T*	20 183				.22 .22	NO NO		114 115	453 453
B 57	1		J16-X* P92-S*	20 183				.22 .22	NO NO		114 115	448 448
B 58	1		J16-Y* P92-R*	20 183				.22 .22	NO NO		114 115	449 449
B 59	1		J16-LL P99-JJ	20 186				.22 .22	NO NO		114 115	456 456

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 60	1		J16-MM P99-MM	20 186				.22 .22	NO NO		114 115	457 457
B 61	1		J16-PP P99-LL	20 186				.22 .22	NO NO		114 115	459 459
B 62	1		J16-NN P99-KK	20 186				.22 .22	NO NO		114 115	458 458
B 63	1		J16-B E301-B	20 39				.22 .25	NO NO		114	2 2
B 64	1		J16-M P26-Y	20 194				.22 .22	NO NO		114 115	429 429
B 65	1		J16-A P26-V*	20 194				.22 .22	NO NO		114 115	428 428
B 66	1		J16-R P26-KK	20 194				.22 .22	NO NO		114 115	430 430
B 67	1		J16-N P92-X*	20 183				.22 .22	NO NO		114 115	1708 1708
B 68	1		J16-P P96-MM	20 182				.22 .22	NO NO		114 115	1700 1700
B 69	1		J16-Z* P96-MM	20 182				.22 .22	NO NO		114 115	1703 1703
B 70	1		J16-DD P96-FF	20 182				.22 .22	NO NO		114 115	1701 1701
B 71	1		J16-GG P96-GG	20 182				.22 .22	NO NO		114 115	1702 1702

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 72	1		J16-JJ P96-JJ	20 182				.22 .22	NO NO		114 115	1699 1699
B 73	1		J16-KK P96-KK	20 182				.22 .22	NO NO		114 115	1698 1698
B 74	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 74B	1		E301-B SHLD B74	39				.25 .25	NO NO			2 2
B 74L			J16-N* P108D-12	20 45				.22 .12	NO NO		114 113	156 156
B 74R			J16-M* P108D-11	20 45				.22 .12	NO NO		114 113	155 155
B 75	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 75B	1		E301-B SHLD B75	39				.25 .25	NO NO			2 2
B 75L			J16-J* P108D-16	20 45				.22 .12	NO NO		114 113	158 158
B 75R			J16-K* P108D-15	20 45				.22 .12	NO NO		114 113	157 157
B 76	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 76B	1		E301-B SHLD B76	39				.25 .25	NO NO			2 2

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 76L			J16-S* P108D-18	20 45				.22 .12	NO NO		114 113	162 162
B 76R			J16-R* P108D-17	20 45				.22 .12	NO NO		114 113	161 161
B 77	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 77B	1		E301-B SHLD B77	39				.25 .25	NO NO			2 2
B 77L			J16-Q* P108D-22	20 45				.22 .12	NO NO		114 113	164 164
B 77R			J16-P* P108D-21	20 45				.22 .12	NO NO		114 113	163 163
B 78	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 78B	1		E301-B SHLD B78	39				.25 .25	NO NO			2 2
B 78L			J16-W* P108D-24	20 45				.22 .12	NO NO		114 113	168 168
B 78R			J16-V* P108D-23	20 45				.22 .12	NO NO		114 113	167 167
B 79	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 79B	1		E301-B SHLD B79	39				.25 .25	NO NO			2 2

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 79L			J16-U* P108D-28	20 45				.22 .12	NO NO		114 113	170 170
B 79R			J16-T* P108D-27	20 45				.22 .12	NO NO		114 113	169A 169A
B 80	8				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 80A	1		SHLD B80 E303-B	 16				.25 .25	NO NO			2L 2L
B 80L			J17-HH P21-K*	15 202				.22 .22	NO NO		114 115	491 491
B 80R			J17-GG P21-J*	15 202				.22 .22	NO NO		114 115	490 490
B 81	10				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 81A	1		SHLD B81 E303-B	 16				.25 .25	NO NO			2L 2L
B 81L			J17-KK P21-I*	15 202				.22 .22	NO NO		114 115	493 493
B 81R			J17-JJ P21-H*	15 202				.22 .22	NO NO		114 115	492 492
B 82	8				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 82B	1		P117D-32 SHLD B82	35				.12 .25	NO NO		113 113	2L 2L

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B ★ | SHEET 31 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 82L			J17-FF P117D-16	15 35				.22 .12	NO NO		114 113	489A 489A
B 82R			J17-EE P117D-15	15 35				.22 .12	NO NO		114 113	488A 488A
B 83	10				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 83B	1		E306-B SHLD B83	57				.25 .25	NO NO			2L 2L
B 83L			J17-DD P116A-10	15 58				.22 .12	NO NO		114 113	487B 487B
B 83R			J17-CC P116A-9	15 58				.22 .12	NO NO		114 113	486B 486B
B 84	1		J17-B E303-B	15 16				.22 .25	NO NO		114	2L 2L
B 85	10				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 85B	1		E303-B SHLD B85	16				.25 .25	NO NO			2L 2L
B 85L			J17-L P35-H*	15 184				.22 .22	NO NO		114 115	461 461
B 85R			J17-K P35-I*	15 184				.22 .22	NO NO		114 115	460 460
B 86	1		J17-D P26-Q*	15 194				.22 .22	NO NO		114 115	1634 1634

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B ★ | SHEET 32 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TU (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 87	1		J17-E P25-X*	15 195				.22 .22	NO NO		114 115		1635 1635
B 88	1		J17-F P25-W*	15 195				.22 .22	NO NO		114 115		1636 1636
B 89	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 89B	1		E304-B SHLD B89	62				.25 .25	NO NO				2L 2L
B 89L			J17-B* P107D-28	15 64				.22 .12	NO NO		114 113		463D 463D
B 89R			J17-A* P107D-27	15 64				.22 .12	NO NO		114 113		462D 462D
B 90	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 90B	1		E304-B SHLD B90	62				.25 .25	NO NO				2L 2L
B 90L			J17-C* P107D-29	15 64				.22 .12	NO NO		114 113		464D 464D
B 90R			J17-D* P107D-30	15 64				.22 .12	NO NO		114 113		465D 465D
B 91	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 91B	1		E302-B SHLD B91	40				.25 .25	NO NO				2L 2L

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B ★ | SHEET 33 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 91L			J17-K* P108D-4	15 45				.22 .12	NO NO		114 113		471D 471D
B 91R			J17-J* P108D-3	15 45				.22 .12	NO NO		114 113		470D 470D
B 92	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 92B	1		E302-B SHLD B92	40				.25 .25	NO NO				2L 2L
B 92L			J17-N* P108D-6	15 45				.22 .12	NO NO		114 113		473D 473D
B 92R			J17-M* P108D-5	15 45				.22 .12	NO NO		114 113		472D 472D
B 93	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 93B	1		E302-B SHLD B93	40				.25 .25	NO NO				2L 2L
B 93L			J17-U* P108D-10	15 45				.22 .12	NO NO		114 113		479D 479D
B 93R			J17-T* P108D-9	15 45				.22 .12	NO NO		114 113		478D 478D
B 94	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119		
B 94B	1		P105D-32 SHLD B94	47				.12 .25	NO NO				2L 2L

SIZE A | CODE IDENT NO. 99974 | 2901465

SCALE-NONE | REV LTR B ★ | SHEET 34 OF 209

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 151	10				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 151A	1		SHLD B151 E338-B	 8				.25 .25	NO NO			1 1
B 151L			J19-G* P11-J	7 250				.22 .22	NO NO		114	1669 1669
B 151R			J19-H* P11-H	7 250				.22 .22	NO NO		114	1668 1668
B 152	10				2.25 2.25	2.00 2.00				B,6A A,7	120,121,119 120	
B 152A	1		SHLD B152 E309-B	 9				.25 .25	NO NO			2 2
B 152L			J19-Y P11-T	7 250				.22 .22	NO NO		116 114	1671 1671
B 152R			J19-X P11-S	7 250				.22 .22	NO NO		116 114	1670 1670
B 153	2		J20-N TB7-7	5 219				.22 .20	NO NO		127 74	538 538
B 154	2		J20-D TB8-5	5 211				.22 .20	NO NO		127 74	1 1
B 155	1		J20-M P24-S	5 196				.22 .22	NO NO		115 115	537 537
B 156	1		J20-C P24-C*	5 196				.22 .22	NO NO		115 115	536 536

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 39 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 157	1		J20-H P129F-32	5 23F				.22 .12	NO NO		115 138	2 2
B 158	1		J20-E P129F-27	5 23F				.22 .12	NO NO		115 113	1579 1579
B 159	1		J20-F P129F-24	5 23F				.22 .12	NO NO		115 113	1644 1644
B 160	1		J20-G P129F-23	5 23F				.22 .12	NO NO		115 113	1645 1645
B 161	1		J21-R* P96-A	2 182				.22 .22	NO NO		114 115	565 565
B 162	1		J21-Q* P96-B	2 182				.22 .22	NO NO		114 115	564 564
B 163	1		J21-P* P96-C	2 182				.22 .22	NO NO		114 115	563 563
B 164	1		J21-N* P96-D	2 182				.22 .22	NO NO		114 115	562 562
B 165	1		J21-M* P96-E	2 182				.22 .22	NO NO		114 115	561 561
B 166	1		J21-B* P96-G	2 182				.22 .22	NO NO		114 115	552 552
B 167	1		J21-C* P96-H	2 182				.22 .22	NO NO		114 115	553 553
B 168	1		J21-D* P96-J	2 182				.22 .22	NO NO		114 115	554 554

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 40 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 169	1		J21-E* P96-K	2 182				.22 .22	NO NO		114 115	555 555
B 170	1		J21-F* P96-L	2 182				.22 .22	NO NO		114 115	556 556
B 171	1		J21-G* P96-M	2 182				.22 .22	NO NO		114 115	557 557
B 172	1		J21-H* P96-N	2 182				.22 .22	NO NO		114 115	558 558
B 173	1		J21-J* P96-P	2 182				.22 .22	NO NO		114 115	559 559
B 174	1		J21-K* P96-R	2 182				.22 .22	NO NO		114 115	560 560
B 175	1		J21-A* P96-S	2 182				.22 .22	NO NO		114 115	551 551
B 176	1		J21-Z* P98-N*	2 187				.22 .22	NO NO		114 115	570 570
B 177	1		J21-HH P98-G*	2 187				.22 .22	NO NO		114 115	578 578
B 178	1		J21-EE P98-DD	2 187				.22 .22	NO NO		114 115	575 575
B 179	1		J21-V P98-H*	2 187				.22 .22	NO NO		114 115	547 547
B 180	1		J21-L P98-J*	2 187				.22 .22	NO NO		114 115	541 541

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 41 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 181	1		J21-M P98-CC	2 187				.22 .22	NO NO		114 115	542 542
B 182	1		J21-X* P98-I*	2 187				.22 .22	NO NO		114 115	568 568
B 183	1		J21-GG P98-V	2 187				.22 .22	NO NO		114 115	577 577
B 184	1		J21-DD P98-U	2 187				.22 .22	NO NO		114 115	574 574
B 185	1		J21-N P98-T	2 187				.22 .22	NO NO		114 115	543 543
B 186	1		J21-J P98-S	2 187				.22 .22	NO NO		114 115	539 539
B 187	1		J21-K P98-R	2 187				.22 .22	NO NO		114 115	540 540
B 188	1		J21-S P99-FF	2 186				.22 .22	NO NO		114 115	544 544
B 189	1		J21-FF P98-S*	2 187				.22 .22	NO NO		114 115	576 576
B 190	1		J21-Y* P98-R*	2 187				.22 .22	NO NO		114 115	569 569
B 191	1		J21-AA P98-P*	2 187				.22 .22	NO NO		114 115	571 571
B 192	1		J21-BB P98-M*	2 187				.22 .22	NO NO		114 115	572 572

SIZE	CODE IDENT NO.		
A	99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 42 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 193	1		J21-CC P98-PP	2 187				.22 .22	NO NO		114 115	573 573
B 194	1		J21-B P129F-32	2 23F				.22 .12	NO NO		114	2 2
B 195	1		J21-C P35-CC	2 184				.22 .22	NO NO		114 115	1692 1692
B 196	1		J21-D P35-DD	2 184				.22 .22	NO NO		114 115	1693 1693
B 197	1		J21-E P35-EE	2 184				.22 .22	NO NO		114 115	1694 1694
B 198	1		J21-F P35-FF	2 184				.22 .22	NO NO		114 115	1695 1695
B 199	1		J21-G P35-GG	2 184				.22 .22	NO NO		114 115	1696 1696
B 200	1		J21-H P35-HH	2 184				.22 .22	NO NO		114 115	1697 1697
B 202	1		J21-R P92-Q*	2 183				.22 .22	NO NO		114 115	1707 1707
B 203	1		J21-U P98-FE	2 187				.22 .22	NO NO		114 115	546 546
B 204	1		J21-W P35-JJ	2 184				.22 .22	NO NO		114 115	1731 1731
B 205	1		J21-X P35-W	2 184				.22 .22	NO NO		114 115	1726 1726

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 43 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 206	8				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 206A	1		SHLD B206 E310-B	 19				.25 .25	NO NO			2 2
B 206L			J22-Q* P35-B*	18 184				.22 .22	NO NO		114 115	613 613
B 206R			J22-P* P35-C*	18 184				.22 .22	NO NO		114 115	612 612
B 207	1		J22-C* P35-G*	18 184				.22 .22	NO NO		114 115	601 601
B 208	1		J22-A* P35-X	18 184				.22 .22	NO NO		114 115	599 599
B 209	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 209B	3		E305-B SHLD B209	61				.25 .25	NO NO			1H 1H
B 209L			J22-V P107D-11	18 64				.22 .12	NO NO		114 113	594A 594A
B 209R			J22-U P107D-13	18 64				.22 .12	NO NO		114 113	593 593
B 210	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 210B	3		E305-B SHLD B210	61				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 44 OF 209

MIL 2084 9 65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
P 210L			J22-X P107D-17	18 64				.22 .12	NO NO		114 113	596A 596A
B 210R			J22-W P107D-19	18 64				.22 .12	NO NO		114 113	595 595
B 211	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 211B	3		E305-B SHLD B211	61				.25 .25	NO NO			1H 1H
B 211L			J22-Z P107D-23	18 64				.22 .12	NO NO		114 113	598A 598A
B 211R			J22-Y P107D-25	18 64				.22 .12	NO NO		114 113	597 597
B 212	10				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 212B	1		E310-B SHLD B212	19				.25 .25	NO NO			2 2
B 212L			J22-T P11-FF	18 250				.22 .22	NO NO		114 114	592 592
B 212R			J22-S P11-X	18 250				.22 .22	NO NO		114 114	591 591
B 213	7				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 213A	1		SHLD B213 E310-B	 19				.25 .25	NO NO			2 2

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 45 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 213L			J22-E P11-T	18 250				.22 .22	NO NO		114 114	1671 1671
B 213R			J22-D P11-S	18 250				.22 .22	NO NO		114 114	1670 1670
B 214	1		J22-AA P11-V	18 250				.22 .22	NO NO		114 114	622 622
B 215	1		J22-BB P11-W	18 250				.22 .22	NO NO		114 114	623 623
B 216	1		J22-CC P37-H*	18 251				.22 .22	NO NO		114 115	624 624
B 217	1		J22-DD P37-J*	18 251				.22 .22	NO NO		114 115	625 625
B 218	1		J22-EE P37-N*	18 251.				.22 .22	NO NO		114 115	626 626
B 219	1		J22-GG P37-S*	18 251				.22 .22	NO NO		114 115	627 627
B 220	1		J22-HH P37-U*	18 251				.22 .22	NO NO		114 115	628 628
B 221	1		J22-W* P37-W*	18 251				.22 .22	NO NO		114 115	618 618
B 222	1		J22-X* P37-Y*	18 251				.22 .22	NO NO		114 115	619 619
B 223	1		J22-Y* P37-AA	18 251				.22 .22	NO NO		114 115	620 620

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 46 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 224	1		J22-Z*	18				.22	NO		114	621
			P37-CC	251				.22	NO		115	621
B 225	1		J22-D*	18				.22	NO		114	602
			P35-D*	184				.22	NO		115	602
B 226	1		J22-R*	18				.22	NO		114	614
			P36-Q*	181				.22	NO		115	614
B 227	1		J22-T*	18				.22	NO		114	615
			P36-AA	181				.22	NO		115	615
B 228	1		J22-F	18				.22	NO		114	582
			P36-DD	181				.22	NO		115	582
B 229	1		J22-K*	18				.22	NO		114	609
			P36-BB	181				.22	NO		115	609
B 230	1		J22-B*	18				.22	NO		114	600
			P35-A*	184				.22	NO		115	600
B 231	1		J22-E*	18				.22	NO		114	603
			P36-LL	181				.22	NO		115	603
B 232	1		J22-F*	18				.22	NO		114	604
			P36-X*	181				.22	NO		115	604
B 233	1		J22-G*	18				.22	NO		114	605
			P36-W*	181				.22	NO		115	605
B 234	1		J22-H*	18				.22	NO		114	606
			P36-EE	181				.22	NO		115	606
B 235	1		J22-J*	18				.22	NO		114	608
			P36-JJ	181				.22	NO		115	608

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 236	1		J22-K	18				.22	NO		114	586
			P33-R	189				.22	NO		115	586
B 240	1		J22-M	18				.22	NO		114	587
			P129F-15	23F				.12	NO		113	587
B 241	1		J22-I*	18				.22	NO		114	607
			P36-GG	181				.22	NO		115	607
B 242	1		J23-A	14				.22	NO		114	629
			P41-S*	107				.22	NO		115	629
B 243	1		J23-B	14				.22	NO		114	630
			P41-T*	107				.22	NO		115	630
B 244	1		J23-C	14				.22	NO		114	631
			P41-U*	107				.22	NO		115	631
B 245	1		J23-D	14				.22	NO		114	632
			P41-V*	107				.22	NO		115	632
B 246	1		J23-E	14				.22	NO		114	633
			P41-W*	107				.22	NO		115	633
B 247	1		J23-F	14				.22	NO		114	634
			P41-X*	107				.22	NO		115	634
B 248	1		J23-G	14				.22	NO		114	635
			P41-Y*	107				.22	NO		115	635
B 249	1		J23-H	14				.22	NO		114	636
			P41-Z*	107				.22	NO		115	636
B 250	1		J23-J	14				.22	NO		114	637
			P41-AA	107				.22	NO		115	637

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 251	1		J23-V	14				.22	NO		114	638
			P41-BB	107				.22	NO		115	638
B 252	1		J23-W	14				.22	NO		114	639
			P41-CC	107				.22	NO		115	639
B 253	1		J23-X	14				.22	NO		114	640
			P41-DD	107				.22	NO		115	640
B 254	1		J23-Y	14				.22	NO		114	641
			P41-EE	107				.22	NO		115	641
B 255	1		J23-Z	14				.22	NO		114	642
			P41-FF	107				.22	NO		115	642
B 256	1		J23-A*	14				.22	NO		114	643
			P41-GG	107				.22	NO		115	643
B 257	1		J23-B*	14				.22	NO		114	644
			P41-HH	107				.22	NO		115	644
B 258	1		J23-C*	14				.22	NO		114	645
			P41-JJ	107				.22	NO		115	645
B 259	1		J23-D*	14				.22	NO		114	646
			P41-KK	107				.22	NO		115	646
B 260	1		J23-E*	14				.22	NO		114	647
			P41-LL	107				.22	NO		115	647
B 261	1		J23-Q*	14				.22	NO		114	648
			P41-MM	107				.22	NO		115	648
B 262	1		J23-R*	14				.22	NO		114	649
			P41-NN	107				.22	NO		115	649

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 263	1		J23-S*	14				.22	NO		114	650
			P41-PP	107				.22	NO		115	650
B 264	1		J23-EE	14				.22	NO		114	659B
			P109D-25	79				.12	NO		113	659B
B 265	1		J23-FF	14				.22	NO		114	660B
			P109D-26	79				.12	NO		113	660B
B 266	1		J23-GG	14				.22	NO		114	661B
			P109D-1	79				.12	NO		113	661B
B 267	1		J23-HH	14				.22	NO		114	662B
			P109D-2	79				.12	NO		113	662B
B 268	1		J23-U*	14				.22	NO		114	651A
			P121D-13	72				.12	NO		113	651A
B 269	1		J23-V*	14				.22	NO		114	652A
			P121D-14	72				.12	NO		113	652A
B 270	1		J23-W*	14				.22	NO		114	653B
			P100D-1	87				.12	NO		113	653B
B 271	1		J23-X*	14				.22	NO		114	654B
			P100D-2	87				.12	NO		113	654B
B 272	1		J23-AA	14				.22	NO		114	655B
			P115D-19	77				.12	NO		113	655B
B 273	1		J23-BB	14				.22	NO		114	656B
			P115D-20	77				.12	NO		113	656B
B 274	1		J23-CC	14				.22	NO		114	657B
			P121D-3	72				.12	NO		113	657B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 320	1		J26-J* P114D-15	3 37				.22 .12	NO NO		115 113	729A 729A
B 321	1		J26-E* P114D-17	3 37				.22 .12	NO NO		115 113	724A 724A
B 322	1		J26-H* P115D-3	3 77				.22 .12	NO NO		115 113	727A 727A
B 323	1		J26-G* P115D-5	3 77				.22 .12	NO NO		115 113	726A 726A
B 324	1		J26-I* P114D-21	3 37				.22 .12	NO NO		115 113	728A 728A
B 325	1		J26-F* P114D-23	3 37				.22 .12	NO NO		115 113	725A 725A
B 326	1		J26-GG P114D-27	3 37				.22 .12	NO NO		115 113	744A 744A
B 327	1		J26-HH P114D-29	3 37				.22 .12	NO NO		115 113	745A 745A
B 328	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 328B	1		P115D-16 SHLD B328	77				.12 .25	NO NO		138	734A 734A
B 328L			J26-U* P115D-16	3 77				.22 .12	NO NO		115	734A 734A
B 328R			J26-T* P115D-15	3 77				.22 .12	NO NO		115 113	733A 733A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 329	1		J26-S* P99-P	3 186				.22 .22	NO NO		115 115	732 732
B 330	1		J26-X* P34-C	3 188				.22 .22	NO NO		115 115	737 737
B 331	1		J26-Y* P34-B	3 188				.22 .22	NO NO		115 115	738 738
B 332	1		J26-Z* P34-E	3 188				.22 .22	NO NO		115 115	739 739
B 333	1		J26-CC P34-G	3 188				.22 .22	NO NO		115 115	740 740
B 334	1		J26-R* P34-E*	3 188				.22 .22	NO NO		 115	731 731
B 335	1		J26-W* P99-F	3 186				.22 .22	NO NO		115 115	736 736
B 336	2		J26-BB TB8-4	3 212				.22 .20	NO NO		127 74	1 1
B 337	1		J26-V* P34-G*	3 188				.22 .22	NO NO		 115	735 735
B 338	1		J26-FF P129F-7	3 23F				.22 .12	NO NO		115 113	743 743
B 339	1		J26-B P114D-32	3 37				.22 .12	NO NO		115 113	2 2
B 340	2		J26-C TB7-6	3 220				.22 .20	NO NO		127 74	538A 538A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 341	2		J26-D TB8-5	3 211				.22 .20	NO NO		127 74	1 1
B 342	3		J26-EE P129F-5	3 23F				.22 .12	NO NO		115 113	742 742
B 343	1		P129A-4 P98-BB	174 187				.12 .22	NO NO		113 115	550 550
B 344	1		J26-K* P129F-4	3 23F				.22 .12	NO NO		115 113	550 550
B 345	10				2.25 4.00	2.00 3.70				A,7 A,6B	120 120,119	
B 345B	1		P114D-31 SHLD B345	37				.12 .25	NO NO		113	1H 1H
B 345L			J26-M P114D-10	3 37				.22 .12	NO NO		115 113	1428B 1428B
B 345R			J26-L P114D-9	3 37				.22 .12	NO NO		115 113	1427B 1427B
B 347	1		J26-M* P114D-16	3 37				.22 .12	NO NO		115 113	1429A 1429A
B 348	1		J26-P* P114D-28	3 37				.22 .12	NO NO		115 113	1430A 1430A
B 349	1		J26-N* P115D-4	3 77				.22 .12	NO NO		115 113	1431A 1431A
B 350	1		J26-DD P129F-3	3 23F				.22 .12	NO NO		115 113	741 741

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 351	143				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,121	
B 351B	1		E313-B SHLD B351	195A				.25 .25	NO NO			1H 1H
B 351L			J27-B P26-E	1 194				.22 .22	NO NO		114 115	1398 1398
B 351R			J27-C P26-D	1 194				.22 .22	NO NO		114 115	1399 1399
B 351Y			J27-A P26-F	1 194				.22 .22	NO NO		114 115	1397 1397
B 352	1		J27-D P26-G	1 194				.22 .22	NO NO		114 115	1743 1743
B 353	1		J27-E P26-H	1 194				.22 .22	NO NO		114 115	1744 1744
B 354	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 354E			J28-1A P49-29A	91 168				.28 .28	NO NO		130 132	1589 1589
B 354X			J28-1B P49-29B	91 168								1590 1590
B 355	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 355E			J28-2A P49-14A	91 168				.28 .28	NO NO		130 132	1591 1591

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 355X			J28-2B P49-14B	91 168								1592 1592
B 356	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 356E			J28-3A P49-28A	91 168				.28 .28	NO NO		130 132	1593 1593
B 356X			J28-3B P49-28B	91 168								1594 1594
B 357	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 357E			J28-4A P49-30A	91 168				.28 .28	NO NO		130 132	1595 1595
B 357X			J28-4B P49-30B	91 168								1596 1596
B 358	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 358E			J28-5A P49-46A	91 168				.28 .28	NO NO		130 132	1597 1597
B 358X			J28-5B P49-46B	91 168								1598 1598
B 359	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 359E			J28-6A P49-48A	91 168				.28 .28	NO NO		130 132	1599 1599

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 59 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 359X			J28-6B P49-48B	91 168								1600 1600
B 360	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 360E			J28-7A P49-3A	91 168				.28 .28	NO NO		130 132	1601 1601
B 360X			J28-7B P49-3B	91 168								1602 1602
B 361	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 361E			J28-8A P49-9A	91 168				.28 .28	NO NO		130 132	1603 1603
B 361X			J28-8B P49-9B	91 168								1604 1604
B 362	118				.44 .44	.28 .28					128,129,120 120, 97, 98	
B 362E			J28-9A P128A-16A	91 171				.28 .22	NO NO		130 96	1559B 1559B
B 362X			J28-9B P128A-16B	91 171								1560A 1560A
B 363	118				.44 .44	.28 .28					128,129,120 120, 97, 98	
B 363E			J28-10A P128A-18A	91 171				.28 .22	NO NO		130 96	1611 1611

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 60 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 363X			J28-10B P128A-18B	91 171								1612 1612
B 364	118				.44 2.25	.28 2.00				 B,6A	128,129,120 119,124,120	
B 364B	1		P16-Q* SHLD B364	199				.22 .25	NO NO		114	1675 1675
B 364E			J28-11A P16-P*	91 199				.28 .22	NO NO		130 114	1674 1674
B 364X			J28-11B SHLD B364	91								1675 1675
B 365	118				.44 2.25	.28 2.00				 B,6A	128,129,120 119,124,120	
B 365B	1		P16-V* SHLD B365	199				.22 .25	NO NO		114	1677 1677
B 365E			J28-12A P16-U*	91 199				.28 .22	NO NO		130 114	1676 1676
B 365X			J28-12B SHLD B365	91								1677 1677
B 366	118				.44 .44	.28 .28					128,129,120 120, 97, 98	
B 366E			J28-13A P128A-17A	91 171				.28 .22	NO NO		130 96	1581B 1581B
B 366X			J28-13B P128A-17B	91 171								1582A 1582A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 61 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 367	118				.44 2.25	.28 2.00				 B,6A	128,129,120 119,124,120	
B 367B	1		P17-T SHLD B367	200				.22 .25	NO NO		115	1680 1680
B 367E			J28-14A P17-S	91 200				.28 .22	NO NO		130 115	1679 1679
B 367X			J28-14B SHLD B367	91								1680 1680
B 368	118				.44 2.25	.28 2.00				 B,6A	128,129,120 119,124,120	
B 368B	1		P16-EE SHLD B368	199				.22 .25	NO NO		114	1682 1682
B 368E			J28-15A P16-DD	91 199				.28 .22	NO NO		130 114	1681 1681
B 368X			J28-15B SHLD B368	91								1682 1682
B 369	118				.44 2.25	.28 2.00				 B,6A	128,129,120 119,124,120	
B 369B	1		P16-X* SHLD B369	199				.22 .25	NO NO		114	1684 1684
B 369E			J28-16A P16-W*	91 199				.28 .22	NO NO		130 114	1683 1683
B 369X			J28-16B SHLD B369	91								1684 1684

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 62 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 370	118				.44 2.25	.28 2.00				 B,68	128,129,120 119,120	
B 370B	1		P27-S* SHLD B370	185				.22 .25	NO NO		115	1578 1578
B 370E			J28-17A P27-R*	91 185				.28 .22	NO NO		130 115	1577 1577
B 370X			J28-17B SHLD B370	91								1578 1578
B 371	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 371E			J29-1A P60-32A	92 122				.28 .28	NO NO		130 132	1512 1512
B 371X			J29-1B P60-32B	92 122								1513 1513
B 372	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 372E			J29-2A P60-33A	92 122				.28 .28	NO NO		130 132	1514 1514
B 372X			J29-2B P60-33B	92 122								1515 1515
B 373	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 373E			J29-3A P60-34A	92 122				.28 .28	NO NO		130 132	1516 1516

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 373X			J29-3B P60-34B	92 122								1517 1517
B 374	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 374E			J29-4A P60-4A	92 122				.28 .28	NO NO		130 132	1518 1518
B 374X			J29-4B P60-4B	92 122								1519 1519
B 375	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 375E			J29-5A P60-5A	92 122				.28 .28	NO NO		130 132	1520 1520
B 375X			J29-5B P60-5B	92 122								1521 1521
B 376	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 376E			J29-6A P60-6A	92 122				.28 .28	NO NO		130 132	1522 1522
B 376X			J29-6B P60-6B	92 122								1523 1523
B 377	7				2.25 4.00	2.00 3.75				B,68 B,68	120,119 120,119	
B 377A	1		SHLD B377 J30-3	 90				.25 .19	NO NO		 133	1690 1690

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 377B	1		P1190-31 SHLD B377	53				.12 .25	NO NO		138	1H 1H
B 377L			J30-2 P1190-22	90 53				.19 .12	NO NO		133 113	1661A 1661A
B 377R			J30-1 P1190-21	90 53				.19 .12	NO NO		133 113	1660A 1660A
B 378	7				2.25 4.00	2.00 3.75				B,68 B,68	120,119 120,119	
B 378A	1		SHLD B378 J30-6	 90				.25 .19	NO NO		 133	1691 1691
B 378B	1		P1190-31 SHLD B378	53				.12 .25	NO NO			1H 1H
B 378L			J30-5 P1190-24	90 53				.19 .12	NO NO		133 113	1663A 1663A
B 378R			J30-4 P1190-23	90 53				.19 .12	NO NO		133 113	1662A 1662A
B 379	118				.44 .44	.28 .28					128,129,120 128,131,120	
B 379E			J30-7A P60-38A	90 122				.28 .28	NO NO		130 132	1664 1664
B 379X			J30-7B P60-38B	90 122								1665 1665
B 380	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 380B	1		E3.5-B SHLD B380	172				.25 .25	NO NO			1H 1H
B 380L			P1-C P91-C*	193 173				.22 .22	NO NO		115 115	747 747
B 380R			P1-F P91-C	193 173				.22 .22	NO NO		115 115	749 749
B 381	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 381B	1		E315-B SHLD B381	172				.25 .25	NO NO			1H 1H
B 381L			P1-R P91-E*	193 173				.22 .22	NO NO		115 115	752 752
B 381R			P1-G P91-E	193 173				.22 .22	NO NO		115 115	750 750
B 382	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 382B	1		E315-B SHLD B382	172				.25 .25	NO NO			1H 1H
B 382L			P1-U P91-G*	193 173				.22 .22	NO NO		115 115	753 753
B 382R			P1-K P91-G	193 173				.22 .22	NO NO		115 115	751 751
B 383	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 444	7				2.25	2.00				A,7	120	
					2.25	2.00				B,6B	120,119	
B 444B	1		P111D-31	41				.12	NO		113	1H
			SHLD B444					.25	NO			1H
B 444L			P11-C*	250				.22	NO		114	195A
			P111D-4	41				.12	NO		113	195A
B 444R			P11-G*	250				.22	NO		114	221C
			P111D-5	41				.12	NO		113	221C
B 445	9				2.25	2.00				B,6A	120,121	
					2.25	2.00				A,7	120	
B 445A	1		SHLD B445					.25	NO			1H
			E338-B	8				.25	NO			1H
B 445L			J19-W	7				.22	NO		126	1822
			P11-Z*	250				.22	NO		126	1822
B 445R			J19-U	7				.22	NO		126	1821
			P11-Q*	250				.22	NO		126	1821
B 446	9				2.25	2.00				B,6A	120,121	
					2.25	2.00				A,7	120	
B 446A	1		SHLD B446					.25	NO			1H
			E338-B	8				.25	NO			1H
B 446L			J19-F*	7				.22	NO		126	1673A
			P11-L	250				.22	NO		126	1673A
B 446R			E339-B	8A				.25	NO			1672
			P11-M	250				.22	NO		126	1672

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 75 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 447	9				2.25	2.00				B,6A	120,121		
					2.25	2.00				A,7	120		
B 447A	1		SHLD B447					.25	NO				1H
			E338-B	8				.25	NO				1H
B 447L			J19-R*	7				.22	NO		116		11
			P11-P	250				.22	NO		126		11
B 447R			J19-Q*	7				.22	NO		116		10
			P11-N	250				.22	NO		126		10
B 449	1		P11-Y	250				.22	NO		114		1640
			P129E-25	23E				.12	NO		113		1640
B 450	1		P11-Z	250				.22	NO		114		1641
			P129E-26	23E				.12	NO		113		1641
B 451	1		P11-U*	250				.22	NO		114		1642
			P130F-9	22F				.12	NO		113		1642
B 452	1		P11-V*	250				.22	NO		114		1643
			P130F-10	22F				.12	NO		113		1643
B 453	1		P11-BB	250				.22	NO		114		1239A
			P111A-21	42				.12	NO		113		1239A
B 454	1		P11-CC	250				.22	NO		114		1240A
			P111A-22	42				.12	NO		113		1240A
B 455	1		P11-D	250				.22	NO		114		1565
			P34-F*	188				.22	NO		115		1565
B 456	1		P11-E	250				.22	NO		114		931
			P130E-5	22E				.12	NO		113		931

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 76 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM.	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 457	118				.50	.31					120	
					.44	.28					128,131,120	
B 457E			P13-1	143				.11	NO			1563
			P62-46A	125				.28	NO		132	1563
B 457X			P13-2	143								1564
			P62-46B	125								1564
B 458	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	
B 458A	1		SHLD B458					.25	NO			254A
			P14-T	197				.22	NO		114	254A
B 458E			P14-S	197				.22	NO		114	253A
			P127B-9A	170B				.22	NO		96	253A
B 458X			SHLD B458									254A
			P127B-9B	170B								254A
B 459	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	
B 459A	1		SHLD B459					.25	NO			264A
			P14-G*	197				.22	NO		114	264A
B 459E			P14-F*	197				.22	NO		114	263A
			P127B-14A	170B				.22	NO		96	263A
B 459X			SHLD B459									264A
			P127B-14B	170B								264A
B 460	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 77 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 460A	1		SHLD B460					.25	NO			260A
			P14-R	197				.22	NO		114	260A
B 460E			P14-P	197				.22	NO		114	259A
			P127B-12A	170B				.22	NO		96	259A
B 460X			SHLD B460									260A
			P127B-12B	170B								260A
B 461	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	
B 461A	1		SHLD B461					.25	NO			381
			P14-S*	197				.22	NO		114	381
B 461E			P14-U*	197				.22	NO		114	380
			P127B-17A	170B				.22	NO		96	380
B 461X			SHLD B461									381
			P127B-17B	170B								381
B 462	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	
B 462A	1		SHLD B462					.25	NO			409A
			P14-E	197				.22	NO		114	409A
B 462E			P14-D	197				.22	NO		114	408A
			P128B-8A	167B				.22	NO		96	408A
B 462X			SHLD B462									409A
			P128B-8B	167B								409A
B 463	118				2.25	2.00				B,6B	119,120	
					.44	.28					120, 97, 98	

SIZE A | CODE IDENT NO. 99974 | 2901465
SCALE-NONE | REV LTR B | SHEET 78 OF 209

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 463A	1		SHLD B463 P14-X*	197				.25 .22	NO NO		114		385 385
B 463E			P14-R* P127B-19A	197 170B				.22 .22	NO NO		114 96		384 384
B 463X			SHLD B463 P127B-19B	170B									385 385
B 464	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 464A	1		SHLD B464 P14-GG	197				.25 .22	NO NO		114		427A 427A
B 464E			P14-FF P128B-13A	197 167B				.22 .22	NO NO		114 96		426A 426A
B 464X			SHLD B464 P128B-13B	167B									427A 427A
B 465	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 465A	1		SHLD B465 P14-HH	197				.25 .22	NO NO		114		423A 423A
B 465E			P14-CC P128B-11A	197 167B				.22 .22	NO NO		114 96		422A 422A
B 465X			SHLD B465 P128B-11B	167B									423A 423A
B 466	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 466A	1		SHLD B466 P14-EE	197				.25 .22	NO NO		114		425A 425A
B 466E			P14-DD P128B-12A	197 167B				.22 .22	NO NO		114 96		424A 424A
B 466X			SHLD B466 P128B-12B	167B									425A 425A
B 467	1		P14-E* P115A-24	197 78				.22 .12	NO NO		114 113		404C 404C
B 468	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 468A	1		SHLD B468 P14-A*	197				.25 .22	NO NO		114		413A 413A
B 468E			P14-B* P128B-9A	197 167B				.22 .22	NO NO		114 96		412A 412A
B 468X			SHLD B468 P128B-9B	167B									412A 412A
B 469	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 469A	1		SHLD B469 P14-N	197				.25 .22	NO NO		114		395 395
B 469E			P14-M P128B-1A	197 167B				.22 .22	NO NO		114 96		394 394
B 469X			SHLD B469 P128B-1B	167B									395 395

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 470	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 470A	1		SHLD B470 P14-B	197				.25 .22	NO NO		114		401A 401A
B 470E			P14-C P128B-4A	197 167B				.22 .22	NO NO		114		400A 400A
B 470X			SHLD B470 P128B-4B	167B									401A 401A
B 471	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 471A	1		SHLD B471 P14-K*	197				.25 .22	NO NO		114		401C 401C
B 471E			P14-J* P128B-5A	197 167B				.22 .22	NO NO		114 96		402A 402A
B 471X			SHLD B471 P128B-5B	167B									401C 401C
B 472	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 472A	1		SHLD B472 P14-Q*	197				.25 .22	NO NO		114		397A 397A
B 472E			P14-P* P128B-2A	197 167B				.22 .22	NO NO		114 96		396B 396B
B 472X			SHLD B472 P128B-2B	167B									397A 397A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 473	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 473A	1		SHLD B473 P14-M*	197				.25 .22	NO NO		114		397C 397C
B 473E			P14-N* P128B-3A	197 167B				.22 .22	NO NO		114 96		398B 398B
B 473X			SHLD B473 P128B-3B	167B									397C 397C
B 474	118				2.25 .44	2.00 .28				8,68	119,120 128,131,120		
B 474A	1		SHLD B474 P14-W	197				.25 .22	NO NO		114		856 856
B 474E			P14-X P49-25A	197 168				.22 .28	NO NO		114 132		857 857
B 474X			SHLD B474 P49-25B	168									856 856
B 475	118				2.25 .44	2.00 .28				8,68	119,120 120, 97, 98		
B 475A	1		SHLD B475 P15-I*	198				.25 .22	NO NO		114		256A 256A
B 475E			P15-H* P127B-10A	198 167B				.22 .22	NO NO		114 96		255A 255A
B 475X			SHLD B475 P127B-10B	167B									256A 256A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 476	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 476A	1		SHLD B476 P15-V	 198				.25 .22	NO NO		 114	258A 258A
B 476E			P15-U P127B-11A	198 167B				.22 .22	NO NO		114 96	257A 257A
B 476X			SHLD B476 P127B-11B	 167B								258A 258A
B 477	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 477A	1		SHLD B477 P15-G*	 198				.25 .22	NO NO		 114	262A 262A
B 477E			P15-F* P127B-13A	198 170B				.22 .22	NO NO		114 96	261A 261A
B 477X			SHLD B477 P127B-13B	 170B								262A 262A
B 478	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 478A	1		SHLD B478 P15-T	 198				.25 .22	NO NO		 114	226A 226A
B 478E			P15-S P127B-1A	198 170B				.22 .22	NO NO		114 96	225A 225A
B 478X			SHLD B478 P127B-1B	 170B								226A 226A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 83 OF 209

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 479	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 479A	1		SHLD B479 P15-P	 198				.25 .22	NO NO		 114		226C 226C
B 479E			P15-R P127B-2A	198 170B				.22 .22	NO NO		114 96		227A 227A
B 479X			SHLD B479 P127B-2B	 170B									226C 226C
B 480	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 480A	1		SHLD B480 P15-D	 198				.25 .22	NO NO		 114		230A 230A
B 480E			P15-E P127B-3A	198 170B				.22 .22	NO NO		114 96		229A 229A
B 480X			SHLD B480 P127B-3B	 170B									230A 230A
B 481	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 481A	1		SHLD B481 P15-H	 198				.25 .22	NO NO		 114		230C 230C
B 481E			P15-J P127B-4A	198 170B				.22 .22	NO NO		114 96		231A 231A
B 481X			SHLD B481 P127B-4B	 170B									230C 230C

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 84 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 482	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 482A	1		SHLD B482 P15-B	 198				.25 .22	NO NO		 114		234A 234A
B 482E			P15-C P127B-5A	198 170B				.22 .22	NO NO		114 96		233B 233B
B 482X			SHLD B482 P127B-5B	 170B									234A 234A
B 483	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 483A	1		SHLD B483 P15-M	 198				.25 .22	NO NO		 114		234C 234C
B 483E			P15-N P127B-6A	198 170B				.22 .22	NO NO		114 96		235A 235A
B 483X			SHLD B483 P127B-6B	 170B									234C 234C
B 484	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98		
B 484A	1		SHLD B484 P15-EE	 198				.25 .22	NO NO		 114		383 383
B 484E			P15-FF P127B-18A	198 170B				.22 .22	NO NO		114 96		382 382
B 484X			SHLD B484 P127B-18B	 170B									383 383

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 85 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 485	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 485A	1		SHLD B485 P15-Y*	 198				.25 .22	NO NO		 114	389A 389A
B 485E			P15-Z* P127B-21A	198 170B				.22 .22	NO NO		114 96	388A 388A
B 485X			SHLD B485 P127B-21B	 170B								389A 389A
B 486	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 486A	1		SHLD B486 P15-AA	 198				.25 .22	NO NO		 114	391A 391A
B 486E			P15-BB P127B-24A	198 170B				.22 .22	NO NO		114 96	390B 390B
B 486X			SHLD B486 P127B-24B	 170B								391A 391A
B 487	118				2.25 .44	2.00 .28				B,68	119,120 120, 97, 98	
B 487A	1		SHLD B487 P15-CC	 198				.25 .22	NO NO		 114	387A 387A
B 487E			P15-DD P127B-20A	198 170B				.22 .22	NO NO		114 96	386 386
B 487X			SHLD B487 P127B-20B	 170B								387A 387A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 86 OF 209

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 488	118				2.25 .44	2.00 .28				B,6D	119,120 120, 97, 98	
B 488A	1		SHLD B488 P15-B*	198				.25 .22	NO NO		114	421 421
B 488E			P15-A* P128B-10A	198 167B				.25 .22	NO NO		114 96	420 420
B 488X			SHLD B488 P128B-10B	167B								421 421
B 489	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 489A	1		SHLD B489 P15-G	198				.25 .22	NO NO		114	859 859
B 489E			P15-F P49-26A	198 168				.22 .28	NO NO		114 132	858 858
B 489X			SHLD B489 P49-26B	168								859 859
B 490	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 490A	1		SHLD B490 P15-L	198				.25 .22	NO NO		114	861 861
B 490E			P15-K P49-12A	198 168				.22 .28	NO NO		114 132	860 860
B 490X			SHLD B490 P49-12B	168								861 861

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 491	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 491A	1		SHLD B491 P15-J*	198				.25 .22	NO NO		114	862 862
B 491E			P15-K* P49-24A	198 168				.22 .28	NO NO		114 132	863 863
B 491X			SHLD B491 P49-24B	168								862 862
B 492	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 492A	1		SHLD B492 P15-Q*	198				.25 .22	NO NO		114	867 867
B 492E			P15-P* P49-10A	198 168				.22 .28	NO NO		114 132	866 866
B 492X			SHLD B492 P49-10B	168								867 867
B 493	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 493A	1		SHLD B493 P15-M*	198				.25 .22	NO NO		114	864 864
B 493E			P15-N* P49-11A	198 168				.22 .28	NO NO		114 132	865 865
B 493X			SHLD B493 P49-11B	168								864 864

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 494	118				2.25 .52	2.00 .23				B,68 A,10	119,120 92, 94,120		
B 494A	1		SHLD B494 P16-V	199				.25 .22	NO NO		114		882 882
B 494E			P16-U P67-D1	199 132				.22 .11	NO NO		114 90,148		881 881
B 494X			SHLD B494 P67-D2	132									882 882
B 495	118				2.25 .52	2.00 .23				B,68 A,10	119,120 92, 94,120		
B 495A	1		SHLD B495 P16-X	199				.25 .22	NO NO				882 882
B 495E			P16-W P69-E1	199 136				.22 .11	NO NO		114 90,148		883 883
B 495X			SHLD B495 P69-E2	136									882 882
B 496	118				2.25 .52	2.00 .23				B,68 A,10	119,120 92, 94,120		
B 496A	1		SHLD B496 P16-Z	199				.25 .22	NO NO		114		885 885
B 496E			P16-Y P67-E1	199 132				.22 .11	NO NO		114 90,148		884 884
B 496X			SHLD B496 P67-E2	132									885 885

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 497	118				2.25 .52	2.00 .23				B,6B A,10	119,120 92, 94,120	
B 497A	1		SHLD B497 P16-B*	199				.25 .22	NO NO		114	885 885
B 497E			P16-A* P69-F1	199 136				.22 .11	NO NO		114 90,148	886 886
B 497X			SHLD B497 P69-F2	136								885 885
B 498	118				2.25 .52	2.00 .23				B,6B A,10	119,120 92, 94,120	
B 498A	1		SHLD B498 P16-N*	199				.25 .22	NO NO		114	891 891
B 498E			P16-M* P67-F1	199 132				.22 .11	NO NO		114 90,148	890 890
B 498X			SHLD B498 P67-F2	132								891 891
B 499	118				2.25 .52	2.00 .23				B,6B A,10	119,120 92, 94,120	
B 499A	1		SHLD B499 P16-G	199				.25 .22	NO NO		114	872 872
B 499E			P16-F P68-A1	199 129				.22 .11	NO NO		114 90,148	871 871
B 499X			SHLD B499 P68-A2	129								872 872

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 520A	1		SHLD B520 P16-HH	 199				.25 .22	NO NO		 114	1560 1560
B 520E			P16-GG P128B-16A	199 167B				.22 .22	NO NO		114 96	1559 1559
B 520X			SHLD B520 P128B-16B	 167B						 B,6		1560 1560
B 521	118				2.25 .52	2.00 .23				B A,10	119,120 92, 94,120	
B 521A	1		SHLD B521 P17-G	 200				.25 .22	NO NO			891 891
B 521E			P17-F P69-G1	200 136				.22 .11	NO NO		115 90,148	895 895
B 521X			SHLD B521 P69-G2	 136								891 891
B 522	118				2.25 .52	2.00 .23				B,6B A,10	119,120 92, 94,120	
B 522A	1		SHLD B522 P17-K*	 200				.25 .22	NO NO			878 878
B 522E			P17-J* P70-D1	200 133				.22 .11	NO NO		115 90,148	897 897
B 522X			SHLD B522 P70-D2	 133								878 878
B 523	2		P17-A P126E-29	200 31				.22 .22	NO NO		127 138	1 1

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 95 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 524	1		P17-Y* P130B-1	200 179B				.22 .12	NO NO		115 113	898 898
B 525	1		P17-BB P25-AA	200 195				.22 .22	NO NO		115 115	899 899
B 526	8				2.25 10.00	2.00 9.75				A,7 B,6B	120 120,119	
B 526B	1		TB6-3 SHLD B526	237				.20 .25	NO NO		74	3 3
B 526L			P17-V TB6-3	200 237			 6.00	.22 .20	NO NO		115 74	3 3
B 526R			P17-U TB5-7	200 233				.22 .20	NO NO		115 144	896 896
B 527	118				2.25 .44	2.00 .28				B,6B A,10	119,120 92, 94,120	
B 527A	1		SHLD B527 P17-E	 200				.25 .22	NO NO		 115	1659 1659
B 527E			P17-D P128B-19A	200 167B				.22 .22	NO NO		115	1658 1658
B 527X			SHLD B527 P128B-19B	 167B								1659 1659
B 528	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 528A	1		SHLD B528 P17-J	 200				.25 .22	NO NO		 115	1606 1606

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 96 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 528E			P17-H P49-41A	200 168				.22 .28	NO NO		115 132	1605 1605
B 528X			SHLD B528 P49-41B	 168								1606 1606
B 529	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 529A	1		SHLD B529 P17-L	 200				.25 .22	NO NO		 115	1608 1608
B 529E			P17-K P49-42A	200 168				.22 .28	NO NO		115 132	1607 1607
B 529X			SHLD B529 P49-42B	 168								1608 1608
B 530	118				2.25 .44	2.00 .28				B,6B	119,120 128,131,120	
B 530A	1		SHLD B530 P17-N	 200				.25 .22	NO NO		 115	1610 1610
B 530E			P17-M P49-43A	200 168				.22 .28	NO NO		115 132	1609 1609
B 530X			SHLD B530 P49-43B	 168								1610 1610
B 531	118				2.25 .44	2.00 .28				B,6B	120,119 120, 97, 98	
B 531A	1		SHLD B531 P17-R	 200				.25 .22	NO NO		 115	1582 1582

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 97 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 531E			P17-P P128B-17A	200 167B				.22 .22	NO NO		115 96	1581 1581
B 531X			SHLD B531 P128B-17B	 167B								1582 1582
B 532	1		P17-M* P34-PP	200 188				.22 .22	NO NO		115 115	1632 1632
B 533	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 533B	1		P115D-31 SHLD B533	77				.12 .25	NO NO		113	1 1
B 533L			P19-C P115D-10	24 77				.22 .12	NO NO		114 113	809 809
B 533R			P19-B P115D-9	24 77				.22 .12	NO NO		114 113	808 808
B 534	1		P20-BB P99-R*	201 186				.22 .22	NO NO		115 115	901 901
B 535	1		P20-LL P99-R	201 186				.22 .22	NO NO		115 115	907 907
B 536	1		P20-FF P129A-3	201 174A				.22 .12	NO NO		115 113	741 741
B 537	1		P20-MM P99-J	201 186				.22 .22	NO NO		115 115	908 908
B 538	1		P20-GG P99-M	201 186				.22 .22	NO NO		115 115	905 905

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 98 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 539	1		P20-JJ P130B-9	201 179B				.22 .12	NO NO		115 113	516 516
B 540	1		P20-KK P99-W	201 186				.22 .22	NO NO		115 115	906 906
B 541	3		P20-PP P116D-32	201 55				.22 .12	NO NO		115 138	2 2
B 542	10				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 542B	1		P116D-32 SHLD B542	55				.12 .25	NO NO		113	2 2
B 542L			P20-Z P116D-10	201 55				.22 .12	NO NO		115 113	487 487
B 542R			P20-Y P116D-9	201 55				.22 .12	NO NO		115 113	486 486
B 543	3		P20-CC P129F-21	201 23F				.22 .12	NO NO		115 113	902 902
B 544	1		P20-A* P34-D	201 188				.22 .22	NO NO		115 115	900 900
B 545	1		P20-X* P129F-26	201 23F				.22 .12	NO NO		115 113	1641 1641
B 546	1		P20-Y* P129F-25	201 23F				.22 .12	NO NO		115 113	1640 1640
B 547	1		P20-Z* P129D-24	201 174D				.22 .12	NO NO		115 113	1644 1644

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 99 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 548	1		P20-AA P129D-23	201 174D				.22 .12	NO NO		115 113	1645 1645
B 549	8				2.25 2.25	2.00 2.00				B,6B A,7	120,119 120	
B 549A	1		SHLD B549 P21-Y	202				.25 .29	NO NO		127	916 916
B 549L			P21-Y P23-E	202 17				.29 .22	NO NO		117	916 916
B 549R			P21-X P23-D	202 17				.22 .22	NO NO		115 117	915 915
B 550	8				2.25 2.25	2.00 2.00				B,6B A,7	120,119 120	
B 550A	1		SHLD B550 P21-A*	202				.25 .29	NO NO		127	918 918
B 550L			P21-A* P23-C	202 17				.29 .22	NO NO		117	918 918
B 550R			P21-Z P23-B	202 17				.22 .22	NO NO		115 117	917 917
B 551	8				2.25 2.25	2.00 2.00				B,6B A,7	120,119 120	
B 551A	1		SHLD B551 P21-C*	202				.25 .29	NO NO		127	1685 1685
B 551L			P21-C* P95-E	202 89				.29 .22	NO NO		117	1685 1685

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 100 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 551R			P21-B* P95-D	202 89				.22 .20	NO NO		115 117	919 919
B 552	8				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 552A	1		SHLD B552 P21-E*	202				.25 .29	NO NO		127	1686 1686
B 552L			P21-E* P95-C	202 89				.29 .22	NO NO			1686 1686
B 552R			P21-D* P95-B	202 89				.22 .20	NO NO		115 117	920 920
B 553	7				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 553A	1		SHLD B553 E321-B	204				.25 .25	NO NO			2 2
B 553L			P21-B P91-U*	202 173				.22 .22	NO NO		115 115	910 910
B 553R			P21-A P91-U	202 173				.22 .22	NO NO		115 115	909 909
B 554	8				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 554B	1		P117A-32 SHLD B554	36				.12 .25	NO NO		138	2 2
B 554L			P21-G* P117A-16	202 36				.22 .12	NO NO		115 113	489A 489A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 101 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 554R			P21-F* P117A-15	202 36				.22 .12	NO NO		115 113	488A 488A
B 555	143				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,121	
B 555B	1		P115D-18 SHLD B555	77				.12 .25	NO NO		138	922A 922A
B 555L			P21-P* P115D-18	202 77				.22 .12	NO NO		115	922A 922A
B 555R			P21-N* P115D-17	202 77				.22 .12	NO NO		115 113	921A 921A
B 555Y			P21-Q* P117D-3	202 35				.22 .12	NO NO		115 113	923A 923A
B 556	7				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 556A	1		SHLD B556 E321-B	204				.25 .25	NO NO			2 2
B 556L			P21-V P99-A	202 186				.22 .22	NO NO		115 115	913 913
B 556R			P21-W P99-B	202 186				.22 .22	NO NO		115 115	914 914
B 557	1		P21-U P129B-15	202 174B				.22 .12	NO NO		115 113	587 587
B 558	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 102 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 558B	1		E322-B	177				.25	NO			1H
			SHLD B558					.25	NO			1H
B 558L			P21-D	202				.22	NO		115	912A
			P129B-14	174B				.12	NO		113	912A
B 558R			P21-C	202				.22	NO		115	911A
			P129B-13	174B				.12	NO		113	911A
B 559	1		P21-V*	202				.22	NO		115	1579
			P129E-27	23E				.12	NO		113	1579
B 560	9				2.25	2.00				A,7	120	
					4.00	3.75				B,6B	120,121	
B 560B	1		TB6-4	238				.20	NO		74	3A
			SHLD B560					.25	NO			3A
B 560L			P22-S	205				.22	NO		117	3B
			TB6-4	238				.20	NO		74	3B
B 560R			P22-R	205				.22	NO		117	754
			TB6-8	242				.20	NO		74	754
B 561	8				2.25	2.00				A,7	120	
					10.00	9.75				B,6B	120,119	
B 561B	1		TB6-2	236				.20	NO		74	3A
			SHLD B561					.25	NO			3A
B 561L			P22-P	205				.22	NO		117	3B
			TB6-2	236			6.00	.20	NO		74	3B
B 561R			P22-N	205				.22	NO		117	896
			TB5-6	232				.20	NO		144	896

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B*	SHEET 103 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 562	142										120		
											120		
B 562L			P22-K	205				.22	NO		117		1A
			TB8-9	207				.20	NO		74		1A
B 562R			P22-J	205				.22	NO		117		538A
			TB7-10	216				.20	NO		74		538A
B 563	8				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,119		
B 563B	1		P115A-16	78				.12	NO				734
			SHLD B563					.22	NO				734
B 563L			P22-M	205				.22	NO		117		734A
			P115A-16	78				.12	NO		138		734A
B 563R			P22-L	205				.22	NO		117		733A
			P115A-15	78				.12	NO		113		733A
B 564	2		P22-A	205				.22	NO		117		1B
			P126F-29	30				.22	NO		138		1B
B 565	2		P23-A	17				.22	NO		117		1B
			P126E-32	31				.22	NO		138		1B
B 566	2		P24-EE	196				.22	NO		127		494
			TB7-1	224				.20	NO		74		494
B 567	2		P24-FF	196				.22	NO		127		1A
			TB8-1	215				.20	NO		74		1A
B 568													

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B*	SHEET 104 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 568K	1		P24-PP	196				.22	NO		115	3B
			TB6-1	235				.20	NO		74	3B
B 568L	1		P24-LL	196				.22	NO		115	950A
			TB5-2	229				.20	NO		144	950A
B 568R	1		P24-NN	196				.22	NO		115	952A
			TB5-1	228				.20	NO		144	952A
B 568Y	1		P24-MM	196				.22	NO		115	951A
			TB5-3	230				.20	NO		144	951A
B 569	1		P24-Q*	196				.22	NO		115	938
			P37-E*	251				.22	NO		115	938
B 570	8				2.25	2.00				B,6B	120,119	
					10.00	9.75				A,7	120	
B 570A	1		SHLD B570					.25	NO			3A
			TB6-3	237				.20	NO		74	3A
B 570L			P24-HH	196				.22	NO		115	3B
			TB6-3	237			6.00	.20	NO		74	3B
B 570R			P24-GG	196				.22	NO		115	896
			TB5-6	232				.20	NO		144	896
B 571	1		P24-A*	196				.22	NO		115	931
			P130B-5	179B				.12	NO		113	931
B 572	1		P24-R	196				.22	NO		115	927
			P99-Q*	186				.22	NO		115	927
B 573	1		P24-P	196				.22	NO		115	926
			P99-W*	186				.22	NO		115	926

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B*	SHEET 105 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B*

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 574	1		P24-D*	196				.22	NO		115	932
			P99-G*	186				.22	NO		115	932
B 575	1		P24-I*	196				.22	NO		115	935
			P36-H*	181				.22	NO		115	935
B 576	1		P24-Z*	196				.22	NO		115	945
			P92-V	183				.22	NO		115	945
B 577	1		P24-Y*	196				.22	NO		115	944
			P92-U	183				.22	NO		115	944
B 578	1		P24-X*	196				.22	NO		115	943
			P92-T	183				.22	NO		115	943
B 579	1		P24-BB	196				.22	NO		115	947
			P92-R	183				.22	NO		115	947
B 580	1		P24-AA	196				.22	NO		115	946
			P92-S	183				.22	NO		115	946
B 581	1		P24-W*	196				.22	NO		115	942
			P96-A*	182				.22	NO		115	942
B 582	1		P24-V*	196				.22	NO		115	941
			P96-B*	182				.22	NO		115	941
B 583	1		P24-U*	196				.22	NO		115	940
			P96-C*	182				.22	NO		115	940
B 584	1		P24-JJ	196				.22	NO		115	948
			P92-X	183				.22	NO		115	948
B 585	1		P24-B	196				.22	NO		115	2U
			P129E-32	23E				.12	NO		113	2U

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B*	SHEET 106 OF 209

MIL 2084 9-65

WIRING HARNESS B

2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 586	2		P24-A P126F-31	196 30				.22 .22	NO NO		127 138	1 1
B 587	7				2.25 2.25	2.00 2.00				B,6B A,7	120,119 120	
B 587A	1		SHLD B587 P129E-32	 23E				.25 .12	NO NO			2 2
B 587L			P24-K* P98-X*	196 187				.22 .22	NO NO		115 115	937 937
B 587R			P24-J* P98-W*	196 187				.22 .22	NO NO		115 115	936 936
B 588	1		P24-CC P114A-9	196 38				.22 .12	NO NO		115 113	1427 1427
B 589	1		P24-DD P114A-10	196 38				.22 .12	NO NO		115 113	1428 1428
B 590	1		P24-D P34-Y*	196 188				.22 .22	NO NO		115 115	925 925
B 591	1		P24-C P130E-3	199 22E				.22 .12	NO NO		115 113	924 924
B 592	1		P24-V T84-10	196 227				.22 .20	NO NO		115 144	1374 1374
B 593	1		P24-Z P129D-15	196 174D				.22 .12	NO NO		115 113	587 587
B 594	1		P24-G* P130D-3	196 179D				.22 .12	NO NO		115 113	1028 1028

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 107 OF 209

MIL 2084 9-65

WIRING HARNESS B

2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 595	1		P24-M* P37-D*	196 251				.22 .22	NO NO		115 115	1689 1689
B 596	1		P24-T* P130B-7	196 179B				.22 .12	NO NO		115 113	939 939
B 597	1		P24-KK P129A-7	196 174A				.22 .12	NO NO		115 113	743 743
B 598	1		P25-B* P99-A*	195 186				.22 .22	NO NO		115 115	957 957
B 599	1		P25-C* P104D-27	195 68				.22 .12	NO NO		115 113	275 275
B 600	1		P25-D* P104D-28	195 68				.22 .12	NO NO		115 113	276 276
B 601	1		P25-Z P34-V	195 188				.22 .22	NO NO		115 115	955 955
B 602	3		P25-S P129A-21	195 174A				.22 .12	NO NO		115 113	902 902
B 603	1		P25-W P90-D	195 21				.22 .20	NO YES		115	954 954
B 604	10				2.25 2.25	2.00 2.00				B,6A A,7	120,119 120	
B 604A	1		SHLD B604 E328-B	 175				.25 .25	NO NO			1H 1H
B 604L			P25-Y P97-F	195 116				.22 .22	NO NO		115 114	1433 1433

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 108 OF 209

MIL 2084 9-65

WIRING HARNESS B

2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 504R			P25-X P97-E	195 116				.22 .22	NO NO		115 114	1432 1432
B 605	1		P25-T* P129A-27	195 174A				.22 .12	NO NO		115 113	1579 1579
B 606	1		P25-CC P61-5	195 123				.22 .19	NO NO		115 134	1656 1656
B 607	1		P25-DD P121D-29	195 72				.22 .12	NO NO		115 113	1580 1580
B 608	3		P25-FF P129A-25	195 174A				.22 .12	NO NO		115 113	1640 1640
B 609	3		P25-GG P129A-26	195 174A				.22 .12	NO NO		115 113	1641 1641
B 610	3		P25-HH P130C-9	195 179C				.22 .12	NO NO		115 113	1642 1642
B 611	3		P25-JJ P130C-10	195 179C				.22 .12	NO NO		115 113	1643 1643
B 612	3		P25-KK P129A-24	195 174A				.22 .12	NO NO		115 113	1644 1644
B 613	3		P25-LL P129A-23	195 174A				.22 .12	NO NO		115 113	1645 1645
B 614	1		P25-MM P27-GG	195 185				.22 .22	NO NO		115 115	1646 1646
B 615	140										120 120	

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 109 OF 209

MIL 2084 9-65

WIRING HARNESS B

2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 615L			P26-V P129E-20	194 23E				.22 .12	NO NO		115 113		969 969
B 615R			P26-U P129E-19	194 23E				.22 .12	NO NO		115 113		968 968
B 616	1		P25-BB P115D-22	195 78				.22 .12	NO NO		115 113		404 404
B 617	118				2.25 .52	2.00 .23				B,6B A,10	120,119 92, 94		
B 617A	1		SHLD B617 P26-S	 194				.25 .22	NO NO		 115		961 961
B 617E			P26-R P93-F1	194 130				.22 .11	NO NO		115 90,148		960 960
B 617X			SHLD B617 P93-F2	 130									961 961
B 618	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119		
B 618B	1		P120D-31 SHLD B618	33				.22 .25	NO NO		113		1H 1H
B 618L			P26-MM P120D-8	194 33				.22 .12	NO NO		115 113		176 176
B 618R			P26-LL P120D-7	194 33				.22 .12	NO NO		115 113		175 175
B 619	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119		

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 110 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 645L			P29-G	111				.22	NO		115	969A
			P116A-8	58				.12	NO		113	969A
B 645R			P29-F	111				.22	NO		115	968A
			P116A-7	58				.12	NO		113	968A
B 646	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 646B	1		E306-B	57				.25	NO			2
			SHLD B646					.25	NO			2
B 646L			P29-E	111				.22	NO		115	912A
			P116A-14	58				.12	NO		113	912A
B 646R			P29-D	111				.22	NO		115	911A
			P116A-13	58				.12	NO		113	911A
B 647	9				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,121	
B 647B	1		TB9-9	97				.20	NO		74	3A
			SHLD B647					.25	NO			3A
B 647L			P30-E	112				.22	NO		117	3
			TB9-9	97				.20	NO		74	3
B 647R			P30-D	112				.22	NO		117	13
			TB9-6	100				.20	NO		74	13
B 648	2		P30-A	112				.22	NO		117	1
			P126E-30	30				.22	NO		138	1
B 649	1		P31-MM	191				.22	NO		115	1008
			P99-C*	186				.22	NO		115	1008

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 115 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 650	1		P31-NN	191				.22	NO		115	1009
			P99-H*	186				.22	NO		115	1009
B 651	1		P31-V*	191				.22	NO		115	998
			P99-D*	186				.22	NO		115	998
B 652	1		P31-W*	191				.22	NO		115	999
			P99-J*	186				.22	NO		115	999
B 653	1		P31-HH	191				.22	NO		115	1005
			P99-E*	186				.22	NO		115	1005
B 654	1		P31-JJ	191				.22	NO		115	1006
			P99-I*	186				.22	NO		115	1006
B 655	1		P31-BB	191				.22	NO		115	1001
			P98-K	187				.22	NO		115	1001
B 656	3		P31-X*	191				.22	NO		115	1000
			P99-DD	186				.22	NO		115	1000
B 657	1		P31-Q*	191				.22	NO		115	997
			P98-B	187				.22	NO		115	997
B 658	1		P31-D	191				.22	NO		115	972
			P98-A	187				.22	NO		115	972
B 659	1		P31-J*	191				.22	NO		115	995
			P34-W*	188				.22	NO		115	995
B 660	1		P31-H*	191				.22	NO		115	994
			P34-P*	188				.22	NO		115	994
B 661	1		P31-G*	191				.22	NO		115	993
			P34-T*	188				.22	NO		115	993

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 116 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 662	1		P31-A	191				.22	NO		115	970
			P98-E*	187				.22	NO		115	970
B 663	1		P31-B*	191				.22	NO		115	988
			P98-F*	187				.22	NO		115	988
B 664	1		P31-A*	191				.22	NO		115	987
			P34-R*	188				.22	NO		115	987
B 665	1		P31-Z	191				.22	NO		115	986
			P34-U*	188				.22	NO		115	986
B 666	1		P31-Y	191				.22	NO		115	985
			P98-D*	187				.22	NO		115	985
B 667	1		P31-J	191				.22	NO		115	975
			P34-X*	188				.22	NO		115	975
B 668	1		P31-T	191				.22	NO		115	980
			P98-M	187				.22	NO		115	980
B 669	1		P31-S	191				.22	NO		115	979
			P98-Y	187				.22	NO		115	979
B 670	1		P31-L	191				.22	NO		115	976
			P98-X	187				.22	NO		115	976
B 671	1		P31-B	191				.22	NO		115	971
			P98-Z	187				.22	NO		115	971
B 672	1		P31-W	191				.22	NO		115	983
			P98-B*	187				.22	NO		115	983
B 673	1		P31-V	191				.22	NO		115	982
			P98-A*	187				.22	NO		115	982

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 117 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 674	1		P31-P*	191				.22	NO		115	996
			P130F-1	22F				.22	NO		115	996
B 675	1		P31-GG	191				.22	NO		115	1004
			P36-V	181				.22	NO		115	1004
B 676	1		P31-DD	191				.22	NO		115	1002
			P92-D*	183				.22	NO		115	1002
B 677	1		P31-KK	191				.22	NO		115	1007
			P92-E*	183				.22	NO		115	1007
B 678	1		P31-E	191				.22	NO		115	973
			P92-C*	183				.22	NO		115	973
B 679	1		P31-PP	191				.22	NO		115	1010
			P92-J*	183				.22	NO		115	1010
B 680	3		P31-M	191				.22	NO		115	2
			E301-B	39				.25	NO			2
B 681	1		P31-P	191				.22	NO		115	977
			P98-G	187				.22	NO		115	977
B 682	1		P31-R	191				.22	NO		115	978
			P98-C*	187				.22	NO		115	978
B 683	1		P31-U	191				.22	NO		115	981
			P98-H	187				.22	NO		115	981
B 684	1		P31-X	191				.22	NO		115	984
			P98-N	187				.22	NO		115	984
B 685	1		P31-C*	191				.22	NO		115	989
			P98-J	187				.22	NO		115	989

SIZE A	CODE IDENT NO. 99974	2901465	
SCALE-NONE	REV LTR	B	SHEET 118 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 686	1		P31-D* P121A-23	191 74				.22 .22	NO NO		115 115	1501 1501
B 687	1		P31-E* P129E-24	191 23E				.22 .12	NO NO		115 113	1644 1644
B 688	10				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 688B	1		E329-B SHLD B688	44				.25 .25	NO NO			2U 2U
B 688L			P32-A* P108A-24	190 46				.22 .12	NO NO		115 113	168A 168A
B 688R			P32-A P108A-23	190 46				.22 .12	NO NO		115 113	167A 167A
B 689	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 689B	1		E324-B SHLD B689	180				.25 .25	NO NO			1H 1H
B 689L			P32-P P36-V*	190 181				.22 .22	NO NO		115 115	1013 1013
B 689R			P32-R P36-S*	190 181				.22 .22	NO NO		115 115	1014 1014
B 690	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 690B	1		E324-B SHLD B690	180				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 119 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 690L			P32-DD P36-U*	190 181				.22 .22	NO NO		115 115	1019 1019
B 690R			P32-EE P36-R*	190 181				.22 .22	NO NO		115 115	1020 1020
B 691	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 691B	1		E324-B SHLD B691	180				.25 .25	NO NO			1H 1H
B 691L			P32-V* P36-T*	190 181				.22 .22	NO NO		115 115	1018 1018
B 691R			P32-U* P36-P*	190 181				.22 .22	NO NO		115 115	1017 1017
B 692	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 692B	3		E325-B SHLD B692	67				.25 .25	NO NO			1H 1H
B 692L			P32-R* P107A-17	190 65				.22 .12	NO NO		115 113	596A 596A
B 692R			P32-Q* P107A-19	190 65				.22 .12	NO NO		115 113	595 595
B 693	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 693B	3		E325-B SHLD B693	67				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 120 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 693L			P32-P* P107A-11	190 65				.22 .12	NO NO		115 113	594A 594A
B 693R			P32-N* P107A-13	190 65				.22 .12	NO NO		115 113	593 593
B 694	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 694B	3		E325-B SHLD B694	67				.25 .25	NO NO			1H 1H
B 694L			P32-T P107A-10	190 65				.22 .12	NO NO		115 113	210A 210A
B 694R			P32-S P107A-9	190 65				.22 .12	NO NO		115 113	209A 209A
B 695	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 695B	3		E325-B SHLD B695	67				.25 .22	NO NO			1H 1H
B 695L			P32-V P107A-16	190 65				.22 .12	NO NO		115 113	208A 208A
B 695R			P32-U P107A-15	190 65				.22 .12	NO NO		115 113	207A 207A
B 696	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 696B	3		E325-B SHLD B696	67				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 121 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 696L			P32-T* P107A-23	190 65				.22 .12	NO NO		115 113	598A 598A
B 696R			P32-S* P107A-25	190 65				.22 .12	NO NO		115 113	597 597
B 697	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 697B	3		E325-B SHLD B697	67				.25 .25	NO NO			1H 1H
B 697L			P32-X P107A-22	190 65				.22 .12	NO NO		115 113	206A 206A
B 697R			P32-W P107A-21	190 65				.22 .12	NO NO		115 113	205A 205A
B 698	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 698B	1		E330-B SHLD B698	76				.25 .22	NO NO			1H 1H
B 698L			P32-MM P118A-10	190 75				.22 .12	NO NO		115 113	1022A 1022A
B 698R			P32-PP P118A-9	190 75				.22 .12	NO NO		115 113	1024A 1024A
B 699	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 699B	1		E330-B SHLD B699	76				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 122 OF 209

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 699L			P32-FF	190				.22	NO		115	1021A
			P118A-18	75				.12	NO		113	1021A
B 699R			P32-NN	190				.22	NO		115	1023A
			P118A-17	75				.12	NO		113	1023A
B 700	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 700B	1		E330-B	76				.25	NO			1H
			SHLD B700					.25	NO			1H
B 700L			P32-Z	190				.22	NO		115	1016A
			P118A-16	75				.12	NO		113	1016A
B 700R			P32-Y	190				.22	NO		115	1015A
			P118A-15	75				.12	NO		113	1015A
B 701	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 701B	1		E326-B	66				.25	NO			2L
			SHLD B701					.25	NO			2L
B 701L			P32-C*	190				.22	NO		115	465C
			P107A-30	65				.12	NO		113	465C
B 701R			P32-C	190				.22	NO		115	464C
			P107A-29	65				.12	NO		113	464C
B 702	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 702B	1		E302-B	40				.25	NO			2L
			SHLD B702					.25	NO			2L

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 123 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 702L			P32-F*	190				.22	NO		115	162A
			P108D-20	45				.12	NO		113	162A
B 702R			P32-F	190				.22	NO		115	161A
			P108D-19	45				.12	NO		113	161A
B 703	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 703B	1		E329-B	44				.25	NO			2L
			SHLD B703					.25	NO			2L
B 703L			P32-H*	190				.22	NO		115	473B
			P108A-6	46				.12	NO		113	473B
B 703R			P32-H	190				.22	NO		115	472B
			P108A-5	46				.12	NO		113	472B
B 704	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 704B	1		E302-B	40				.25	NO			2L
			SHLD B704					.25	NO			2L
B 704L			P32-M*	190				.22	NO		115	156B
			P108D-8	45				.12	NO		113	156B
B 704R			P32-M	190				.22	NO		115	155B
			P108D-7	45				.12	NO		113	155B
B 705	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 705B	1		E329-B	44				.25	NO			2L
			SHLD B705					.25	NO			2L

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 124 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 705L			P32-B	190				.22	NO		115	170B
			P108A-28	46				.12	NO		113	170B
B 705R			P32-B*	190				.22	NO		115	169A
			P108A-27	40				.12	NO		113	169A
B 706	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 706B	1		E326-B	66				.25	NO			2L
			SHLD B706					.12	NO			2L
B 706L			P32-D*	190				.22	NO		115	463A
			P107A-28	65				.12	NO		113	463A
B 706R			P32-D	190				.22	NO		115	462A
			P107A-27	65				.12	NO		113	462A
B 707	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 707B	1		E329-B	44				.25	NO			2L
			SHLD B707					.25	NO			2L
B 707L			P32-G*	190				.22	NO		115	163A
			P108A-21	46				.12	NO		113	163A
B 707R			P32-G	190				.22	NO		115	164A
			P108A-22	46				.12	NO		113	164A
B 709	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 709B	1		E329-B	44				.25	NO			2L
			SHLD B709					.25	NO			2L

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 125 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B *

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 709L			P32-J*	19C				.22	NO		115		471B
			P108A-4	46				.12	NO		113		471B
B 709R			P32-J	190				.22	NO		115		470B
			P108A-3	46				.12	NO		113		470B
B 711	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,119		
B 711B	1		P105A-32	48				.12	NO		113		2L
			SHLD B711					.25	NO		113		2L
B 711L			P32-Z*	190				.22	NO		115		481B
			P105A-28	48				.12	NO		113		481B
B 711R			P32-Y*	190				.22	NO		115		480B
			P105A-27	48				.12	NO		113		480B
B 713	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6A	120,119		
B 713B	1		E302-B	40				.25	NO				2L
			SHLD B713					.25	NO				2L
B 713L			P32-AA	190				.22	NO		115		158A
			P108D-14	45				.12	NO		113		158A
B 713R			P32-BB	190				.22	NO		115		157A
			P108D-13	45				.12	NO		113		157A
B 714	2		P33-E	189				.22	NO		127		1A
			TB8-3	213				.20	NO		74		1A
B 715	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6A	120,119		

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B *	SHEET 126 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 715B	1		E329-B	44				.25	NO				2L
			SHLD B715					.25	NO				2L
B 715L			P32-LL	190				.22	NO		115		479B
			P108A-10	46				.12	NO		113		479B
B 715R			P32-KK	190				.22	NO		115		478B
			P108A-9	46				.12	NO		113		478B
B 716	2		P33-D	189				.22	NO		127		538A
			TB7-4	222				.20	NO		74		538A
B 717	3		P33-B	189				.22	NO		115		274A
			TB1-2	165				.20	NO		144		274A
B 718	3		P33-X	189				.22	NO		115		1J
			TB2-2	156				.20	NO		74		1J
B 719	2		P33-A	189				.22	NO		127		1B
			P126F-26	30				.22	NO		138		1B
B 720	3		P33-C	189				.22	NO		115		273A
			TB3-2	154				.20	NO		144		273A
B 721	143				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,121		
B 721B	1		P115A-18	78				.12	NO				922
			SHLD B721					.25	NO				922
B 721L			P33-J	189				.22	NO		115		922A
			P115A-18	78				.12	NO		138		922A
B 721R			P33-H	189				.22	NO		115		921A
			P115A-17	78				.12	NO		113		921A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 721Y			P33-G	189				.22	NO		115		923A
			P117A-3	36				.12	NO		113		923A
B 722	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,119		
B 722B	1		P129A-32	174A				.12	NO				2L
			SHLD B722					.22	NO				2L
B 722L			P33-L	189				.22	NO		115		969A
			P129A-20	174A				.12	NO		113		969A
B 722R			P33-K	189				.22	NO		115		968A
			P129A-19	174A				.12	NO		113		968A
B 723	1		P33-M	189				.22	NO		115		1025
			P34-Z*	188				.22	NO		115		1025
B 724	1		P33-N	189				.22	NO		115		1026
			P34-AA	188				.22	NO		115		1026
B 725	1		P33-P	189				.22	NO		115		1027
			P34-BB	188				.22	NO		115		1027
B 726	1		P33-S	189				.22	NO		115		587
			P129A-15	174A				.12	NO		113		587
B 727	1		P33-F	189				.22	NO		115		742
			P129A-5	174A				.12	NO		113		742
B 728	1		P33-Y	189				.22	NO		115		924
			P130A-3	179A				.12	NO		113		924
B 729	1		P33-A*	189				.22	NO		115		1640
			P129A-29	174A				.12	NO		113		1640

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 730	1		P33-U*	189				.22	NO		115		1641
			P129A-30	174A				.12	NO		113		1641
B 731	1		P34-U	188				.22	NO		115		951A
			TB5-3	230				.20	NO		144		951A
B 732	2		P34-W	188				.22	NO		127		538A
			TB7-3	223				.20	NO		74		538A
B 733	2		P34-X	188				.22	NO		127		1A
			TB8-2	214				.20	NO		74		1A
B 734	1		P34-J*	188				.22	NO		115		1034
			P36-M	181				.22	NO		115		1034
B 735	1		P34-H*	188				.22	NO		115		1032
			P36-W	181				.22	NO		115		1032
B 736	2		P34-A	188				.22	NO		127		1B
			P126F-25	30				.22	NO		138		1B
B 737	1		P34-B*	188				.22	NO		115		353
			P129A-11	174A				.12	NO		113		353
B 738	1		P34-C*	188				.22	NO		115		723A
			P129A-12	174A				.12	NO		113		723A
B 739	1		P34-M	188				.22	NO		115		742
			P129B-5	174B				.12	NO		113		742
B 740	3		P34-P	188				.22	NO		115		902
			P129B-21	174B				.12	NO		113		902
B 741	1		P34-Y	188				.22	NO		115		1030
			TB4-9	226				.20	NO		144		1030

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 742	1		P34-Z	188				.22	NO		115		1031
			P90-C	21				.20	YES				1031
B 743	1		P34-I*	188				.22	NO		115		1033
			P96-LL	182				.22	NO		115		1033
B 744	1		P34-M*	188				.22	NO		115		323
			P120D-2	33				.12	NO		113		323
B 745	1		P34-CC	188				.22	NO		115		1036
			P65-KK	131				.22	NO		115		1036
B 746	1		P34-DD	188				.22	NO		115		1037
			P65-LL	131				.22	NO		115		1037
B 747	1		P34-EE	188				.22	NO		115		1038
			P65-JJ	131				.22	NO		115		1038
B 748	1		P34-FF	188				.22	NO		115		1039
			P65-FF	131				.22	NO		115		1039
B 749	1		P34-GG	188				.22	NO		115		1040
			P65-GG	131				.22	NO		115		1040
B 750	1		P34-HH	188				.22	NO		115		1041
			P65-HH	131				.22	NO		115		1041
B 751	1		P34-K	188				.22	NO		115		587
			P129A-17	174A				.12	NO		113		587
B 752	1		P34-F	188				.22	NO		115		1028
			P130C-3	179C				.12	NO		113		1028
B 753	1		P34-J	188				.22	NO		115		1501
			P121A-25	74				.12	NO		113		1501

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 754	1		P34-N P130C-5	188 179C				.22 .12	NO NO		115 113	1029 1029
B 755	3		P34-A* P129B-27	188 174B				.22 .12	NO NO		115 113	1579 1579
B 756	1		P34-D* P130A-5	188 179A				.22 .12	NO NO		115 113	931 931
B 757	1		P34-KK P130D-10	188 179D				.22 .12	NO NO		115 113	1643 1643
B 758	1		P34-LL P130D-9	188 179D				.22 .12	NO NO		115 113	1642 1642
B 759	1		P34-MM P129B-25	188 174B				.22 .12	NO NO		115 113	1640 1640
B 760	1		P34-NN P129B-26	188 174B				.22 .13	NO NO		115 113	1641 1641
B 761	2		P35-A P126F-24	184 30				.22 .22	NO NO		127 138	1B 1B
B 762	8				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 762B	1		E331-B SHLD B762	69				.25 .25	NO NO			1H 1H
B 762L			P35-Y P104A-16	184 70				.22 .12	NO NO		115 113	194A 194A
B 762R			P35-Z P104A-15	184 70				.22 .12	NO NO		115 113	192A 192A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 131 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 763	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 763B	1		SHLD B763 P103A-31	 85				.25 .12	NO NO		 113	1H 1H
B 763L			P35-E* P103A-28	184 85				.22 .12	NO NO		115 113	191A 191A
B 763R			P35-F* P103A-27	184 85				.22 .12	NO NO		115 113	190A 190A
B 764	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 764B	1		E312-B SHLD B764	178				.25 .25	NO NO			1H 1H
B 764L			P35-V P129A-14	184 174A				.22 .12	NO NO		115 113	912A 912A
B 764R			P35-U P129A-13	184 174A				.22 .12	NO NO		115 113	911A 911A
B 765	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 765B	1		E322-B SHLB B765	177				.25 .25	NO NO			1H 1H
B 765L			P35-R P129B-20	184 174B				.22 .12	NO NO		115 113	969A 969A
B 765R			P35-P P129B-19	184 174B				.22 .12	NO NO		115 113	968A 968A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 132 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 766	1		P35-AA P110D-1	184 60				.22 .12	NO NO		115 113	1042B 1042B
B 767	1		P35-M P62-51	184 125				.22 .19	NO NO		115 134	1586 1586
B 768	1		P35-N P62-34	184 125				.22 .19	NO NO		115 134	1585 1585
B 769	1		P35-Q* P114A-11	184 38				.22 .12	NO NO		115 113	1234A 1234A
B 770	1		P35-J* P129B-24	184 174B				.22 .12	NO NO		115 113	1644 1644
B 771	1		P35-K* P129B-23	184 174B				.22 .12	NO NO		115 113	1645 1645
B 772	1		P35-M* P121D-25	184 72				.22 .12	NO NO		115 113	1501 1501
B 775	1		P35-R* P114A-12	184 38				.22 .12	NO NO		115 113	1235B 1235B
B 776	1		P36-P P98-L	181 187				.22 .22	NO NO		115 115	1044 1044
B 777	1		P36-S P129D-5	181 174D				.22 .12	NO NO		115 113	742 742
B 778	1		P36-U P98-V*	181 187				.22 .22	NO NO		115 115	1045 1045
B 779	2		P36-T TB7-5	181 221				.22 .20	NO NO		115 74	538A 538A

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 133 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 780	1		P36-PP P106A-27	181 83				.22 .12	NO NO		115 113	171A 171A
B 781	1		P36-NN P107D-3	181 64				.22 .12	NO NO		115 113	1210 1210
B 782	1		P36-FF P110A-11	181 63				.22 .12	NO NO		115 113	139A 139A
B 783	1		P36-KK P110A-17	181 63				.22 .12	NO NO		115 113	143A 143A
B 784	1		P36-HH P110A-15	181 63				.22 .12	NO NO		115 113	141A 141A
B 785	1		P36-D* P120D-13	181 33				.22 .12	NO NO		115 113	271 271
B 786	1		P36-F* P120D-9	181 33				.22 .12	NO NO		115 113	269 269
B 787	1		P36-B* P120D-14	181 33				.22 .12	NO NO		115 113	272 272
B 788	1		P36-M* P98-T*	181 187				.22 .22	NO NO		115 115	1047 1047
B 789	1		P36-I* P120D-10	181 33				.22 .12	NO NO		115 113	270 270
B 791	1		P36-Z* P130A-7	181 179A				.22 .12	NO NO		115 113	939 939
B 792	8				2.25 10.00	2.00 9.75				A,7 B,6B	120 120,119	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 134 UF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 824	1		P39-H	105				.22	NO		115	1059
			P64-H	134				.22	NO		115	1059
B 825	1		P39-J	105				.22	NO		115	1060
			P64-J	134				.22	NO		115	1060
B 826	1		P39-K	105				.22	NO		115	1061
			P64-K	134				.22	NO		115	1061
B 827	1		P39-L	105				.22	NO		115	1062
			P64-L	134				.22	NO		115	1062
B 828	1		P39-M	105				.22	NO		115	1063
			P64-M	134				.22	NO		115	1063
B 829	1		P39-N	105				.22	NO		115	1064
			P64-P	134				.22	NO		115	1064
B 830	1		P39-P	105				.22	NO		115	1065
			P64-W	134				.22	NO		115	1065
B 831	1		P39-R	105				.22	NO		115	1066
			P64-X	134				.22	NO		115	1066
B 832	1		P39-U	105				.22	NO		115	1069
			P64-H*	134				.22	NO		115	1069
B 833	1		P39-V	105				.22	NO		115	1070
			P64-Y	134				.22	NO		115	1070
B 834	1		P39-W	105				.22	NO		115	1071
			P64-Z	134				.22	NO		115	1071
B 835	1		P39-X	105				.22	NO		115	1072
			P64-A*	134				.22	NO		115	1072

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 139 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 836	1		P39-Y	105				.22	NO		115	1073
			P64-B*	134				.22	NO		115	1073
B 837	1		P39-Z	105				.22	NO		115	1074
			P64-C*	134				.22	NO		115	1074
B 838	1		P39-A*	105				.22	NO		115	1075
			P64-D*	134				.22	NO		115	1075
B 839	1		P39-B*	105				.22	NO		115	1076
			P64-E*	134				.22	NO		115	1076
B 840	1		P39-C*	105				.22	NO		115	1077
			P64-F*	134				.22	NO		115	1077
B 841	1		P39-D*	105				.22	NO		115	1078
			P64-G*	134				.22	NO		115	1078
B 842	1		P39-E*	105				.22	NO		115	1079
			P64-I*	134				.22	NO		115	1079
B 843	1		P39-F*	105				.22	NO		115	1080
			P64-U*	134				.22	NO		115	1080
B 844	1		P39-G*	105				.22	NO		115	1081
			P64-T*	134				.22	NO		115	1081
B 845	1		P39-H*	105				.22	NO		115	1082
			P64-S*	134				.22	NO		115	1082
B 846	1		P39-I*	105				.22	NO		115	1083
			P64-R*	134				.22	NO		115	1083
B 847	1		P39-J*	105				.22	NO		115	1084
			P64-Q*	134				.22	NO		115	1084

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 140 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 848	1		P39-K*	105				.22	NO		115	1085
			P64-P*	134				.22	NO		115	1085
B 849	1		P39-M*	105				.22	NO		115	1086
			P64-N*	134				.22	NO		115	1086
B 850	1		P39-N*	105				.22	NO		115	1087
			P64-M*	134				.22	NO		115	1087
B 851	1		P39-R*	105				.22	NO		115	790
			P116D-20	55				.12	NO		113	790
B 852	1		P40-N	106				.22	NO		115	1088
			P65-AA	131				.22	NO		115	1088
B 853	1		P40-P	106				.22	NO		115	1089
			P65-BB	131				.22	NO		115	1089
B 854	1		P40-S	106				.22	NO		115	1090
			P63-A*	131				.22	NO		115	1090
B 855	1		P40-T	106				.22	NO		115	1091
			P63-B*	131				.22	NO		115	1091
B 856	1		P40-U	106				.22	NO		115	1092
			P63-C*	137				.22	NO		115	1092
B 857	1		P40-V	106				.22	NO		115	1093
			P63-D*	137				.22	NO		115	1093
B 858	1		P40-W	106				.22	NO		115	1094
			P63-E*	137				.22	NO		115	1094
B 859	1		P40-X	106				.22	NO		115	1095
			P63-F*	137				.22	NO		115	1095

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 141 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 860	1		P40-Y	106				.22	NO		115	1096
			P63-G*	137				.22	NO		115	1096
B 861	1		P40-Z	106				.22	NO		115	1097
			P63-H*	137				.22	NO		115	1097
B 862	1		P40-A*	106				.22	NO		115	1098
			P63-I*	137				.22	NO		115	1098
B 863	1		P40-C*	106				.22	NO		115	1100
			P63-Z	137				.22	NO		115	1100
B 864	1		P40-D*	106				.22	NO		115	1101
			P63-Y	137				.22	NO		115	1101
B 865	1		P40-E*	106				.22	NO		115	1102
			P63-X	137				.22	NO		115	1102
B 866	1		P40-F*	106				.22	NO		115	1103
			P63-W	137				.22	NO		115	1103
B 867	1		P40-G*	106				.22	NO		115	1104
			P63-V	137				.22	NO		115	1104
B 868	1		P40-H*	106				.22	NO		115	1105
			P63-U	137				.22	NO		115	1105
B 869	1		P40-I*	106				.22	NO		115	1106
			P63-T	137				.22	NO		115	1106
B 870	1		P40-J*	106				.22	NO		115	1107
			P63-S	137				.22	NO		115	1107
B 871	1		P40-K*	106				.22	NO		115	1108
			P63-R	137				.22	NO		115	1108

SIZE A	CODE IDENT NO. 99974	2901465
SCALE-NONE	REV LTR B	SHEET 142 OF 209

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 909L			P48-U* P106A-14	169 83				.22 .12	NO NO		115 113		1308 1308
B 909R			P48-T* P106A-13	169 83				.22 .12	NO NO		115 113		129A 129A
B 910	2		P48-CC TB8-6	169 210				.22 .20	NO NO		127 74		1A 1A
B 911	137										120 120		
B 911L			P48-FF TB2-3	169 157				.22 .20	NO NO		115 74		1J 1J
B 911R			P48-GG TB1-3	169 163				.22 .20	NO NO		115 144		274A 274A
B 911Y			P48-EE TB3-3	169 152				.22 .20	NO NO		115 144		273A 273A
B 912	1		P48-MM P121A-28	169 74				.22 .12	NO NO		115 113		1644 1644
B 913	1		P48-NN P121A-27	169 74				.22 .12	NO NO		115 113		1645 1645
B 914	2		P48-B E326-B	169 66				.22 .25	NO NO		127		2L 2L
B 915	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 915E			P49-4A P94-E1	168 127				.28 .11	NO NO		132 90,148		1626 1626

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 915X			P49-4B P94-E2	168 127									1627 1627
B 916	118				.44 .44	.28 .28					128,131,120 120, 97, 98		
B 916E			P49-1A P128C-18A	168 167C				.28 .22	NO NO		132 96		1611 1611
B 916X			P49-1B P128C-18B	168 167C									1612 1612
B 917	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 917E			P49-21A P69-D1	168 136				.28 .11	NO NO		132 90,148		1624 1624
B 917X			P49-21B P69-D2	168 136									1625 1625
B 918	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 918E			P49-22A P69-B1	168 136				.28 .11	NO NO		132 90,148		1616 1616
B 918X			P49-22B P69-B2	168 136									1617 1617
B 919	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 919E			P49-23A P67-A1	168 132				.28 .11	NO NO		132 90,148		1614 1614

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 919X			P49-23B P67-A2	168 132									1615 1615
B 920	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 920E			P49-38A P67-C1	168 132				.28 .11	NO NO		132 90,148		1622 1622
B 920X			P49-38B P67-C2	168 132									1623 1623
B 921	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 921E			P49-39A P69-C1	168 136				.28 .11	NO NO		132 90,148		1620 1620
B 921X			P49-39B P69-C2	168 136									1621 1621
B 922	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120		
B 922E			P49-40A P67-B1	168 132				.28 .11	NO NO		132 90,148		1618 1618
B 922X			P49-40B P67-B2	168 132									1619 1619
B 923	118				.44 .44	.28 .28					128,131,120 120, 97, 98		
B 923E			P49-47A P128C-19A	168 167C				.28 .22	NO NO		132 96		1658 1658

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 923X			P49-47B P128C-19B	168 167C									1659 1659
B 924	9				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,121		
B 924B	1		TB9-9 SHLD B924	96				.20 .25	NO NO		74		3A 3A
B 924L			P50-E TB9-9	114 96				.22 .20	NO NO		117 74		3B 3B
B 924R			P50-D TB9-6	114 100				.22 .20	NO NO		117 74		13 13
B 925	2		P50-A P126E-28	114 31				.22 .22	NO NO		117 138		1B 1B
B 926	118				.50 2.25	.31 2.00				A,7	120 120		
B 926E			P51-1 P65-J	140 131				.11 .22	NO NO		115		1147 1147
B 926X			P51-2 SHLD B926	140									1148 1148
B 927	118				.50 2.25	.31 2.00				A,7	120 120		
B 927E			P52-1 P65-J*	139 131				.11 .22	NO NO		115		1149 1149
B 927X			P52-2 SHLD B927	139									1150 1150

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 928	118				.50 2.25	.31 2.00				8,6B	120 120,119	
B 928B			P65-H* SHLD B928	131				.22 .25	NO NO		115	1152 1152
B 928E			P53-1 P65-H	141 131				.11 .22	NO NO		115	1151 1151
B 928X			P53-2 SHLD B928	141								1152 1152
B 929	118				.50 .44	.31 .28					120 128,131,120	
B 929E			P54-1 P62-12A	142 125				.11 .28	NO NO		132	1687 1687
B 929X			P54-2 P62-12B	142 125								1688 1688
B 930	118				.50 .44	.31 .28					120 128,131	
B 930E			P55-1 P60-3A	145 122				.11 .28	NO NO		132	1153 1153
B 930X			P55-2 P60-3B	145 122								1154 1154
B 931	118				.50 .44	.31 .28					120 120, 97, 98	
B 931E			P56-1 P128A-6A	147 171				.11 .22	NO NO		96	1155 1155

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 931X			P56-2 P128A-6B	147 171								1156 1156
B 932	118				.50 .52	.31 .23				A,9	120 131,128,120	
B 932E			P57-1 J132-1	146 121				.11 .11	NO NO		132	1157 1157
B 932X			P57-2 J132-2	146 121								1158 1158
B 933	118				.50 .52	.31 .23				A,9	120 131,128,120	
B 933E			P58-1 J133-1	144 120				.11 .11	NO NO		132	1159 1159
B 933X			P58-2 J133-2	144 120								1160 1160
B 934	9				2.25 4.00	2.00 3.75				A,7 8,6B	120 120,121	
B 934B	1		TB6-4 SHLD B934	238				.20 .25	NO NO		74	3A 3A
B 934L			P59-E TB6-4	138 238				.22 .20	NO NO		117 74	38 38
B 934R			P59-D TB6-7	138 241				.22 .20	NO NO		117 74	754 754
B 935	2		P59-A P126E-26	138 31				.22 .22	NO NO		117 138	18 18

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 936	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 936E			P60-18A P128C-10A	122 167C				.28 .22	NO NO		132 96	420A 420A
B 936X			P60-18B P128C-10B	122 167C								421B 421B
B 937	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 937E			P60-19A P128C-12A	122 167C				.28 .22	NO NO		132 96	424B 424B
B 937X			P60-19B P128C-12B	122 167C								425B 425B
B 938	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 938E			P60-16A P128C-13A	122 167C				.28 .22	NO NO		132 96	426B 426B
B 938X			P60-16B P128C-13B	122 167C								427B 427B
B 939	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 939E			P60-17A P128C-11A	122 167C				.28 .22	NO NO		132 96	422B 422B
B 939X			P60-17B P128C-11B	122 167C								423B 423B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 940	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 940E			P60-22A P127C-19A	122 166				.28 .22	NO NO		132 96	384 384
B 940X			P60-22B P127C-19B	122 166								385 385
B 941	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 941E			P60-23A P127C-21A	122 166				.28 .22	NO NO		132 96	388B 388B
B 941X			P60-23B P127C-21B	122 166								389B 389B
B 942	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 942E			P60-24A P127C-24A	122 166				.28 .22	NO NO		132 96	390A 390A
B 942X			P60-24B P127C-24B	122 166								391B 391B
B 943	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 943E			P60-25A P127C-20A	122 166				.28 .22	NO NO		132 96	386 386
B 943X			P60-25B P127C-20B	122 166								387B 387B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 944	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 944E			P60-35A P128C-8A	122 167C				.28 .22	NO NO		132 96	408 408
B 944X			P60-35B P128C-8B	122 167C								409 409
B 945	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 945E			P60-37A P128C-9A	122 167C				.28 .22	NO NO		132 96	412 412
B 945X			P60-37B P128C-9B	122 167C								413 413
B 946	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 946E			P60-11A P127C-14A	122 166				.28 .22	NO NO		132 96	263 263
B 946X			P60-11B P127C-14B	122 166								264 264
B 947	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 947E			P60-12A P127C-12A	122 166				.28 .22	NO NO		132 96	259 259
B 947X			P60-12B P127C-12B	122 166								260 260

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 155 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 948	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 948E			P60-20A P127C-17A	122 166				.28 .22	NO NO		132 96	380 380
B 948X			P60-20B P127C-17B	122 166								381 381
B 949	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 949E			P60-21A P127C-18A	122 166				.28 .22	NO NO		132 96	382 382
B 949X			P60-21B P127C-18B	122 166								383 383
B 950	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 950E			P60-7A P127C-9A	122 166				.28 .22	NO NO		132 96	253 253
B 950X			P60-7B P127C-9B	122 166								254 254
B 951	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 951E			P60-8A P127C-10A	122 166				.28 .22	NO NO		132 96	255 255
B 951X			P60-8B P127C-10B	122 166								256 256

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 156 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 952	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 952E			P60-9A P127C-11A	122 166				.28 .22	NO NO		132 96	257 257
B 952X			P60-9B P127C-11B	122 166								258 258
B 953	118				.44 .44	.28 .28					128,131,120 120, 97, 98	
B 953E			P60-10A P127C-13A	122 166				.28 .22	NO NO		132 96	261 261
B 953X			P60-10B P127C-13B	122 166								262 262
B 954	118				.44 2.25	.28 2.00				B,6B	128,131,120 119,120	
B 954B	1		P65-B* SHLD B954	131				.22 .25	NO NO		115	1198 1198
B 954E			P60-41A P65-B	122 131				.28 .22	NO NO		132 115	1190 1190
B 954X			P60-41B SHLD B954	122								1198 1198
B 955	7				2.25 2.25	2.00 2.00				A,7 B,6A	120,128,131 120,119	
B 955B	1		E323-B SHLD B955	128				.25 .25	NO NO			1 1

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 157 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 955L			P60-2B P65-U*	122 131			.32	.22 .22	NO NO		 115	1165 1165
B 955R			P60-2A P65-U	122 131				.19 .22	NO NO		132,100,101 115	1164 1164
B 956	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 956B	1		E323-B SHLD B956	128				.25 .25	NO NO			1 1
B 956L			P60-14 P65-R*	122 131				.19 .22	NO NO		134 115	1203 1203
B 956R			P60-13 P65-R	122 131				.19 .22	NO NO		134 115	1195 1195
B 957	7				2.25 2.25	2.00 2.00				A,7 B,6A	120 120,119	
B 957B	1		E323-B SHLD B957	128				.25 .25	NO NO			1 1
B 957L			P60-28 P65-S*	122 131				.19 .22	NO NO		134 115	1204 1204
B 957R			P60-27 P65-S	122 131				.19 .22	NO NO		134 115	1196 1196
B 958	7				2.25 2.25	2.00 2.00				A,7 B,6A	120,128,131 119,120	
B 958B	1		E323-B SHLD B958	128				.25 .25	NO NO			1 1

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 158 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 958L			P60-40B	122			.32	.22	NO			1205
			P65-T*	131				.22	NO		115	1205
B 958R			P60-40A	122				.19	NO		132,100,101	1197
			P65-T	131				.22	NO		115	1197
B 959	1		P60-29	122				.19	NO		134	1345A
			P115A-1	78				.12	NO		113	1345A
B 960	1		P60-30	122				.19	NO		134	1343A
			P114A-19	38				.12	NO		113	1343A
B 961	1		P60-31	122				.19	NO		134	1366A
			P121A-10	74				.12	NO		113	1366A
B 962	118				.44	.28					128,131,120	
					.44	.28					120, 97, 98	
B 962E			P60-26A	122				.28	NO		132	1559A
			P128C-16A	167C				.22	NO		96	1559A
B 962X			P60-26B	122								1560B
			P128C-16B	167C								1560B
B 963	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 963B	1		E332-B	73				.25	NO			1H
			SHLD B963					.25	NO			1H
B 963L			P60-45	122				.19	NO		134	1364A
			P121A-8	74				.12	NO		113	1364A
B 963R			P60-44	122				.19	NO		134	1363A
			P121A-7	74				.12	NO		113	1363A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 964	1		P60-47	122				.19	NO		134	1346A
			P115A-2	78				.12	NO		113	1346A
B 965	1		P60-48	122				.19	NO		134	1344A
			P114A-20	38				.12	NO		113	1344A
B 966	118				.44	.28					128,131,120	
					.44	.28					120, 97, 98	
B 966E			P60-36A	122				.28	NO		132	1581A
			P128C-17A	167C				.22	NO		96	1581A
B 966X			P60-36B	122								1582B
			P128C-17B	167C								1582B
B 967	118				.44	.28					128,131,120	
					.52	.23				A,9	128,131,120	
B 967E			P60-42A	122				.28	NO		132	1561
			J134-1	119				.11	NO		132	1561
B 967X			P60-42B	122								1562
			J134-2	119								1562
B 968	118				.44	.28					128,131,120	
					.44	.28					120, 97, 98	
B 968E			P60-43A	122				.28	NO		132	1155
			P128C-20A	167C				.22	NO		96	1155
B 968X			P60-43B	122								1156
			P128C-20B	167C								1156
B 969	1		P60-15	122				.19	NO		134	1365A
			P121A-9	74				.12	NO		113	1365A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 970	118				.44	.28					120, 97, 98		
					.44	.28					128,131,120		
B 970E			P128A-7A	171				.22	NO		96		325A
			P60-39A	122				.28	NO		132		325A
B 970X			P128A-7B	171									326B
			P60-39B	122									326B
B 971	2		P61-4	123				.19	NO		136		1A
			TB8-4	212				.20	NO		74		1A
B 972	1		P61-12	123				.19	NO		134		1414
			P122A-22	52				.12	NO		113		1414
B 973	1		P61-13	123				.19	NO		134		1413
			P122A-21	52				.12	NO		113		1413
B 974	3		P61-14	123				.19	NO		134		538A
			TB7-4	222				.20	NO		74		538A
B 975	1		P61-25	123				.19	NO		134		1408
			P122A-16	52				.12	NO		113		1408
B 976	1		P61-26	123				.19	NO		134		1407
			P122A-15	52				.12	NO		113		1407
B 977	1		P61-27	123				.19	NO		134		1412
			P122A-20	52				.12	NO		113		1412
B 978	1		P61-28	123				.19	NO		134		1411
			P122A-19	52				.12	NO		113		1411
B 979	1		P61-29	123				.19	NO		134		1403
			P122A-11	52				.12	NO		113		1403

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 980	1		P61-30	123				.19	NO		134		1404
			P122A-12	52				.12	NO		113		1404
B 981	1		P61-31	123				.19	NO		134		1405
			P122A-13	52				.12	NO		113		1405
B 982	1		P61-32	123				.19	NO		134		1406
			P122A-14	52				.12	NO		113		1406
B 983	2		P61-43	123				.19	NO		136		1B
			P126F-22	30				.22	NO		138		1B
B 984	1		P61-45	123				.19	NO		134		1410
			P122A-18	52				.12	NO		113		1410
B 985	1		P61-46	123				.19	NO		134		1409
			P122A-17	52				.12	NO		113		1409
B 986	137										120		
											120		
B 986L			P61-48	123				.19	NO		134		1J
			TB2-1	155				.20	NO		74		1J
B 986R			P61-47	123				.19	NO		134		274A
			TB1-1	161				.20	NO		144		274A
B 986Y			P61-49	123				.19	NO		134		273A
			TB3-1	150				.20	NO		144		273A
B 987	1		P61-50	123				.19	NO		134		1580
			P121A-29	74				.12	NO		113		1580
B 988	7				2.25	2.00				A,7	120		
					4.00	3.75				B,6B	120,119		

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 988B	1		P115A-31 SHLD B988	78				.12 .25	NO NO		113	1H 1H
B 988L			P62-18 P115A-10	125 78				.19 .12	NO NO		134 113	809B 809B
B 988R			P62-19 P115A-9	125 78				.19 .12	NO NO		134 113	808B 808B
B 989	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120	
B 989E			P62-10A P93-H1	125 130				.28 .11	NO NO		132 90,148	1382 1382
B 989X			P62-10B P93-H2	125 130								1383 1383
B 990	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120	
B 990E			P62-9A P70-G1	125 133				.28 .11	NO NO		132 90,148	1210 1210
B 990X			P62-9B P70-G2	125 133								1209B 1209B
B 991	118				.44 .52	.28 .23				A,10	128,131,120 92, 94,120	
B 991E			P62-8A P68-F1	125 129				.28 .11	NO NO		132 90,148	1208 1208
B 991X			P62-8B P68-F2	125 129								1209A 1209A

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B	SHEET 163 OF 209	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 992	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 992B	1		E328-8 SHLD B992	175				.25 .25	NO NO			1H 1H
B 992L			P62-50 P129D-20	125 174D				.19 .12	NO NO		134 113	969A 969A
B 992R			P62-33 P129D-19	125 174D				.19 .12	NO NO		134 113	968A 968A
B 993	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 993B	1		E328-8 SHLD B993	175				.25 .25	NO NO			1H 1H
B 993L			P62-32 P129D-14	125 174D				.19 .12	NO NO		134 113	912A 912A
B 993R			P62-16 P129D-13	125 174D				.19 .12	NO NO		134 113	911A 911A
B 995	7				2.25 4.00	2.00 3.75				B,6A B,6A	120,119 120,119	
B 995A	1		SHLD B995 P62-3	125				.25 .19	NO NO		134	304B 304B
B 995B	1		P119A-31 SHLD B995	54				.12 .25	NO NO		138	1H 1H
B 995L			P62-2 P119A-28	125 54				.19 .12	NO NO		134 113	304A 304A

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B	SHEET 164 OF 209	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 995R			P62-1 P119A-27	125 54				.19 .12	NO NO		134 113	303A 303A
B 996	7				2.25 4.00	2.00 3.75				B,6B B,6B	120,119 120,119	
B 996A	1		SHLD B996 P62-6	125				.25 .19	NO NO		134	292A 292A
B 996B	1		P119A-31 SHLD B996	54				.12 .25	NO NO			1H 1H
B 996L			P62-5 P119A-30	125 54				.19 .12	NO NO		134 113	292C 292C
B 996R			P62-4 P119A-29	125 54				.19 .12	NO NO		134 113	291A 291A
B 998	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 998B	1		P100A-31 SHLD B998	88				.12 .25	NO NO		113	1H 1H
B 998L			P62-14 P100A-20	125 88				.19 .12	NO NO		134 113	823A 823A
B 998R			P62-13 P100A-19	125 88				.19 .12	NO NO		134 113	822B 822B
B 999	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 999B	1		E331-8 SHLD B999	69				.25 .25	NO NO			1H 1H

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B	SHEET 165 OF 209	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 999L			P62-23 P104A-20	125 70				.19 .12	NO NO		134 113	849B 849B
B 999R			P62-22 P104A-19	125 70				.19 .12	NO NO		134 113	848B 848B
B 1000	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1000B	1		E331-8 SHLD B1000	69				.25 .25	NO NO			1H 1H
B 1000L			P62-25 P104A-2	125 70				.19 .12	NO NO		134 113	847B 847B
B 1000R			P62-24 P104A-1	125 70				.19 .12	NO NO		134 113	846B 846B
B 1001	1		P62-26 P116D-24	125 55				.19 .12	NO NO		134 113	1200A 1200A
B 1002	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	
B 1002B	1		P101A-31 SHLD B1002	71				.12 .25	NO NO			1H 1H
B 1002L			P62-28 P101A-2	125 71				.19 .12	NO NO		134 113	825B 825B
B 1002R			P62-27 P101A-1	125 71				.19 .12	NO NO		134 113	824A 824A
B 1003	7				2.25 4.00	2.00 3.75				A,7 B,6B	120 120,119	

SIZE	CODE IDENT NO.			
A	99974	2901465		
SCALE-NONE	REV LTR	B	SHEET 166 OF 209	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1003B	1		P122A-32	52				.12	NO		113	2
			SHLD B1003					.25	NO			2
B 1003L			P62-47	125				.19	NO		134	1631
			P122A-4	52				.12	NO		113	1631
B 1003R			P62-29	125				.19	NO		134	1630
			P122A-3	52				.12	NO		113	1630
B 1004	1		P62-30	125				.19	NO		134	1191
			P116D-21	55				.12	NO		113	1191
B 1005	7				2.25	2.00				B,6A	120,119	
					2.25	2.00				A,7	120,128,131	
B 1005A	1		SHLD B1005					.25	NO			1
			E333-B	124				.25	NO			1
B 1005L			P62-52	125				.19	NO		134	1588
			J135-2	118			.32	.22	NO			1588
B 1005R			P62-35	125				.19	NO		134	1587
			J135-1	118				.22	NO		132,100,101	1587
B 1006	1		P62-41	125				.19	NO		134	966
			P116D-27	55				.12	NO		113	966
B 1007	1		P62-42	125				.19	NO		134	967
			P116D-28	55				.12	NO		113	967
B 1008	1		P62-43	125				.19	NO		134	1192
			P116D-23	55				.12	NO		113	1192
B 1009	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1009B	1		E332-B	73				.25	NO			1
			SHLD B1009					.25	NO			1
B 1009L			P62-45	125				.19	NO		134	1370
			P121A-16	74				.12	NO		113	1370
B 1009R			P62-44	125				.19	NO		134	1369
			P121A-15	74				.12	NO		113	1369
B 1010	1		P62-48	125				.19	NO		134	1199
			P116D-22	55				.12	NO		113	1199
B 1011	7				2.25	2.00				A,7	120	
					4.00	3.75				B,6A	120,119	
B 1011B	1		E337-B	82				.25	NO			2
			SHLD B1011					.25	NO			2
B 1011L			P92-BB	183				.22	NO		115	170
			P106D-8	80				.12	NO		113	170
B 1011R			P92-AA	183				.22	NO		115	169
			P106D-7	80				.12	NO		113	169
B 1012	2		P63-A	137				.22	NO		127	1
			P126E-24	31				.22	NO		138	1
B 1013	1		P63-C	137				.22	NO		115	1167
			P71-B	93				.22	NO		115	1167
B 1014	1		P63-V*	137				.22	NO		115	1189
			P71-C	93				.22	NO		115	1189
B 1015	1		P63-U*	137				.22	NO		115	1188
			P71-E	93				.22	NO		115	1188

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1016	1		P63-T*	137				.22	NO		115	1187
			P71-F	93				.22	NO		115	1187
B 1017	1		P63-S*	137				.22	NO		115	1186
			P71-G	93				.22	NO		115	1186
B 1018	1		P63-R*	137				.22	NO		115	1185
			P71-P	93				.22	NO		115	1185
B 1019	1		P63-Q*	137				.22	NO		115	1184
			P71-R	93				.22	NO		115	1184
B 1020	1		P63-P*	137				.22	NO		115	1183
			P71-S	93				.22	NO		115	1183
B 1021	1		P63-N*	137				.22	NO		115	1182
			P71-T	93				.22	NO		115	1182
B 1022	1		P63-M*	137				.22	NO		115	1181
			P71-U	93				.22	NO		115	1181
B 1023	1		P63-K*	137				.22	NO		115	1180
			P71-V	93				.22	NO		115	1180
B 1024	1		P63-J*	137				.22	NO		115	1179
			P71-W	93				.22	NO		115	1179
B 1025	1		P63-D	137				.22	NO		115	1168
			P71-Y	93				.22	NO		115	1168
B 1026	1		P63-B	137				.22	NO		115	1166
			P71-Z	93				.22	NO		115	1166
B 1027	1		P63-E	137				.22	NO		115	1169
			P71-A*	93				.22	NO		115	1169

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1028	1		P63-F	137				.22	NO		115		1170
			P71-B*	93				.22	NO		115		1170
B 1029	1		P63-G	137				.22	NO		115		1171
			P71-G*	93				.22	NO		115		1171
B 1030	1		P63-H	137				.22	NO		115		1172
			P71-H*	93				.22	NO		115		1172
B 1031	1		P63-J	137				.22	NO		115		1173
			P71-I*	93				.22	NO		115		1173
B 1032	1		P63-K	137				.22	NO		115		1174
			P71-J*	93				.22	NO		115		1174
B 1033	1		P63-L	137				.22	NO		115		1175
			P71-K*	93				.22	NO		115		1175
B 1034	1		P63-M	137				.22	NO		115		1176
			P71-M*	93				.22	NO		115		1176
B 1035	1		P63-N	137				.22	NO		115		1177
			P71-N*	93				.22	NO		115		1177
B 1036	1		P63-P	137				.22	NO		115		1178
			P71-R*	93				.22	NO		115		1178
B 1037	2		P64-S	134				.22	NO		127		538
			TB7-3	223				.20	NO		74		538
B 1038	2		P64-T	134				.22	NO		127		1
			TB8-2	214				.20	NO		74		1
B 1039	1		P64-FF	134				.22	NO		115		404
			P115A-22	78				.12	NO		113		404

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1057A			SHLD B1057 P65-NN	 131				.25 .22	NO NO		 115	395 395
B 1057E			P65-MM P128C-1A	131 167C				.22 .22	NO NO		115 96	394 394
B 1057X			SHLD B1057 P128C-1B	 167C								395 395
B 1058	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	
B 1058B	1		P100A-10 SHLD B1058	88				.12 .25	NO NO		113	185A 185A
B 1058E			P66-B1 P100A-9	135 88				.11 .12	NO NO		90,148 113	184 184
B 1058X			P66-B2 SHLD B1058	135								185 185
B 1059	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	
B 1059B	1		P100A-16 SHLD B1059	88				.12 .25	NO NO			181A 181A
B 1059E			P66-D1 P100A-15	135 88				.11 .12	NO NO		90,148 138	180 180
B 1059X			P66-D2 SHLD B1059	135								181 181
B 1060	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1060B	1		P104A-10 SHLD B1060	70				.12 .25	NO NO		113	189A 189A
B 1060E			P66-A1 P104A-9	135 70				.11 .12	NO NO		90,148 113	188 188
B 1060X			P66-A2 SHLD B1060	135								189 189
B 1061	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	
B 1061B	1		P104A-22 SHLD B1061	70				.12 .25	NO NO		113	179 179
B 1061E			P66-E1 P104A-21	135 70				.11 .12	NO NO		90,148 113	178 178
B 1061X			P66-E2 SHLD B1061	135								179A 179A
B 1062	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	
B 1062B	1		P104A-24 SHLD B1062	70				.12 .25			113	187A 187A
B 1062E			P66-C1 P104A-23	135 70				.11 .12	NO NO		90,148 113	186 186
B 1062X			P66-C2 SHLD B1062	135								187 187
B 1063	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1063B	1		P110A-6 SHLD B1063	63				.12 .25	NO NO		113	92A 92A
B 1063E			P66-G1 P110A-5	135 63				.11 .12	NO NO		90,148 113	91 91
B 1063X			P66-G2 SHLD B1063	135								92 92
B 1064	118				.52 4.00	.23 3.75				A,10 B,68	92, 94,120 119,124,120	
B 1064B	1		P111A-12 SHLD B1064	42				.12 .25	NO NO		113	266A 266A
B 1064E			P66-F1 P111A-11	135 42				.11 .12	NO NO		90,148 113	265A 265A
B 1064X			P66-F2 SHLD B1064	135								266 266
B 1065	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1065E			P67-G1 P127C-1A	132 166				.11 .22	NO NO		90,148 96	225 225
B 1065X			P67-G2 P127C-1B	132 166								226 226
B 1066	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1066E			P67-H1 P127C-3A	132 166				.11 .22	NO NO		90,148 96	229 229

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1066X			P67-H2 P127C-3B	132 166								230 230
B 1067	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1067E			P67-J1 P127C-5A	132 166				.11 .22	NO NO		90,148 96	233A 233A
B 1067X			P67-J2 P127C-5B	132 166								234 234
B 1068	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1068E			P68-D1 P128B-7A	129 167B				.11 .22	NO NO		90,148 96	325 325
B 1068X			P68-D2 P128B-7B	129 167B								326A 326A
B 1069	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1069E			P69-H1 P127C-2A	136 166				.11 .22	NO NO		90,148 96	227 227
B 1069X			P69-H2 P127C-2B	136 166								228A 228A
B 1070	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98	
B 1070E			P69-J1 P127C-4A	136 166				.11 .22	NO NO		90,148 96	231 231

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1089	2		P92-M* TB8-1	183 215				.22 .20	NO NO		127 74	1 1
B 1090	1		P92-M P99-E	183 186				.22 .22	NO NO		115 115	703 703
B 1091	1		P92-L P129D-12	183 174D				.22 .12	NO NO		115 113	723 723
B 1092	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1092B	1		E300-B SHLD B1092	43				.25 .25	NO NO			2 2
B 1092L			P92-DD P108D-30	183 45				.22 .12	NO NO		115 113	168 168
B 1092R			P92-CC P108D-29	183 45				.22 .12	NO NO		115 113	167 167
B 1093	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1093B	1		F300-B SHLD B1093	43				.25 .25	NO NO			2 2
B 1093L			P92-FF P108D-26	183 45				.22 .12	NO NO		115 113	164 164
B 1093R			P92-EE P108D-25	183 45				.22 .12	NO NO		115 113	163 163
B 1094	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 183 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1094B	1		E300-B SHLD B1094	43				.25 .25	NO NO			2 2
B 1094L			P92-HH P108A-20	183 46				.22 .12	NO NO		115 113	162 162
B 1094R			P92-GG P108A-19	183 46				.22 .12	NO NO		115 113	161 161
B 1095	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1095B	1		E300-B SHLD B1095	43				.25 .25	NO NO			2 2
B 1095L			P92-KK P108A-14	183 46				.22 .12	NO NO		115 113	158 158
B 1095R			P92-JJ P108A-13	183 46				.22 .12	NO NO		115 113	157 157
B 1096	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 120,119	
B 1096B	1		E300-B SHLD B1096	43				.25 .25	NO NO			2 2
B 1096L			P92-MM P108A-8	183 46				.22 .12	NO NO		115 113	156 156
B 1096R			P92-LL P108A-7	183 46				.22 .12	NO NO		115 113	155 155
B 1097	118				.52 4.00	.23 3.75				A,10 B,6B	92, 94,120 119,120	

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 184 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1097B			P103A-10 SHLD B1097	85				.12 .25	NO NO		113		1270 1270
B 1097E			P93-C1 P103A-9	130 85				.11 .12	NO NO		90,148 113		1269 1269
B 1097X			P93-C2 SHLD B1097	130									1270 1270
B 1098	118				.52 4.00	.23 3.75				A,10 B,6B	92, 94,120 119,120		
B 1098B			P103A-12 SHLD B1098	85				.12 .25	NO NO		113		1272 1272
B 1098E			P93-D1 P103A-11	130 85				.11 .12	NO NO		90,148 113		1271 1271
B 1098X			P93-D2 SHLD B1098	130									1272 1272
B 1099	118				.52 4.00	.23 3.75				A,10 B,6B	92, 94,120 119,120		
B 1099B			P103A-6 SHLD B1099	85				.12 .25	NO NO		113		290 290
B 1099E			P93-E1 P103A-5	130 85				.11 .12	NO NO		90,148 113		289 289
B 1099X			P93-E2 SHLD B1099	130									290 290
B 1100	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98		

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 185 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1100E			P94-A1 P128C-4A	127 167C				.11 .22	NO NO		90,148 96		400 400
B 1100X			P94-A2 P128C-4B	127 167C									401 401
B 1101	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98		
B 1101E			P94-B1 P128C-5A	127 167C				.11 .22	NO NO		90,148 96		402 402
B 1101X			P94-B2 P128C-5B	127 167C									401 401
B 1102	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98		
B 1102E			P94-C1 P128C-2A	127 167C				.11 .22	NO NO		90,148 96		396 396
B 1102X			P94-C2 P128C-2B	127 167C									397 397
B 1103	118				.52 .44	.23 .28				A,10	92, 94,120 120, 97, 98		
B 1103E			P94-D1 P128C-3A	127 167C				.11 .22	NO NO		90,148 96		398 398
B 1103X			P94-D2 P128C-3B	127 167C									397 397
B 1106	2		P95-A P126E-22	89 31				.22 .22	NO NO		117 138		1 1

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 186 OF 209

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WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1190	3		E304-BB	62				.25	NO			2U
			P107D-32	64				.12	NO		113	2U
B 1191	3		E305-BB	61				.25	NO			1H
			P107D-31	64				.12	NO		113	1H
B 1192	3		E306-BB	57				.25	NO			2U
			P116A-32	58				.12	NO		113	2U
B 1193	3		E307-BB	13				.25	NO			2U
			E302-B	40				.25	NO			2U
B 1194	3		E308-BB	86				.25	NO			2U
			P100D-32	87				.12	NO		113	2U
B 1195	3		E309-BB	9				.25	NO			2U
			E308-B	86				.25	NO			2U
B 1196	3		E310-BB	19				.25	NO			2U
			E304-B	62				.25	NO			2U
B 1197	3		E311-BB	11				.25	NO			1H
			E312-B	178				.25	NO			1H
B 1198	3		E312-BB	178				.25	NO			1H
			P129A-31	174A				.12	NO		113	1H
B 1199	3		E313-BB	195A				.25	NO			1H
			E328-B	175				.25	NO			1H
B 1201	3		E315-BB	172				.25	NO			1H
			E316-B	34				.25	NO			1H
B 1202	3		E316-BB	34				.25	NO			1H
			P117D-31	35				.12	NO		113	1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 191 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1204	3		E321-BB	204				.25	NO			2U
			P117A-32	36				.12	NO			2U
B 1205	3		E322-BB	177				.25	NO			1H
			P129B-31	174B				.12	NO		113	1H
B 1206	3		E323-BB	128				.25	NO			1H
			E327-B	81				.25	NO			1H
B 1207	3		E324-BB	180				.25	NO			1H
			E328-B	175				.25	NO			1H
B 1208	3		E325-BB	67				.25	NO			1H
			P107A-31	65				.12	NO		113	1H
B 1209	3		E326-BB	66				.25	NO			2U
			P107A-32	65				.12	NO		113	2U
B 1210	3		E327-BB	81				.25	NO			1H
			P106A-31	83				.12	NO		113	1H
B 1211	3		E328-BB	175				.25	NO			1H
			P129D-31	174D				.12	NO		113	1H
B 1212	3		E329-BB	44				.25	NO			2U
			P108A-32	46				.12	NO		113	2U
B 1213	3		E330-BB	76				.25	NO			1H
			P118A-31	75				.12	NO		113	1H
B 1214	3		E331-BB	69				.25	NO			1H
			P104A-31	70				.12	NO		113	1H
B 1215	3		E332-BB	73				.25	NO			1H
			P121A-31	74				.12	NO		113	1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 192 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1216	3		E333-BB	124				.25	NO			1H
			P101A-31	71				.12	NO		138	1H
B 1217	3		E334-BB	56				.25	NO			1H
			P116A-31	58				.12	NO		113	1H
B 1218	3		E335-BB	22				.25	NO			1H
			E322-B	177				.25	NO			1H
B 1219	3		E336-BB	59				.25	NO			2U
			P110D-32	60				.12	NO		113	2U
B 1220	3		E337-BB	82				.25	NO			2U
			P106A-32	83				.12	NO		113	2U
B 1221	118				.44	.28					120, 97, 98	
					.44	.28					120, 97, 98	
B 1221E			P128B-6A	167B				.22	NO		96	1155
			P128B-20A	167B				.22	NO		96	1155
B 1221X			P128B-6B	167B								1156
			P128B-20B	167B								1156
B 1225	2		P71-A	93				.22	NO		127	1E
			P126E-25	31				.22	NO		138	1E
B 1226	2		E338-BB	8				.25	NO			1H
			J19-V	7				.22	NO		116	1H
B 1229	9				2.25	2.00				B,6A	120,121	
					2.25	2.00				A,7	120	
B 1229A	3		SHLD B1229					.25	NO			1H
			E338-B	8				.25	NO			1H

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 193 OF 209

MIL 2084 9-65

WIRING HARNESS B 2901465 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
B 1229L			J19-N	7				.22	NO		126	1820
			P11-LL	250				.22	NO		126	1820
B 1229R			J19-L	7				.22	NO		126	1819
			P11-P*	250				.22	NO		126	1819
B 1230	1		J16-AA	20				.22	NO		114	13138
			P113A-29	59A				.12	NO		113	13138
B 1231	3		E300-BB	43				.25	NO			2U
			P108A-32	46				.12	NO		113	2U
B 1232	2		P71-S*	93				.22	NO		127	1A
			TB8-3	213				.25	NO		74	1A
B 1233	118				.38	.19					120,128,131	
					.44	.28					120, 97, 98	
B 1233E			J136-1	29A				.19	NO		132	3258
			P128C-7A	167C				.22	NO		96	3258
B 1233X			J136-2	29A								326A
			P128C-7B	167C								326A
B 1235	3		J21-W*	2				.22	NO		114	1838
			P27-KK	185				.22	NO		115	1838
B 1236	1		J25-A*	6				.22	NO		115	1839
			P27-FF	185				.22	NO		115	1839
B 1237			J25-B*	6				.22	NO		115	1840
			P36-B	181				.22	NO		115	1840
B 1238	1		J25-C*	6				.22	NO		115	1841
			P36-C	181				.22	NO		115	1841

SIZE	CODE IDENT NO.	
A	99974	2901465
SCALE-NONE	REV LTR B	SHEET 194 OF 209

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS F T	NET. NO.
B 1277	1		J26-R* P24-E*	3 196				.22 .22	NO NO		115 115		731 731
B 1278	1		J26-V* P24-F*	3 196				.22 .22	NO NO		115 115		735 735
B 1279	1		P26-S* P130D-5	194 179				.22 .12	NO NO		115 113		1029 1029
B 1280	1		J30-15 P25-E*	90 195				.19 .22	NO NO		133 115		1848 1848
B 1281	1		J30-16 P129B-4	90 174				.19 .12	NO NO		133 113		550 550
B 1282	1		J30-17 P25-A*	90 195				.19 .22	NO NO		133 115		1849 1849
B 1283	1		P37-A* P129E-4	251 23				.22 .12	NO NO		115 113		550 550
B 1284	7				2.25 4.00	2.00 3.75				A,7 B,6A	120 119,120		
B 1284B	1		E308-B SHLD B1284	86				.25 .25	NO NO				2 2
B 1284L			J30-9 P100D-10	90 87				.19 .12	NO NO		133 113		185A 185A
B 1284R			J30-8 P100D-9	90 87				.19 .12	NO NO		133 113		184A 184A
B 1285	1		J30-13 P130A-3	90 179				.19 .12	NO NO		133		924 924

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS	
B 1286	1		J30-14 TB9-1	90 103				.19 .20	NO NO		133 74		538A 538A
B 1287	3		J17-H* P25-I*	15 195				.22 .22	NO NO		114 115		1850 1850
B 1288	1		P14-B P14-K*	197 197				.22 .22	NO NO				401C 401C
B 1289	1		P14-Q* P14-N*	197 197				.22 .22	NO NO				397C 397C
B 1290	1		P15-B P15-M	198 198				.22 .22	NO NO				234C 234C
B 1291	1		P15-T P15-P	198 198				.22 .22	NO NO				226C 226C
B 1292	1		P15-D P15-H	198 198				.22 .22	NO NO				230C 230C
B 1293	1		P96-U P130F-3	182 22F				.22 .12	NO NO		115 113		1028 1028
B 1294	1		J22A P11U	18 250				.22 .22	NO NO		114 114		579 579

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS

MIL 2084 9-65

TABLE I

PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.
P1	A2J1	P28	A10J1	P55	A19J5	P96	A13J4	P110D	J110D
P2	A2J3	P29	A10J2	P56	A19J6	P97	A18J6	P111A	J111A
P3	A3J1	P30	A10J3	P57	A19J7	P98	A12J2	P111D	J111D
P4	A3J3	P31	A11J1	P58	A19J8	P99	A12J3	P113A	J113A
P5	A4J1	P32	A11J2	P59	A19J10	P100A	J100A	P114A	J114A
P7	A4J3	P33	A11J3	P60	A20J49	P100D	J100D	P114D	J114D
P8	A4J4	P34	A12J1	P61	A20J50	P101A	J101A	P115A	J115A
P11	A14J2	P35	A13J1	P62	A20J51	P102A	J102A	P115D	J115D
P12	A21J19	P36	A13J2	P63	A21J1	P102D	J102D	P116A	J116A
P13	A19J9	P37	A14J1	P64	A21J2	P103A	J103A	P116D	J116D
P14	A5J1	P38	A15J1	P65	A21J3	P103D	J103D	P117A	J117A
P15	A5J2	P39	A15J2	P66	A21J4	P104A	J104A	P117D	J117D
P16	A5J3	P40	A15J3	P67	A21J5	P104D	J104D	P118A	J118A
P17	A5J4	P41	A15J4	P68	A21J6	P105A	J105A	P119A	J119A
P19	A6J2	P46	A18J1	P69	A21J7	P105D	J105D	P119D	J119D
P20	A7J1	P47	A18J2	P70	A21J3	P106A	J106A	P120D	J120D
P21	A7J2	P48	A32J1	P71	A22J1	P106D	J106D	P121A	J121A
P22	A7J3	P49	A32J2	P90	A30J4	P107A	J107A	P121D	J121D
P23	A8J1	P50	A18J5	P91	A31J1	P107D	J107D	P122A	J122A
P24	A9J1	P51	A19J1	P92	A13J3	P108A	J108A	P122D	J122D
P25	A9J2	P52	A19J2	P93	A21J9	P108D	J108D	P123A	J123A
P26	A9J3	P53	A19J3	P94	A21J10	P109D	J109D	P126E	J126E
P27	A12J4	P54	A19J4	P95	A23J1	P110A	J110A	P126F	J126F

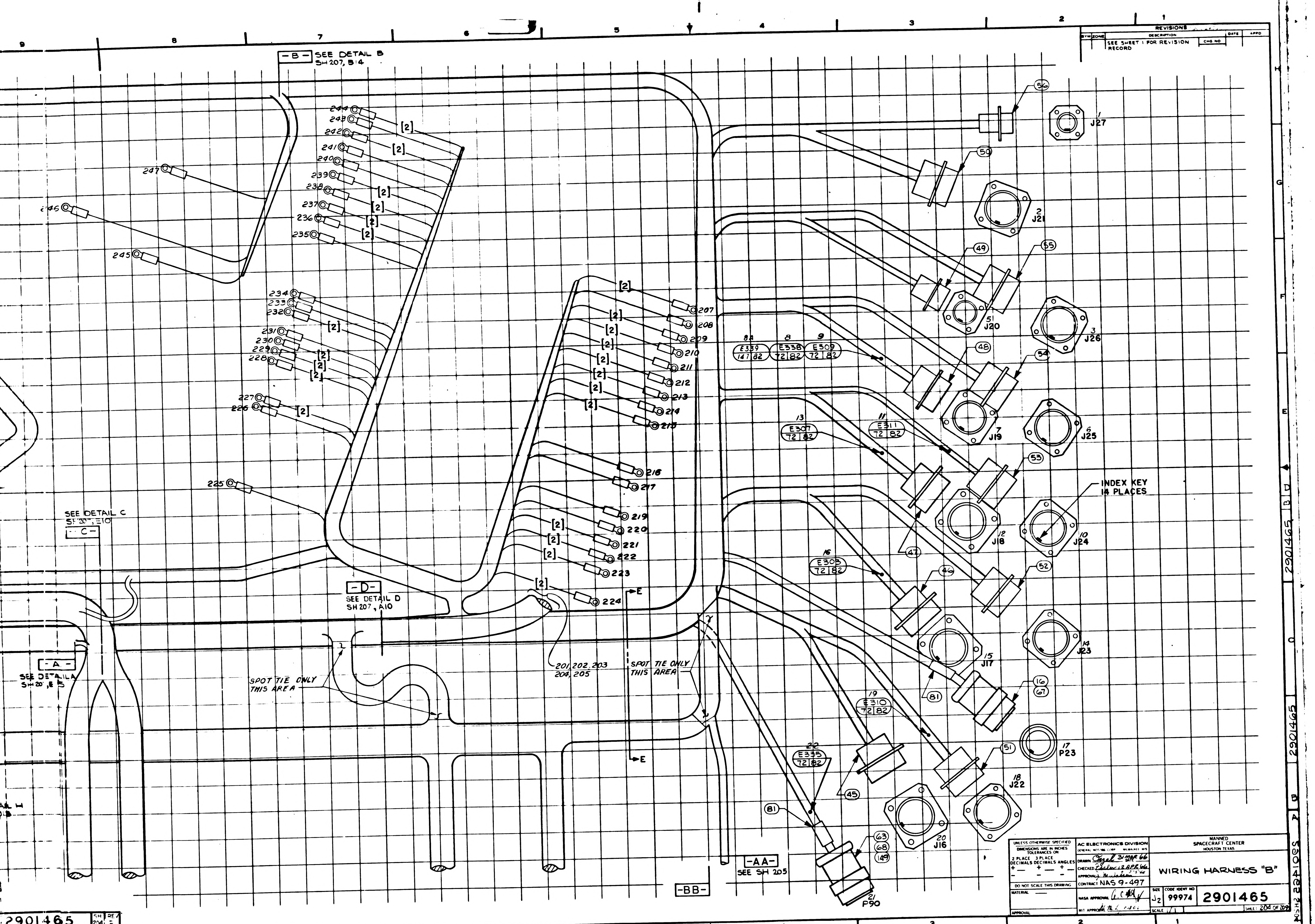
MIL 2084 8-65

TABLE I (CONTINUED)

PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.	PLUG DESIG.	MATING DESIG.
P129A	J129A								
P129B	J129B								
P129D	J129D								
P129E	J129E								
P129F	J129F								
P130A	J130A								
P130B	J130B								
P130C	J130C								
P130D	J130D								
P130E	J130E								
P130F	J130F								
P131	J131								
J132	P132								
J133	P133								
J134	P134								
J135	P135								
J136	P136								

SIZE	CODE IDENT. NO.	
A	99974	2901465
SCALE NONE	REV LTR B	SHEET 203 OF 209

MIL 2084 8-65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SEE DETAIL C SH 207, E10
-C-
-D- SEE DETAIL D SH 207, A10
-A- SEE DETAIL A SH 207, E5
SPOT TIE ONLY THIS AREA
201, 202, 203 204, 205
SPOT TIE ONLY THIS AREA
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-AA- SEE SH 205
-BB-
56
J27
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2 J21
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51 J20
3 J26
8A E339 147 82
8 E338 72 82
9 E309 72 82
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13 E307 72 82
11 E311 72 82
7 J19
6 J25
53
INDEX KEY 14 PLACES
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12 J18
10 J24
16 E308 72 82
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52
15 J17
14 J23
81
16
67
19 E310 72 82
17 P23
22 E335 72 82
45
51
18 J22
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68
149
21 P90
20 J16

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISION RECORD			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Ozzel 31 MAR 66 DATE
CHECKED Feslw 12 APR 66
APPROVAL J. M. Watson 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

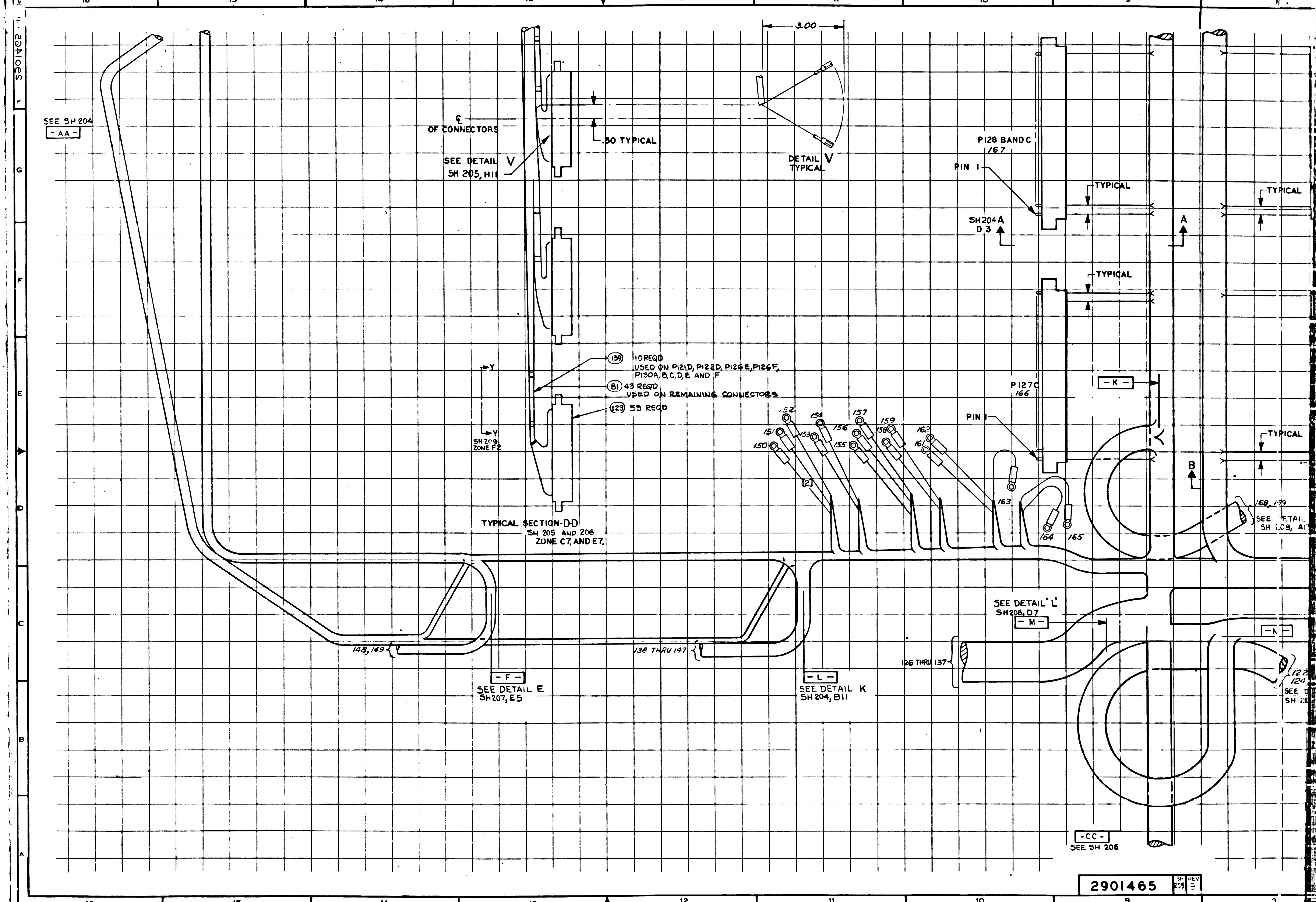
MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS "B"

SIZE J2 CODE IDENT NO 99974 2901465
SCALE 1/1 SHEET 204 OF 209

2901465 SH 204 REV E

2722901465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SEE DETAIL V
SH 205, H11
DETAIL V
TYPICAL
P128 B AND C
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PIN 1
TYPICAL
SH 204 A
D 3
A
TYPICAL
(139) 10 REQD
USED ON P121D, P122D, P126E, P126F,
P130A, B, C, D, E AND F
(81) 43 REQD
USED ON REMAINING CONNECTORS
(123) 55 REQD
Y
Y
SH 209
ZONE F2
-K-
P127C
166
PIN 1
TYPICAL
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152
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164
165
168, 169
SEE DETAIL
SH 208, A1
TYPICAL SECTION-D-D
SH 205 AND 206
ZONE C7, AND E7.
SEE DETAIL 'L'
SH 208, D7
-M-
-N-
148, 149
138 THRU 147
126 THRU 137
-F-
SEE DETAIL E
SH 207, E5
-L-
SEE DETAIL K
SH 204, B11
122
124
SEE
SH 20
-CC-
SEE SH 206
G
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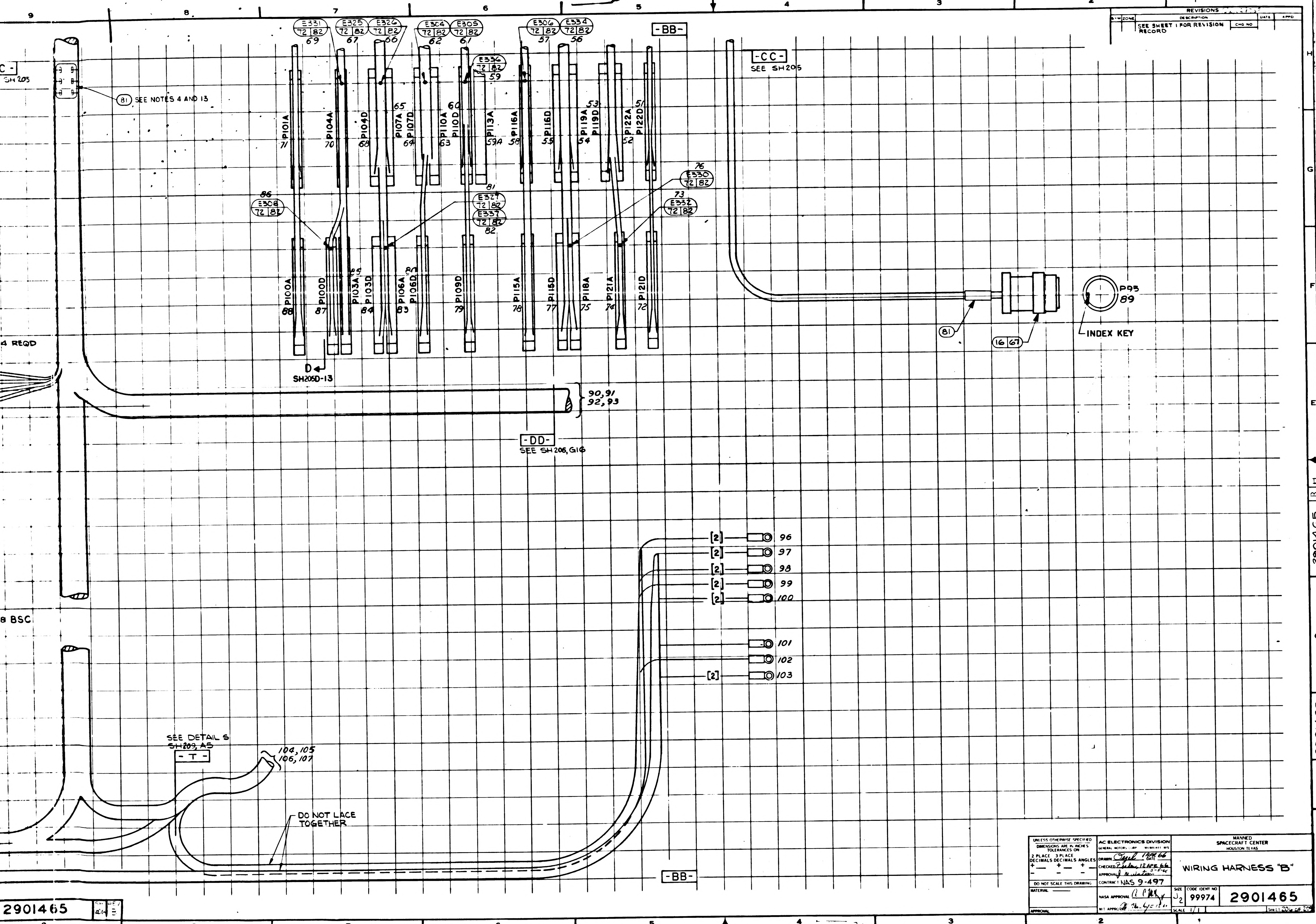
E
D
C
B
A

2901465 SH 205 REV B

17 2901465


REVISIONS
SEE SHEET 1 FOR REVISION RECORD
E331 72 82 69
E325 72 82 67
E326 72 82 66
E304 72 82 62
E305 72 82 61
E306 72 82 57
E334 72 82 56
E336 72 82 59
-BB-
-CC-
SEE SH205
C -
SH 205
81 SEE NOTES 4 AND 13
P101A 71
P104A 70
P104D 68
P107A 65
P107D 64
P110A 60
P110D 63
P113A 59A
P116A 58
P116D 55
P119A 53
P119D 54
P122A 51
P122D 52
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E308 72 82 86
E327 72 82 81
E337 72 82 82
E332 72 82 73
P100A 88
P100D 87
P103A 85
P103D 84
P106A 83
P106D 80
P109D 79
P115A 78
P115D 77
P118A 75
P121A 74
P121D 72
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SH205D-13
4 REQD
P95 89
INDEX KEY
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16 67
90,91 92,93
-DD-
SEE SH206, G16
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[2] 99
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101
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8 BSC
SEE DETAIL S SH209, A5
-T-
104,105 106,107
DO NOT LACE TOGETHER
-BB-
2901465
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H G F E D C B A
2901465 SH 206

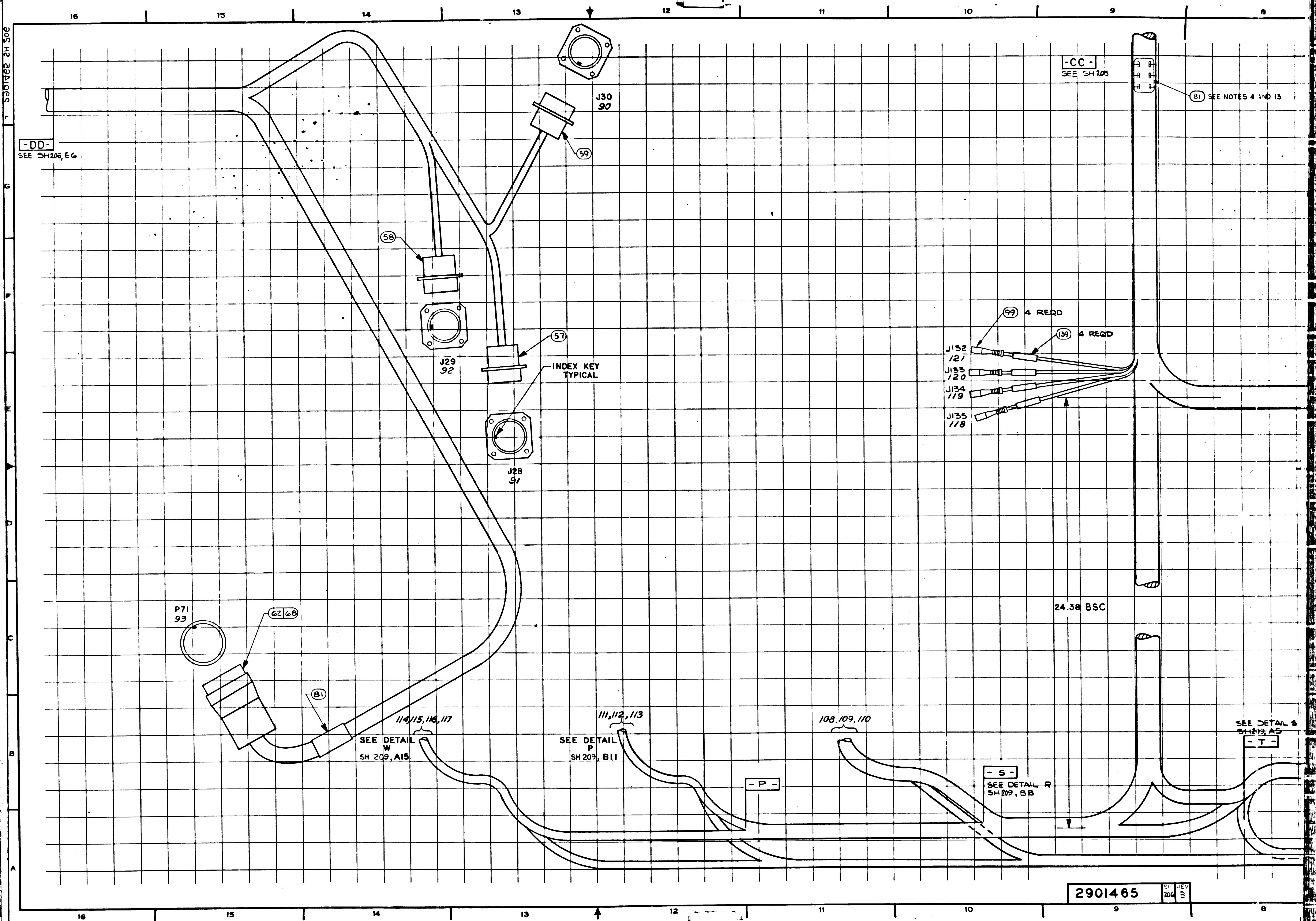
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Ozyel DATE 1 APR 66
CHECKED Fisler 12 APR 66
APPROVAL J Mulatier 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS "B"

SIZE J2
CODE IDENT NO 99974
2901465
SCALE 1/1
SHEET 206 OF 209



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SEE SH 205
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-DD-
SEE SH206, E6
J30
90
59
-CC-
SEE SH 205
81 SEE NOTES 4 AND 13
58
57
J29
92
INDEX KEY
TYPICAL
J28
91
99 4 REQD
139 4 REQD
J132
121
J133
120
J134
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J135
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P71
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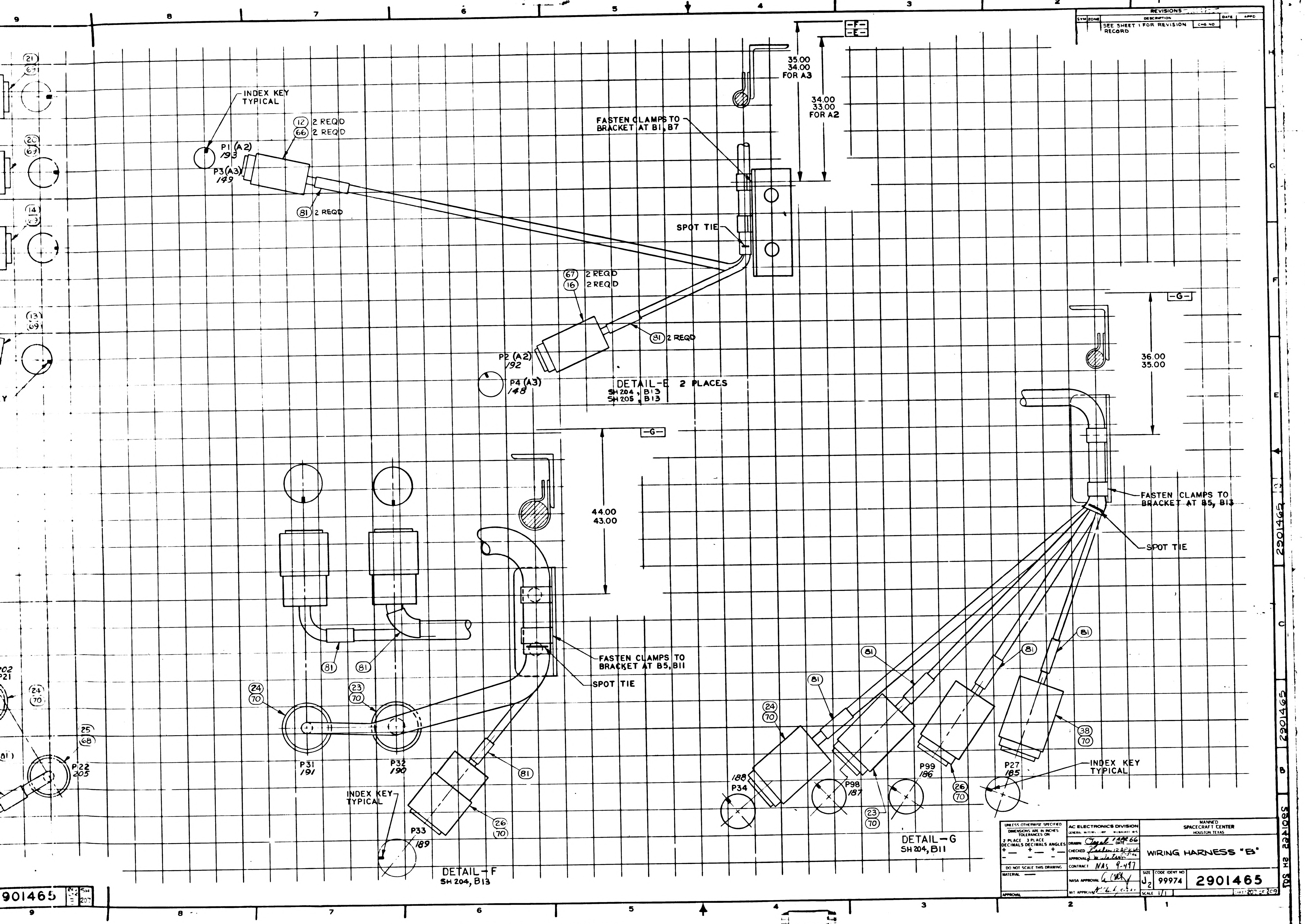
62 68
81
114,115,116,117
SEE DETAIL
W
SH 209, A15
111,112,113
SEE DETAIL
P
SH 209, B11
-P-
108,109,110
-S-
SEE DETAIL R
SH 209, B8
SEE DETAIL S
SH 219, A5
-T-

2901465	SH 206	REV B

1/2901465



REVISIONS
SYM ZONE DESCRIPTION DATE APPD
SEE SHEET 1 FOR REVISION RECORD
CHG NO
-F-
-E-
35.00
34.00
FOR A3
34.00
33.00
FOR A2
FASTEN CLAMPS TO BRACKET AT B1, B7
INDEX KEY TYPICAL
(12) 2 REQD
(66) 2 REQD
P1 (A2) 193
P3 (A3) 149
(81) 2 REQD
SPOT TIE
(67) 2 REQD
(16) 2 REQD
(81) 2 REQD
P2 (A2) 192
P4 (A3) 148
DETAIL-E 2 PLACES
SH 204, B13
SH 205, B13
-G-
36.00
35.00
FASTEN CLAMPS TO BRACKET AT B5, B13
SPOT TIE
-G-
44.00
43.00
(81)
(81)
FASTEN CLAMPS TO BRACKET AT B5, B11
SPOT TIE
(24) (70)
(23) (70)
P31 191
P32 190
(81)
INDEX KEY TYPICAL
(26) (70)
P33 189
DETAIL-F
SH 204, B13
(81)
(81)
(81)
(81)
(24) (70)
188
P34
P98 187
(23) (70)
P99 186
(26) (70)
P27 185
(38) (70)
INDEX KEY TYPICAL
DETAIL-G
SH 204, B11
(21) (69)
(20) (69)
(14) (69)
(13) (69)
202
P21
(24) (70)
(25) (68)
P22 205
(81)
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9 8 7 6 5 4 3 2 1
H G F E D C B
2901465

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS +— −— 3 PLACE DECIMALS +— −— ANGLES +— −—
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

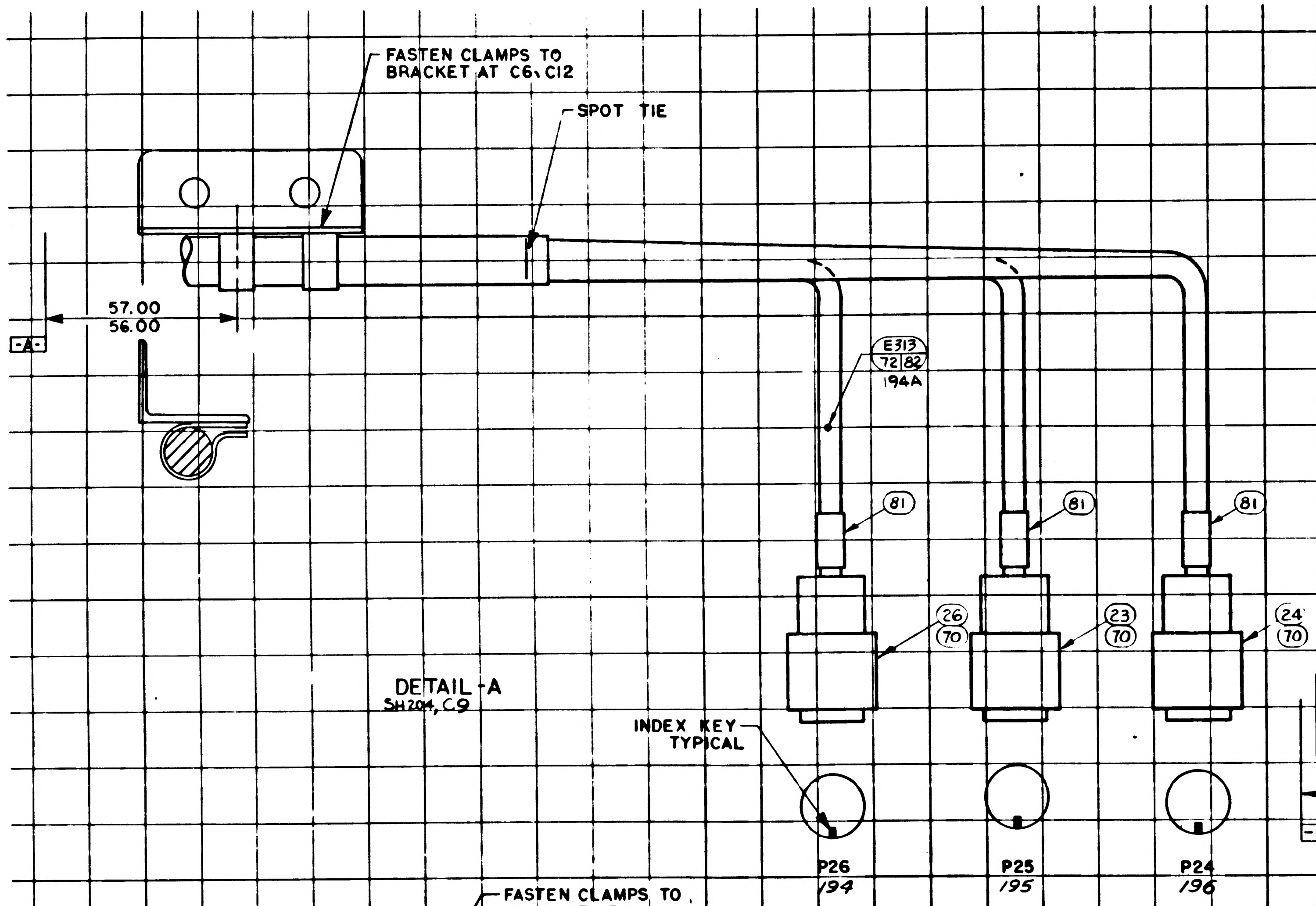
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN Oyal DATE 1 APR 66
CHECKED Foster 12 APR 66
APPROVAL M Watson 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL 5-6-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "B"

SIZE J2
CODE IDENT NO 99974
2901465
SCALE 1/1
SHEET 207 OF 209

2/2901465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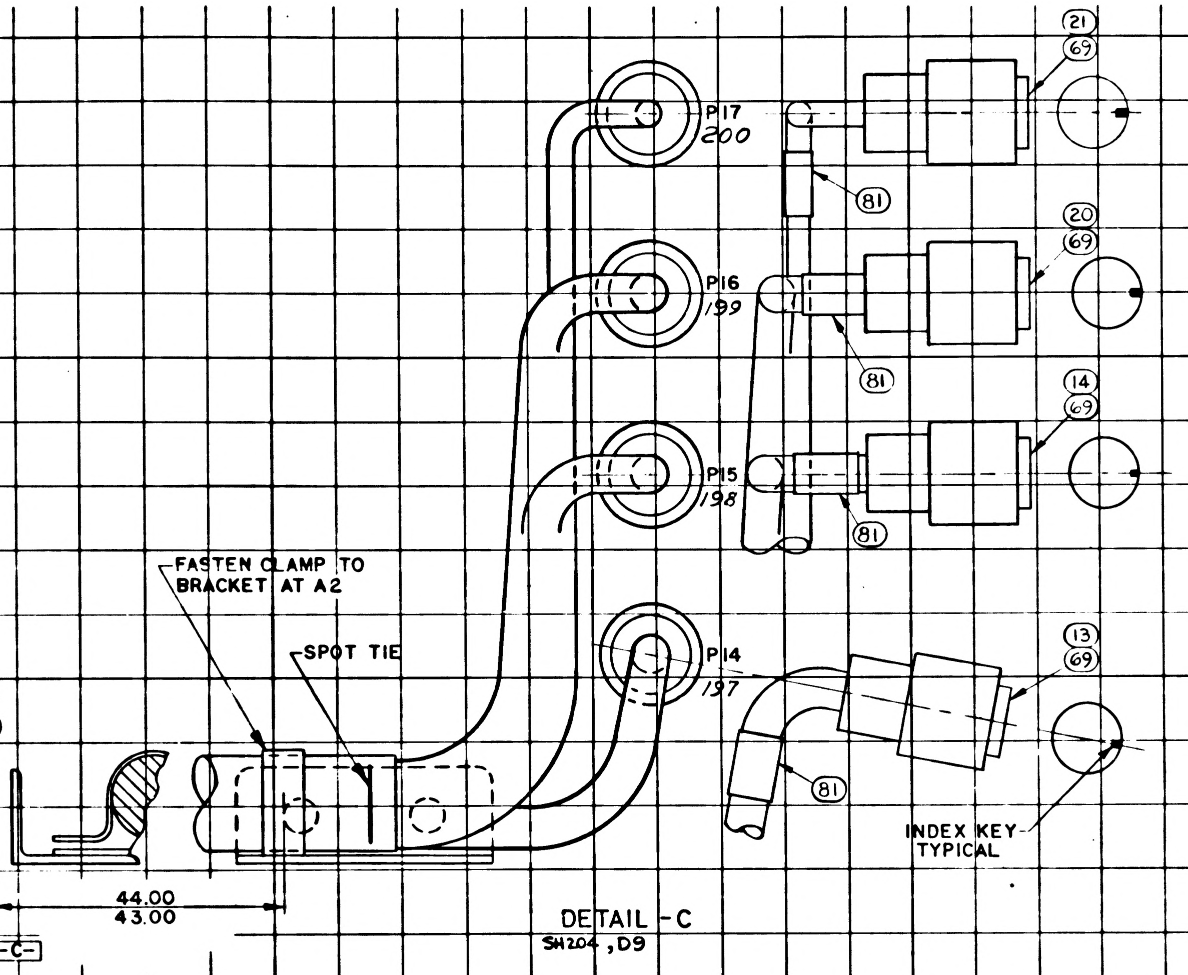
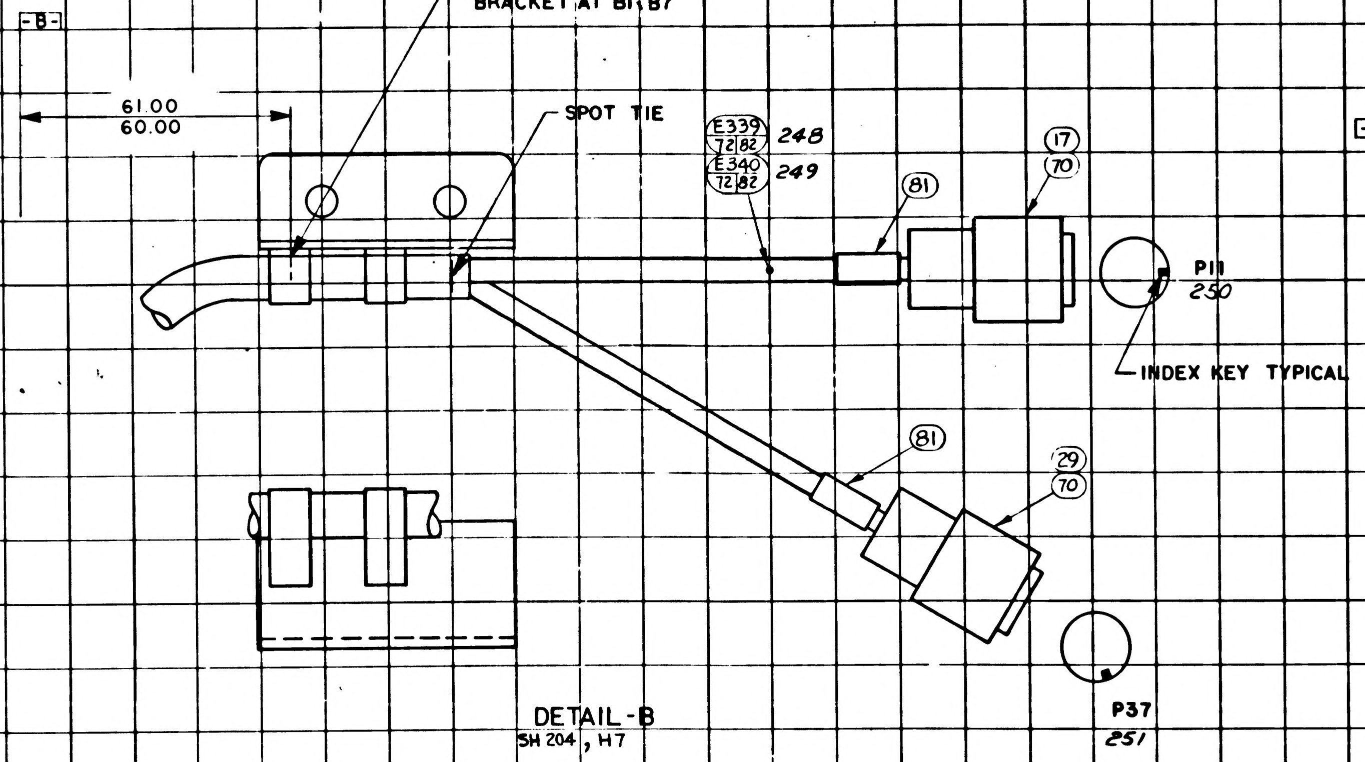
56.00
-A-
E313
72 82
194A
81
81
81
26
70
23
70
24
70
INDEX KEY TYPICAL
P26
194
P25
195
P24
196

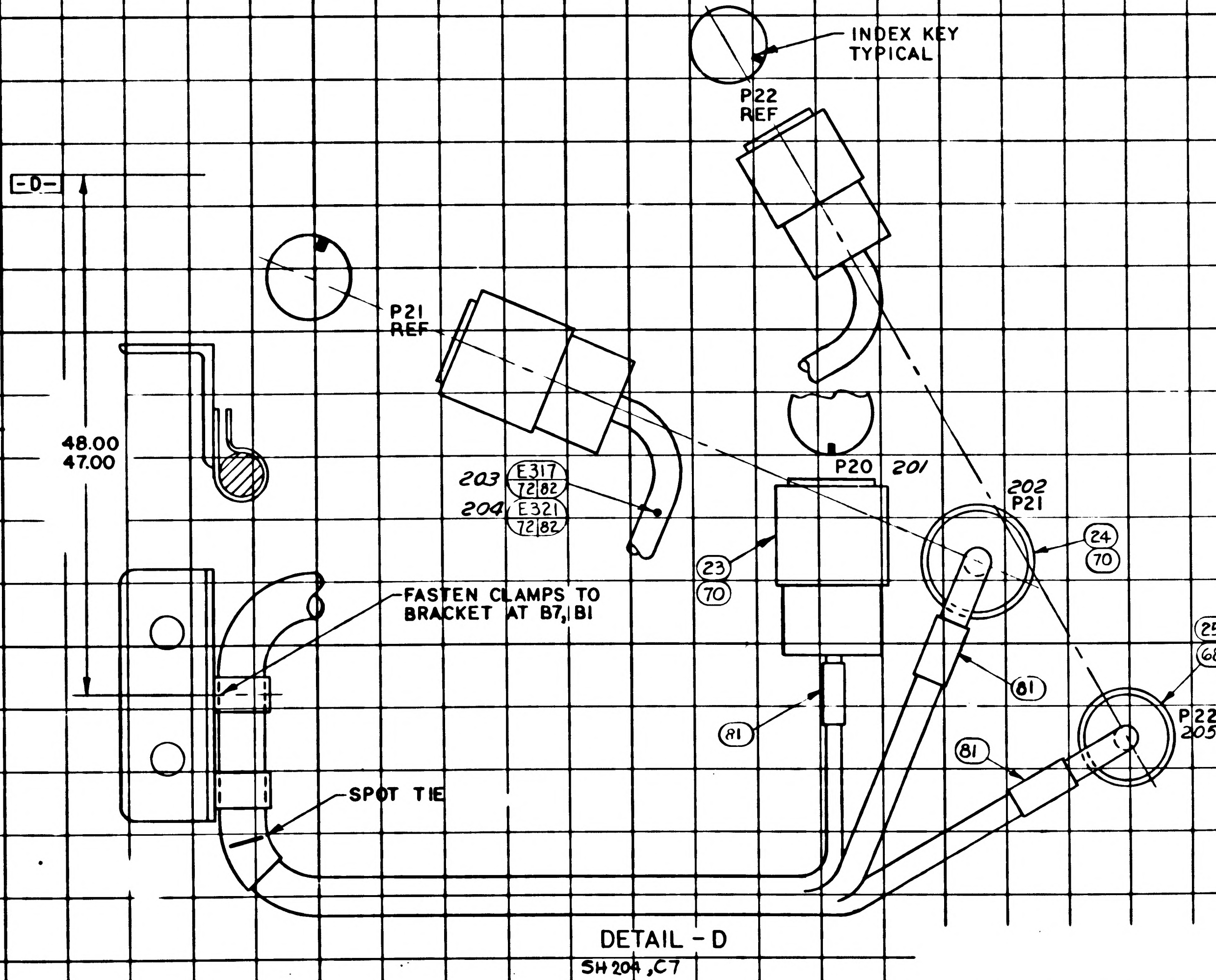
DETAIL-A
SH204, C9


P17
200
21
69
81
P16
199
20
69
81
P15
198
14
69
81
FASTEN CLAMP TO BRACKET AT A2
SPOT TIE
P14
197
13
69
81
INDEX KEY TYPICAL
44.00
43.00
-C-

DETAIL - C
SH204, D9


FASTEN CLAMPS TO BRACKET AT B1, B7
SPOT TIE
-B-
61.00
60.00
E339
72 82
248
E340
72 82
249
81
17
70
P11
250
INDEX KEY TYPICAL
81
29
70
P37
251

DETAIL-B
SH 204, H7

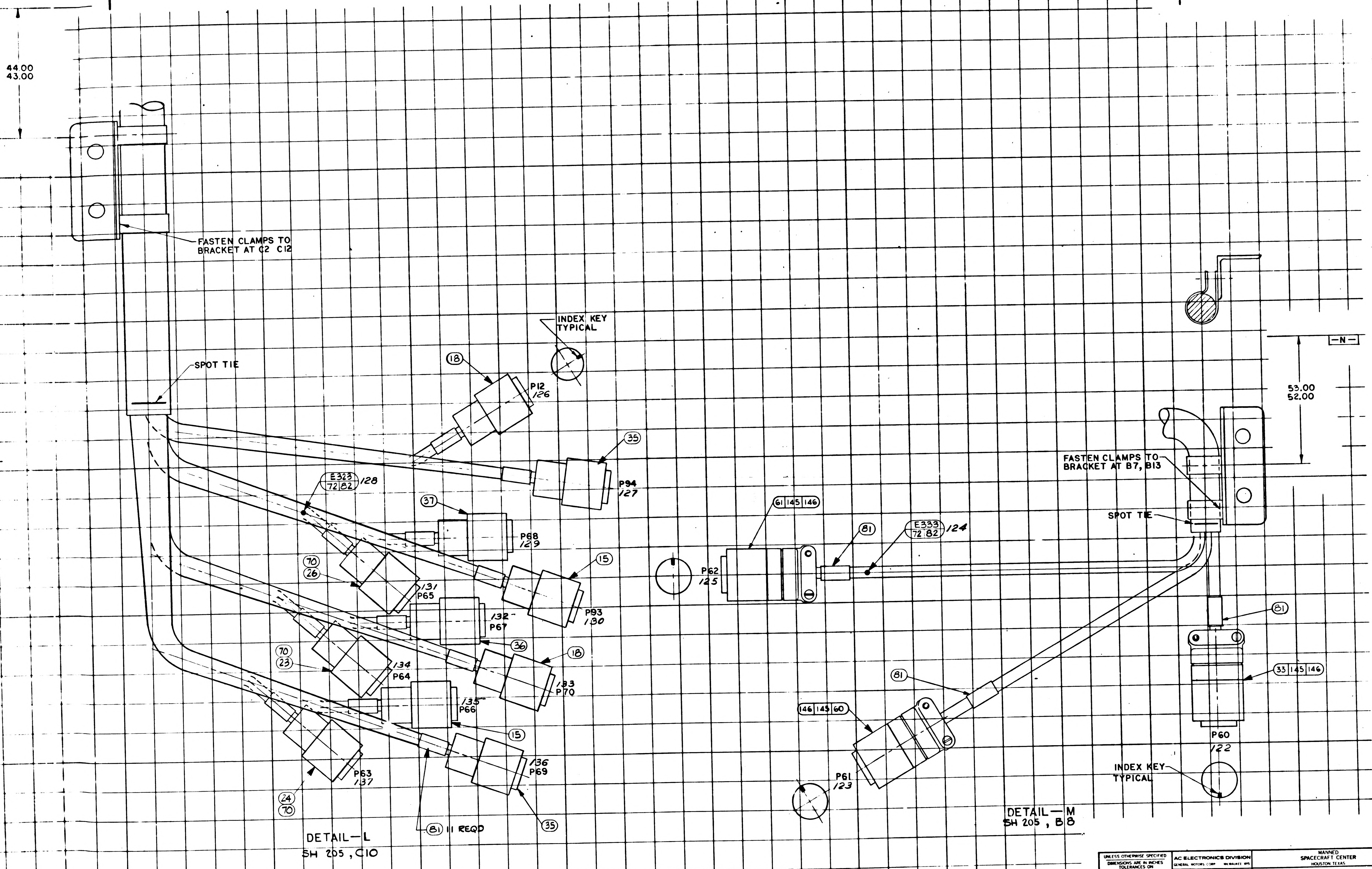

INDEX KEY TYPICAL
P22
REF
-D-
48.00
47.00
P21
REF
203
E317
72 82
204
E321
72 82
P20 201
202
P21
24
70
23
70
FASTEN CLAMPS TO BRACKET AT B7, B1
81
81
25
68
P22
205
81
SPOT TIE

DETAIL - D
SH 204, C7

2901465 REV LTR B SH 207

1/2901465

REVISIONS				
SYM	ZONE	DESCRIPTION	A I &	APPD
		SEE SHEET 1 FOR REVISION RECORD CHG NO		



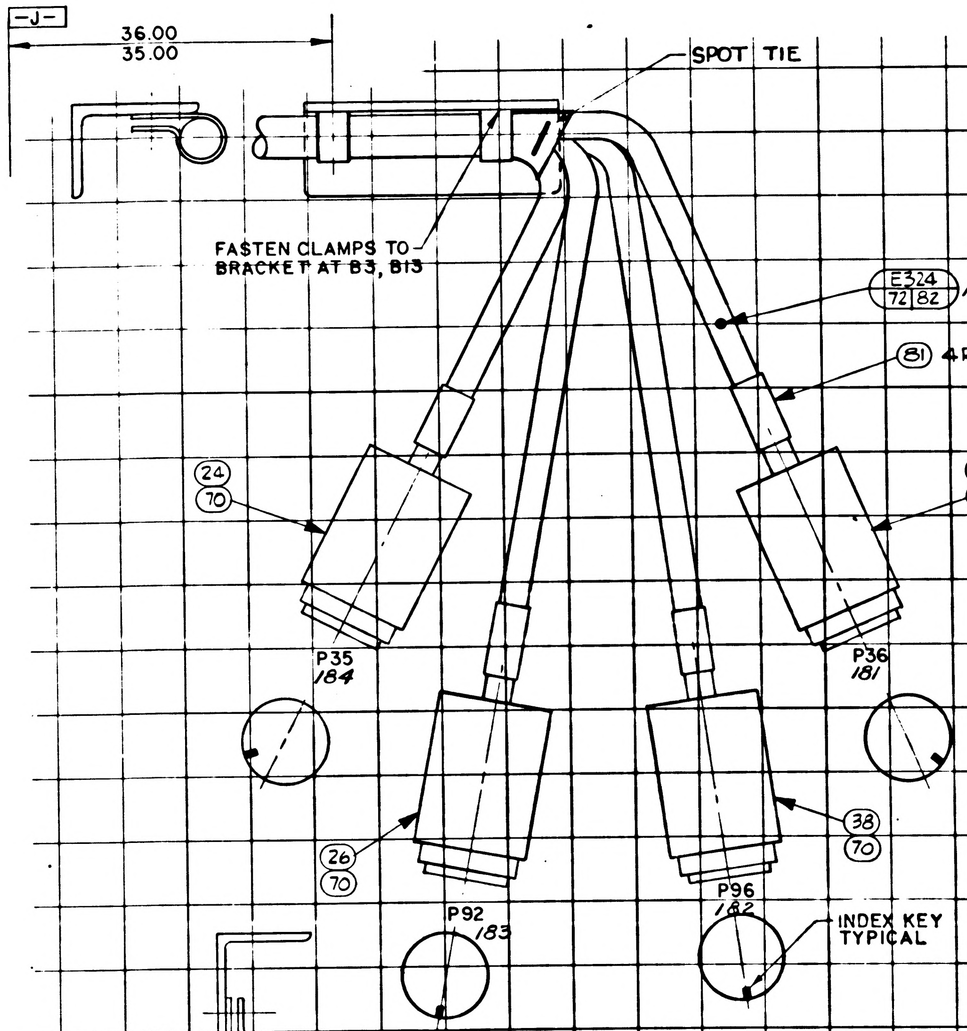
44.00
43.00
FASTEN CLAMPS TO BRACKET AT C2 C12
SPOT TIE
INDEX KEY TYPICAL
18
P12 126
35
P94 127
E323 72 82 128
37
P68 129
15
P93 130
70 26
131 P65
132 P67
36
70 23
134 P64
18
133 P70
135 P66
15
24 70
P63 137
136 P69
35
81 11 REQD
DETAIL—L
SH 205, C10
-N-
53.00
52.00
FASTEN CLAMPS TO BRACKET AT B7, B13
SPOT TIE
61 145 146
P62 125
81
E333 72 82 124
81
33 145 146
P60 122
81
146 145 60
P61 123
INDEX KEY TYPICAL
DETAIL—M
SH 205, B8

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS + — − — 3 PLACE DECIMALS + — − — ANGLES + — − —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN Ziegel DATE 1 APR 66 CHECKED Fischer 12 APR 66 APPROVAL J. M. Watson 5-6-66 CONTRACT NAS 9-497	WIRING HARNESS "B"
MATERIAL —	NASA APPROVAL	SIZE J2 — CODE IDENT NO 99974 — 2901465
APPROVAL	MIT APPROVAL 5-12-66	SCALE 1/1 — SHEET 208 OF 209

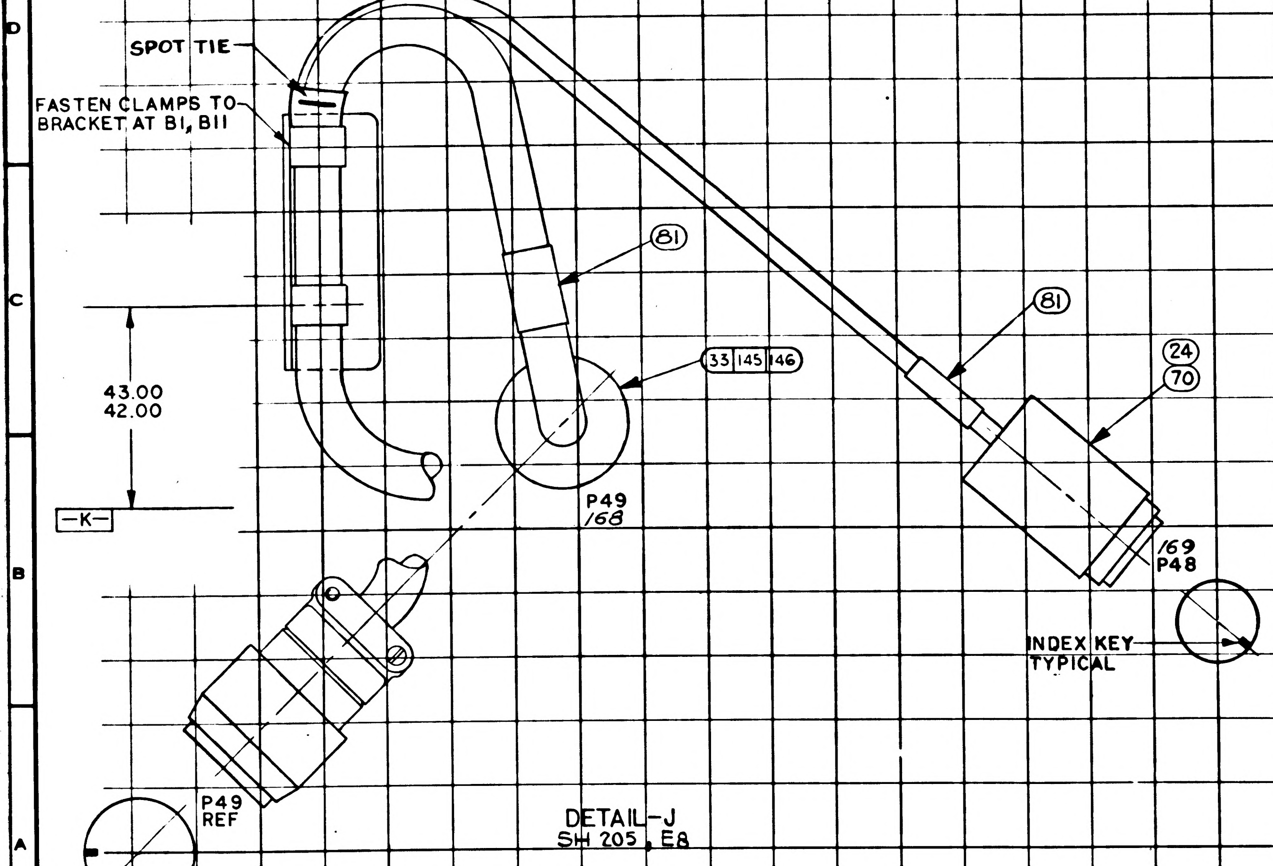
2901465 REV LTR SH 208

2901465 SH 208

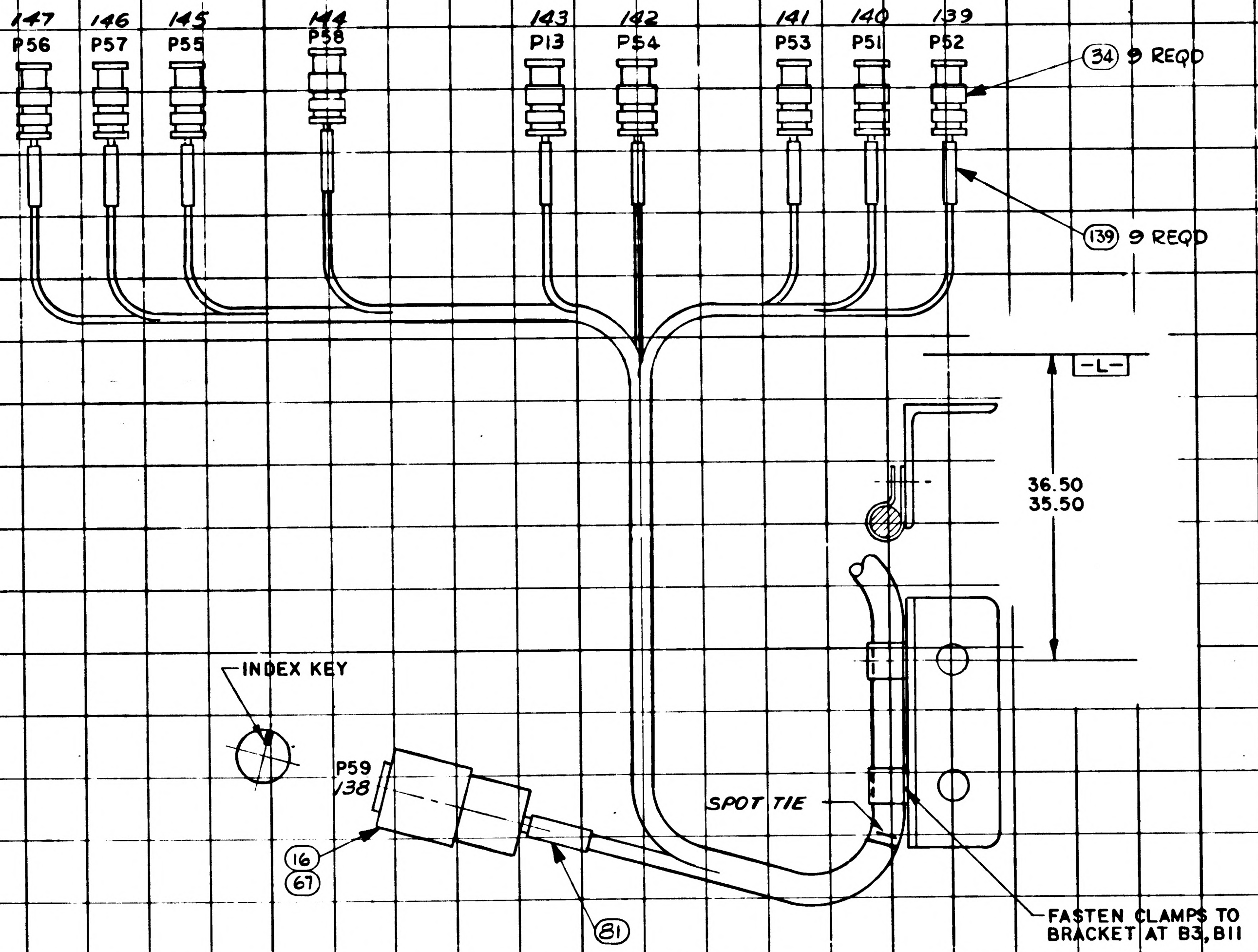
2/2901465


-J-
36.00
35.00
SPOT TIE
FASTEN CLAMPS TO
BRACKET AT B3, B13
E324
72 | 82
180
81 4 REQD
24
70
23
70
P35
184
P36
181
26
70
38
70
P92
183
P96
182
INDEX KEY
TYPICAL

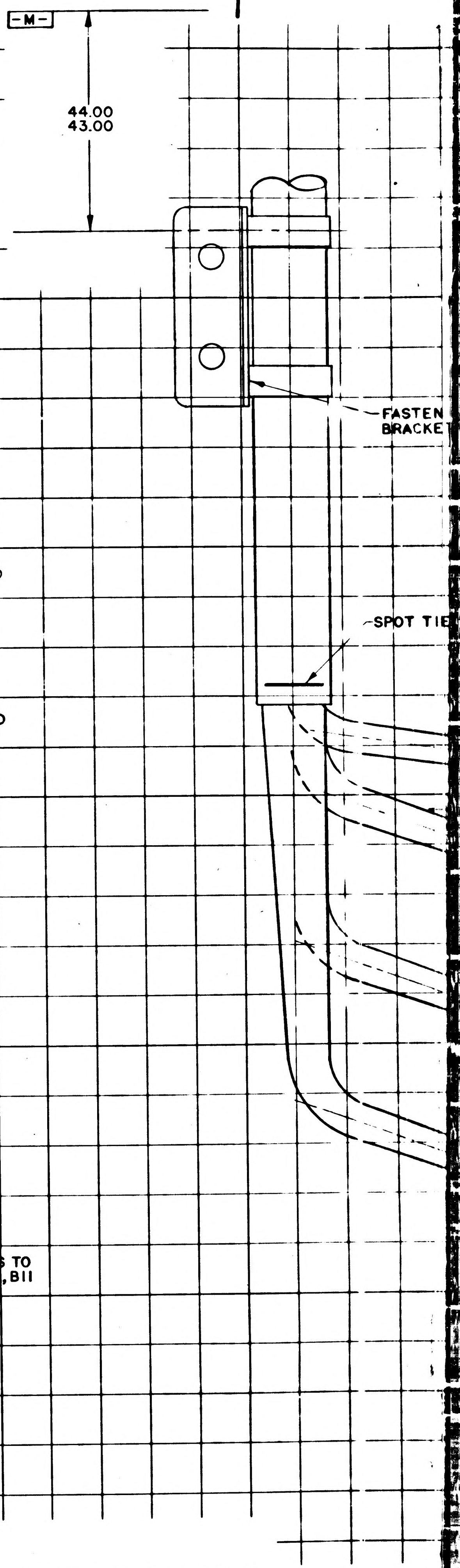
DETAIL-H
SH 204 , B9


SPOT TIE
FASTEN CLAMPS TO
BRACKET AT B1, B11
81
81
33 | 145 | 146
24
70
43.00
42.00
-K-
P49
168
169
P48
INDEX KEY
TYPICAL
P49
REF

DETAIL-J
SH 205 , E8

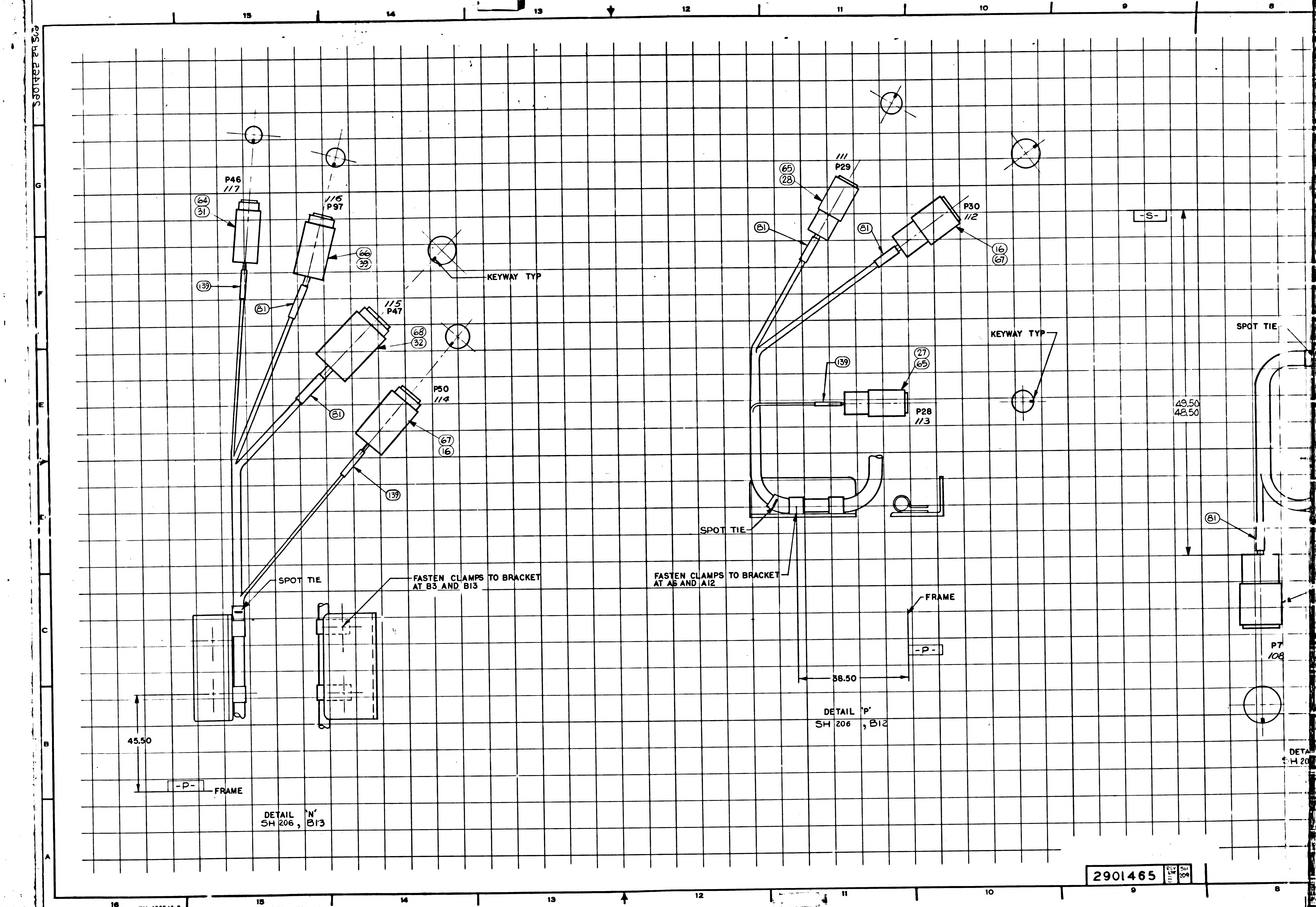

147
P56
146
P57
145
P55
144
P58
143
P13
142
P54
141
P53
140
P51
139
P52
34 9 REQD
139 9 REQD
-L-
36.50
35.50
INDEX KEY
P59
138
16
67
81
SPOT TIE
FASTEN CLAMPS TO
BRACKET AT B3, B11

DETAIL - K
SH 205 , C11


-M-
44.00
43.00
FASTEN
BRACKET
SPOT TIE

2901465 REV LTR B SH 208

1/2901465



P46
117
64
31
139
116
P97
66
39
81
KEYWAY TYP
115
P47
68
32
81
P50
114
67
16
139
SPOT TIE
FASTEN CLAMPS TO BRACKET AT B3 AND B13
45.50
-P-
FRAME
DETAIL 'N'
SH 206, B13
111
P29
65
28
81
81
P30
112
16
67
139
27
65
P28
113
KEYWAY TYP
-S-
49.50
48.50
SPOT TIE
FASTEN CLAMPS TO BRACKET AT A6 AND A12
FRAME
-P-
38.50
DETAIL 'P'
SH 206, B12
SPOT TIE
81
P7
108
DETA
SH 20
16
15
14
13
12
11
10
9
8
G
F
E
D
C
B
A

2901465 REV SH 209

1/2901465

APPLICATION	
NEXT ASSY	USED ON
2900031-031	2900031-031

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61924	14 APR 66	FRW
B	INITIAL RELEASE CLASS A PER TDRR 2E759	4 MAY 66	LK CP

REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	36	36	37	38	39	40	41	42	43	44	45	46
REV STATUS OF SHEETS REV							B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN U. J. Flander 25-MAR-66 (DAY MO YR)
CHECKER M. Manning 6 APR 66
ENGINEER 13 APR 66
APPROVAL M. Watson 5-5-66
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL 5/12/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RUNNING LIST, MONITOR PANEL

SIZE A | CODE IDENT. NO 99974 | 2901466

SCALE NONE | SHEET 1 OF 79

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
47	B														
48	B														
49	B														
50	B														
51	B														
52	B														
53	B														
54	B														
55	B														
56	B														
57	B														
58	B														
59	B														
60	B														
61	B														
62	B														
63	B														
64	B														
65	B														
66	B														
67	B														
68	B														
69	B														
70	B														
71	B														
72	B														
73	B														
74	B														
75	B														
76	B														
77	B														
78	B														
79	B														

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION B

NASA DRAWING NO.
2901466
SHEET 2 OF 79

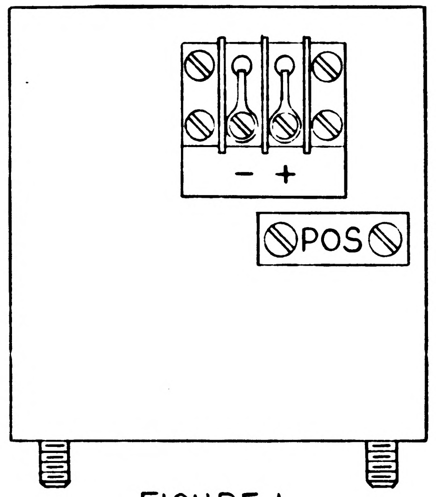


FIGURE 1
P/N 1897183-

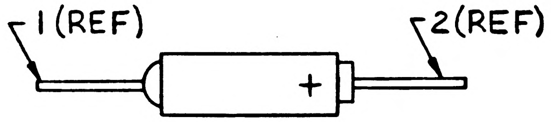


FIGURE 2
P/N CS13AG180K

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 3 OF 79

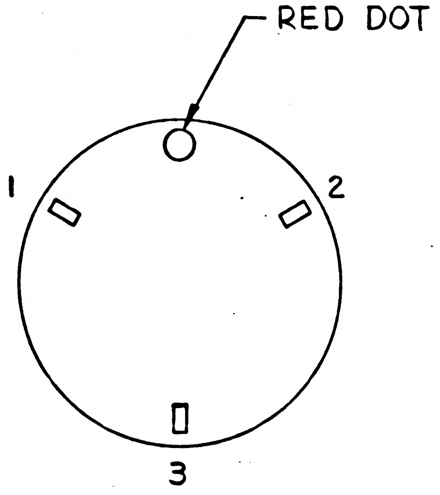


FIGURE 3
P/N 1015925-2

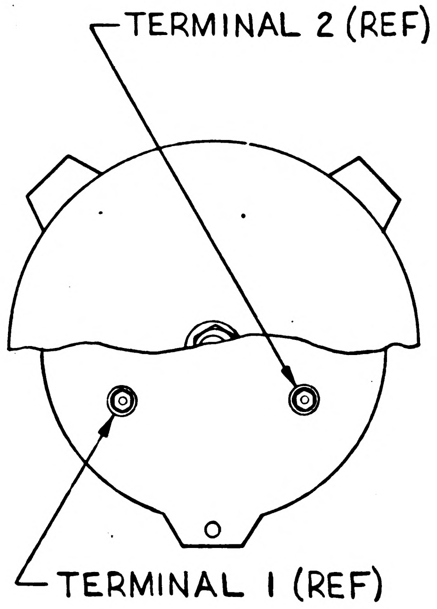

TERMINAL 2 (REF)
TERMINAL 1 (REF)

FIGURE 4
P/N 1901570

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 4 OF 79

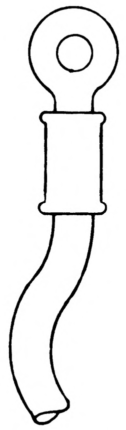


FIGURE 5
P/N 1015902

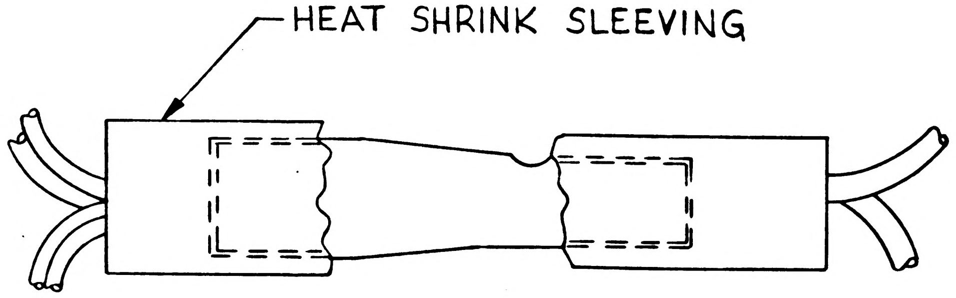

HEAT SHRINK SLEEVING

FIGURE 6
P/N 1016006

NUMBER OF CONDUCTORS FOR REFERENCE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 5 OF 79

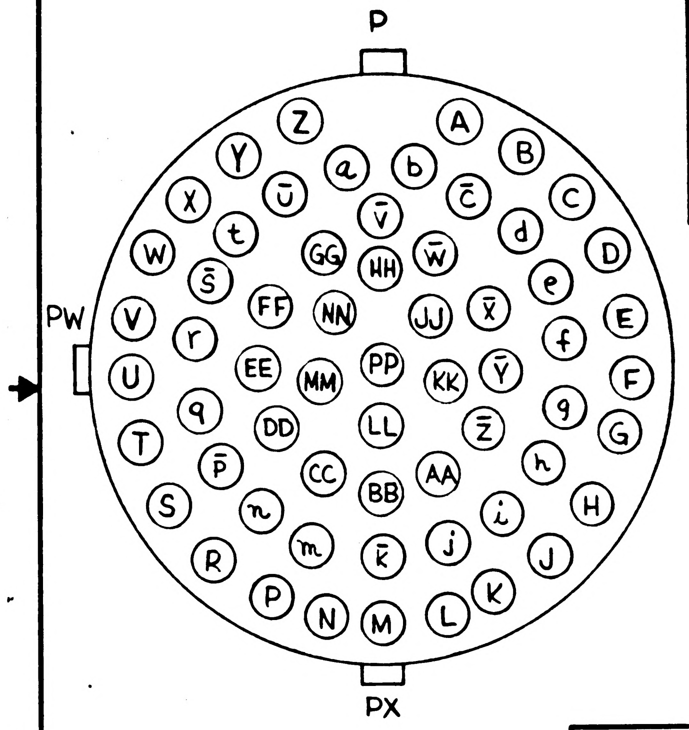

P
PW
PX
A
B
C
D
E
F
G
H
J
K
L
M
N
P
R
S
T
U
V
W
X
Y
Z
a
b
c̄
d
e
f
g
h
i
j
k̄
m
n
p̄
q
r
s̄
t
ū
v̄
w̄
x̄
ȳ
z̄
AA
BB
CC
DD
EE
FF
GG
HH
JJ
KK
LL
MM
NN
PP

FIG	CONNECTOR	PART NUMBER	INDEX KEYWAY (SEE FIGURE)
7a	J1	MS3127E-24-61P	P
7b	J2	MS3127E-24-61PW	PW
7c	J3	MS3127E-24-61PX	PX

FIGURE 7
FACE VIEW

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 6 OF 79

FIGURE	CONNECTOR	PART NUMBER	INDEX PINS
8a	A28J1	1015817-660	1 & 61

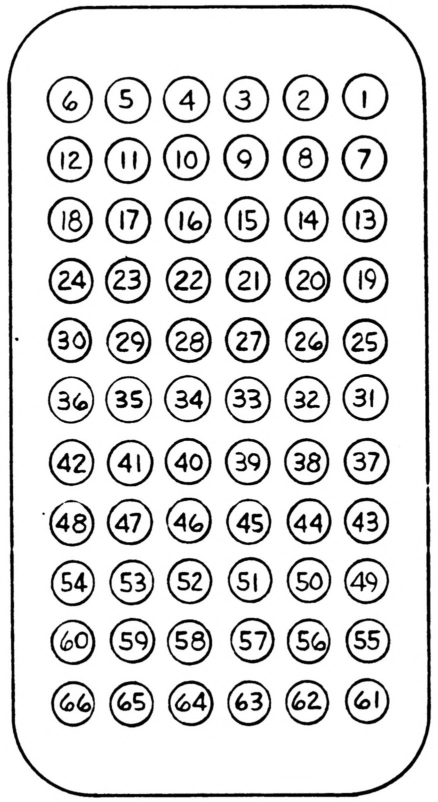

6 5 4 3 2 1
12 11 10 9 8 7
18 17 16 15 14 13
24 23 22 21 20 19
30 29 28 27 26 25
36 35 34 33 32 31
42 41 40 39 38 37
48 47 46 45 44 43
54 53 52 51 50 49
60 59 58 57 56 55
66 65 64 63 62 61

FIGURE 8
REAR VIEW

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
REVISION B
NASA DRAWING NO. 2901466
SHEET 7 OF 79

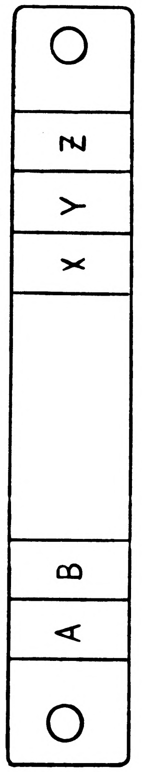


FIGURE 9
REAR VIEW

FIGURE	CONNECTOR	PART NUMBER	INDEX PIN
9a	J4	1015957-175	K
9b	J6	-188	Z
9c̄	J17	-176	L
9d	J8	-167	A
9e	J9	-174	J
9f	J29	-178	N
9g	J11	-182	T
9h	J18, J21, J24, J27	-184	V
9j	J26	-181	S
9k̄	J14	-180	R
9m	J23	-185	W
9n	J30	-187	Y
9p̄	J20	-179	P
9q	J15	-183	U
9r	J5	-173	H
9s̄	J11A, J26A J29A, J30A	1015957-166	NONE

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
REVISION B
NASA DRAWING NO. 2901466
SHEET 8 OF 79

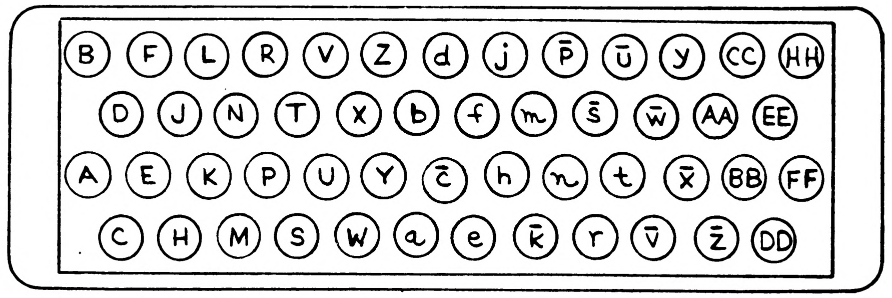

B F L R V Z d j P̄ Ū y CC HH
D J N T X b f m S̄ W̄ AA EE
A E K P U Y C̄ h n t X̄ BB FF
C H M S W a e K̄ r V̄ Z̄ DD

FIGURE 10
REAR VIEW

FIGURE	CONNECTOR	PART NUMBER	INDEX PINS
10a	J31	1015817-500	A, FF
10b	J32	1015817-500	B, HH
10c	J33	1015817-500	C, DD

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
REVISION B
NASA DRAWING NO. 2901466
SHEET 9 OF 79

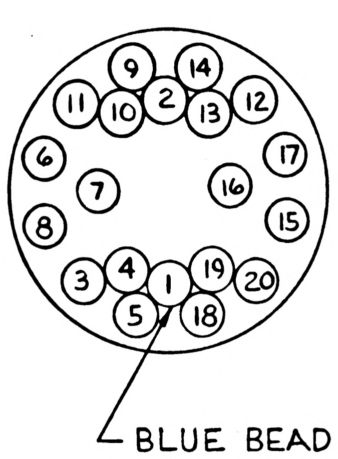

9 14
11 10 2 13 12
6 17
7 16
8 15
3 4 1 19 20
5 18
BLUE BEAD

FIGURE 11
P/N 1015837-001

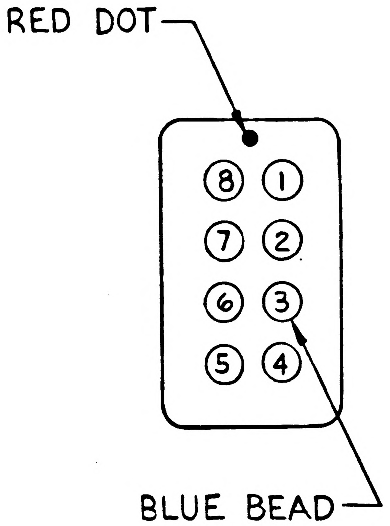

RED DOT
8 1
7 2
6 3
5 4
BLUE BEAD

FIGURE 12
P/N 1015802-004

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS
REVISION B
NASA DRAWING NO. 2901466
SHEET 10 OF 79

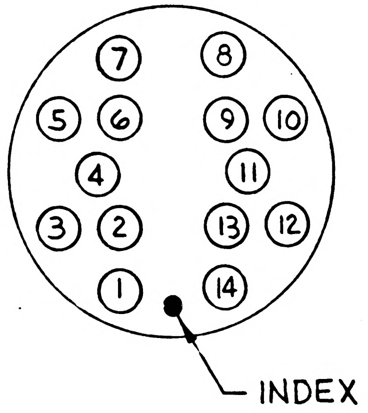

7 8
5 6 9 10
4 11
3 2 13 12
1 14
INDEX

FIGURE 13
P/N 1015914-001

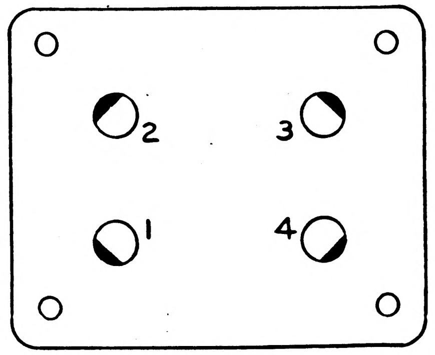


FIGURE 14
P/N 1016085

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION
B

NASA DRAWING NO.
2901466
SHEET 11 OF 79

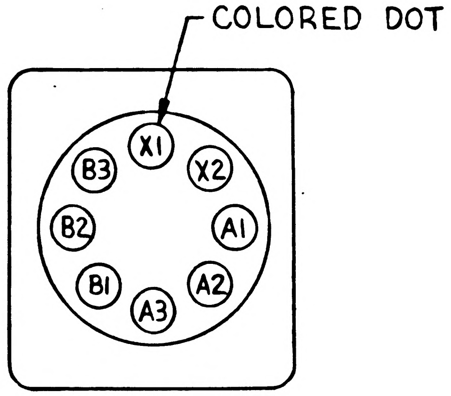

COLORED DOT
X1
X2
A1
A2
A3
B1
B2
B3

FIGURE 15
P/N 1016096

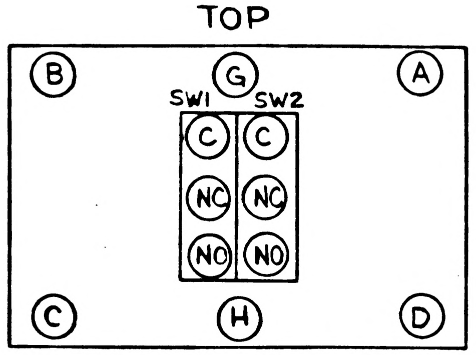

TOP
B
G
A
SW1
SW2
C
C
NC
NC
NO
NO
C
H
D

FIGURE 16
P/N 1015869

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION
B

NASA DRAWING NO.
2901466
SHEET 12 OF 79

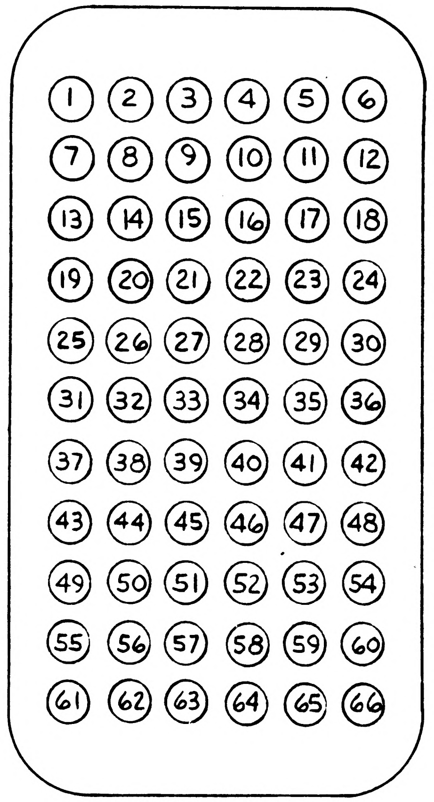

1 2 3 4 5 6
7 8 9 10 11 12
13 14 15 16 17 18
19 20 21 22 23 24
25 26 27 28 29 30
31 32 33 34 35 36
37 38 39 40 41 42
43 44 45 46 47 48
49 50 51 52 53 54
55 56 57 58 59 60
61 62 63 64 65 66

FIGURE	CONNECTOR	PART NUMBER	INDEX PINS
17a	P1	1015818-660	1, 61

FIGURE 17
REAR VIEW

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION
B

NASA DRAWING NO.
2901466
SHEET 13 OF 79

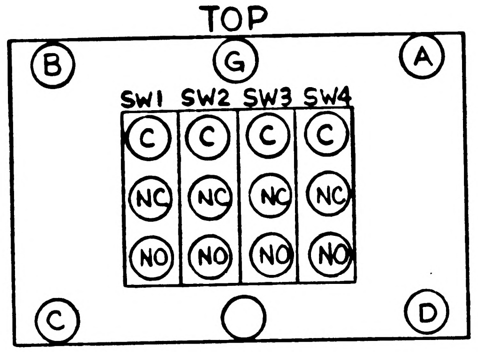

TOP
B
G
A
SW1 SW2 SW3 SW4
C C C C
NC NC NC NC
NO NO NO NO
C
D

FIGURE 18
P/N 1015869
REAR VIEW

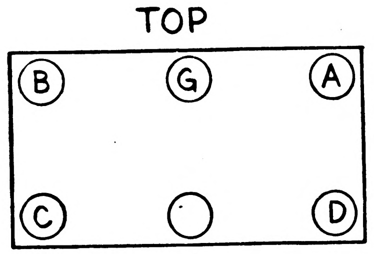


FIGURE 19
P/N 1015869
REAR VIEW

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION
B

NASA DRAWING NO.
2901466
SHEET 14 OF 79

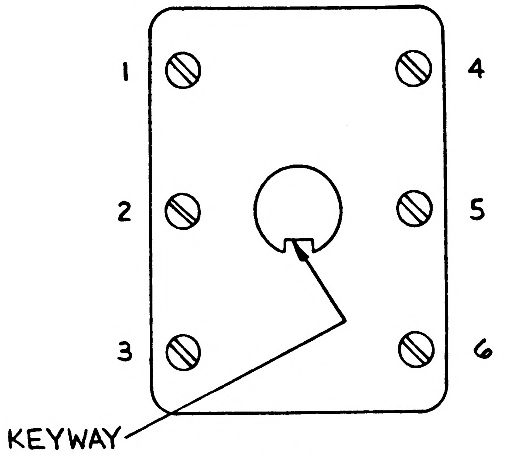

1
2
3
4
5
6
KEYWAY

FIGURE 20
REAR VIEW
P/N MS35059-23

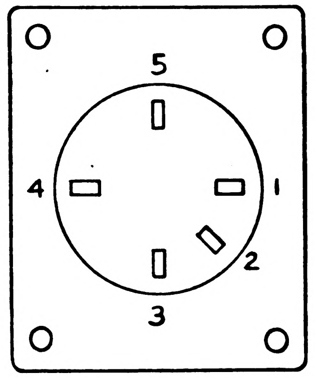


FIGURE 21
P/N 1016104

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 15 OF 79

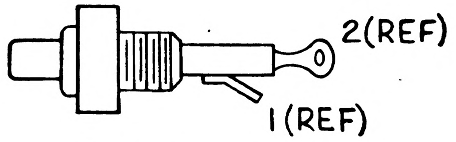


FIGURE 22
P/N 1015873-008

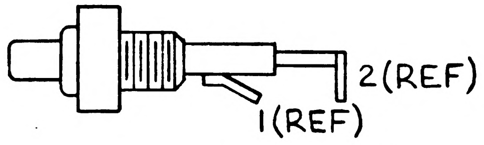


FIGURE 23
P/N 1015873-001

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 16 OF 79

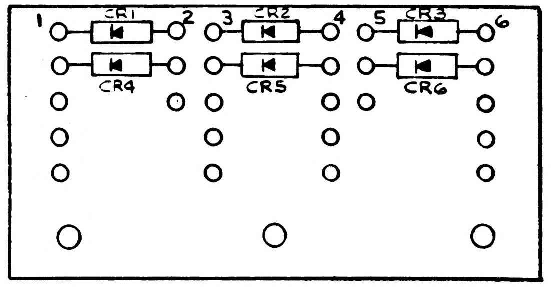
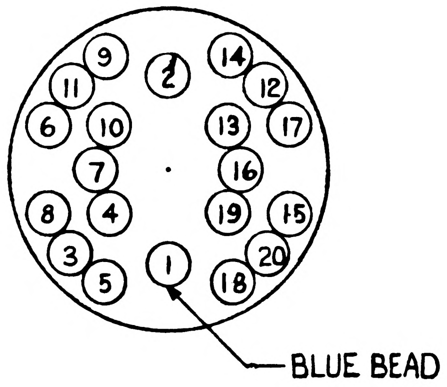

1
CR1
2
3
CR2
4
5
CR3
6
CR4
CR5
CR6

FIGURE 24
P/N 2900323
(COMPONENTS SHOWN FOR REF ONLY)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 17 OF 79


9
2
14
11
12
6
10
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17
7
16
8
4
19
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3
20
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1
18
BLUE BEAD

FIGURE 25
P/N 1016024-001

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION B	NASA DRAWING NO. 2901466 SHEET 18 OF 79

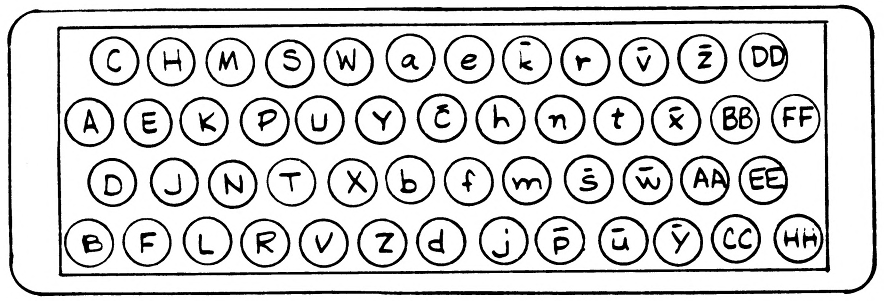
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FIGURE 26
REAR VIEW

FIGURE	CONNECTOR	PART NUMBER	INDEX PINS
18a	P4	1015818-500	A, FF
18b	P5	1015818-500	B, HH
18c	P6	1015818-500	C, DD

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	2901466	
SCALE-NONE	REV LTR B		SHEET 19 of 79

```
PENNANT                    GENERAL NOTES
 NOTE

   1        INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY
            MIL-D-70327.

   2        A LETTER WITH AN ASTERISK SUFFIX INDICATES A LOWER CASE LETTER.

   3        THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD
            LEAD, COLOR, OR MARKED LETTER. -
               A - FROM END SHIELD
               B - TO END SHIELD
               K - BLACK, WHITE WITH LETTER
                   K OR WHITE WITH BLACK
                   TRACER.
               L - BLUE, WHITE WITH LETTER
                   L, OR WHITE WITH BLUE
                   TRACER
               R - RED, WHITE WITH LETTER R
                   OR WHITE WITH RED TRACER.
               W - WHITE OR WHITE WITH LETTER
                   W.
               Y - YELLOW, WHITE WITH LETTER
                   Y OR WHITE WITH YELLOW
                   TRACER.

   4        DRAWINGS FOR REFERENCE ----
                2900031-031 MONITOR PANEL ASSEMBLY
                2901378     WIRING HARNESS A
                2901120     WIRING HARNESS B
                2901116     WIRING HARNESS C

   5        PARTIAL REFERENCE DESIGNATIONS ARE SHOWN - PREFIX WITH UNIT
            OR ASSEMBLY DESIGNATION OR BOTH.
```

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 20 OF 79

```
PENNANT                    GENERAL NOTES
 NOTE

   6        INDEXING SHALL APPEAR ON TERMINAL ARRANGEMENT VIEWS WHERE
            APPLICABLE

   7        ALL PART NUMBERS ARE FOR REFERENCE ONLY
```

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 21 OF 79

```
  FROM        TO        LEAD NO  C I R C U I T  F U N C T I O N        PEN NOTE  WIRE CODE
          BT1   BATTERY (24VDC) 1897183-001 FIGURE 1

BT1-NEG     S9-4        A  85
BT1-POS     P1-46       A 277


          C1   CAPACITOR MIL-C-26655-2 (1896954-181) FIGURE 2

C1-1        P5-CC       A  87  28 VDC RLP LO
C1-2        L1-2        A 170  28 VDC RLP HI
C1-2        J14-X       A 171  28 VDC RLP HI


          DS1   FLASHER 1015925-2 FIGURE 3

DS1-1       K16-A2      C   7  28 VDC RLP LO
DS1-1       K17-X2      C   8  28 VDC RLP LO
DS1-2       K10-2       C  88
DS1-3       J1-17       C  53
DS1-3       K8-2        C  54


          DS47   BELL 1901570 FIGURE 4

DS47-1      S9-2        A 287
DS47-2      S9-5        A  86  28 VDC RLP LO
```

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 22 OF 79

```
  FROM        TO        LEAD NO  C I R C U I T  F U N C T I O N        PEN NOTE  WIRE CODE
          E1   TERMINAL LUG  1015902 FIGURE 5

E1          J1-A        A    1 GSE CHASSIS GROUND BUS


          E2   SPLICE REDUCER 1016006-002 FIGURE 6

E2          J1-B        A    2 GSE SHIELD GROUND BUS
E2          E3          A    3 GSE SHIELD GROUND BUS
E2          E4          A    4 GSE SHIELD GROUND BUS
E2          SHLD  A12   A  12A GSE SHIELD GROUND BUS
E2          SHLD  A22   A  22A GSE SHIELD GROUND BUS
E2          SHLD  A90   A  90A GSE SHIELD GROUND BUS
E2          SHLD  A91   A  91B GSE SHIELD GROUND BUS
E2          SHLD A314   A 314A GSE SHIELD GROUND BUS


          E3   SPLICE REDUCER 1016006-002 FIGURE 6

E3          E2          A    3 GSE SHIELD GROUND BUS
E3          J8-J        A    5 GSE SHIELD GROUND BUS
E3          SHLD  A110  A 110A GSE SHIELD GROUND BUS
E3          SHLD  A113  A 113A GSE SHIELD GROUND BUS


          E4   SPLICE REDUCER 1016006-002 FIGURE 6

E4          E2          A    4 GSE SHIELD GROUND BUS
E4          SHLD  A94   A  94B GSE SHIELD GROUND BUS
E4          SHLD  A150  A 150A GSE SHIELD GROUND BUS
E4          SHLD  A151  A 151A GSE SHIELD GROUND BUS
```

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 23 OF 79

(CONT.) E4 SPLICE REDUCER 1016006-002 FIGURE 6

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
E4	SHLD A153	A 153A	GSE SHIELD GROUND BUS		
E4	SHLD A154	A 154A	GSE SHIELD GROUND BUS		
E4	SHLD A167	A 167A	GSE SHIELD GROUND BUS		

J1 CONNECTOR MS3127E24-61P FIGURE 7A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J1-A	E1	A 1	GSE CHASSIS GROUND BUS		
J1-B	E2	A 2	GSE SHIELD GROUND BUS		
J1-C	P6-X	A 7	GIMBAL DUMP INHIBIT		
J1-D	P6-L	A 8	DUCOSYN EXC MON INHIB LAMP HI		
J1-P	J30A-S	A 9	GIMBAL DUMP INTERLOCK		
J1-R	J30A-K	A 10	GIMBAL DUMP INDICATION		
J1-S	J20-A	A 11	COOLANT SUPPLY FAIL LAMP		
J1-V	P1-27	A 12W	OIA ON COMMAND		
J1-Z	J23-P	A 13	27 VDC RLP HI ISS ONLY		
J1-A*	J30A-L	A 15	G/N POWER MODES ENABLE		
J1-B*	P4-E	A 16	CGC/LGC POWER FAIL HI		
J1-C*	J20-C	A 17	CLS REMOTE ALARM CONTROL		
J1-D*	P1-60	A 18	OIA ON G/N POWER NORMAL		
J1-E*	P1-25	A 316	COMP POWER ON LAMP		
J1-F*	P1-31	A 317	OPTICS POWER ON LAMP		
J1-G*	J29-P	A 19	DUCO SENSOR OVERRIDE		
J1-I*	J11A-V	A 21	TEST START LIGHT		
J1-J*	J11-A	A 22R	IMU DUCOSYN EXC MON HI		
J1-K*	J11-B	A 22L	IMU DUCOSYN EXC MON LO		
J1-M*	P6-V	A 23	TMC RESET		
J1-N*	P1-12	A 24	COLD PLATE TEMP NORM		
J1-P*	J29-K	A 26	TEMP NORM LO		
J1-Q*	P6-S	A 27	TEMP CONT LATCH RESET, ENABLE		
J1-R*	J29-B	A 28	60 CPS TMC CONDITIONED		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 24 OF 79

(CONT.) J1 CONNECTOR MS3127E24-61P FIGURE 7A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J1-S*	J29-C	A 29	TEMP MON FAIL IND ENABLE		
J1-T*	P4-F	A 30	CGC/LGC POWER FAIL LO		
J1-U*	J11A-M	A 31	PHASE C FAIL TEST		
J1-V*	J11A-L	A 32	PHASE B FAIL TEST		
J1-W*	J11A-K	A 33	PHASE A FAIL TEST		
J1-X*	J11-E	A 34	DUCOSYN FAIL LO VOLT TEST		
J1-Y*	J11-C	A 35	DUCOSYN FAIL HI FREQ TEST		
J1-Z*	J11-D	A 36	DUCOSYN FAIL LO FREQ TEST		
J1-AA	J11A-P	A 37	G/N POWER HI TEST		
J1-BB	J11A-N	A 38	G/N POWER LO TEST		
J1-CC	P5-D	A 39	28 VDC G/N POWER HI		
J1-DD	P5-F	A 46	28 VDC G/N POWER LO		
J1-EE	P5-B	A 52	28 VDC RLP HI		
J1-FF	P5-HH	A 61	28 VDC RLP LO		
J1-GG	P5-AA	A 90R	115 V 60 CPS PHASE A PILOT POWER		
J1-HH	P5-BB	A 90L	115 V 60 CPS NEUT		
J1-JJ	J11-S	A 95	ALARM TEST RELAY LO		
J1-KK	P1-40	A 96	27 VDC RLP HI ISS OPERATE		
J1-LL	P5-W*	A 97L	115 V 60 CPS PHASE B		
J1-MM	P5-X*	A 97Y	115 V 60 CPS PHASE C		
J1-NN	P5-V*	A 97R	115 V 60 CPS PHASE A		
J1-PP	P5-Y*	A 97K	115 V 60 CPS NEUT		

A28 J1 CONNECTOR 1015817-660 FIGURE 8A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J1-2	K14-5	C 76			
J1-3	K18-X1	C 1	2 SEC TIME DELAY LATCH		
J1-4	K5-12	C 34			
J1-5	K15-B3	C 51			
J1-6	K3-7	C 64			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 25 OF 79

(CONT.) A28 J1 CONNECTOR 1015817-660 FIGURE 8A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J1-7	K2-10	C 121			
J1-8	K14-2	C 77	28 VDC G/N POWER LO		
J1-9	K15-X2	C 4	28 VDC RLP LO		
J1-9	K2-2	C 14	28 VDC RLP LO		
J1-10	K5-13	C 35			
J1-11	K16-A1	C 52			
J1-12	K3-5	C 65	COLD PLATE TEMP NORM		
J1-13	K2-9	C 123			
J1-14	K14-8	C 78			
J1-15	K13-3	C 18	INITIATE 2 SEC TIME DELAY		
J1-16	K3-1	C 36	BLK II AND LEM STATUS IND		
J1-17	DS1-3	C 53			
J1-18	K8-5	C 66			
J1-19	K2-11	C 122			
J1-20	K14-6	C 79			
J1-21	K5-2	C 20	115 V 60 CPS NEUT		
J1-22	K3-6	C 37	TEMP WITHIN LIMITS		
J1-23	K10-6	C 55			
J1-24	K11-9	C 67			
J1-25	TERM.12	C 112	COMP POWER ON LAMP		
J1-26	K3-4	C 89			
J1-27	K5-1	C 22	OIA ON COMMAND		
J1-28	K3-11	C 38	GIMBAL LOCK INDICATION		
J1-29	K4-9	C 56			
J1-30	K5-8	C 68			
J1-31	TERM.10	C 113	OPTICS POWER ON LAMP		
J1-32	K9-8	C 90	REMOTE POWER ALARM OUTPUT		
J1-33	K17-A2	C 23	28 VDC RLP HI		
J1-34	K3-9	C 39			
J1-35	K4-6	C 57			
J1-36	K5-5	C 69			
J1-37	K3-20	C 111			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 26 OF 79

(CONT.) A28 J1 CONNECTOR 1015817-660 FIGURE 8A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J1-38	K5-19	C 91	REMOTE POWER ALARM COMMON		
J1-39	K11-5	C 26	28 VDC G/N POWER HI		
J1-40	K17-X1	C 40	27 VDC RLP HI ISS OPERATE		
J1-41	K3-17	C 58	BLK I SERIES 100 IND		
J1-42	K11-6	C 70			
J1-43	K2-4	C 105	COS AMG 1X S3 HI		
J1-44	K5-18	C 92	REMOTE NO POWER ALARM OUTPUT		
J1-45	K5-9	C 29	REMOTE NO TEMP ALARM OUTPUT		
J1-46	K10-8	C 44			
J1-47	K3-15	C 59	NOT BLK I SERIES 100 IND		
J1-48	K11-2	C 71			
J1-49	K2-7	C 106	COS AMG 1X S3 LO		
J1-50	K9-7	C 94			
J1-51	K5-10	C 30	REMOTE TEMP ALARM COMMON		
J1-52	TERM.5	C 98			
J1-52	K16-X1	C 100			
J1-53	K4-2	C 60			
J1-54	K18-B2	C 73			
J1-55	K2-3	C 107			
J1-56	K2-6	C 108			
J1-57	K5-11	C 31	REMOTE TEMP ALARM INPUT		
J1-58	K15-X1	C 48			
J1-59	K3-12	C 62			
J1-60	K18-B1	C 74	OIA ON G/N POWER NORMAL		
J1-62	K8-1	C 97			
J1-63	K4-10	C 32	28 VDC RLP HI		
J1-64	K15-B2	C 50			
J1-65	K3-10	C 63			
J1-66	K14-4	C 75			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 27 OF 79

J2 CONNECTOR MS3127E24-61PW FIGURE 7B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J2-S	J15-X	A 55	28 VDC RLP HI		
J2-W	P1-3	A 102	2 SEC TIME DELAY LATCH		
J2-X	J27-J	A 103	REMOTE SINGLE PRINT		
J2-Y	J27-K	A 104	DVM POWER GROUND		
J2-Z	P1-15	A 105	INITIATE 2 SEC TIME DELAY		
J2-A*	J30-R	A 324	LORS R AND I TEST CONFIG		
J2-B*	J20-S	A 106	WHEEL RUN-UP SIGNAL		
J2-C*	J17-S	A 107	MINUS 28 VDC		
J2-D*	J17-Z	A 108	0 VDC IMU		
J2-E*	J30-P	A 323	NOT G/N TEST IND		
J2-F*	P4-C*	A 293	DSKY SPARE SD444		
J2-G*	P4-D*	A 294	DSKY SPARE SD445		
J2-H*	P4-E*	A 295	CGC/LGC WARNING NO. 1		
J2-J*	P4-H*	A 297	ISS WARNING LIGHT		
J2-K*	P4-J*	A 298	ISS WARNING LMP		
J2-M*	P4-K*	A 299	G/N CAUTION LIGHT		
J2-N*	P4-M*	A 300	COMPUTER STANDBY		
J2-P*	P4-N*	A 301	S IV B CUTOFF		
J2-Q*	P4-P*	A 302	RR AUTO ANGLE ENABLE		
J2-R*	P4-R*	A 303	S IV B INJ SEQ START		
J2-S*	P4-S*	A 304	LR HOVER POS CMD		
J2-T*	P1-16	A 109	BLK II AND LEM STATUS IND		
J2-U*	J27-A	A 110L	ACCEL FAIL RET		
J2-V*	J27-B	A 110R	ACCEL FAIL HI		
J2-W*	J23-F	A 111	OPTICS/RR CDU FAIL		
J2-X*	J23-D	A 112	CDU FAIL		
J2-Y*	J24-A	A 113L	CDU FAIL RET		
J2-Z*	J24-B	A 113R	CDU FAIL HI		
J2-AA	P1-4	A 114	REMOTE LOGIC POWER ON		
J2-BB	J30A-P	A 115	CMS 0 VDC		
J2-CC	J30A-D	A 116	GSE CALIB ENABLED IND		
J2-DD	J30A-C	A 118	GSE REF POWER SELECTED		

(CONT.) J2 CONNECTOR MS3127E24-61PW FIGURE 7B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J2-EE	J30-F	A 120	G/N TEST CONFIG IND		
J2-FF	J30-B	A 122	ISS TEST CONFIG IND		
J2-GG	J30-C	A 124	NOT ISS TEST CONFIG IND		
J2-HH	J30-E	A 125	OSS TEST CONFIG IND		
J2-JJ	J30-D	A 127	NOT OSS TEST CONFIG IND		
J2-KK	P1-41	A 128	BLK I SERIES 100 IND		
J2-LL	P1-47	A 131	NOT BLK I SERIES 100 IND		
J2-MM	J30-L	A 133	BLK II IND		
J2-NN	J30-K	A 135	NOT BLK II IND		
J2-PP	J30-M	A 136	LEM CONFIG IND		

J3 CONNECTOR MS3127E24-61PX FIGURE 7C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J3-A	J3-D	A 138	REMOTE NO TEMP ALARM OUTPUT		
J3-A	P1-45	A 139	REMOTE NO TEMP ALARM OUTPUT		
J3-B	P1-57	A 140	REMOTE TEMP ALARM INPUT		
J3-C	J3-F	A 141	REMOTE TEMP ALARM OUTPUT		
J3-D	J3-A	A 138	REMOTE NO TEMP ALARM OUTPUT		
J3-E	P1-51	A 142	REMOTE TEMP ALARM COMMON		
J3-F	J3-C	A 141	REMOTE TEMP ALARM OUTPUT		
J3-G	P1-44	A 143	REMOTE NO POWER ALARM OUTPUT		
J3-H	P1-32	A 145	REMOTE POWER ALARM OUTPUT		
J3-J	P1-38	A 146	REMOTE POWER ALARM COMMON		
J3-N	J20-M	A 147	FAIL IND G/N HI		
J3-P	J8-E	A 79	28 VDC RLP LO		
J3-P	J3-S	A 80	FAIL IND G/N LO		
J3-R	J20-U	A 149	CTR IMU DELAY HI		
J3-S	J3-P	A 80	CTR IMU DELAY LO		
J3-U	J14-C	A 150R	800 CPS 0 DEG, ISS REF HI (BUFF)		
J3-V	J14-D	A 150L	800 CPS 0 DEG, ISS REF LO (BUFF)		

(CONT.) J3 CONNECTOR MS3127E24-61PX FIGURE 7C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J3-W	P1-43	A 151R	COS AMG 1X S3 HI		
J3-X	P1-49	A 151L	COS AMG 1X S3 LO		
J3-Y	P1-28	A 152	GIMBAL LOCK INDICATION		
J3-H*	J17-B	A 153R	800 CPS 28 V 5 PERCENT IMU WHL PH A		
J3-I*	J17-A	A 153L	800 CPS 28 V 5 PERCENT IMU WHL LO		
J3-N*	J21-A	A 154L	IMU FAIL RET		
J3-P*	J21-B	A 154R	IMU FAIL HI		
J3-Q*	J23-B	A 155	IMU FAIL		
J3-S*	P4-T*	A 318	TEMP CONTROL SWITCHOVER ENABLE		
J3-T*	P4-R	A 156	ISS STANDBY LO		
J3-U*	P1-22	A 157	TEMP WITHIN LIMITS		
J3-V*	P4-P	A 158	IMU TEMP LIGHT (MAIN PANEL)		
J3-AA	P4-W	A 159	OPTICS ZERO ENCODER IND		
J3-BB	J27-C	A 160	MARK		
J3-CC	P4-V	A 162	NOT MARK		
J3-JJ	J18-C	A 163	STAR ACQUIRED		
J3-KK	J20-L	A 164	G/N ERROR LIGHT (MAIN PANEL)		
J3-LL	P4-M	A 165	IMU DELAY LIGHT HI		
J3-MM	J20-R	A 166	0 VDC IMU		
J3-NN	J18-A	A 167L	STAR PRESENCE HI		
J3-PP	J18-B	A 167R	STAR PRESENCE LO		

J4 CONNECTOR 1015957-175 FIGURE 9A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J4-A	J6-W	A 197			
J4-B	T1-5	A 291			
J4-C	T1-3	A 292			
J4-J	J23-S	A 198			
J4-X	J6-X	A 194			
J4-Y	P5-DD	A 82	28 VDC RLP LO		

(CONT.) J4 CONNECTOR 1015957-175 FIGURE 9A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J4-Y	T1-4	A 83	28 VDC RLP LO		

J5 CONNECTOR 1015957-173 FIGURE 9R*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J5-A	J11A-Y	A 255			
J5-B	J8-N	A 50	28 VDC G/N POWER LO		
J5-B	P1-8	A 51	28 VDC G/N POWER LO		
J5-S	P1-48	A 181			
J5-S	J11A-X	A 182			
J5-T	J26-A	A 228			
J5-V	J26-B	A 229			
J5-X	J8-K	A 45	28 VDC G/N POWER HI		
J5-Y	P1-2	A 283			
J5-Y	P6-K*	A 284			
J5-Z	P6-M*	A 285			

J6 CONNECTOR 1015957-188 FIGURE 9B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J6-A	J11-L	A 250			
J6-B	J11-M	A 251			
J6-E	J11-N	A 252			
J6-U	J26-D	A 231			
J6-V	J8-J	A 6	GSE SHIELD GROUND BUS		
J6-W	J4-A	A 197			
J6-X	J4-X	A 194			
J6-X	J9-X	A 195			
J6-Y	J9-Y	A 70	28 VDC RLP LO		

J8 CONNECTOR 1015957-167 FIGURE 9D*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J8-C	J11-J	A 249			
J8-D	J11-F	A 247			
J8-E	J11-Y	A 78	28 VDC RLP LO		
J8-E	J3-P	A 79	28 VDC RLP LO		
J8-F	J11-H	A 246			
J8-H	J11-K	A 248			
J8-J	E3	A 5	GSE SHIELD GROUND BUS		
J8-J	J6-V	A 6	GSE SHIELD GROUND BUS		
J8-K	J11A-R	A 44	28 VDC G/N POWER HI		
J8-K	J5-X	A 45	28 VDC G/N POWER HI		
J8-L	J11A-T	A 244			
J8-M	J11A-U	A 245			
J8-N	J11A-W	A 49	28 VDC G/N POWER LO		
J8-N	J5-B	A 50	28 VDC G/N POWER LO		
J8-P	J11A-A	A 99	115 V 60 CPS PHASE A		
J8-R	J11A-J	A 101			
J8-S	J11A-D	A 100	115 V 60 CPS NEUT		

J9 CONNECTOR 1015957-174 FIGURE 9E*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J9-A	J11-P	A 253			
J9-B	J11-R	A 254			
J9-U	J26A-A	A 307			
J9-V	J29-Y	A 308			
J9-W	J26-E	A 232			
J9-X	J6-X	A 195			
J9-X	J20-Z	A 196			
J9-Y	J18-D	A 69	28 VDC RLP LO		
J9-Y	J6-Y	A 70	28 VDC RLP LO		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 32 OF 79

J11 CONNECTOR 1015957-182 FIGURE 9G*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J11-A	J1-J*	A 22R	IMU DUCOSYN EXC MON HI		
J11-B	J1-K*	A 22L	IMU DUCOSYN EXC MON LO		
J11-C	J1-Y*	A 35	DUCOSYN FAIL HI FREQ TEST		
J11-D	J1-Z*	A 36	DUCOSYN FAIL LO FREQ TEST		
J11-E	J1-X*	A 34	DUCOSYN FAIL LO VOLT TEST		
J11-F	J8-D	A 247			
J11-H	J8-F	A 246			
J11-J	J8-C	A 249			
J11-K	J8-H	A 248			
J11-L	J6-A	A 250			
J11-M	J6-B	A 251			
J11-N	J6-E	A 252			
J11-P	J9-A	A 253			
J11-R	J9-B	A 254			
J11-S	J1-JJ	A 95	ALARM TEST RELAY LO		
J11-W	P1-24	A 176			
J11-Y	J14-Y	A 77	28 VDC RLP LO		
J11-Y	J8-E	A 78	28 VDC RLP LO		

J11A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J11A-A	P5-S*	A 98R	115 V 60 CPS PHASE A		
J11A-A	J8-P	A 99	115 V 60 CPS PHASE A		
J11A-B	P5-T*	A 98L	115 V 60 CPS PHASE B		
J11A-C	P5-U*	A 98Y	115 V 60 CPS PHASE C		
J11A-D	P5-Y*	A 98K	115 V 60 CPS NEUT		
J11A-D	J8-S	A 100	115 V 60 CPS NEUT		
J11A-D	J15-D	A 256K	115 V 60 CPS NEUT		
J11A-E	J15-A	A 256R			
J11A-F	J15-B	A 256L			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 33 OF 79

(CONT.) J11A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J11A-H	J15-C	A 256Y			
J11A-J	J8-R	A 101			
J11A-K	J1-W*	A 33	PHASE A FAIL TEST		
J11A-L	J1-V*	A 32	PHASE B FAIL TEST		
J11A-M	J1-U*	A 31	PHASE C FAIL TEST		
J11A-N	J1-BB	A 38	G/N POWER LO TEST		
J11A-P	J1-AA	A 37	G/N POWER HI TEST		
J11A-R	J17-T	A 43	28 VDC G/N POWER HI		
J11A-R	J8-K	A 44	28 VDC G/N POWER HI		
J11A-T	J8-L	A 244			
J11A-U	J8-M	A 245			
J11A-V	J1-I*	A 21	TEST START LIGHT		
J11A-W	J23-Z	A 48	28 VDC G/N POWER LO		
J11A-W	J8-N	A 49	28 VDC G/N POWER LO		
J11A-X	J5-S	A 182			
J11A-X	J20-X	A 183			
J11A-Y	J5-A	A 255			

J14 CONNECTOR 1015957-180 FIGURE 9K*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J14-A	P1-55	A 314R			
J14-B	P1-56	A 314L			
J14-C	J3-U	A 150R	800 CPS 0 DEG, ISS REF HI (BUFF)		
J14-D	J3-V	A 150L	800 CPS 0 DEG, ISS REF LO (BUFF)		
J14-F	P1-34	A 214			
J14-X	C1-2	A 171	28 VDC RLP HI		
J14-X	J18-X	A 172	28 VDC RLP HI		
J14-Y	J17-Y	A 76	28 VDC RLP LO		
J14-Y	J11-Y	A 77	28 VDC RLP LO		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 34 OF 79

J15 CONNECTOR 1015957-183 FIGURE 9Q*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J15-A	J11A-E	A 256R			
J15-B	J11A-F	A 256L			
J15-C	J11A-H	A 256Y			
J15-D	J11A-D	A 256K	115 V 60 CPS NEUT		
J15-E	J29A-D	A 94W	115 V 60 CPS PHASE A PILOT POWER		
J15-V	J26-H	A 234			
J15-W	J26-F	A 233			
J15-X	J30-A	A 54	28 VDC RLP HI		
J15-X	J2-S	A 55	28 VDC RLP HI		
J15-Y	P6-K	A 288			
J15-Z	P6-J	A 289			

J17 CONNECTOR 1015957-176 FIGURE 9C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J17-A	J3-I*	A 153L	800 CPS 28 V 5 PERCENT IMU WHL LO		
J17-B	J3-H*	A 153R	800 CPS 28 V 5 PERCENT IMU WHL PH A		
J17-D	P4-Y	A 209			
J17-E	P1-7	A 319			
J17-R	J20-X	A 306			
J17-S	J2-C*	A 107	MINUS 28 VDC		
J17-T	J11A-R	A 43	28 VDC G/N POWER HI		
J17-T	J23-X	A 312	28 VDC G/N POWER HI		
J17-V	P4-A*	A 211			
J17-W	P4-Z	A 210			
J17-X	P1-29	A 179			
J17-X	J21-X	A 327			
J17-Y	J20-Y	A 75	28 VDC RLP LO		
J17-Y	J14-Y	A 76	28 VDC RLP LO		
J17-Z	J2-D*	A 108	0 VDC IMU		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 35 OF 79

J18 CONNECTOR 1015957-184 FIGURE 9H*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J18-A	J3-NN	A 167L	STAR PRESENCE HI		
J18-B	J3-PP	A 167R	STAR PRESENCE LO		
J18-C	J3-JJ	A 163	STAR ACQUIRED		
J18-D	J18-Y	A 68	28 VDC RLP LO		
J18-D	J9-Y	A 69	28 VDC RLP LO		
J18-F	J18-H	A 199			
J18-F	P4-T	A 200			
J18-H	J18-F	A 199			
J18-X	J14-X	A 172	28 VDC RLP HI		
J18-Y	J21-Y	A 67	28 VDC RLP LO		
J18-Y	J18-D	A 68	28 VDC RLP LO		

J20 CONNECTOR 1015957-179 FIGURE 9P*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J20-A	J1-S	A 11	COOLANT SUPPLY FAIL LAMP		
J20-B	P1-12	A 25	COLD PLATE TEMP NORM		
J20-B	J30-U	A 326	COLD PLATE TEMP NORMAL		
J20-C	J1-C*	A 17	CLS REMOTE ALARM CONTROL		
J20-E	P6-Z	A 218			
J20-J	J29-J	A 219			
J20-K	P6-A*	A 220			
J20-L	J3-KK	A 164	G/N ERROR LIGHT (MAIN PANEL)		
J20-M	J3-N	A 147	FAIL IND G/N HI		
J20-M	P4-B*	A 148	FAIL IND G/N HI		
J20-N	P4-L	A 216			
J20-R	J3-MM	A 166	0 VDC IMU		
J20-S	J2-B*	A 106	WHEEL RUN-UP SIGNAL		
J20-T	P1-18	A 192			
J20-U	J3-R	A 149	CTR IMU DELAY HI		
J20-V	P1-53	A 177			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 36 OF 79

(CONT.) J20 CONNECTOR 1015957-179 FIGURE 9P*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J20-W	P4-K	A 217			
J20-X	J11A-X	A 183			
J20-X	J29-R	A 184			
J20-X	J17-R	A 306			
J20-Y	J23-Y	A 74	28 VDC RLP LO		
J20-Y	J17-Y	A 75	28 VDC RLP LO		
J20-Z	J9-X	A 196			

J21 CONNECTOR 1015957-184 FIGURE 9H*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J21-A	J3-N*	A 154L	IMU FAIL RET		
J21-B	J3-P*	A 154R	IMU FAIL HI		
J21-C	P5-E	A 40	28 VDC G/N POWER HI		
J21-C	P1-39	A 41	28 VDC G/N POWER HI		
J21-D	J23-A	A 206			
J21-F	J21-H	A 204			
J21-F	P4-B	A 205			
J21-H	J21-F	A 204			
J21-X	J24-X	A 174	28 VDC RLP HI		
J21-X	J17-X	A 327			
J21-Y	J24-Y	A 66	28 VDC RLP LO		
J21-Y	J18-Y	A 67	28 VDC RLP LO		

J23 CONNECTOR 1015957-185 FIGURE 9M*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J23-A	J21-D	A 206			
J23-B	J3-Q*	A 155	IMU FAIL		
J23-C	P4-D	A 203			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 37 OF 79

(CONT.) J23 CONNECTOR 1015957-185 FIGURE 9M*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J23-D	J2-X*	A 112	CDU FAIL		
J23-E	P4-J	A 207			
J23-F	J2-W*	A 111	OPTICS/RR CDU FAIL		
J23-M	P4-S	A 212			
J23-N	P1-6	A 213			
J23-P	J1-Z	A 13	27 VDC RLP HI ISS ONLY		
J23-P	J30A-J	A 14	27 VDC RLP HI ISS ONLY		
J23-S	J4-J	A 198			
J23-U	P1-46	A 290			
J23-X	P5-E	A 42	28 VDC G/N POWER HI		
J23-X	J17-T	A 312	28 VDC G/N POWER HI		
J23-Y	P5-EE	A 73	28 VDC RLP LO		
J23-Y	J20-Y	A 74	28 VDC RLP LO		
J23-Z	P5-F	A 47	28 VDC G/N POWER LO		
J23-Z	J11A-W	A 48	28 VDC G/N POWER LO		

J24 CONNECTOR 1015957-184 FIGURE 9H*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J24-A	J2-Y*	A 113L	CDU FAIL RET		
J24-B	J2-Z*	A 113R	CDU FAIL HI		
J24-F	P4-C	A 202			
J24-X	J21-X	A 174	28 VDC RLP HI		
J24-X	J27-X	A 175	28 VDC RLP HI		
J24-Y	J27-D	A 65	28 VDC RLP LO		
J24-Y	J21-Y	A 66	28 VDC RLP LO		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 38 OF 79

J26 CONNECTOR 1015957-181 FIGURE 9J*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J26-A	J5-T	A 228			
J26-B	J5-V	A 229			
J26-C	J29-M	A 230			
J26-D	J6-U	A 231			
J26-E	J9-W	A 232			
J26-F	J15-W	A 233			
J26-H	J15-V	A 234			
J26-J	P6-N	A 241			
J26-K	P6-P	A 242			
J26-P	P6-F*	A 235			
J26-R	P6-H*	A 236			
J26-T	J29-H	A 237			
J26-U	P6-D*	A 238			
J26-V	P6-C*	A 239			
J26-Z	J29-L	A 243			
J26-Z	P1-50	A 279			

J26A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J26A-A	J9-U	A 307			
J26A-R	P6-T	A 313	DUCO SENSOR OVERRIDE		
J26A-Y	J29A-B	A 72	28 VDC RLP LO		

J27 CONNECTOR 1015957-184 FIGURE 9H*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J27-A	J2-U*	A 110L	ACCEL FAIL RET		
J27-B	J2-V*	A 110R	ACCEL FAIL HI		
J27-C	J3-BB	A 160	MARK		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 39 OF 79

(CONT.) J27 CONNECTOR 1015957-184 FIGURE 9H*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J27-C	P4-U	A 161	MARK		
J27-D	J27-Y	A 64	28 VDC RLP LO		
J27-D	J24-Y	A 65	28 VDC RLP LO		
J27-F	P4-H	A 201			
J27-J	J2-X	A 103	REMOTE SINGLE PRINT		
J27-K	J2-Y	A 104	DVM POWER GROUND		
J27-X	J24-X	A 175	28 VDC RLP HI		
J27-Y	J30A-H	A 63	28 VDC RLP LO		
J27-Y	J27-D	A 64	28 VDC RLP LO		

J29 CONNECTOR 1015957-178 FIGURE 9F*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J29-A	P6-U*	A 261			
J29-A	P1-64	A 262			
J29-B	J1-R*	A 28	60 CPS TMC CONDITIONED		
J29-C	J1-S*	A 29	TEMP MON FAIL IND ENABLE		
J29-D	P6-M	A 268			
J29-E	P6-Y	A 269			
J29-F	J30A-B	A 222			
J29-H	J26-T	A 237			
J29-J	J20-J	A 219			
J29-K	J1-P*	A 26	TEMP NORM LO		
J29-L	J26-Z	A 243			
J29-M	J26-C	A 230			
J29-P	J1-G*	A 19	DUCO SENSOR OVERRIDE		
J29-P	P6-T	A 20	DUCO SENSOR OVERRIDE		
J29-R	J20-X	A 184			
J29-R	J30A-F	A 185			
J29-S	P1-59	A 257			
J29-T	P6-R*	A 263			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 40 OF 79

(CONT.) J29 CONNECTOR 1015957-178 FIGURE 9F*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J29-U	P1-62	A 305			
J29-W	P6-B*	A 270			
J29-Y	J9-V	A 308			
J29-Z	P1-17	A 189			
J29-Z	J30A-U	A 190			

J29A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J29A-A	P5-A	A 56	28 VDC RLP HI		
J29A-B	P5-FF	A 71	28 VDC RLP LO		
J29A-B	J26A-Y	A 72	28 VDC RLP LO		
J29A-C	P1-23	A 258			
J29A-D	P5-Z*	A 93	115 V 60 CPS PHASE A PILOT POWER		
J29A-D	J15-E	A 94W	115 V 60 CPS PHASE A PILOT POWER		
J29A-E	P6-N*	A 264			
J29A-F	P1-14	A 265			
J29A-H	P6-P*	A 266			
J29A-H	S9-6	A 267			
J29A-J	P1-5	A 260			
J29A-K	P6-V*	A 259			
J29A-L	P5-P	A 310			
J29A-M	P6-E*	A 311			

J30 CONNECTOR 1015957-187 FIGURE 9N*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J30-A	P5-A	A 53	28 VDC RLP HI		
J30-A	J15-X	A 54	28 VDC RLP HI		
J30-B	J2-FF	A 122	ISS TEST CONFIG IND		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 41 OF 79

(CONT.) J30 CONNECTOR 1015957-187 FIGURE 9N*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J30-B	P6-Z*	A 123	ISS TEST CONFIG IND		
J30-C	J2-GG	A 124	NOT ISS TEST CONFIG IND		
J30-D	J2-JJ	A 127	NOT OSS TEST CONFIG IND		
J30-E	J2-HH	A 125	OSS TEST CONFIG IND		
J30-F	J2-EE	A 120	G/N TEST CONFIG IND		
J30-F	P6-BB	A 121	G/N TEST CONFIG IND		
J30-H	P1-41	A 129	BLK I SERIES 100 IND		
J30-H	P6-EE	A 130	BLK I SERIES 100 IND		
J30-J	P1-47	A 132	NOT BLK I SERIES 100 IND		
J30-K	J2-NN	A 135	NOT BLK II IND		
J30-K	P1-37	A 315	NOT BLK II IND		
J30-L	J2-MM	A 133	BLK II IND		
J30-L	P6-FF	A 134	BLK II IND		
J30-M	J2-PP	A 136	LEM CONFIG IND		
J30-M	P6-HH	A 137	LEM CONFIG IND		
J30-P	J2-E*	A 323	NOT G/N TEST IND		
J30-R	J2-A*	A 324	LORS R AND I TEST CONTROL		
J30-S	P6-AA	A 126	OSS TEST CONFIG IND		
J30-T	P5-R*	A 325			
J30-U	J20-B	A 326	COLD PLATE TEMP NORMAL		

J30A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J30A-A	P1-11	A 221			
J30A-B	J29-F	A 222			
J30A-C	J2-DD	A 118	GSE REF POWER SELECTED		
J30A-C	P6-W*	A 119	GSE REF POWER SELECTED		
J30A-D	J2-CC	A 116	GSE CALIB ENABLED IND		
J30A-D	P6-X*	A 117	GSE CALIB ENABLED IND		
J30A-E	P6-Y*	A 278			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 42 OF 79

(CONT.) J30A CONNECTOR 1015957-166 FIGURE 9S*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J30A-F	J29-R	A 185			
J30A-H	P5-FF	A 62	28 VDC RLP LO		
J30A-H	J27-Y	A 63	28 VDC RLP LO		
J30A-J	J23-P	A 14	27 VDC RLP HI ISS ONLY		
J30A-K	J1-R	A 10	GIMBAL DUMP INDICATION		
J30A-L	J1-A*	A 15	G/N POWER MODES ENABLE		
J30A-M	P1-54	A 224			
J30A-N	P6-CC	A 225			
J30A-P	J2-BB	A 115	CMS 0 VDC		
J30A-R	P1-10	A 226			
J30A-S	J1-P	A 9	GIMBAL DUMP INTERLOCK		
J30A-T	P6-W	A 227			
J30A-U	J29-Z	A 190			
J30A-V	P1-13	A 322			
J30A-W	P1-19	A 321			

J31 (P4) CONNECTOR 1015817-500 FIGURE 10A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
J31-B	XDS11-G	B 3			
J31-C	XDS10-G	B 4			
J31-D	XDS10-H	B 5			
J31-E	XDS9-A	B 6	CGC/LGC POWER FAIL HI		
J31-F	XDS9-G	B 8	CGC/LGC POWER FAIL LO		
J31-H	XDS8-G	B 9			
J31-J	XDS7-G	B 10			
J31-K	XDS24-C	B 11			
J31-L	S1SW1-C	B 13			
J31-M	S1SW1-NC	B 14	IMU DELAY LIGHT HI		
J31-N	XDS23-G	B 15			
J31-P	XDS22-G	B 16	IMU TEMP LIGHT (MAIN PANEL)		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 43 OF 79

(CONT.) A28 K2 RELAY 1015837-001 FIG 11

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K2-15	K3-15	C 104	NOT BLK I SERIES 100 IND		
K2-16	K2-2	C 101	28 VDC RLP LO		
K2-17	K3-17	C 103	BLK I SERIES 100 IND		

A28 K3 RELAY 1015837-001 FIGURE 11

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K3-1	J1-16	C 36	BLK II AND LEM STATUS IND		
K3-1	K2-1	C 109	BLK II AND LEM STATUS IND		
K3-2	K3-16	C 15	28 VDC RLP LO		
K3-2	K8-6	C 102	28 VDC RLP LO		
K3-2	K8-7	C 119	28 VDC RLP LO		
K3-4	K11-2	C 72			
K3-4	J1-26	C 89			
K3-5	J1-12	C 65	COLD PLATE TEMP NORM		
K3-6	J1-22	C 37	TEMP WITHIN LIMITS		
K3-7	J1-6	C 64			
K3-8	K4-5	C 28	28 VDC G/N POWER HI		
K3-9	J1-34	C 39			
K3-10	J1-65	C 63			
K3-11	J1-28	C 38	GIMBAL LOCK INDICATION		
K3-12	J1-59	C 62			
K3-13	TERM.7	C 114			
K3-15	J1-47	C 59	NOT BLK I SERIES 100 IND		
K3-15	K2-15	C 104	NOT BLK I SERIES 100 IND		
K3-16	K3-2	C 15	28 VDC RLP LO		
K3-16	K3-19	C 16	28 VDC RLP LO		
K3-17	K2-17	C 103	BLK I SERIES 100 IND		
K3-17	J1-41	C 58	BLK I SERIES 100 IND		
K3-19	K3-16	C 16	28 VDC RLP LO		
K3-19	K4-11	C 110	28 VDC RLP LO		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR ~~A~~ B	SHEET 48 OF 79

(CONT.) A28 K3 RELAY 1015837-001 FIGURE 11

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K3-20	J1-37	C 111			

A28 K4 RELAY 1015914-001 FIGURE 13

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K4-2	J1-53	C 60			
K4-2	TERM.8	C 115			
K4-3	K10-3	C 41	28 VDC RLP HI		
K4-3	K5-4	C 85	28 VDC RLP HI		
K4-4	K17-A1	C 86			
K4-4	TERM.1	C 87			
K4-5	K11-5	C 27	28 VDC G/N POWER HI		
K4-5	K3-8	C 28	28 VDC G/N POWER HI		
K4-6	J1-35	C 57			
K4-9	J1-29	C 56			
K4-10	J1-63	C 32	28 VDC RLP HI		
K4-10	K11-10	C 33	28 VDC RLP HI		
K4-11	K3-19	C 110	28 VDC RLP LO		
K4-11	TERM.2	C 17	28 VDC RLP LO		

A28 K5 RELAY 1016024-001 FIGURE 25

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K5-1	J1-27	C 22	OIA ON COMMAND		
K5-2	J1-21	C 20	115 V 60 CPS NEUT		
K5-2	K5-7	C 21	115 V 60 CPS NEUT		
K5-3	K11-4	C 83			
K5-4	K11-3	C 25	28 VDC RLP HI		
K5-4	K4-3	C 85	28 VDC RLP HI		
K5-5	J1-36	C 69			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR ~~A~~ B	SHEET 49 OF 79

(CONT.) A28 K5 RELAY 1016024-001 FIGURE 25

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K5-7	K5-2	C 21	115 V 60 CPS NEUT		
K5-8	J1-30	C 68			
K5-9	J1-45	C 29	REMOTE NO TEMP ALARM OUTPUT		
K5-10	J1-51	C 30	REMOTE TEMP ALARM COMMON		
K5-11	J1-57	C 31	REMOTE TEMP ALARM INPUT		
K5-12	J1-4	C 34			
K5-13	J1-10	C 35			
K5-18	J1-44	C 92	REMOTE NO POWER ALARM OUTPUT		
K5-18	K9-1	C 93	REMOTE NO POWER ALARM OUTPUT		
K5-19	J1-38	C 91	REMOTE POWER ALARM COMMON		
K5-20	K9-6	C 95			

A28 K8 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K8-1	J1-62	C 97			
K8-2	DS1-3	C 54			
K8-3	K18-A1	C 120			
K8-5	J1-18	C 66			
K8-6	K2-16	C 102	28 VDC RLP LO		
K8-6	K8-7	C 118	28 VDC RLP LO		
K8-7	K8-6	C 118	28 VDC RLP LO		
K8-7	K3-2	C 119	28 VDC RLP LO		

A28 K9 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K9-1	K5-18	C 93	REMOTE NO POWER ALARM OUTPUT		
K9-3	K10-5	C 96	28 VDC RLP HI		
K9-6	K5-20	C 95			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR ~~A~~ B	SHEET 50 OF 79

(CONT.) A28 K9 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K9-7	J1-50	C 94			
K9-8	J1-32	C 90	REMOTE POWER ALARM OUTPUT		

A28 K10 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K10-1	K10-3	C 42	28 VDC RLP HI		
K10-1	K10-5	C 43	28 VDC RLP HI		
K10-2	DS1-2	C 88			
K10-3	K4-3	C 41	28 VDC RLP HI		
K10-3	K10-1	C 42	28 VDC RLP HI		
K10-4	K10-8	C 45			
K10-5	K10-1	C 43	28 VDC RLP HI		
K10-5	K9-3	C 96	28 VDC RLP HI		
K10-6	J1-23	C 55			
K10-7	K17-X2	C 9	28 VDC RLP LO		
K10-7	K11-11	C 10	28 VDC RLP LO		
K10-8	J1-46	C 44			
K10-8	K10-4	C 45			

A28 K11 RELAY 1015914-001 FIGURE 13

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K11-2	J1-48	C 71			
K11-2	K3-4	C 72			
K11-3	K17-A2	C 24	28 VDC RLP HI		
K11-3	K5-4	C 25	28 VDC RLP HI		
K11-4	K5-3	C 83			
K11-4	TERM.3	C 84			
K11-5	J1-39	C 26	28 VDC G/N POWER HI		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR ~~A~~ B	SHEET 51 OF 79

(CONT.) A28 K11 RELAY 1015914-001 FIGURE 13

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K11-5	K4-5	C 27	28 VDC G/N POWER HI		
K11-6	J1-42	C 70			
K11-9	J1-24	C 67			
K11-10	K4-10	C 33	28 VDC RLP HI		
K11-11	K10-7	C 10	28 VDC RLP LO		
K11-11	K13-7	C 11	28 VDC RLP LO		

A28 K13 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K13-1	K18-A2	C 3	2 SEC TIME DELAY LATCH		
K13-2	K13-7	C 12	28 VDC RLP LO		
K13-2	TERM.4	C 13	28 VDC RLP LO		
K13-3	J1-15	C 18	INITIATE 2 SEC TIME DELAY		
K13-3	K13-6	C 19	INITIATE 2 SEC TIME DELAY		
K13-5	K14-7	C 80			
K13-5	K18-X2	C 81			
K13-6	K13-3	C 19	INITIATE 2 SEC TIME DELAY		
K13-7	K11-11	C 11	28 VDC RLP LO		
K13-7	K13-2	C 12	28 VDC RLP LO		

A28 K14 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K14-2	J1-8	C 77	28 VDC G/N POWER LO		
K14-3	K18-A3	C 82			
K14-4	J1-66	C 75			
K14-5	J1-2	C 76			
K14-6	J1-20	C 79			
K14-7	K13-5	C 80			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 52 OF 79

(CONT.) A28 K14 RELAY 1015802-004 FIGURE 12

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K14-8	J1-14	C 78			

A28 K15 RELAY 1016096-011 FIGURE 15

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K15-A1	TERM.6	C 99			
K15-A2	K15-X1	C 49			
K15-B2	J1-64	C 50			
K15-B3	J1-5	C 51			
K15-X1	J1-58	C 48			
K15-X1	K15-A2	C 49			
K15-X2	J1-9	C 4	28 VDC RLP LO		
K15-X2	K16-X2	C 5	28 VDC RLP LO		

A28 K16 RELAY 1016096-002 FIGURE 15

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K16-A1	J1-11	C 52			
K16-A2	K16-X2	C 6	28 VDC RLP LO		
K16-A2	DS1-1	C 7	28 VDC RLP LO		
K16-X1	J1-52	C 100			
K16-X2	K15-X2	C 5	28 VDC RLP LO		
K16-X2	K16-A2	C 6	28 VDC RLP LO		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 53 OF 79

A28 K17 RELAY 1016096-003 FIGURE 15

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K17-A1	K4-4	C 86			
K17-A2	J1-33	C 23	28 VDC RLP HI		
K17-A2	K11-3	C 24	28 VDC RLP HI		
K17-X1	J1-40	C 40	27 VDC RLP HI ISS OPERATE		
K17-X2	DS1-1	C 8	28 VDC RLP LO		
K17-X2	K10-7	C 9	28 VDC RLP LO		

A28 K18 RELAY 1016096-004 FIGURE 15

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
K18-A1	K8-3	C 120			
K18-A2	K18-X1	C 2	2 SEC TIME DELAY LATCH		
K18-A2	K13-1	C 3	2 SEC TIME DELAY LATCH		
K18-A3	K14-3	C 82			
K18-B1	J1-60	C 74	OIA ON G/N POWER NORMAL		
K18-B2	J1-54	C 73			
K18-X1	J1-3	C 1	2 SEC TIME DELAY LATCH		
K18-X1	K18-A2	C 2	2 SEC TIME DELAY LATCH		
K18-X2	K13-5	C 81			

L1 REACTOR 1016085 FIGURE 14

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
L1-1	P5-C	A 59	28 VDC RLP HI		
L1-1	L1-3	A 60	28 VDC RLP HI		
L1-2	L1-4	A 168	28 VDC RLP HI		
L1-2	C1-2	A 170	28 VDC RLP HI		
L1-3	L1-1	A 60	28 VDC RLP HI		
L1-4	L1-2	A 168	28 VDC RLP HI		
L1-4	P1-63	A 169	28 VDC RLP HI		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 54 OF 79

P1 (A28J1) CONNECTOR 1015818-660 FIGURE 17A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P1-2	J5-Y	A 283			
P1-3	J2-W	A 102	2 SEC TIME DELAY LATCH		
P1-4	J2-AA	A 114	REMOTE LOGIC POWER ON		
P1-5	J29A-J	A 260			
P1-6	J23-N	A 213			
P1-7	J17-E	A 319			
P1-8	J5-B	A 51	28 VDC G/N POWER LO		
P1-9	P5-EE	A 81	28 VDC RLP LO		
P1-10	J30A-R	A 226			
P1-11	J30A-A	A 221			
P1-12	J1-N*	A 24	COLD PLATE TEMP NORM		
P1-12	J20-B	A 25	COLD PLATE TEMP NORM		
P1-13	J30A-V	A 322			
P1-14	J29A-F	A 265			
P1-15	J2-Z	A 105	INITIATE 2 SEC TIME DELAY		
P1-16	J2-T*	A 109	BLK II AND LEM STATUS IND		
P1-17	J29-Z	A 189			
P1-17	P5-H	A 191			
P1-18	J20-T	A 192			
P1-18	P5-J	A 193			
P1-19	P4-X	A 320			
P1-19	J30A-W	A 321			
P1-20	S9-1	A 286			
P1-21	T1-2	A 92	115 V 60 CPS NEUT		
P1-22	J3-U*	A 157	TEMP WITHIN LIMITS		
P1-23	J29A-C	A 258			
P1-24	J11-W	A 176			
P1-25	J1-E*	A 316	COMP POWER ON LAMP		
P1-26	P5-K	A 180			
P1-27	J1-V	A 12W	OIA ON COMMAND		
P1-28	J3-Y	A 152	GIMBAL LOCK INDICATION		
P1-29	J17-X	A 179			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 55 OF 79

(CONT.) P1 (A28J1) CONNECTOR 1015818-660 FIGURE 17A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P1-30	P6-R	A 280			
P1-31	J1-F*	A 317	OPTICS POWER ON LAMP		
P1-32	J3-H	A 145	REMOTE POWER ALARM OUTPUT		
P1-33	P5-C	A 58	28 VDC RLP HI		
P1-34	J14-F	A 214			
P1-35	P5-N	A 187			
P1-36	P6-U	A 281			
P1-37	J30-K	A 315	NOT BLK II IND		
P1-38	J3-J	A 146	REMOTE POWER ALARM COMMON		
P1-39	J21-C	A 41	28 VDC G/N POWER HI		
P1-40	J1-KK	A 96	27 VDC RLP HI ISS OPERATE		
P1-41	J2-KK	A 128	BLK I SERIES 100 IND		
P1-41	J30-H	A 129	BLK I SERIES 100 IND		
P1-42	P5-M	A 188			
P1-43	J3-W	A 151R	COS AMG 1X S3 HI		
P1-44	J3-G	A 143	REMOTE NO POWER ALARM OUTPUT		
P1-45	J3-A	A 139	REMOTE NO TEMP ALARM OUTPUT		
P1-46	BT1-POS	A 277			
P1-46	J23-U	A 290			
P1-47	J2-LL	A 131	NOT BLK I SERIES 100 IND		
P1-47	J30-J	A 132	NOT BLK I SERIES 100 IND		
P1-48	J5-S	A 181			
P1-49	J3-X	A 151L	COS AMG 1X S3 LO		
P1-50	J26-Z	A 279			
P1-51	J3-E	A 142	REMOTE TEMP ALARM COMMON		
P1-52	P6-S*	A 276			
P1-53	J20-V	A 177			
P1-53	P5-L	A 178			
P1-54	J30A-M	A 224			
P1-55	J14-A	A 314R			
P1-56	J14-B	A 314L			
P1-57	J3-B	A 140	REMOTE TEMP ALARM INPUT		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 56 OF 79	

(CONT.) P1 (A28J1) CONNECTOR 1015818-660 FIGURE 17A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P1-58	P6-T*	A 275			
P1-59	J29-S	A 257			
P1-60	J1-D*	A 18	OIA ON G/N POWER NORMAL		
P1-62	J29-U	A 305			
P1-63	L1-4	A 169	28 VDC RLP HI		
P1-64	J29-A	A 262			
P1-65	P4-N	A 215			
P1-66	P6-J*	A 282			

P4 (J31) CONNECTOR 1015818-500 FIGURE 26A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P4-B	J21-F	A 205			
P4-C	J24-F	A 202			
P4-D	J23-C	A 203			
P4-E	J1-B*	A 16	CGC/LGC POWER FAIL HI		
P4-F	J1-T*	A 30	CGC/LGC POWER FAIL LO		
P4-H	J27-F	A 201			
P4-J	J23-E	A 207			
P4-K	J20-W	A 217			
P4-L	J20-N	A 216			
P4-M	J3-LL	A 165	IMU DELAY LIGHT HI		
P4-N	P1-65	A 215			
P4-P	J3-V*	A 158	IMU TEMP LIGHT (MAIN PANEL)		
P4-R	J3-T*	A 156	ISS STANDBY LO		
P4-S	J23-M	A 212			
P4-T	J18-F	A 200			
P4-U	J27-C	A 161	MARK		
P4-V	J3-CC	A 162	NOT MARK		
P4-W	J3-AA	A 159	OPTICS ZERO ENCODER IND		
P4-X	P1-19	A 320			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 57 OF 79	

(CONT.) P4 (J31) CONNECTOR 1015818-500 FIGURE 26A*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P4-Y	J17-D	A 209			
P4-Z	J17-W	A 210			
P4-A*	J17-V	A 211			
P4-B*	J20-M	A 148	FAIL IND G/N HI		
P4-C*	J2-F*	A 293	DSKY SPARE SD444		
P4-D*	J2-G*	A 294	DSKY SPARE SD445		
P4-E*	J2-H*	A 295	CGC/LGC WARNING NO. 1		
P4-H*	J2-J*	A 297	ISS WARNING LIGHT		
P4-J*	J2-K*	A 298	ISS WARNING LMP		
P4-K*	J2-M*	A 299	G/N CAUTION LIGHT		
P4-M*	J2-N*	A 300	COMPUTER STANDBY		
P4-N*	J2-P*	A 301	S IV B CUTOFF		
P4-P*	J2-Q*	A 302	RR AUTO ANGLE ENABLE		
P4-R*	J2-R*	A 303	S IV B INJ SEQ START		
P4-S*	J2-S*	A 304	LR HOVER POS CMD		
P4-T*	J3-S*	A 318	TEMP CONTROL SWITCHOVER ENABLE		

P5 (J32) CONNECTOR 1015818-660 FIGURE 26B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P5-A	J30-A	A 53	28 VDC RLP HI		
P5-A	J29A-A	A 56	28 VDC RLP HI		
P5-B	J1-EE	A 52	28 VDC RLP HI		
P5-C	P1-33	A 58	28 VDC RLP HI		
P5-C	L1-1	A 59	28 VDC RLP HI		
P5-D	J1-CC	A 39	28 VDC G/N POWER HI		
P5-E	J21-C	A 40	28 VDC G/N POWER HI		
P5-E	J23-X	A 42	28 VDC G/N POWER HI		
P5-F	J1-DD	A 46	28 VDC G/N POWER LO		
P5-F	J23-Z	A 47	28 VDC G/N POWER LO		
P5-H	P1-17	A 191			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 58 OF 79	

(CONT.) P5 (J32) CONNECTOR 1015818-660 FIGURE 26B*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P5-J	P1-18	A 193			
P5-K	P1-26	A 180			
P5-L	P1-53	A 178			
P5-M	P1-42	A 188			
P5-N	P1-35	A 187			
P5-P	J29A-L	A 310			
P5-R*	J30-T	A 325			
P5-S*	J11A-A	A 98R	115 V 60 CPS PHASE A		
P5-T*	J11A-B	A 98L	115 V 60 CPS PHASE B		
P5-U*	J11A-C	A 98Y	115 V 60 CPS PHASE C		
P5-V*	J1-NN	A 97R	115 V 60 CPS PHASE A		
P5-W*	J1-LL	A 97L	115 V 60 CPS PHASE B		
P5-X*	J1-MM	A 97Y	115 V 60 CPS PHASE C		
P5-Y*	J1-PP	A 97K	115 V 60 CPS NEUT		
P5-Y*	J11A-D	A 98K	115 V 60 CPS NEUT		
P5-Z*	T1-1	A 91R	115 V 60 CPS PHASE A PILOT POWER		
P5-Z*	J29A-D	A 93	115 V 60 CPS PHASE A PILOT POWER		
P5-AA	J1-GG	A 90R	115 V 60 CPS PHASE A PILOT POWER		
P5-BB	J1-HH	A 90L	115 V 60 CPS NEUT		
P5-BB	T1-2	A 91L	115 V 60 CPS NEUT		
P5-CC	C1-1	A 87	28 VDC RLP LO		
P5-DD	J4-Y	A 82	28 VDC RLP LO		
P5-DD	S9-5	A 84	28 VDC RLP LO		
P5-EE	J23-Y	A 73	28 VDC RLP LO		
P5-EE	P1-9	A 81	28 VDC RLP LO		
P5-FF	J30A-H	A 62	28 VDC RLP LO		
P5-FF	J29A-B	A 71	28 VDC RLP LO		
P5-HH	J1-FF	A 61	28 VDC RLP LO		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 59 OF 79	

P6 (J33) CONNECTOR 1015818-660 FIGURE 26C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P6-J	J15-Z	A 289			
P6-K	J15-Y	A 288			
P6-L	J1-D	A 8	DUCOSYN EXC MON INHIB LAMP HI		
P6-M	J29-D	A 268			
P6-N	J26-J	A 241			
P6-P	J26-K	A 242			
P6-R	P1-30	A 280			
P6-S	J1-Q*	A 27	TEMP CONT LATCH RESET, ENABLE		
P6-T	J29-P	A 20	DUCO SENSOR OVERRIDE		
P6-T	J26A-R	A 313	DUCO SENSOR OVERRIDE		
P6-U	P1-36	A 281			
P6-V	J1-M*	A 23	TMC RESET		
P6-W	J30A-T	A 227			
P6-X	J1-C	A 7	GIMBAL DUMP INHIBIT		
P6-Y	J29-E	A 269			
P6-Z	J20-F	A 218			
P6-A*	J20-K	A 220			
P6-B*	J29-W	A 270			
P6-C*	J26-V	A 239			
P6-D*	J26-U	A 238			
P6-E*	J29A-M	A 311			
P6-F*	J26-P	A 235			
P6-H*	J26-R	A 236			
P6-J*	P1-66	A 282			
P6-K*	J5-Y	A 284			
P6-M*	J5-Z	A 285			
P6-N*	J29A-E	A 264			
P6-P*	J29A-H	A 266			
P6-R*	J29-T	A 263			
P6-S*	P1-52	A 276			
P6-T*	P1-58	A 275			
P6-U*	J29-A	A 261			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 60 OF 79

(CONT.) P6 (J33) CONNECTOR 1015818-660 FIGURE 26C*

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
P6-V*	J29A-K	A 259			
P6-W*	J30A-C	A 119	GSE REF POWER SELECTED		
P6-X*	J30A-D	A 117	GSE CALIB ENABLED IND		
P6-Y*	J30A-E	A 278			
P6-Z*	J30-B	A 123	ISS TEST CONFIG IND		
P6-AA	J30-S	A 126	OSS TEST CONFIG IND		
P6-BB	J30-F	A 121	G/N TEST CONFIG IND		
P6-CC	J30A-N	A 225			
P6-EE	J30-H	A 130	BLK I SERIES 100 IND		
P6-FF	J30-L	A 134	BLK II IND		
P6-HH	J30-M	A 137	LEM CONFIG IND		

S1 SWITCH 1015869-363 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S1SW1-C	J31-L	B 13			
S1SW1-NC	J31-M	B 14	IMU DELAY LIGHT HI		
S1SW1-NO	J32-E	B 56	28 VDC G/N POWER HI		

S2 SWITCH 1015869-362 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S2SW1-C	J33-R*	B 146			
S2SW1-NC	J33-T*	B 148			
S2SW1-NO	J33-S*	B 147			
S2SW2-C	J33-U*	B 149			
S2SW2-NO	J33-V*	B 150			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 61 OF 79

S3 SWITCH 1015869-357 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S3SW1-C	J33-J*	B 139			
S3SW1-NC	J33-M*	B 141			
S3SW1-NO	J33-K*	B 140			

S4 SWITCH 1015869-344 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S4SW1-C	S5SW2-C	B 39	28 VDC RLP HI		
S4SW1-C	XDS25-G	B 40	28 VDC RLP HI		
S4SW1-NO	S6SW2-NO	B 118	DUCO SENSOR OVERRIDE		

S5 SWITCH 1015869-343 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S5SW1-C	S6SW4-C	B 91	115 V 60 CPS NEUT		
S5SW1-NO	S6SW1-NO	B 116	TEMP CONT LATCH RESET, ENABLE		
S5SW2-C	XDS29-B	B 38	28 VDC RLP HI		
S5SW2-C	S4SW1-C	B 39	28 VDC RLP HI		
S5SW2-NO	S6SW3-NO	B 122	TMC RESET		

S6 SWITCH 1015869-745 FIGURE 18

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S6SW1-C	J33-R	B 114			
S6SW1-NO	J33-S	B 115	TEMP CONT LATCH RESET, ENABLE		
S6SW1-NO	S5SW1-NO	B 116	TEMP CONT LATCH RESET, ENABLE		
S6SW2-C	S6SW3-C	B 120			
S6SW2-NO	J33-T	B 117	DUCO SENSOR OVERRIDE		
S6SW2-NO	S4SW1-NO	B 118	DUCO SENSOR OVERRIDE		

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 62 OF 79

(CONT.) S6 SWITCH 1015869-745 FIGURE 18

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S6SW3-C	J33-U	B 119			
S6SW3-C	S6SW2-C	B 120			
S6SW3-NO	J33-V	B 121	TMC RESET		
S6SW3-NO	S5SW2-NO	B 122	TMC RESET		
S6SW4-C	J32-BB	B 90	115 V 60 CPS NEUT		
S6SW4-C	S5SW1-C	B 91	115 V 60 CPS NEUT		
S6SW4-NC	J33-K	B 108			
S6SW4-NO	J33-J	B 107			

S7 SWITCH 1015869-364 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S7SW1-C	S8SW1-C	B 198	28 VDC RLP LO		
S7SW1-C	XDS41-G	B 103	28 VDC RLP LO		
S7SW1-NC	J31-A*	B 30			

S8 SWITCH 1015869-35 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S8SW1-C	J32-HH	B 102	28 VDC RLP LO		
S8SW1-C	S7SW1-C	B 198	28 VDC RLP LO		
S8SW1-NC	J31-Y	B 28			

S9 SWITCH MS35059-23 FIGURE 20

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S9-1	P1-20	A 286			
S9-2	DS47-1	A 287			
S9-4	BT1-NEG	A 85			

SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 63 OF 79

(CONT.) S9 SWITCH MS35059-23 FIGURE 20

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
S9-5	P5-DD	A 84	28 VDC RLP LO		
S9-5	DS47-2	A 86	28 VDC RLP LO		
S9-6	J29A-H	A 267			

SHIELD GROUND

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
SHLD A12	E2	A 12A	GSE SHIELD GROUND BUS		
SHLD A22	E2	A 22A	GSE SHIELD GROUND BUS		
SHLD A90	E2	A 90A	GSE SHIELD GROUND BUS		
SHLD A91	E2	A 91B	GSE SHIELD GROUND BUS		
SHLD A94	E4	A 94B	GSE SHIELD GROUND BUS		
SHLD A110	E3	A 110A	GSE SHIELD GROUND BUS		
SHLD A113	E3	A 113A	GSE SHIELD GROUND BUS		
SHLD A150	E4	A 150A	GSE SHIELD GROUND BUS		
SHLD A151	E4	A 151A	GSE SHIELD GROUND BUS		
SHLD A153	E4	A 153A	GSE SHIELD GROUND BUS		
SHLD A154	E4	A 154A	GSE SHIELD GROUND BUS		
SHLD A167	E4	A 167A	GSE SHIELD GROUND BUS		
SHLD A314	E2	A 314A	GSE SHIELD GROUND BUS		

T1 TRANSFORMER 1016104 FIGURE 21

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
T1-1	P5-Z*	A 91R	115 V 60 CPS PHASE A PILOT POWER		
T1-2	P5-BB	A 91L	115 V 60 CPS NEUT		
T1-2	P1-21	A 92	115 V 60 CPS NEUT		
T1-3	J4-C	A 292			
T1-4	J4-Y	A 83	28 VDC RLP LO		
T1-5	J4-B	A 291			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR xB		SHEET 64 OF 79

A28 TERMINAL BOARD ASSEMBLY 2900323 FIGURE 24

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
TERM.1	K4-4	C 87			
TERM.2	K4-11	C 17	28 VDC RLP LO		
TERM.3	K11-4	C 84			
TERM.4	K13-2	C 13	28 VDC RLP LO		
TERM.5	J1-52	C 98			
TERM.6	K15-A1	C 99			
TERM.7	K3-13	C 114			
TERM.7	TERM.9	C 116			
TERM.8	K4-2	C 115			
TERM.9	TERM.7	C 116			
TERM.9	TERM.11	C 117			
TERM.10	J1-31	C 113	OPTICS POWER ON LAMP		
TERM.11	TERM.9	C 117			
TERM.12	J1-25	C 112	COMP POWER ON LAMP		

XDS1 LIGHT, INDICATOR 1015896-198 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS1-A	XDS2-C	B 52	28 VDC RLP HI		
XDS1-A	XDS1-C	B 53	28 VDC RLP HI		
XDS1-C	XDS1-A	B 53	28 VDC RLP HI		
XDS1-G	J33-HH	B 162	LEM CONFIG IND		

XDS2 LIGHT, INDICATOR 1015896-197 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS2-A	XDS3-C	B 50	28 VDC RLP HI		
XDS2-A	XDS2-C	B 51	28 VDC RLP HI		
XDS2-C	XDS2-A	B 51	28 VDC RLP HI		
XDS2-C	XDS1-A	B 52	28 VDC RLP HI		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR xB		SHEET 65 OF 79

(CONT.) XDS2 LIGHT, INDICATOR 1015896-197 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS2-G	J33-FF	B 161	BLK II IND		

XDS3 LIGHT, INDICATOR 1015896-196 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS3-A	XDS13-C	B 48	28 VDC RLP HI		
XDS3-A	XDS3-C	B 49	28 VDC RLP HI		
XDS3-C	XDS3-A	B 49	28 VDC RLP HI		
XDS3-C	XDS2-A	B 50	28 VDC RLP HI		
XDS3-G	J33-EE	B 160			

XDS4 LIGHT, INDICATOR 1015896-195 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS4-A	J33-CC	B 158	BLK I SERIES 100 IND		
XDS4-A	XDS4-C	B 159	BLK I SERIES 100 IND		
XDS4-C	XDS4-A	B 159	BLK I SERIES 100 IND		
XDS4-G	XDS27-H	B 98	28 VDC RLP LO		

XDS7 LIGHT, INDICATOR 1015896-184 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS7-A	J32-M	B 78			
XDS7-A	XDS7-C	B 79			
XDS7-C	XDS7-A	B 79			
XDS7-G	J31-J	B 10			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR xB		SHEET 66 OF 79

XDS8 LIGHT, INDICATOR 1015896-126 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS8-A	J32-L	B 72			
XDS8-A	XDS8-C	B 73			
XDS8-C	XDS8-A	B 73			
XDS8-C	XDS10-A	B 74			
XDS8-G	J31-H	B 9			

XDS9 LIGHT, INDICATOR 1015896-185 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS9-A	J31-E	B 6	CGC/LGC POWER FAIL HI		
XDS9-A	XDS9-C	B 7	CGC/LGC POWER FAIL HI		
XDS9-C	XDS9-A	B 7	CGC/LGC POWER FAIL HI		
XDS9-G	J31-F	B 8	CGC/LGC POWER FAIL LO		

XDS10 LIGHT, INDICATOR 1015896-182 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS10-A	XDS8-C	B 74			
XDS10-A	XDS10-B	B 75			
XDS10-B	XDS10-A	B 75			
XDS10-B	XDS11-A	B 76			
XDS10-C	J32-N	B 80			
XDS10-C	XDS10-D	B 81			
XDS10-D	XDS10-C	B 81			
XDS10-G	J31-C	B 4			
XDS10-H	J31-D	B 5			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR xB		SHEET 67 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N              PEN NOTE  WIRE CODE

             XDS11   LIGHT, INDICATOR 1015896-121 FIGURE 19

XDS11-A       XDS10-B       B  76
XDS11-A       XDS11-C       B  77
XDS11-C       XDS23-A       B  70
XDS11-C       XDS11-A       B  77
XDS11-G       J31-B         B   3


             XDS12   LIGHT, INDICATOR 1015896-109 FIGURE 19

XDS12-A       J31-B*        B   1  FAIL IND G/N HI
XDS12-A       XDS12-C       B   2  FAIL IND G/N HI
XDS12-C       XDS12-A       B   2  FAIL IND G/N HI
XDS12-G       XDS19-G       B 192  28 VDC RLP LO


             XDS13   LIGHT, INDICATOR 1015896-776 FIGURE 19

XDS13-A       XDS14-C       B  46  28 VDC RLP HI
XDS13-A       XDS13-C       B  47  28 VDC RLP HI
XDS13-C       XDS13-A       B  47  28 VDC RLP HI
XDS13-C       XDS3-A        B  48  28 VDC RLP HI
XDS13-G       J33-BB        B 157  G/N TEST CONFIG IND


             XDS14   LIGHT, INDICATOR 1015896-200 FIGURE 19

XDS14-A       XDS15-C       B  44  28 VDC RLP HI
XDS14-A       XDS14-C       B  45  28 VDC RLP HI
XDS14-C       XDS14-A       B  45  28 VDC RLP HI
```

SIZE A | CODE IDENT NO. 99974 | 2901466

SCALE-NONE | REV LTR ✗B | SHEET 68 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N              PEN NOTE  WIRE CODE

 (CONT.) XDS14   LIGHT, INDICATOR 1015896-200 FIGURE 19

XDS14-C       XDS13-A       B  46  28 VDC RLP HI
XDS14-G       J33-AA        B 156  OSS TEST CONFIG IND


             XDS15   LIGHT, INDICATOR 1015896-184 FIGURE 19

XDS15-A       XDS16-G       B  42  28 VDC RLP HI
XDS15-A       XDS15-C       B  43  28 VDC RLP HI
XDS15-C       XDS15-A       B  43  28 VDC RLP HI
XDS15-C       XDS14-A       B  44  28 VDC RLP HI
XDS15-G       J33-Z*        B 155  ISS TEST CONFIG IND


             XDS16   LIGHT, INDICATOR 1015896-777 FIGURE 19

XDS16-A       J33-Y*        B 153
XDS16-A       XDS16-B       B 154
XDS16-B       XDS16-A       B 154
XDS16-C       J33-X*        B 152  GSE CALIB ENABLED IND
XDS16-D       J33-W*        B 151  GSE REF POWER SELECTED
XDS16-G       XDS25-G       B  41  28 VDC RLP HI
XDS16-G       XDS15-A       B  42  28 VDC RLP HI
XDS16-G       XDS17-C       B 202  28 VDC RLP HI
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SIZE A | CODE IDENT NO. 99974 | 2901466

SCALE-NONE | REV LTR ✗B | SHEET 69 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N              PEN NOTE  WIRE CODE

             XDS17   LIGHT, INDICATOR 1015896-793 FIGURE 19

XDS17-A       XDS25-G       B  41  28 VDC RLP HI
XDS17-A       XDS17-C       B 201  28 VDC RLP HI
XDS17-C       XDS17-A       B 201  28 VDC RLP HI
XDS17-C       XDS16-G       B 202  28 VDC RLP HI
XDS17-G       J32-R*        B 200


             XDS19   LIGHT, INDICATOR 1015896-793 FIGURE 19

XDS19-A       J31-E*        B 167  CGC/LGC WARNING NO. 1
XDS19-A       XDS19-B       B 168  CGC/LGC WARNING NO. 1
XDS19-B       XDS19-A       B 168  CGC/LGC WARNING NO. 1
XDS19-C       J31-F*        B 169  CGC/LGC WARNING NO. 2
XDS19-C       XDS19-D       B 170  CGC/LGC WARNING NO. 2
XDS19-D       XDS19-C       B 170  CGC/LGC WARNING NO. 2
XDS19-G       XDS20-G       B 191  28 VDC RLP LO
XDS19-G       XDS12-G       B 192  28 VDC RLP LO


             XDS20   LIGHT, INDICATOR 1015896-792 FIGURE 19

XDS20-A       J31-H*        B 171  ISS WARNING LIGHT
XDS20-A       XDS20-B       B 172  ISS WARNING LIGHT
XDS20-B       XDS20-A       B 172  ISS WARNING LIGHT
XDS20-C       J31-J*        B 173  ISS WARNING LMP
XDS20-C       XDS20-D       B 174  ISS WARNING LMP
XDS20-D       XDS20-C       B 174  ISS WARNING LMP
XDS20-G       XDS21-G       B 190  28 VDC RLP LO
XDS20-G       XDS19-G       B 191  28 VDC RLP LO
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SIZE A | CODE IDENT NO. 99974 | 2901466

SCALE-NONE | REV LTR ✗B | SHEET 70 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N              PEN NOTE  WIRE CODE

             XDS21   LIGHT, INDICATOR 1015869-791 FIGURE 19

XDS21-A       J31-K*        B 175  G/N CAUTION LIGHT
XDS21-A       XDS21-C       B 176  G/N CAUTION LIGHT
XDS21-C       XDS21-A       B 176  G/N CAUTION LIGHT
XDS21-G       XDS24-G       B 106  28 VDC RLP LO
XDS21-G       XDS20-G       B 190  28 VDC RLP LO


             XDS22   LIGHT, INDICATOR 1015869-781 FIGURE 19

XDS22-A       XDS22-B       B  69
XDS22-A       J31-T*        B 199  TEMP CONTROL SWITCHOVER ENABLE
XDS22-B       XDS22-A       B  69
XDS22-C       J31-R         B  17  ISS STANDBY LO
XDS22-C       XDS22-D       B  18  ISS STANDBY LO
XDS22-D       XDS22-C       B  18  ISS STANDBY LO
XDS22-G       J31-P         B  16  IMU TEMP LIGHT (MAIN PANEL)
XDS22-H       J31-S         B  19


             XDS23   LIGHT, INDICATOR 1015869-782 FIGURE 19

XDS23-A       XDS11-C       B  70
XDS23-A       XDS23-C       B  71
XDS23-C       XDS23-A       B  71
XDS23-G       J31-N         B  15
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SIZE A | CODE IDENT NO. 99974 | 2901466

SCALE-NONE | REV LTR ✗B | SHEET 71 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  WIRE CODE

            XDS24   LIGHT, INDICATOR 1015869-363 FIGURE 16

XDS24-C       J31-K          B  11
XDS24-C       XDS24-D        B  12
XDS24-D       XDS24-C        B  12
XDS24-G       XDS33-G        B 105  28 VDC RLP LO
XDS24-G       XDS21-G        B 106  28 VDC RLP LO


            XDS25   LIGHT, INDICATOR 1015869-368 FIGURE 16

XDS25-A       J33-N*         B 142
XDS25-A       XDS25-B        B 143
XDS25-B       XDS25-A        B 143
XDS25-C       J33-P*         B 144
XDS25-C       XDS25-D        B 145
XDS25-D       XDS25-C        B 145
XDS25-G       S4SW1-C        B  40  28 VDC RLP HI
XDS25-G       XDS17-A        B  41  28 VDC RLP HI


            XDS26   LIGHT, INDICATOR 1015869-387 FIGURE 16

XDS26-A       J32-K          B  62
XDS26-A       XDS26-B        B  63
XDS26-B       XDS26-A        B  63
XDS26-C       J33-H*         B 138
XDS26-D       J33-F*         B 137
XDS26-G       J33-F*         B 136
XDS26-H       J32-J          B  61
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SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 72 OF 79

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  WIRE CODE

            XDS27   LIGHT, INDICATOR 1015869-344 FIGURE 16

XDS27-A       J33-B*         B 132
XDS27-A       XDS27-B        B 133
XDS27-B       XDS27-A        B 133
XDS27-C       J33-D*         B 135
XDS27-D       J33-C*         B 134
XDS27-G       XDS28-G        B  96  28 VDC RLP LO
XDS27-G       XDS27-H        B  97  28 VDC RLP LO
XDS27-H       XDS27-G        B  97  28 VDC RLP LO
XDS27-H       XDS4-G         B  98  28 VDC RLP LO


            XDS28   LIGHT, INDICATOR 1015869-186 FIGURE 19

XDS28-A       J33-Z          B 128
XDS28-A       XDS28-B        B 129
XDS28-B       XDS28-A        B 129
XDS28-C       J33-A*         B 130
XDS28-C       XDS28-D        B 131
XDS28-D       XDS28-C        B 131
XDS28-G       XDS35-G        B  95  28 VDC RLP LO
XDS28-G       XDS27-G        B  96  28 VDC RLP LO


            XDS29   LIGHT, INDICATOR 1015869-343 FIGURE 16

XDS29-A       XDS36-B        B  36  28 VDC RLP HI
XDS29-A       XDS29-B        3  37  28 VDC RLP HI
XDS29-B       XDS29-A        B  37  28 VDC RLP HI
XDS29-B       S5SW2-C        B  38  28 VDC RLP HI
XDS29-C       XDS29-D        B  60
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SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 73 OF 79

MIL 2084 9-65

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  WIRE CODE

 (CONT.) XDS29   LIGHT, INDICATOR 1015869-343 FIGURE 16

XDS29-C       J32-P          B 197
XDS29-D       XDS29-C        B  60
XDS29-G       J33-Y          B 127


            XDS32   LIGHT, INDICATOR 1015869-177 FIGURE 19

XDS32-A       J31-W          B  25
XDS32-A       XDS32-C        B  26
XDS32-C       XDS32-A        B  26
XDS32-G       XDS33-G        B 104  28 VDC RLP LO
XDS32-G       XDS44-G        B 193  28 VDC RLP LO


            XDS33   LIGHT, INDICATOR 1015869-178 FIGURE 19

XDS33-A       J31-U          B  21  MARK
XDS33-A       XDS33-B        B  22  MARK
XDS33-B       XDS33-A        B  22  MARK
XDS33-C       J31-V          B  23  NOT MARK
XDS33-C       XDS33-D        B  24  NOT MARK
XDS33-D       XDS33-C        B  24  NOT MARK
XDS33-G       XDS32-G        B 104  28 VDC RLP LO
XDS33-G       XDS24-G        B 105  28 VDC RLP LO
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SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 74 OF 79

MIL 2084 9-65

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  FROM          TO         LEAD NO   C I R C U I T   F U N C T I O N          PEN NOTE  WIRE CODE

            XDS34   LIGHT, INDICATOR 1015869-176 FIGURE 19

XDS34-A       XDS34-C        B  67
XDS34-A       XDS46-C        B 196
XDS34-C       XDS34-A        B  67
XDS34-G       J31-T          B  20


            XDS35   LIGHT, INDICATOR 1015869-194 FIGURE 19

XDS35-A       J33-W          B 123
XDS35-A       XDS35-B        B 124
XDS35-B       XDS35-A        B 124
XDS35-C       J33-X          B 125  GIMBAL DUMP INHIBIT
XDS35-C       XDS35-D        B 126  GIMBAL DUMP INHIBIT
XDS35-D       XDS35-C        B 126  GIMBAL DUMP INHIBIT
XDS35-G       XDS37-G        B  94  28 VDC RLP LO
XDS35-G       XDS28-G        B  95  28 VDC RLP LO


            XDS36   LIGHT, INDICATOR 1015869-745 FIGURE 19

XDS36-A       J32-C          B  34  28 VDC RLP HI
XDS36-A       XDS36-B        B  35  28 VDC RLP HI
XDS36-B       XDS36-A        B  35  28 VDC RLP HI
XDS36-B       XDS29-A        B  36  28 VDC RLP HI
XDS36-C       J33-P          B 113
XDS36-D       J33-N          B 112
XDS36-G       J33-M          B 111
XDS36-H       J32-H          B  58
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SIZE	CODE IDENT NO.	
A	99974	2901466
SCALE-NONE	REV LTR B	SHEET 75 OF 79

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XDS37 LIGHT, INDICATOR 1015896-193 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS37-A	J33-L	B 109	DUCOSYN EXC MON INHIB LAMP HI		
XDS37-A	XDS37-C	B 110	DUCOSYN EXC MON INHIB LAMP HI		
XDS37-C	XDS37-A	B 110	DUCOSYN EXC MON INHIB LAMP HI		
XDS37-G	J32-CC	B 93	28 VDC RLP LO		
XDS37-G	XDS35-G	B 94	28 VDC RLP LO		

XDS41 LIGHT, INDICATOR 1015896-787 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS41-A	J31-C*	B 163	DSKY SPARE SD444		
XDS41-A	XDS41-B	B 164	DSKY SPARE SD444		
XDS41-B	XDS41-A	B 164	DSKY SPARE SD444		
XDS41-C	J31-D*	B 165	DSKY SPARE SD445		
XDS41-C	XDS41-D	B 166	DSKY SPARE SD445		
XDS41-D	XDS41-C	B 166	DSKY SPARE SD445		
XDS41-G	S7SW1-C	B 103	28 VDC RLP LO		
XDS41-G	XDS42-G	B 187	28 VDC RLP LO		

XDS42 LIGHT, INDICATOR 1015896-788 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS42-A	J31-M*	B 177	COMPUTER STANDBY		
XDS42-A	XDS42-C	B 178	COMPUTER STANDBY		
XDS42-C	XDS42-A	B 178	COMPUTER STANDBY		
XDS42-G	XDS41-G	B 187	28 VDC RLP LO		
XDS42-G	XDS43-G	B 188	28 VDC RLP LO		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 76 OF 79	

XDS43 LIGHT, INDICATOR 1015896-789 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS43-A	J31-R*	B 183	S IV B INJ SEQ START		
XDS43-A	XDS43-B	B 184	S IV B INJ SEQ START		
XDS43-B	XDS43-A	B 184	S IV B INJ SEQ START		
XDS43-C	J31-S*	B 185	LR HOVER POS CMD		
XDS43-C	XDS43-D	B 186	LR HOVER POS CMD		
XDS43-D	XDS43-C	B 186	LR HOVER POS CMD		
XDS43-G	XDS42-G	B 188	28 VDC RLP LO		
XDS43-G	XDS44-G	B 189	28 VDC RLP LO		

XDS44 LIGHT, INDICATOR 1015896-790 FIGURE 19

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS44-A	J31-N*	B 179	S IV B CUTOFF		
XDS44-A	XDS44-B	B 180	S IV B CUTOFF		
XDS44-B	XDS44-A	B 180	S IV B CUTOFF		
XDS44-C	J31-P*	B 181	RR AUTO ANGLE ENABLE		
XDS44-C	XDS44-D	B 182	RR AUTO ANGLE ENABLE		
XDS44-D	XDS44-C	B 182	RR AUTO ANGLE ENABLE		
XDS44-G	XDS43-G	B 189	28 VDC RLP LO		
XDS44-G	XDS32-G	B 193	28 VDC RLP LO		

XDS45 LIGHT, INDICATOR 1015896-364 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS45-A	J32-K	B 64			
XDS45-A	XDS45-C	B 65			
XDS45-C	XDS45-A	B 65			
XDS45-C	XDS46-A	B 194			
XDS45-G	J31-Z	B 29			

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 77 OF 79	

XDS46 LIGHT, INDICATOR 1015896-365 FIGURE 16

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XDS46-A	XDS45-C	B 194			
XDS46-A	XDS46-C	B 195			
XDS46-C	XDS46-A	B 195			
XDS46-C	XDS34-A	B 196			
XDS46-G	J31-X	B 27			

XF1 FUSE HOLDER 1015873-008 FIGURE 22

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF1-1	J32-A	B 31	28 VDC RLP HI		
XF1-1	J32-C	B 33	28 VDC RLP HI		
XF1-2	J32-B	B 32	28 VDC RLP HI		

XF2 FUSE HOLDER 1015873-008 FIGURE 22

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF2-1	J32-E	B 55	28 VDC G/N POWER HI		
XF2-2	J32-D	B 54	28 VDC G/N POWER HI		

XF3 FUSE HOLDER 1015873-001 FIGURE 23

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF3-1	J32-U*	B 84	115 V 60 CPS PHASE C		
XF3-2	J32-X*	B 87	115 V 60 CPS PHASE C		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 78 OF 79	

XF4 FUSE HOLDER 1015873-001 FIGURE 23

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF4-1	J32-T*	B 83	115 V 60 CPS PHASE B		
XF4-2	J32-W*	B 86	115 V 60 CPS PHASE B		

XF5 FUSE HOLDER 1015873-001 FIGURE 23

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF5-1	J32-S*	B 82	115 V 60 CPS PHASE A		
XF5-2	J32-V*	B 85	115 V 60 CPS PHASE A		

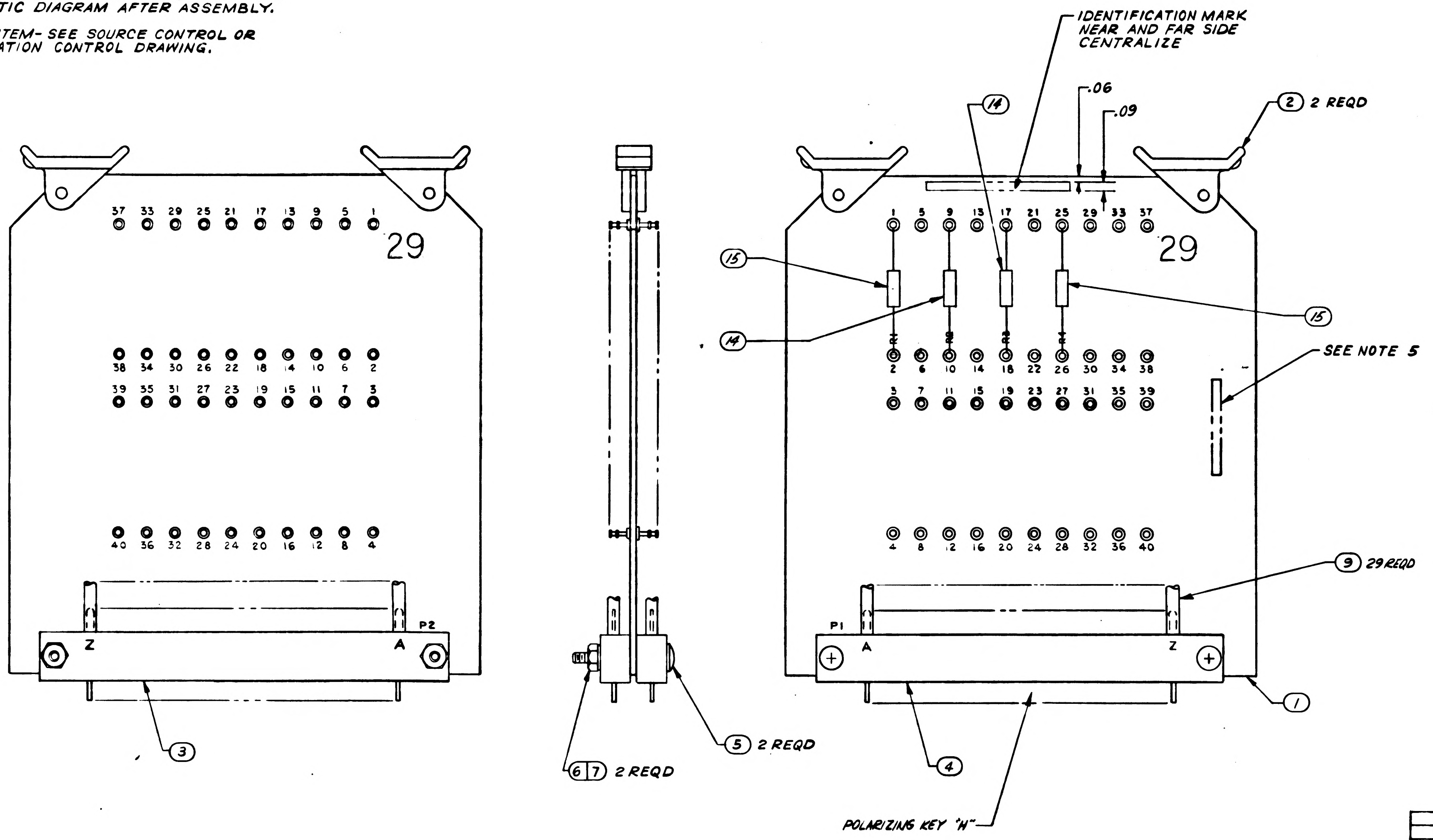
XF6 FUSE HOLDER 1015873-001 FIGURE 23

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	WIRE CODE
XF6-1	J32-Z*	B 88	115 V 60 CPS PHASE A PILOT POWER		
XF6-2	J32-AA	B 89	115 V 60 CPS PHASE A PILOT POWER		

SIZE	CODE IDENT NO.		
A	99974	2901466	
SCALE-NONE	REV LTR B	SHEET 79 OF 79	

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND1002071 USING ITEM ⑩ OR ⑪ AND ⑫.
3. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
4. SERIALIZE PER ND1002023.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NO. PER ND 1002019, .09 HIGH, COLOR BLACK IN LOCATION SHOWN.
6. CHECK CONTINUITY AND RESISTANCE PER SCHEMATIC DIAGRAM AFTER ASSEMBLY.
7. VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28672		3 MAY 66	JHP / EF


IDENTIFICATION MARK NEAR AND FAR SIDE CENTRALIZE
.06
.09
⑭
② 2 REQD
29
29
37 33 29 25 21 17 13 9 5 1
38 34 30 26 22 18 14 10 6 2
39 35 31 27 23 19 15 11 7 3
40 36 32 28 24 20 16 12 8 4
1 5 9 13 17 21 25 29 33 37
2 6 10 14 18 22 26 30 34 38
3 7 11 15 19 23 27 31 35 39
4 8 12 16 20 24 28 32 36 40
⑮
⑭
⑮
SEE NOTE 5
⑨ 29 REQD
P2
Z
A
P1
A
Z
③
⑥⑦ 2 REQD
⑤ 2 REQD
④
①
POLARIZING KEY "H"

SEE NOTE 7

SEE NOTE 7

			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			2		15	RN60B3012F	(1896977-431) RESISTOR MIL-R-10509/1
			2		14	RN60B2002F	(1896977-414) RESISTOR MIL-R-10509/1
			X		13	2901479	SCHEMATIC DIAGRAM, ELECT
			AR		12	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
			AR		11	SN 60 WS	SOLDER QQ-S-571 (ES2175-1)
			AR		10	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
			29		9	1015864-109	INSULATION-SLEEVING, ELECT
			1		8	2901477	LEAD SET A A, ELECTRICAL
			2		7	MS35333-70	WASHER, LOCK INT TOOTH
			2		6	AN340C4	(1896988-041) NUT-PLAIN HEX
			2		5	MS35216-20	SCREW, PAN HEAD
			1		4	1015956-173	CONNECTOR, ADAPTER ELEC
			1		3	1015956-166	CONNECTOR, ADAPTER ELEC
			2		2	1015999-001	EJECTOR, CIRCUIT BOARD
			1		1	2901478	TERMINAL BOARD (INSEP ASSY)
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901034-011	2900895-011	-011
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN DATE 13 APR 66
CHECKED C. Pinda 20 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APP

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT BOARD ASSEMBLY-NO. 29

SIZE E
CODE IDENT NO. 99974
2901476
SCALE 2/1
SHEET 1 OF 1

APPLICATION	
NEXT ASSY	USED ON
2901476-011	2901039-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 28672	3 MAY 66	JHP EF

20 APR 66

REV								
SHEET								
REV STATUS OF SHEETS	REV		A	A	A	A	A	A
	SHEET		1	2	3	4	5	6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN 13 APR 66 (DAY MO YR)
CHECKER Projda 20 APR 66
ENGINEER G. Yohe 20Apr66
APPROVAL
CONTR NO.
NASA APPROVAL 5/5/66
MIT APPROVAL 5/1/66

LEAD SET "A-A"
ELECTRICAL - NO. 29

SIZE	CODE IDENT. NO	
A	99974	2901477
SCALE NONE		SHEET 1 OF 6

MIL 1377A6 12-65

LEAD SET AA ▼ 2901477 A

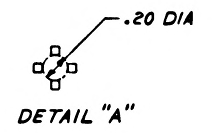
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	1	1.50	P2-P TERM.24					.25 .25	YES YES			
AA 26	1	1.50	P2-R TERM.24					.25 .25	YES YES			
AA 27	1	1.50	P2-S TERM.28					.25 .25	YES YES			
AA 28	1	1.50	P2-T TERM.28					.25 .25	YES YES			

SIZE A	CODE IDENT NO. 99974	2901477
SCALE-NONE	REV LTR A	SHEET 6 OF 6

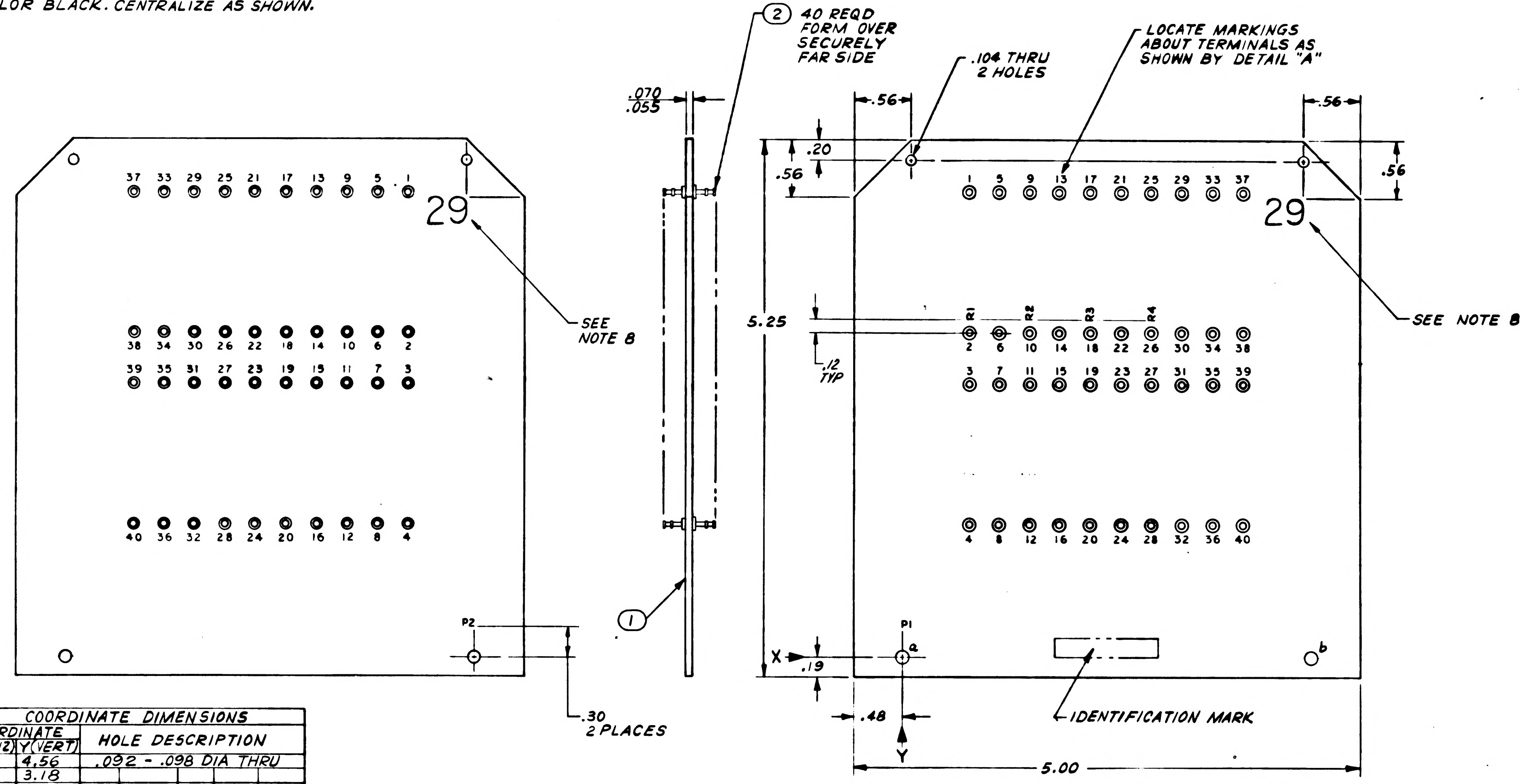
MIL 2084 9-65

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: LAMINATED GLASS CLOTH EPOXY RESIN MIL-P-18177 TYPE GEE (ES2744-1)
3. MUST BE FREE FROM BURRS & SHARP EDGES.
4. HOLE DESIGNATIONS a & b ARE FOR MANUFACTURING REFERENCE.
5. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES 267).
6. MARK CHARACTERS PER ND 1002019, .06 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
7. ARROW INDICATES DIRECTION OF POSITIVE (+) DIMENSION.
8. MARK CHARACTERS PER ND 1002019, .25 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.



DETAIL "A"


② 40 REQD FORM OVER SECURELY FAR SIDE
.104 THRU 2 HOLES
LOCATE MARKINGS ABOUT TERMINALS AS SHOWN BY DETAIL "A"
.070
.055
.56
.56
.20
.56
.56
5.25
.12 TYP
29
29
SEE NOTE 8
SEE NOTE 8
37 33 29 25 21 17 13 9 5 1
38 34 30 26 22 18 14 10 6 2
39 35 31 27 23 19 15 11 7 3
40 36 32 28 24 20 16 12 8 4
1 5 9 13 17 21 25 29 33 37
R1 R2 R3 R4
2 6 10 14 18 22 26 30 34 38
3 7 11 15 19 23 27 31 35 39
4 8 12 16 20 24 28 32 36 40
①
P2
P1
a
b
X
Y
.19
.48
.30 2 PLACES
IDENTIFICATION MARK
5.00

COORDINATE DIMENSIONS			
HOLE NO.	COORDINATE X (HORIZ)	COORDINATE Y (VERT)	HOLE DESCRIPTION
1	.66	4.56	.092 - .098 DIA THRU
2		3.18	
3		2.68	
4	.66	1.30	
5	.96	4.56	
6		3.18	
7		2.68	
8	.96	1.30	
9	1.26	4.56	
10		3.18	
11		2.68	
12	1.26	1.30	
13	1.56	4.56	
14		3.18	
15		2.68	
16	1.56	1.30	
17	1.86	4.56	
18		3.18	
19		2.68	
20	1.86	1.30	
21	2.16	4.56	
22		3.18	
23		2.68	
24	2.16	1.30	
25	2.46	4.56	
26		3.18	
27		2.68	
28	2.46	1.30	
29	2.76	4.56	
30		3.18	
31		2.68	
32	2.76	1.30	
33	3.06	4.56	
34		3.18	
35		2.68	
36	3.06	1.30	
37	3.36	4.56	
38		3.18	
39		2.68	
40	3.36	1.30	.092 - .098 DIA THRU
a	.000	.000	.123 - .130 THRU
b	4.031	.000	.123 - .130 THRU

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28572		[illegible] 66	[illegible]

SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	40	MS17157-6	TERMINAL, STUD FEED THRU
1	1	2901478-001	TERMINAL BOARD

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901476-011	2901434-011

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN [illegible] DATE 13 APR 66
CHECKED C. Pirola 20 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD-NO. 29
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901478
SCALE 2:1
SHEET 1 OF 1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY
3. UNLESS OTHERWISE SPECIFIED:
   A. VALUES ARE IN OHMS.
4. DRAWINGS FOR REFERENCE:
   2901476-011 COMPONENT BOARD ASSEMBLY
   2901477 LEAD SET "A-A", ELECTRICAL

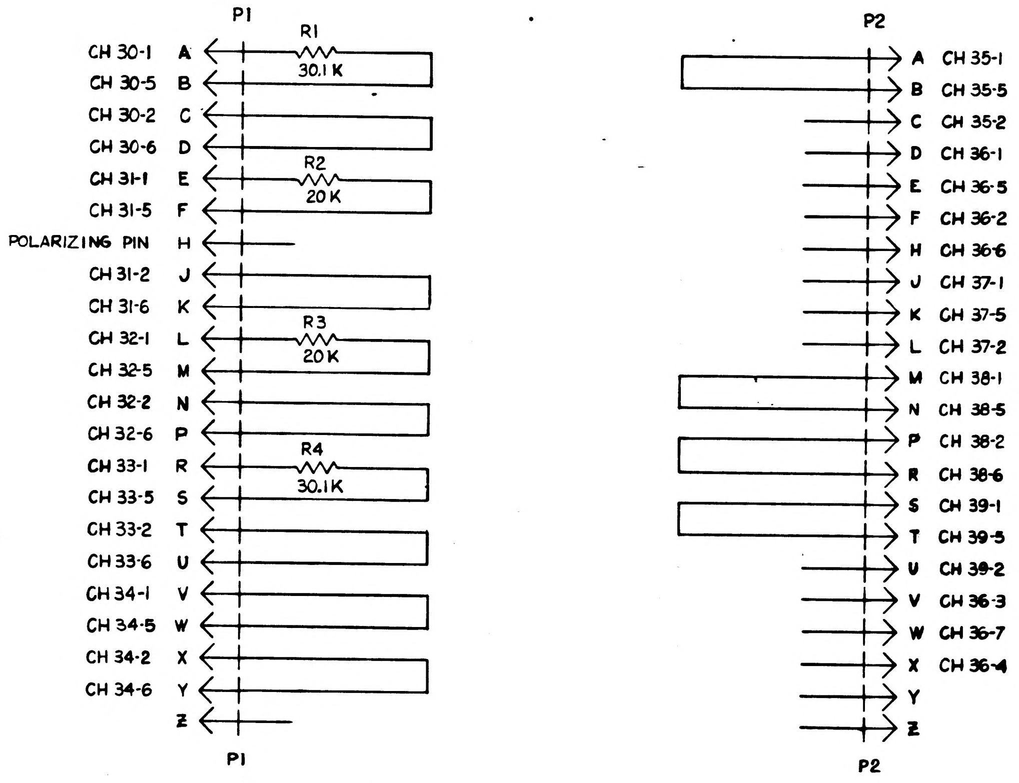
REF DESIG	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING
P1	1015956-173	CONNECTOR	
P2	1015956-166	CONNECTOR	
R1	RN60B3012F	RESISTOR MIL-R-10509/1	30.1 K
R2	RN60B2002F	|	20 K
R3	RN60B2002F	|	20 K
R4	RN60B3012F	RESISTOR MIL-R-10509/1	30.1 K

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28672		3 MAY 66	EF

UNUSED TERMINALS

REF DESIG	TERMINAL NO'S
P1	Z
P2	C,D,E,F,H,J,K,L,U,V,W,X,Y,Z



P1
R1
30.1 K
R2
20 K
R3
20 K
R4
30.1K
CH 30-1 A
CH 30-5 B
CH 30-2 C
CH 30-6 D
CH 31-1 E
CH 31-5 F
POLARIZING PIN H
CH 31-2 J
CH 31-6 K
CH 32-1 L
CH 32-5 M
CH 32-2 N
CH 32-6 P
CH 33-1 R
CH 33-5 S
CH 33-2 T
CH 33-6 U
CH 34-1 V
CH 34-5 W
CH 34-2 X
CH 34-6 Y
Z
P1
P2
A CH 35-1
B CH 35-5
C CH 35-2
D CH 36-1
E CH 36-5
F CH 36-2
H CH 36-6
J CH 37-1
K CH 37-5
L CH 37-2
M CH 38-1
N CH 38-5
P CH 38-2
R CH 38-6
S CH 39-1
T CH 39-5
U CH 39-2
V CH 36-3
W CH 36-7
X CH 36-4
Y
Z
P2

2901476-011	2901039-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 13 APR 66
CHECKED C. Pizzola 18 Apr 66
APPROVAL
CONTRACT
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM ELECTRICAL
COMPONENT BOARD
ASSEMBLY NO. 29

SIZE E
CODE IDENT NO. 99974
2901479
SCALE —
SHEET 1 OF 1

APPLICATION	
NEXT ASSY	USED ON
2 00712-031	2900712-031

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER D.O. 61958	26 APR 66	JJJ RWH
B	INITIAL RELEASE CLASS A PER TDRR 28759	4-MAY-66	B. CP

Charleston 18 APR 66

REV																
SHEET																
REV STATUS OF SHEETS	REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
D.O. 61904

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN Janowiak 14 APR 66 (DAY MO YR)
CHECKER Piojda 18 APR 66
ENGINEER C W Wise 18 APR 66
APPROVAL J. M. Watson 5-5-66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL 5/2/66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, W149

SIZE A
CODE IDENT. NO 99974
2901485
SCALE NONE
SHEET 1 OF 14

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER-
A - ND1002071
B - ND1002032

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 APPLY LEAD IDENTIFICATIONS PER ND 1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.

4 APPLY LEAD IDENTIFICATIONS PER ND 1002019.

5 APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019

6 APPLY LEAD IDENTIFICATION TO SLEEVES OF ALL MULTI-LEADS PER ND1002019.

7 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

9 ITEM 5 FURNISHED WITH ITEM 3.

10 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER.
A - FROM END SHIELD
B - TO END SHIELD
L - WHITE WITH BLUE TRACER
R - WHITE WITH RED TRACER.
Y - WHITE WITH YELLOW TRACER

11 FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 19 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP

12 IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

13 SECURE TO CABLE USING ITEM 18. MARKING TO READ AWAY FROM CONNECTOR

SIZE A	CODE IDENT NO. 99974	2901485
SCALE-NONE	REV LTR B★	SHEET 2 OF 14

NOTE GENERAL NOTES

NUMBER DESCRIPTION

14 SERIALIZE PER ND1002023

15 MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 HIGH, COLOR BLACK, PER ND1002019. CENTRALIZE.

16 LOCATE ITEM 14 ADJACENT TO ITEMS 9 AND 10, AND ITEM 13 ADJACENT TO ITEM 10.

17 ASSEMBLE PER ND1002032

18 ZIPPER TUBING SHALL HAVE Z TRACK

19 SECURE LEADS IN STRAIN RELIEF CLAMP IN THE FOLLOWING MANNER SPOT TIE LEADS IN GROUPS OF APPROXIMATELY 10 TO 20 LEADS EACH ADJACENT TO STRAIN RELIEF CLAMP. WRAP WIRE BUNDLE USING ITEM 23 TO PROTECT WIRES FROM ABRASION. WRAP WIRE BUNDLE USING ITEM 19, AS REQUIRED, TO FIRMLY SECURE ALL LEADS IN STRAIN RELIEF CLAMP. SPOT TIE THE CABLE BUNDLE, USING ITEM 18, ADJACENT TO CONNECTOR BACKSHELL GROMMET AND TIGHTLY SECURE LACING CORD ENDS TO STRAIN RELIEF CLAMP.

SIZE A	CODE IDENT NO. 99974	2901485
SCALE-NONE	REV LTR B★	SHEET 3 OF 14

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+2.00-1.00				
10 FT AND OVER	+2.00-.00				

SIZE A	CODE IDENT NO. 99974	2901485
SCALE-NONE	REV LTR B★	SHEET 4 OF 14

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901485-001	WIRE, ND1002181, TYPE 2, CLASS 4, WHT. JKT., 22AWG, WHT/BLU, WHT/RED, 156 FT TOTAL LG.
	2	1	2901485-002	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT. 49 FEET TOTAL LENGTH
7	3	1	1897250-001	CONNECTOR PLUG, ELEC.
7	4	1	1010933-105	CLAMP, STRAIN RELIEF
7	5	X	1897190- 1	CONTACT PIN
	7	1	2900880-011	CONNECTOR PLUG, ELEC
7	8	44	1897300-002	CONTACT, ELECTRICAL - SPRING SOCKET
7	9	2	1010763- 1	SOLDER SLEEVE
7	10	13	1010763- 2	SOLDER SLEEVE
7	13	44	1010490-228	INSULATION SLEEVING, ELEC.
7	14	4	1010490-232	INSULATION SLEEVING, ELEC.
7	15	1	1016128-011	IDENTIFICATION BAND
7	16	2	1016128-041	IDENTIFICATION BAND
18	17	1	2901485-003	ZIPPER TUBING PER ND1002155, TYPE I, GRAY, 1.00 DIA., 6 FT. TOTAL LENGTH
	18	AR	MIL-T-713B, TYPE P CLASS 2, BLK	LACING TAPE

SIZE A	CODE IDENT NO. 99974	2901485
SCALE-NONE	REV LTR B★	SHEET 5 OF 14

CABLE ASSEMBLY W149 2901485 B★

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	19	AR	MIL-I-631, TYPE F, FORM T GRADE A CLASS 1 BLK	FILLER TAPE, .62 WIDE, .020 THICK.
7	20	44	1015864-232	INSULATION SLEEVING, ELEC.
7	21	1	1016282- 22	GROMMET, RUBBER
	22	1	2901485-004	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JKT, 22 AWG, WHT/BLU, WHT/RED, WHT/YEL, 6 FT. TOTAL LG.
	23	AR	MIL-I-15126F, TYPE ACT	INSULATION TAPE, ELEC PRESSURE SENSITIVE THERMOSETTING ADHESIVE, .75 PLUS OR MINUS .03 IN. WIDE (ES2716 TYPE C).

SIZE A | CODE IDENT NO. 99974 | 2901485

SCALE-NONE | REV LTR B★ | SHEET 6 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1				4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A 1A	2		SHLD A1 E1					.25 .25	NO NO			
A 1L			P1-38 P2-B23					.15 .18	NO NO		5 8	
A 1R			P1-37 P2-A23					.15 .18	NO NO		5 8	
A 2	1				4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A 2A	2		SHLD A2 E1					.25 .25	NO NO			
A 2L			P1-40 P2-A22					.15 .18	NO NO		5 8	
A 2R			P1-39 P2-B22					.15 .18	NO NO		5 8	
A 3	1				4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A 3A	2		SHLD A3 E1					.25 .25	NO NO			
A 3L			P1-42 P2-B21					.15 .18	NO NO		5 8	
A 3R			P1-41 P2-A21					.15 .18	NO NO		5 8	

SIZE A | CODE IDENT NO. 99974 | 2901485

SCALE-NONE | REV LTR B★ | SHEET 7 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 6	1				4.80 4.80	4.50 4.50				A,6A B,7	10, 13 13	
A 6A	2		SHLD A6 E2					.25 .25	NO NO			
A 6L			P1-32 P2-K6					.15 .18	NO NO		5 8	
A 6R			P1-31 P2-K7					.15 .18	NO NO		5 8	
A 7	1				4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A 7L			P1-2 P2-F24					.15 .18	NO NO		5 8	
A 7R			P1-1 P2-F25					.15 .18	NO NO		5 8	
A 8	1				4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A 8L			P1-4 P2-G25					.15 .18	NO NO		5 8	
A 8K			P1-3 P2-G24					.15 .18	NO NO		5 8	
A 9	1				4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A 9L			P1-6 P2-H24					.15 .18	NO NO		5 8	

SIZE A | CODE IDENT NO. 99974 | 2901485

SCALE-NONE | REV LTR B★ | SHEET 8 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 9R			P1-5 P2-H25					.15 .18	NO NO		5 8	
A 13	1				3.30 3.30	3.00 3.00				B,7 B,7	13 13	
A 13L			P1-30 P2-K22					.15 .18	NO NO		5 8	
A 13R			P1-29 P2-K23					.15 .18	NO NO		5 8	
A 14	1				3.30 3.30	3.00 3.00				A,6A B,7	10, 13 13	
A 14A	2		SHLD A14 E2					.25 .25	NO NO			
A 14L			P1-35 P2-K5					.15 .18	NO NO		5 8	
A 14R			P1-34 P2-H5					.15 .18	NO NO		5 8	
A 15	1				3.30 3.30	3.00 3.00				B,7 B,7	13 13	
A 15L			P1-24 P2-C25					.15 .18	NO NO		5 8	
A 15R			P1-23 P2-B25					.15 .18	NO NO		5 8	
A 16	1				3.30 3.30	3.00 3.00				B,7 B,7	13 13	

SIZE A | CODE IDENT NO. 99974 | 2901485

SCALE-NONE | REV LTR B★ | SHEET 9 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16L			P1-26					.15	NO		5	
			P2-C24					.18	NO		8	
A 16R			P1-25					.15	NO		5	
			P2-C23					.18	NO		8	
A 18	1				3.80	3.50				A,6A	10, 13	
					3.80	3.50				B,7	13	
A 18A	2		SHLD A18					.25	NO			
			E2					.15	NO		5	
A 18L			P1-74					.15	NO		5	
			P2-K4					.18	NO		8	
A 18R			P1-73					.15	NO		5	
			P2-K3					.18	NO		8	
A 19	1				3.80	3.50				B,7	13	
					3.80	3.50				B,7	13	
A 19L			P1-77					.15	NO		5	
			P2-B20					.18	NO		8	
A 19R			P1-76					.15	NO		5	
			P2-A20					.18	NO		8	
A 20	1				3.80	3.50				B,7	13	
					3.80	3.50				B,7	13	
A 20L			P1-66					.15	NO		5	
			E4					.25	NO			
A 20R			P1-65					.15	NO		5	
			P2-K20					.18	NO		8	

SIZE	CODE IDENT NO.	
A	99974	2901485
SCALE-NONE	REV LTR B★	SHEET 10 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21	1				3.80	3.50				B,7	13	
					3.80	3.50				B,7	13	
A 21L			P1-68					.15	NO		5	
			E4					.25	NO			
A 21R			P1-67					.15	NO		5	
			P2-H19					.18	NO		8	
A 22	1				3.80	3.50				B,7	13	
					3.80	3.50				B,7	13	
A 22L			P1-70					.15	NO		5	
			E4					.25	NO			
A 22R			P1-69					.15	NO		5	
			P2-K18					.18	NO		8	
A 23	2		E1					.25	NO			
			E3					.25	NO			
A 24	2		E2					.25	NO			
			E3					.25	NO			
A 25	2		E3					.25	NO			
			P1-63					.15	NO		5	
A 26	2		P1-27					.15	NO		5	
			P2-B24					.18	NO		8	
A 30	22				3.80	3.50				B,7	13	
					3.80	3.50				B,7	13	
A 30L			P1-9					.15	NO		5	
			P2-D18					.18	NO		8	

SIZE	CODE IDENT NO.	
A	99974	2901485
SCALE-NONE	REV LTR B★	SHEET 11 OF 14

MIL 2084 9-65

CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P1-8					.15	NO		5	
			P2-C18					.18	NO		8	
A 30Y			P1-7					.15	NO		5	
			P2-C19					.18	NO		8	
A 31	2		E4					.25	NO			
			P2-K21					.18	NO		8	
A 32	1				5.30	5.00				A,6B	10, 13	
					5.30	5.00				B,7	13	
A 32A	2		SHLD A32					.25	NO			
			P1-17					.15	NO		5	
A 32L			P1-16					.15	NO		5	
			P2-G10					.18	NO		8	
A 32R			P1-15					.15	NO		5	
			P2-G9					.18	NO		8	
A 33	1				5.30	5.00				A,6B	10, 13	
					5.30	5.00				B,7	13	
A 33A	2		SHLD A33					.25	NO			
			P1-20					.15	NO		5	
A 33L			P1-19					.15	NO		5	
			P2-K10					.18	NO		8	
A 33R			P1-18					.15	NO		5	
			P2-H10					.18	NO		8	
A 34	1				5.30	5.00				A,6B	10, 13	
					5.30	5.00				B,7	13	

SIZE	CODE IDENT NO.	
A	99974	2901485
SCALE-NONE	REV LTR B★	SHEET 12 OF 14

MIL : 84).65

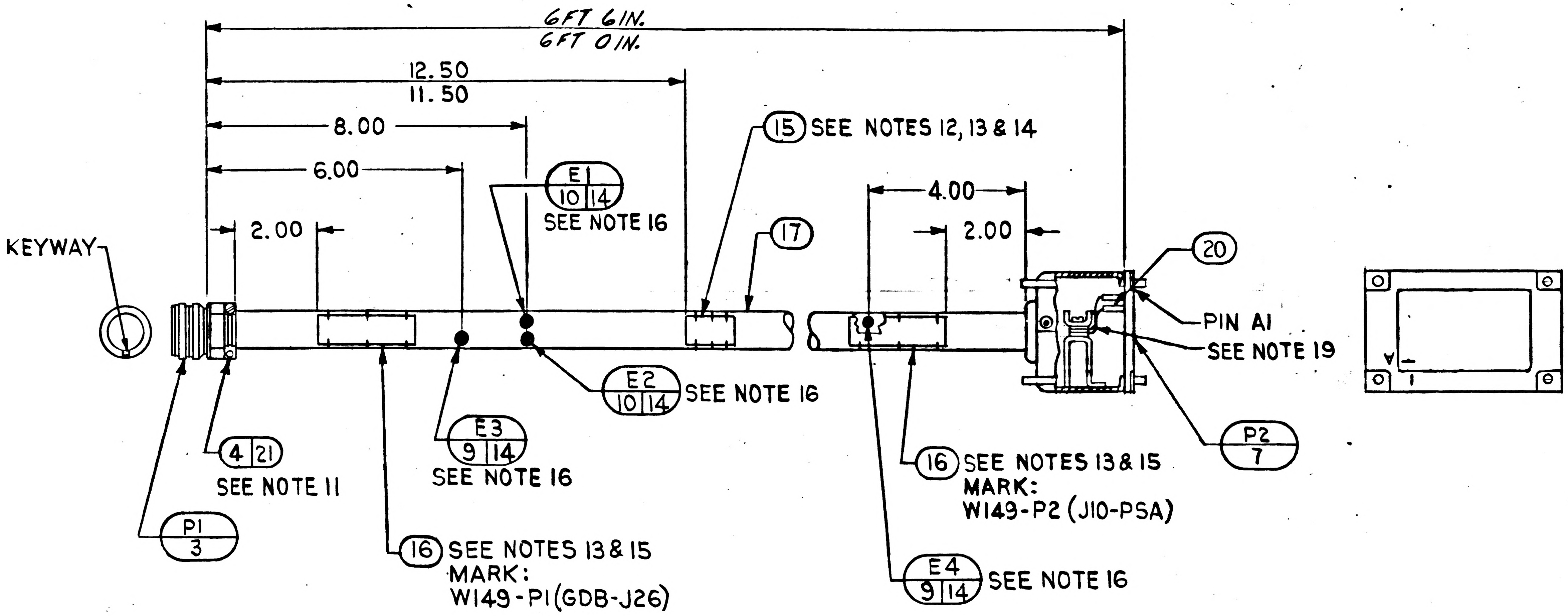
CABLE ASSEMBLY W149 2901485 B★

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34A	2		SHLD A34					.25	NO			
			P1-64					.15	NO		5	
A 34L			P1-62					.15	NO		5	
			P2-H9					.18	NO		8	
A 34R			P1-6U					.15	NO		5	
			P2-K9					.18	NO		8	
A 35	1				5.30	5.00				A,6B	10, 13	
					5.30	5.00				B,7	13	
A 35A	2		SHLD A35					.25	NO			
			P1-60					.15	NO		5	
A 35L			P1-59					.15	NO		5	
			P2-G16					.18	NO		8	
A 35R			P1-58					.15	NO		5	
			P2-G15					.18	NO		8	
A 36	1				5.30	5.00				A,6B	10, 13	
					5.30	5.00				B,7	13	
A 36A	2		SHLD A36					.25	NO			
			P1-57					.15	NO		5	
A 36L			P1-56					.15	NO		5	
			P2-H15					.18	NO		8	
A 36R			P1-55					.15	NO		5	
			P2-H16					.18	NO		8	

SIZE	CODE IDENT NO.	
A	99974	2901485
SCALE-NONE	REV LTR B★	SHEET 13 OF 14

MIL 2084 9-65

REVISIONS TDRR 28759					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
		SEE SHEET 1 FOR REVISION RECORD			


6FT 6IN.
6FT 0IN.
12.50
11.50
8.00
6.00
2.00
4.00
2.00
KEYWAY
E1 10 14
SEE NOTE 16
15 SEE NOTES 12, 13 & 14
17
20
PIN A1
SEE NOTE 19
E2 10 14 SEE NOTE 16
E3 9 14
SEE NOTE 16
4 21
SEE NOTE 11
P1 3
16 SEE NOTES 13 & 15
MARK:
W149-P1 (GDB-J26)
16 SEE NOTES 13 & 15
MARK:
W149-P2 (J10-PSA)
E4 9 14 SEE NOTE 16
P2 7
A
1

2900712-031	2900712-031
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .50
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Janowiak DATE 14 APR 66
CHECKED C. Pioijda 18 APR 66
APPROVAL J. M. Watson 5-5-66
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL MG Morley 5/12/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL-W149

SIZE	CODE IDENT NO.	
C	99974	2901485
SCALE —		SHEET 14 OF 14

APPLICATION	
NEXT ASSY	USED ON
2901034-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 28672	3-MAY-66	B. EF

20APR66

REV									
SHEET									
REV STATUS OF SHEETS	REV			A	A	A	A	A	A
	SHEET			1	2	3	4	5	6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN 14 APR 66 DAY MO YR
CHECKER Ed Foster 20 APR 66
ENGINEER G.YOHPE 20APR66
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

LEAD SET "A-A", ELECTRICAL - NO. 30

SIZE A
CODE IDENT. NO 99974
2901489
SCALE NONE
SHEET 1 OF 6

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER ND1002071 USING ITEM 2 OR ITEMS 3 AND 4.
4	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.
5	APPLY LEAD IDENTIFICATIONS PER ND1002019.
6	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.		
A	99974	2901489	
SCALE-NONE	REV LTR A	SHEET 2 OF 6	

MIL 2084 9-65

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901489-001	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG COLOR WHITE, 52.50 INCHES TOTAL LENGTH
	2	AR	SN60WRAP	SOLDER, QQ-S-571 (ES2175-3)
	3	AR	SN60WS	SOLDER, QQ-S-571 (ES2175-1)
	4	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)

SIZE	CODE IDENT NO.		
A	99974	2901489	
SCALE-NONE	REV LTR A	SHEET 3 OF 6	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1	1.50	P1-A TERM.4					.25 .25	YES YES			
AA 2	1	1.50	P1-F TERM.4					.25 .25	YES YES			
AA 3	1	3.00	P1-B TERM.3					.25 .25	YES YES			
AA 4	1	1.50	P1-C P1-E					.25 .25	YES YES			
AA 5	1	1.50	P1-E P1-J					.25 .25	YES YES			
AA 6	1	1.50	P1-L TERM.24					.25 .25	YES YES			
AA 7	1	1.50	P1-R TERM.24					.25 .25	YES YES			
AA 8	1	3.00	P1-M TERM.23					.25 .25	YES YES			
AA 9	1	1.50	P1-N P1-P					.25 .25	YES YES			
AA 10	1	1.50	P1-P P1-T					.25 .25	YES YES			
AA 11	1	1.50	P1-V TERM.36					.25 .25	YES YES			
AA 12	1	3.00	P1-W TERM.35					.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	99974	2901489	
SCALE-NONE	REV LTR A	SHEET 4 OF 6	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1	1.50	P1-X P1-Y					.25 .25	YES YES			
AA 14	1	1.50	P1-Y P2-C					.25 .25	YES YES			
AA 15	1	1.50	P2-C P2-D					.25 .25	YES YES			
AA 16	1	1.50	P2-A TERM.8					.25 .25	YES YES			
AA 17	1	3.00	P2-B TERM.7					.25 .25	YES YES			
AA 18	1	1.50	P2-E TERM.12					.25 .25	YES YES			
AA 19	1	3.00	P2-F TERM.11					.25 .25	YES YES			
AA 20	1	1.50	P2-H P2-J					.25 .25	YES YES			
AA 21	1	1.50	P2-J P2-M					.25 .25	YES YES			
AA 22	1	1.50	P2-M P2-N					.25 .25	YES YES			
AA 23	1	1.50	P2-N P2-S					.25 .25	YES YES			
AA 24	1	1.50	P2-S P2-T					.25 .25	YES YES			

SIZE	CODE IDENT NO.		
A	99974	2901489	
SCALE-NONE	REV LTR A	SHEET 5 OF 6	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	1	1.50	P2-K TERM.20					.25 .25	YES YES			
AA 26	1	3.00	P2-L TERM.19					.25 .25	YES YES			
AA 27	1	1.50	P2-P TERM.32					.25 .25	YES YES			
AA 28	1	3.00	P2-R TERM.31					.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901489
SCALE-NONE	REV LTR A	SHEET 6 OF 6

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. UNLESS OTHERWISE SPECIFIED:
   A. VALUES ARE IN OHMS.
4. DRAWINGS FOR REFERENCE
   2901498-011 - COMPONENT BOARD ASSEMBLY.
   2901496 - LEAD SET "A-A", ELECTRICAL

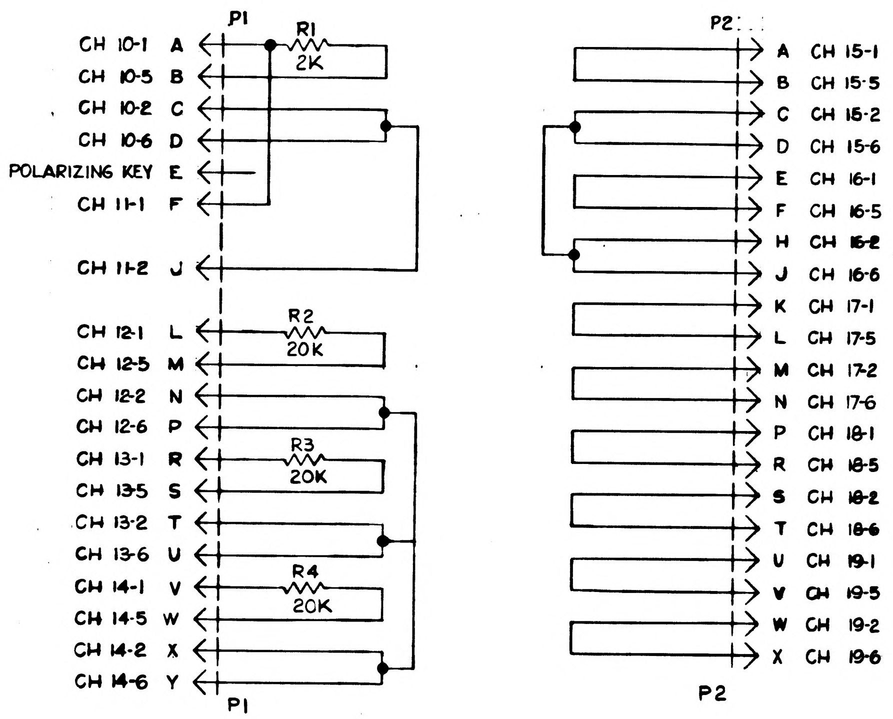
REF DESIG	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL & RATING		
P1	1015956-171	CONNECTOR, PLUG	21 PIN		
P2	1015956-166	CONNECTOR, PLUG	22 PIN		
R1	RN60B2001F	RESISTOR MIL-R-10509/1	2K	±1%	¼ W
R2	RN60B2002F		20K		
R3	RN60B2002F		20K		
R4	RN60B2002F	RESISTOR MIL-R-10509/1	20K	±1%	¼ W

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28672		3 MAY 66	PC EF

UNUSED TERMINALS

REF DESIG	TERMINAL NO'S
P1	H, K, Z
P2	Y, Z


P1
R1
2K
CH 10-1 A
CH 10-5 B
CH 10-2 C
CH 10-6 D
POLARIZING KEY E
CH 11-1 F
CH 11-2 J
R2
20K
CH 12-1 L
CH 12-5 M
CH 12-2 N
CH 12-6 P
R3
20K
CH 13-1 R
CH 13-5 S
CH 13-2 T
CH 13-6 U
R4
20K
CH 14-1 V
CH 14-5 W
CH 14-2 X
CH 14-6 Y
P1
P2
A CH 15-1
B CH 15-5
C CH 15-2
D CH 15-6
E CH 16-1
F CH 16-5
H CH 16-2
J CH 16-6
K CH 17-1
L CH 17-5
M CH 17-2
N CH 17-6
P CH 18-1
R CH 18-5
S CH 18-2
T CH 18-6
U CH 19-1
V CH 19-5
W CH 19-2
X CH 19-6
P2

2901498-011	2900895-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN 14 APR 66 DATE
CHECKED 19 APR 66
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM ELECTRICAL
COMPONENT BOARD
ASSEMBLY NO. 31

SIZE E CODE IDENT NO. 99974 2901495
SCALE ~ SHEET 1 OF 1

2901495

2901495

2901495

APPLICATION	
NEXT ASSY	USED ON
2901498-011	2900895-011

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 28672	3 MAY 66	RP / EF

Charleston 21 APR 66

REV STATUS OF SHEETS								
REV	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 15 APR 66 (DAY MO YR)
CHECKER Hogue 20 APR 66
ENGINEER G. YOHPE 20 APR
APPROVAL
CONTR NO. NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET "A-A"
ELECTRICAL - NO. 31

SIZE A
CODE IDENT. NO 99974
2901496
SCALE NONE
SHEET 1 OF 7

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NJT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER ND1002071 USING ITEM 5 OR ITEMS 3 AND 4.
4	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.
5	APPLY LEAD IDENTIFICATIONS PER ND1002019.
6	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

LEAD TOLERANCE CHART

	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.25-.25	+.25-.25	+.25-.25	

SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 2 OF 7

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901496-001	WIRE, BUS QQ-W-343 TYPE S COATED (ES110-1) 24AWG, 6.0 INCHES TOTAL LENGTH
	2	1	2901496-002	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG COLOR WHITE, 7 FT 9 IN. TOTAL LENGTH
	3	AR	SN60WS	SOLDER, QQ-S-571 (ES2175-1)
	4	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	5	AR	SN60WRAP	SOLDER, QQ-S-571 (ES2175-3)

SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 3 OF 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	2	3.50	P1-A TERM.2					.25 .25	YES YES			
AA 2	2	5.00	P1-B TERM.1					.25 .25	YES YES			
AA 3	2	1.50	P1-C TERM.8					.25 .25	YES YES			
AA 4	2	1.50	P1-D TERM.8					.25 .25	YES YES			
AA 5	2	3.50	P1-F TERM.2					.25 .25	YES YES			
AA 6	2	1.50	P1-J TERM.8					.25 .25	YES YES			
AA 7	2	3.50	P1-L TERM.18					.25 .25	YES YES			
AA 8	2	5.00	P1-M TERM.17					.25 .25	YES YES			
AA 9	2	1.50	P1-N TERM.28					.25 .25	YES YES			
AA 10	2	1.50	P1-P TERM.28					.25 .25	YES YES			
AA 11	2	3.50	P1-R TERM.26					.25 .25	YES YES			
AA 12	2	5.00	P1-S TERM.25					.25 .25	YES YES			

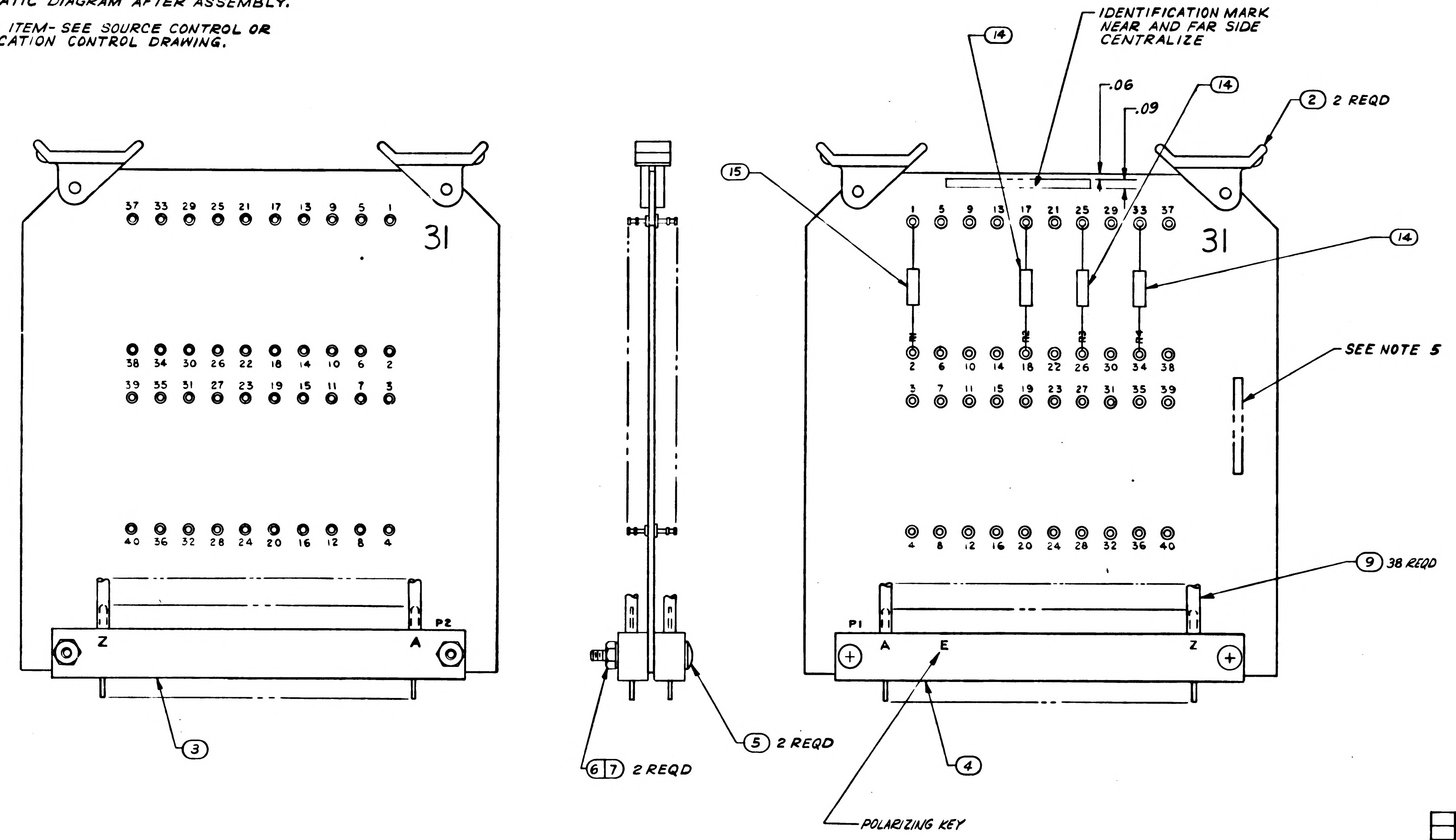
SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 4 OF 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	2	1.50	P1-T TERM.32					.25 .25	YES YES			
AA 14	2	1.50	P1-U TERM.32					.25 .25	YES YES			
AA 15	2	3.50	P1-V TERM.34					.25 .25	YES YES			
AA 16	2	5.00	P1-W TERM.33					.25 .25	YES YES			
AA 17	2	1.50	P1-X TERM.36					.25 .25	YES YES			
AA 18	2	1.50	P1-Y TERM.36					.25 .25	YES YES			
AA 19	1	2.00	TERM.28 TERM.32						NO NO			
AA 20	1	2.00	TERM.32 TERM.36						NO NO			
AA 21	2	1.50	P2-A TERM.4					.25 .25	YES YES			
AA 22	2	1.50	P2-B TERM.4					.25 .25	YES YES			
AA 23	2	1.50	P2-C TERM.12					.25 .25	YES YES			
AA 24	2	1.50	P2-D TERM.12					.25 .25	YES YES			

SIZE	CODE IDENT NO.	
A	99974	2901496
SCALE-NONE	REV LTR A	SHEET 5 OF 7

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND1002071 USING ITEM (10) OR (11) AND (12).
3. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
4. SERIALIZE PER ND1002023.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NO. PER ND 1002019, .09 HIGH, COLOR BLACK IN LOCATION SHOWN.
6. CHECK CONTINUITY AND RESISTANCE PER SCHEMATIC DIAGRAM AFTER ASSEMBLY.
7. VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28672		3 MAY 66	PG


IDENTIFICATION MARK NEAR AND FAR SIDE CENTRALIZE
.06
.09
(14)
(14)
(14)
(15)
(2) 2 REQD
31
31
37 33 29 25 21 17 13 9 5 1
38 34 30 26 22 18 14 10 6 2
39 35 31 27 23 19 15 11 7 3
40 36 32 28 24 20 16 12 8 4
1 5 9 13 17 21 25 29 33 37
2 6 10 14 18 22 26 30 34 38
3 7 11 15 19 23 27 31 35 39
4 8 12 16 20 24 28 32 36 40
R1
R2
R3
R4
SEE NOTE 5
(9) 38 REQD
P2
P1
Z
A
A
E
Z
(3)
(6)(7) 2 REQD
(5) 2 REQD
(4)
POLARIZING KEY

SEE NOTE 7

SEE NOTE 7 {

			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			1		15	RN60B2001F	(1896977-318) RESISTOR MIL-R-10509/1
			3		14	RN60B2002F	(1896977-414) RESISTOR MIL-R-10509/1
			X		13	2901495	SCHEMATIC DIAGRAM, ELECT
			AR		12	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
			AR		11	SN 60 WS	SOLDER QQ-S-571 (ES2175-1)
			AR		10	SN60 WRAP	SOLDER QQ-S-571 (ES2175-3)
			38		9	1015864-109	INSULATION-SLEEVING, ELECT
			1		8	2901496	LEAD SET A A, ELECTRICAL
			2		7	MS35333-70	WASHER, LOCK INT TOOTH
			2		6	AN340C4	(1896988-041) NUT-PLAIN HEX
			2		5	MS35216-20	SCREW, PAN HEAD
			1		4	1015956-171	CONNECTOR, ADAPTER ELEC
			1		3	1015956-166	CONNECTOR, ADAPTER ELEC
			2		2	1015999-001	EJECTOR, CIRCUIT BOARD
			1		1	2901497	TERMINAL BOARD (INSEP ASSY)
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

2901034-011	2900895-011	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS
DRAWN W. Munson DATE 15 APR 66
CHECKED 9 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

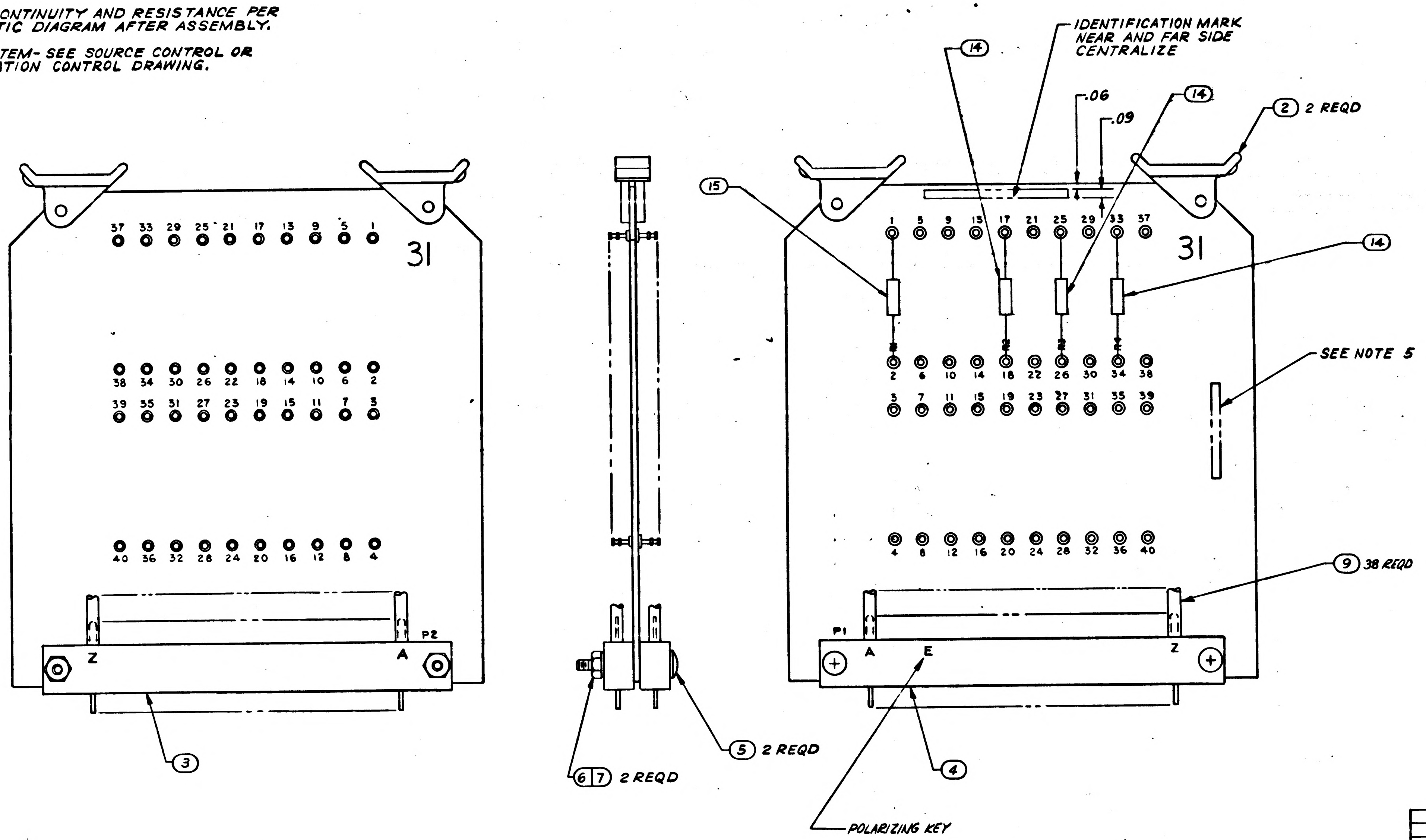
COMPONENT BOARD ASSEMBLY-NO. 31

SIZE E
CODE IDENT NO. 99974
2901498
SCALE 2/1
SHEET 1 OF 1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SOLDER PER ND 1002071 USING ITEM ⑩ OR ⑪ AND ⑫.
3. IDENTIFY USING DRAWING NUMBER PREFIXED BY "ASSY" WITH APPLICABLE DASH NUMBER PER MIL-STD-130 (ES 267).
4. SERIALIZE PER ND1002023.
5. MARK "SCHEM" AND APPLICABLE SCHEMATIC DRAWING NO. PER ND 1002019, .09 HIGH, COLOR BLACK IN LOCATION SHOWN.
6. CHECK CONTINUITY AND RESISTANCE PER SCHEMATIC DIAGRAM AFTER ASSEMBLY.
7. VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 28672		5 MAY 66	PG EF
	B	REVISED PER TDRR 31378		5 OCT 66	TD N.L



IDENTIFICATION MARK NEAR AND FAR SIDE CENTRALIZE
⑭
⑭
⑭
.06
.09
② 2 REQD
⑮
31
31
37 33 29 25 21 17 13 9 5 1
1 5 9 13 17 21 25 29 33 37
38 34 30 26 22 18 14 10 6 2
39 35 31 27 23 19 15 11 7 3
40 36 32 28 24 20 16 12 8 4
2 6 10 14 18 22 26 30 34 38
3 7 11 15 19 23 27 31 35 39
4 8 12 16 20 24 28 32 36 40
SEE NOTE 5
⑨ 38 REQD
P2
Z
A
P1
A
E
Z
③
⑥⑦ 2 REQD
⑤ 2 REQD
④
POLARIZING KEY

SEE NOTE 7

SEE NOTE 7 {

QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
1		15	RC20GF512J	(1896952-066) RESISTOR MIL-R-11/8
3		14	RN60B2002F	(1896977-414) RESISTOR MIL-R-10509/1
X		13	2901495	SCHEMATIC DIAGRAM, ELECT
AR		12	MIL-F-14256 TYPE A OR W	FLUX (ES 2798)
AR		11	SN 60 WS	SOLDER QQ-S-571 (ES 2175-1)
AR		10	SN60 WRAP	SOLDER QQ-S-571 (ES 2175-3)
38		9	1015864-109	INSULATION-SLEEVING, ELECT
1		8	2901496	LEAD SET A A, ELECTRICAL
2		7	MS35333-70	WASHER, LOCK INT TOOTH
2		6	AN340C4	(1896988-041) NUT-PLAIN HEX
2		5	MS35216-20	SCREW, PAN HEAD
1		4	1015956-171	CONNECTOR, ADAPTER ELEC
1		3	1015956-166	CONNECTOR, ADAPTER ELEC
2		2	1015999-001	EJECTOR, CIRCUIT BOARD
1		1	2901497	TERMINAL BOARD (INSEP ASSY)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
2901034-011	2900895-011	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL 21 APR 66

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE 15 APR 66
CHECKED 19 APR 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT BOARD ASSEMBLY-NO. 31

SIZE E
CODE IDENT NO. 99974
2901498
SCALE 2/1
SHEET 1 OF 1

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	SOLDER PER ND1002071 ~~MIL-S-6872 (ES2505-1)~~ USING ITEM 4 OR ITEMS 2 AND 3.
4	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.
~~5~~	~~APPLY LEAD IDENTIFICATIONS PER ND1002019~~
5	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A
CODE IDENT NO. 99974
2901502
SCALE-NONE
REV LTR A
SHEET 2 OF 5

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901502-001	WIRE, ND1002181, TYPE 1, CLASS 1, 24AWG COLOR WHITE, 31.5 INCHES TOTAL LENGTH
	2	AR	SN60WS	SOLDER, QQ-S-571 (ES2175-1)
	3	AR	MIL-F-14256 TYPE A OR W	FLUX (ES2798)
	4	AR	SN60WRAP	SOLDER, QQ-S-571 (ES2175-3)

SIZE A
CODE IDENT NO. 99974
2901502
SCALE-NONE
REV LTR A
SHEET 3 OF 5

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1	1.50	P1-C TERM.4					.25 .25	YES YES			
AA 2	1	3.00	P1-F TERM.3					.25 .25	YES YES			
AA 3	1	1.50	P1-K TERM.20					.25 .25	YES YES			
AA 4	1	1.50	P1-M TERM.20					.25 .25	YES YES			
AA 5	1	1.50	P1-L TERM.32					.25 .25	YES YES			
AA 6	1	1.50	P1-X TERM.32					.25 .25	YES YES			
AA 7	1	1.50	P1-P TERM.28					.25 .25	YES YES			
AA 8	1	3.00	P1-T TERM.27					.25 .25	YES YES			
AA 9	1	1.50	P1-W TERM.40					.25 .25	YES YES			
AA 10	1	1.50	P1-Y TERM.40					.25 .25	YES YES			
AA 11	1	1.50	P2-C TERM.8					.25 .25	YES YES			
AA 12	1	3.00	P2-F TERM.7					.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901502
SCALE-NONE
REV LTR A
SHEET 4 OF 5

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1	1.50	P2-K TERM.20					.25 .25	YES YES			
AA 14	1	1.50	P2-M TERM.20					.25 .25	YES YES			
AA 15	1	1.50	P2-P TERM.28					.25 .25	YES YES			
AA 16	1	1.50	P2-T TERM.28					.25 .25	YES YES			
AA 17	1	1.50	P2-W TERM.40					.25 .25	YES YES			
AA 18	1	1.50	P2-Y TERM.40					.25 .25	YES YES			

SIZE A
CODE IDENT NO. 99974
2901502
SCALE-NONE
REV LTR A
SHEET 5 OF 5

APPLICATION	
NEXT ASSY	USED ON
8102206	1900496-021

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REVISED PER MXC 212269	13 MAY 66	
B	INITIAL RELEASE CLASS A PER TDRR 30013	26 MAY 66	

Mulutin 22 APR 66

REV						
SHEET						
REV STATUS OF SHEETS — REV	B	B	B	B	B	B
SHEET	1	2	3	4	5	6

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN RWTruit 15 APR 66
DAY MO YR
CHECKER J. GRIEB 22 APR 66
ENGINEER 22 APR 66
APPROVAL M. Walton
CONTR NO. NAS9-497
A. C. METZGER
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET A A

SIZE A
CODE IDENT. NO 99974
2901506
SCALE NONE
SHEET 1 OF 6

MIL 1377A6 12-65

LEAD SET AA 2901506 A ✓

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	LENGTHS SPECIFIED ARE BEFORE ACCESSORIES ARE ATTACHED.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A | CODE IDENT NO. 99974 | 2901506
SCALE-NONE | REV LTR ✓B | SHEET 2 OF 6

MIL 2084 9-65

LEAD SET AA 2901506 A ✓

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901506-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHITE ~~22~~ 39 FT TOTAL LENGTH
	2	~~1~~	~~2901506-002~~	~~WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG WHITE 3 FT TOTAL LENGTH~~

SIZE A | CODE IDENT NO. 99974 | 2901506
SCALE-NONE | REV LTR ✓B | SHEET 3 OF 6

MIL 2084 9-65

LEAD SET AA 2901506 A ✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERN. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1	12.00										
AA 2	1	14.00										
AA 3	1	18.00										
AA 4	1	10.00										
AA 5	1	23.00										
AA 6	1	15.00										
AA 7	1	10.00										
AA 8	1	21.00										
AA 9	1	17.00										
AA 10	1	34.00										
AA 11	1	19.00										
AA 12	1	19.00										

SIZE A | CODE IDENT NO. 99974 | 2901506
SCALE-NONE | REV LTR ✓B | SHEET 4 OF 6

MIL 2084 9-65

LEAD SET AA ▼ 2901506 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1	36.00										
AA 14	1	7.00										
AA 15	1	30.00										
AA 16	1	7.00										
AA 17	1	34.00										
AA 18	1	34.00										
AA 19	~~2~~	~~15.00~~										
AA 20	~~2~~	~~15.00~~										
AA 21	1	20.00										
AA 132 2	1	6.00										
AA 133 3	1	36.00										
AA 134 4	1	6.00										

SIZE	CODE IDENT NO.	
A	99974	2901506
SCALE-NONE	REV LTR B	SHEET 5 OF 6

MIL 2084 9-65

LEAD SET AA A ▼ 2901506 6 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 135 3	1	36.00	36.00									

SIZE	CODE IDENT NO.	
A	99974	2901506 6
SCALE-NONE	REV LTR B	SHEET 6 OF 6

MIL 2084 9-65

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2900058-031	2900058-031	A	INITIAL RELEASE CLASS A PER TDRR 28759	4 MAY 66	RJJ / CP

REV																								
SHEET																								
REV STATUS OF SHEETS	REV			A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
	SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN 18 APR 66 (DAY MO YR)
CHECKER W. Riehl 26 APR '66
ENGINEER 26 APR '66
APPROVAL J. M. Watson 5-5-66
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS H

SIZE A
CODE IDENT. NO 99974
2901509
SCALE NONE
SHEET 1 OF 19

MIL 1377A6 12-65

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901509-001	WIRE,ND1002181 TYPE 1, CLASS 1,20 AWG WHT
	2	1	2901509-002	WIRE,ND1002181 TYPE 1, CLASS 1,16 AWG WHT
6	3	25	1897267-001	CONNECTOR,RECEPTACLE,ELECTRICAL
6	4	186	1897266-001	CONTACT,RECEPTACLE,ELECTRICAL
6	5	74	1897266-004	CONTACT,RECEPTACLE,ELECTRICAL
6	6	59	1015902- 49	TERMINAL-LUG
6	7	1	1016128-001	BAND-IDENTIFICATION BLANK
	8	AR	MIL-T-713B TYPE P CLASS 2, BLK	LACING TAPE
	9	25	1015864-462	INSULATION-SLEEVING, ELECTRICAL, CLEAR

SIZE	CODE IDENT NO.		
A	99974	2901509	
SCALE-NONE	REV LTR A	SHEET 6 OF 19	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 1	1		P100C-6 P100C-8	1 1				.12 .12	NO NO		4 5	212A 212A
H 2	1		P100C-8 P100C-14	1 1				.12 .12	NO NO		 4	212A 212A
H 3	2		P100C-31 TB11-34	1 35				.22 .17	NO NO		5 6	1H 1H
H 4	2		P100C-32 TB10-34	1 26				.22 .17	NO NO		5 6	2L 2L
H 5	2		P101C-31 TB11-34	2 35				.22 .17	NO NO		5 6	1H 1H
H 6	2		P101C-32 TB10-34	2 26				.22 .17	NO NO		5 6	2L 2L
H 7	1		P102C-2 P129C-12	3 19				.12 .12	NO NO		4 4	723A 723A
H 8	1		P102C-23 P105C-23	3 3				.12 .12	NO NO		4 4	347B 347B
H 9	1		P102C-24 P105C-24	3 3				.12 .12	NO NO		4 4	348B 348B
H 10	1		P102C-21 P105C-17	3 3				.12 .12	NO NO		4 4	345B 345B
H 11	1		P102C-22 P105C-18	3 3				.12 .12	NO NO		4 4	346B 346B
H 12	2		P102C-31 TB11-33	3 36				.22 .17	NO NO		5 6	1H 1H

SIZE	CODE IDENT NO.		
A	99974	2901509	
SCALE-NONE	REV LTR A	SHEET 7 OF 19	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 13	2		P102C-32 TB10-33	3 27				.22 .17	NO NO		5 6	2L 2L
H 14	1		P103C-26 P103C-30	4 4				.12 .12	NO NO		4 4	352A 352A
H 15	2		P103C-31 TB11-33	4 36				.22 .17	NO NO		5 6	1H 1H
H 16	2		P103C-32 TB10-33	4 27				.22 .17	NO NO		5 6	2L 2L
H 17	1		P104C-4 P104C-6	5 5				.12 .12	NO NO		4 5	204A 204A
H 18	1		P104C-7 P104C-21	5 5				.12 .12	NO NO		4 4	178A 178A
H 19	1		P104C-8 P104C-22	5 5				.12 .12	NO NO		4 4	179D 179D
H 20	1		P104C-9 P104C-13	5 5				.12 .12	NO NO		4 4	188A 188A
H 21	1		P104C-10 P104C-14	5 5				.12 .12	NO NO		4 4	189A 189A
H 22	1		P104C-16 P104C-18	5 5				.12 .12	NO NO		4 4	194A 194A
H 23	2		P104C-31 TB11-32	5 37				.22 .17	NO NO		5 6	1H 1H
H 24	2		P104C-32 TB10-32	5 28				.22 .17	NO NO		5 6	2L 2L

SIZE	CODE IDENT NO.		
A	99974	2901509	
SCALE-NONE	REV LTR A	SHEET 8 OF 19	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 25	2		P105C-31 TB11-32	6 37				.22 .17	NO NO		5 6	1H 1H
H 26	2		P105C-32 TB10-32	6 28				.22 .17	NO NO		5 6	2L 2L
H 27	1		P106C-7 P108C-27	7 9				.12 .12	NO NO		4 4	169A 169A
H 28	1		P106C-8 P108C-28	7 9				.12 .12	NO NO		4 4	170B 170B
H 29	1		P106C-13 P106C-29	7 7				.12 .12	NO NO		4 4	129A 129A
H 30	1		P106C-14 P106C-30	7 7				.12 .12	NO NO		4 4	130A 130A
H 31	1		P106C-23 P106C-25	7 7				.12 .12	NO NO		4 4	119A 119A
H 32	1		P106C-24 P106C-26	7 7				.12 .12	NO NO		4 4	120B 120B
H 33	2		P106C-31 TB11-31	7 38				.22 .17	NO NO		5 6	1H 1H
H 34	2		P106C-32 TB10-31	7 29				.22 .17	NO NO		5 6	2L 2L
H 35	1		P107C-1 P107C-3	8 8				.12 .12	NO NO		4 4	121C 121C
H 36	1		P107C-2 P107C-4	8 8				.12 .12	NO NO		4 4	122C 122C

SIZE	CODE IDENT NO.		
A	99974	2901509	
SCALE-NONE	REV LTR A	SHEET 9 OF 19	

MIL 2084 9-65

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 37	2		P107C-31	8				.22	NO		5	1H
			TB11-31	38				.17	NO		6	1H
H 38	2		P107C-32	8				.22	NO		5	2L
			TB10-31	29				.17	NO		6	2L
H 39	1		P108C-7	9				.12	NO		4	155B
			P108C-11	9				.12	NO		4	155B
H 40	1		P108C-8	9				.12	NO		4	156B
			P108C-12	9				.12	NO		4	156B
H 41	1		P108C-13	9				.12	NO		4	157A
			P108C-15	9				.12	NO		4	157A
H 42	1		P108C-14	9				.12	NO		4	158A
			P108C-16	9				.12	NO		4	158A
H 43	1		P108C-17	9				.12	NO		4	161A
			P108C-19	9				.12	NO		4	161A
H 44	1		P108C-18	9				.12	NO		4	162A
			P108C-20	9				.12	NO		4	162A
H 45	1		P108C-21	9				.12	NO		4	163A
			P108C-25	9				.12	NO		4	163A
H 46	1		P108C-22	9				.12	NO		4	164A
			P108C-26	9				.12	NO		4	164A
H 49	2		P108C-31	9				.22	NO		5	1H
			TB11-30	39				.17	NO		6	1H
H 50	2		P108C-32	9				.22	NO		5	2L
			TB10-30	30				.17	NO		6	2L

SIZE	CODE IDENT NO.	
A	99974	2901509
SCALE-NONE	REV LTR A	SHEET 10 OF 19

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 51	2		P109C-31	10				.22	NO		5	1H
			TB11-30	39				.17	NO		6	1H
H 52	2		P109C-32	10				.22	NO		5	2L
			TB10-30	30				.17	NO		6	2L
H 53	1		P110C-30	11				.12	NO		4	195A
			P111C-4	12				.12	NO			195A
H 54	2		P110C-31	11				.22	NO		5	1H
			TB11-29	40				.17	NO		6	1H
H 55	2		P110C-32	11				.22	NO		5	2H
			TB10-29	31				.17	NO		6	2H
H 56	1		P111C-6	12				.12	NO			195A
			P111C-10	12				.12	NO		4	195A
H 57	1		P111C-28	12				.12	NO		4	1245A
			P111C-30	12				.12	NO		4	1245A
H 58	2		P111C-31	12				.22	NO		5	1H
			TB11-29	40				.17	NO		6	1H
H 59	2		P111C-32	12				.22	NO		5	2L
			TB10-29	31				.17	NO		6	2L
H 60	1		P112C-18	13				.12	NO		4	100C
			P112C-24	13				.12	NO		5	100C
H 61	1		P112C-22	13				.12	NO		4	100C
			P112C-24	13				.12	NO			100C
H 62	2		P112C-31	13				.22	NO		5	1H
			TB11-28	41				.17	NO		6	1H

SIZE	CODE IDENT NO.	
A	99974	2901509
SCALE-NONE	REV LTR A	SHEET 11 OF 19

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 63	2		P112C-32	13				.22	NO		5	2L
			TB10-28	32				.17	NO		6	2L
H 64	2		P113C-31	14				.22	NO		5	1H
			TB11-28	41				.17	NO		6	1H
H 65	2		P113C-32	14				.22	NO		5	2L
			TB10-28	32				.17	NO		6	2L
H 66	1		P114C-3	15				.12	NO		4	274A
			P114C-7	15				.12	NO		4	274A
H 67	1		P114C-4	15				.12	NO		4	1J
			P114C-6	15				.12	NO		5	1J
H 68	1		P114C-6	15				.12	NO			1J
			P114C-8	15				.12	NO		5	1J
H 69	1		P114C-8	15				.12	NO			1
			P114C-14	15				.12	NO		4	1
H 70	1		P114C-5	15				.12	NO		4	273A
			P114C-13	15				.12	NO		4	273A
H 71	1		P114C-16	15				.12	NO		4	1429A
			P114C-18	15				.12	NO		5	1429A
H 72	1		P114C-18	15				.12	NO			1429A
			P114C-22	15				.12	NO		5	1429A
H 73	1		P114C-22	15				.12	NO			1429A
			P114C-24	15				.12	NO		4	1429A
H 74	1		P114C-28	15				.12	NO		4	1430A
			P114C-30	15				.12	NO		4	1430A

SIZE	CODE IDENT NO.	
A	99974	2901509
SCALE-NONE	REV LTR A	SHEET 12 OF 19

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 75	2		P114C-31	15				.22	NO		5	1H
			TB11-27	42				.17	NO		6	1H
H 76	2		P114C-32	15				.22	NO		5	2L
			TB10-27	33				.17	NO		6	2L
H 77	1		P115C-4	16				.12	NO		4	1431A
			P115C-6	16				.12	NO		4	1431A
H 78	1		P115C-22	16				.12	NO		4	404C
			P115C-24	16				.12	NO		4	404C
H 79	1		P115C-25	16				.12	NO		4	538A
			P115C-27	16				.12	NO		4	538A
H 80	1		P115C-26	16				.12	NO		4	1A
			P115C-28	16				.12	NO		4	1A
H 81	1		P115C-18	16				.12	NO		4	922A
			P117C-4	18				.12	NO		4	922A
H 82	1		P115C-30	16				.12	NO		4	3B
			P116C-4	17				.12	NO		5	3B
H 83	2		P115C-31	16				.22	NO		5	1H
			TB11-27	42				.17	NO		6	1H
H 84	2		P115C-32	16				.22	NO		5	2L
			TB10-27	33				.17	NO		6	2L
H 85	1		P116C-4	17				.12	NO			3B
			P116C-6	17				.12	NO		4	3B
H 86	1		P116C-7	17				.12	NO		4	968A
			P116C-11	17				.12	NO		5	968A

SIZE	CODE IDENT NO.	
A	99974	2901509
SCALE-NONE	REV LTR A	SHEET 13 OF 19

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 87	1		P116C-8	17				.12	NO		4	969A
			P116C-12	17				.12	NO		5	969A
H 88	1		P116C-13	17				.12	NO		4	911A
			P116C-15	17				.12	NO		5	911A
H 89	1		P116C-14	17				.12	NO		4	912A
			P116C-16	17				.12	NO		5	912A
H 90	1		P116C-15	17				.12	NO			911A
			P129C-13	19				.12	NO		4	911A
H 91	1		P116C-16	17				.12	NO			912A
			P129C-14	19				.12	NO		4	912A
H 92	1		P116C-25	17				.12	NO		4	966A
			P116C-27	17				.12	NO		4	966A
H 93	1		P116C-26	17				.12	NO		4	967A
			P116C-28	17				.12	NO		4	967A
H 94	1		P116C-11	17				.12	NO			968A
			P129C-19	19				.12	NO		4	968A
H 95	1		P116C-12	17				.12	NO			969A
			P129C-20	19				.12	NO		4	969A
H 96	2		P116C-31	17				.22	NO		5	1H
			TB11-26	43				.17	NO		6	1H
H 97	2		P116C-32	17				.22	NO		5	2L
			TB10-26	34				.17	NO		6	2L
H 98	2		P117C-31	18				.22	NO		5	1H
			TB11-26	43				.17	NO		6	1H

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 14 OF 19

MIL 2084 9-65

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 99	2		P117C-32	18				.22	NO		5	2L
			TB10-26	34				.17	NO		6	2L
H 100	1		P118C-22	20				.12	NO		4	201A
			P118C-24	20				.12	NO		5	201A
H 101	1		P118C-24	20				.12	NO			201A
			P118C-28	20				.12	NO		4	201A
H 102	2		P118C-31	20				.22	NO		5	1H
			TB11-25	47				.17	NO		6	1H
H 103	2		P118C-32	20				.22	NO		5	2L
			TB10-25	44				.17	NO		6	2L
H 104	2		P119C-31	21				.22	NO		5	1H
			TB11-25	47				.17	NO		6	1H
H 105	2		P119C-32	21				.22	NO		5	2L
			TB10-25	44				.17	NO		6	2L
H 106	1		P120C-1	22				.12	NO		4	353
			P129C-11	19				.12	NO		4	353
H 107	2		P120C-31	22				.22	NO		5	1H
			TB11-24	48				.17	NO		6	1H
H 108	2		P120C-32	22				.22	NO		5	2L
			TB10-24	45				.17	NO		6	2L
H 109	1		P121C-23	23				.12	NO		4	1501
			P121C-25	23				.12	NO		4	1501
H 110	1		P121C-24	23				.12	NO		4	2001
			P121C-26	23				.12	NO		4	2001

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 15 OF 19

MIL 2084 9-65

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 111	1		P121C-27	23				.12	NO		4	1645
			P129C-23	19				.12	NO		4	1645
H 112	1		P121C-29	23				.12	NO		4	1644
			P129C-24	19				.12	NO		4	1644
H 113	2		P121C-31	23				.22	NO		5	1H
			TB11-24	48				.17	NO		6	1H
H 114	2		P121C-32	23				.22	NO		5	2L
			TB10-24	45				.17	NO		6	2L
H 115	2		P122C-31	24				.22	NO		5	1H
			TB11-23	49				.17	NO		6	1H
H 116	2		P122C-32	24				.22	NO		5	2L
			TB10-23	46				.17	NO		6	2L
H 117	1		P129C-15	19				.12	NO		4	587
			P129C-17	19				.12	NO		4	587
H 118	2		P129C-31	19				.22	NO		5	1H
			TB11-23	49				.17	NO		6	1H
H 119	2		P129C-32	19				.22	NO		5	2L
			TB10-23	46				.17	NO		6	2L
H 120	2		P126C-22	25				.22	NO		5	1H
			TB11-22	50				.17	NO		6	1H
H 121	2		P126C-23	25				.22	NO		5	1H
			TB11-22	50				.17	NO		6	1H
H 122	2		P126C-24	25				.22	NO		5	1H
			TB11-21	51				.17	NO		6	1H

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 16 OF 19

MIL 2084 9-65

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 123	2		P126C-25	25				.22	NO		5	1H
			TB11-21	51				.17	NO		6	1H
H 124	2		P126C-26	25				.22	NO		5	1H
			TB11-20	52				.17	NO		6	1H
H 125	2		P126C-27	25				.22	NO		5	1H
			TB11-20	52				.17	NO		6	1H
H 126	2		P126C-28	25				.22	NO		5	1H
			TB11-19	53				.17	NO		6	1H
H 127	2		P126C-29	25				.22	NO		5	1H
			TB11-19	53				.17	NO		6	1H
H 128	2		P126C-30	25				.22	NO		5	1H
			TB11-18	54				.17	NO		6	1H
H 129	2		P126C-31	25				.22	NO		5	1H
			TB11-18	54				.17	NO		6	1H
H 130	2		P126C-32	25				.22	NO		5	1H
			TB11-17	55				.17	NO		6	1H
H 131	1		P104C-6	5				.12	NO		4	204A
			P113C-30	14				.12	NO			204A
H 132	1		P111C-4	12				.12	NO		5	195A
			P111C-6	12				.12	NO		5	195A
H 133	1		P100C-9	1				.12	NO		4	184A
			P100C-25	1				.12	NO		4	184A
H 134	1		P100C-10	1				.12	NO		4	185A
			P100C-26	1				.12	NO		4	185A

SIZE A
CODE IDENT NO. 99974
2901509
SCALE-NONE
REV LTR A
SHEET 17 OF 19

MIL 2084 9-65

WIRING HARNESS H 2901509 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS NETWORK NO.
H 135	1		P129C-21	17				.12	NO		4	902
			P121C-30	23				.12	NO		4	902
H 136	1		P105C-6	6				.12	NO		4	1240A
			P111C-22	12				.12	NO		4	1240A
H 137	1		P107C-12	8				.12	NO		4	270A
			P107C-18	8				.12	NO		4	270A
H 138	1		P107C-18	8				.12	NO			270A
			P107C-24	8				.12	NO		4	270A
H 139	1		P107C-12	8				.12	NO			270A
			P120C-10	22				.12	NO		4	270A
H 140	1		P105C-13	6				.12	NO		4	167A
			P108C-23	9				.12	NO		4	167A
H 141	1		P105C-14	6				.12	NO		4	168A
			P108C-24	9				.12	NO		4	168A

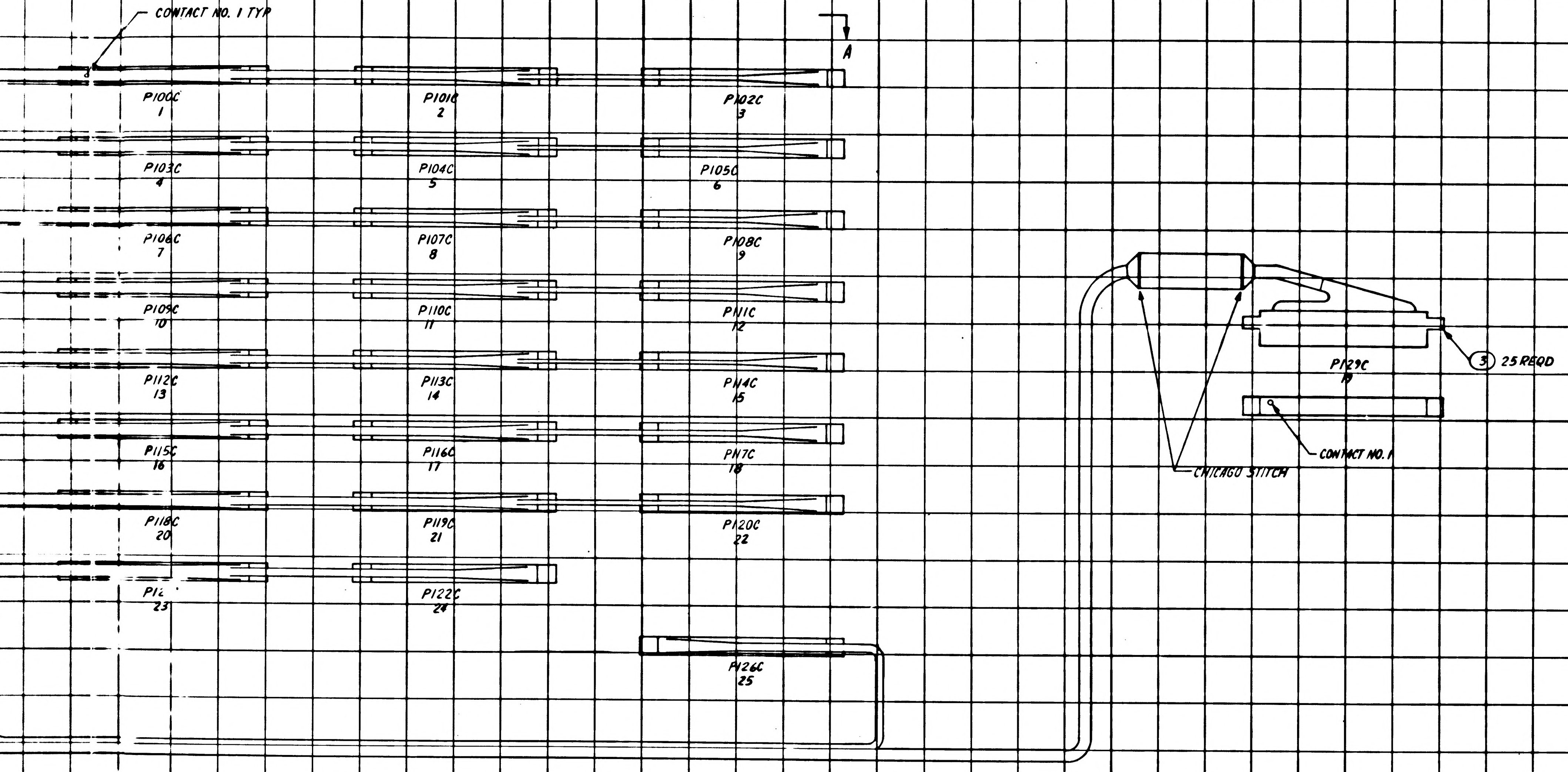
SIZE	CODE IDENT NO.	
A	99974	2901509
SCALE-NONE	REV LTR A	SHEET 18 OF 19

MIL 2084 9-65

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD



CONTACT NO. 1 TYP
A
P100C 1
P101C 2
P102C 3
P103C 4
P104C 5
P105C 6
P106C 7
P107C 8
P108C 9
P109C 10
P110C 11
P111C 12
P112C 13
P113C 14
P114C 15
P115C 16
P116C 17
P117C 18
P118C 20
P119C 21
P120C 22
P12 23
P122C 24
P126C 25
CHICAGO STITCH
5 25 REQD
P129C 19
CONTACT NO. 1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ___ ± ___ ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ___
CONTRACT NAS 9-497

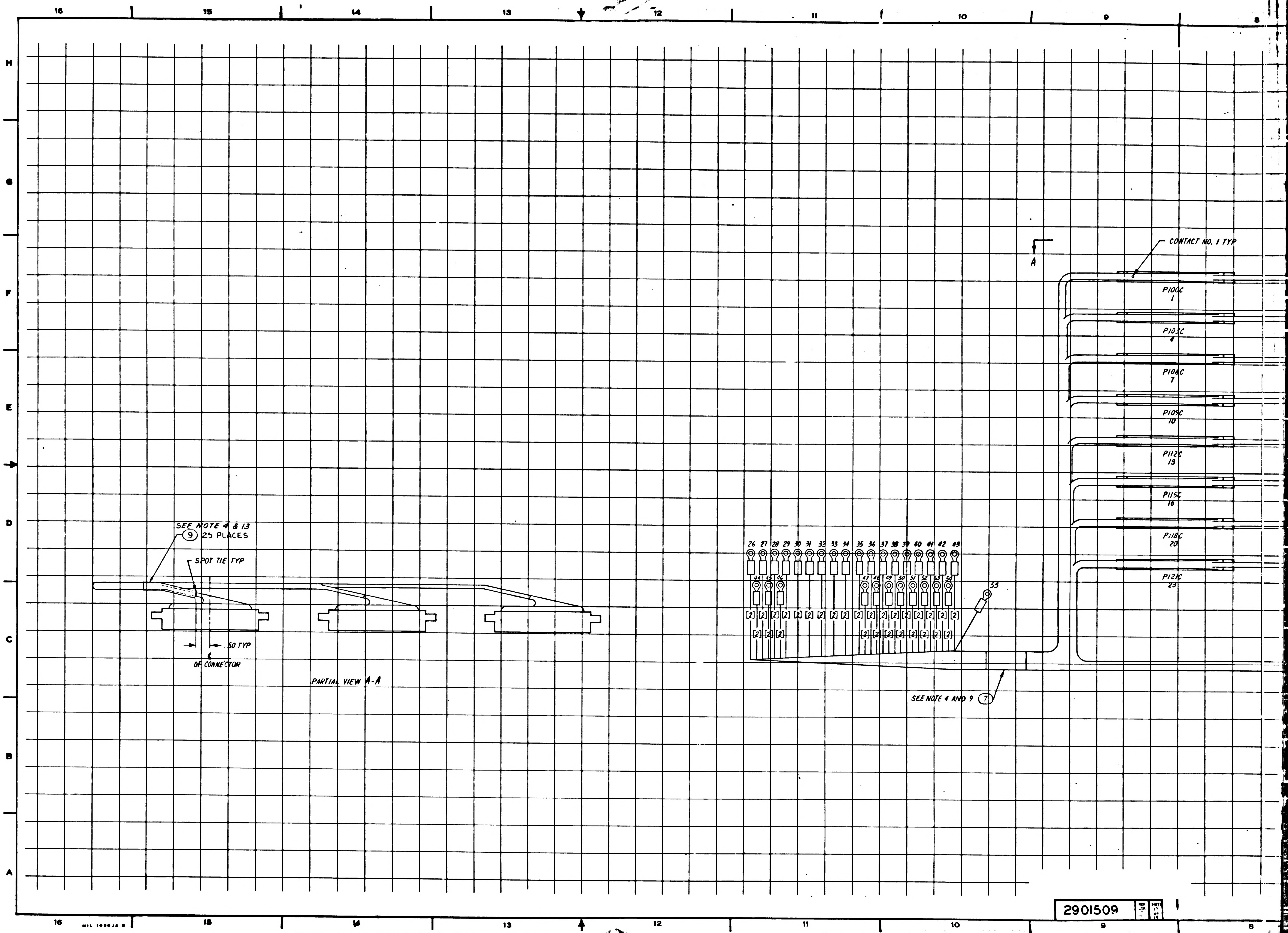
AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN DATE
CHECKED W Endl 26 APR 66
APPROVAL E Ivanow 26 APR 66
APPROVAL J. M. Watson 5-5-66
NASA APPROVAL
MIT APPROVAL 5-19-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS-"H"

CODE IDENT NO 99974
SIZE J.
2901509
SCALE 1
SHEET 19 OF 19

2/2901509


16
15
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H
G
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D
C
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A
A
CONTACT NO. 1 TYP
P100C
1
P103C
4
P106C
7
P109C
10
P112C
13
P115C
16
P118C
20
P121C
23
SEE NOTE 4 & 13
9
25 PLACES
SPOT TIE TYP
.50 TYP
℄ OF CONNECTOR
PARTIAL VIEW A-A
26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
44 45 46
47 48 49 50 51 52 53 54
55
[2]
SEE NOTE 4 AND 9
7
REV LTR
SHEET 19 OF 19

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
2901143-011	2901143-011	A	REVISED PER D.O. 62128	15 JUNE 66	J.K. JAC
		B	INITIAL RELEASE CLASS A PER TDRR 30100	27 JUNE 66	

REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
REV STATUS OF SHEETS REV				B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
REV STATUS OF SHEETS SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAFTSMAN L. LiBow 3 MAY 66
DAY MO YR
CHECKER 10 JUN 66
ENGINEER
APPROVAL
CONTR NO.
A. C. METZGER
NASA APPROVAL
MIT APPROVAL 7-5-66

RUNNING LIST

SIZE	CODE IDENT. NO	
A	99974	2901518
SCALE NONE	NAS 9-497	SHEET 1 OF 69

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
48	B														
49	B														
50	B														
51	B														
52	B														
53	B														
54	B														
55	B														
56	B														
57	B														
58	B														
59	B														
60	B														
61	B														
62	B														
63	B														
64	B														
65	B														
66	B														
67	B														
68	B														
69	B														

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 2 OF 69

MIL 1377A3 8-65

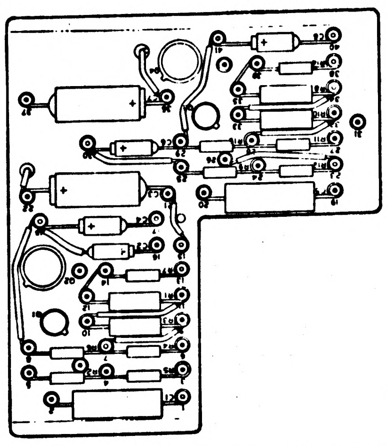


FIGURE 1
A3,4,20,21,22,23,27,32,37,45,46.
1902433-011 AC AMPLIFIER
1902451 SCHEMATIC

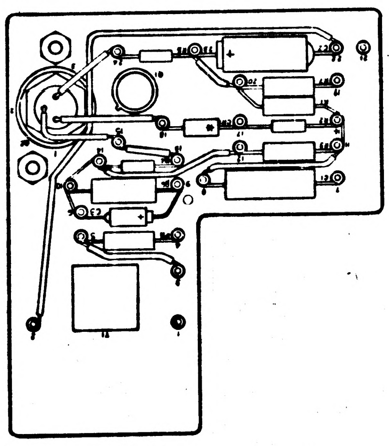


FIGURE 2 A60
1902434-011 LINE DRIVE AMPL.
1902448 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 3 OF 69

MIL 2084 8-65

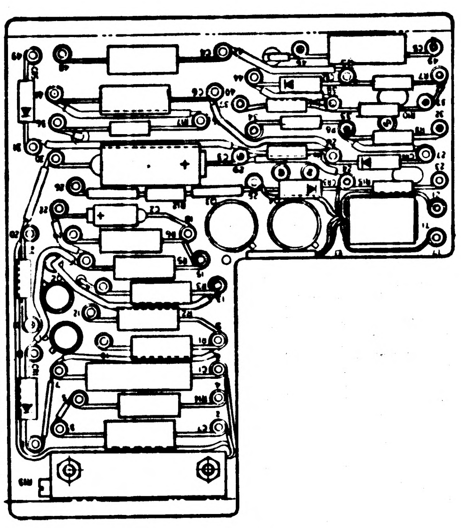


FIGURE 3 A47,48,49,50,51,52,53,54
2901154-011 GLITCH DETECTOR
2901155 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 4 OF 69

MIL 2084 8-65

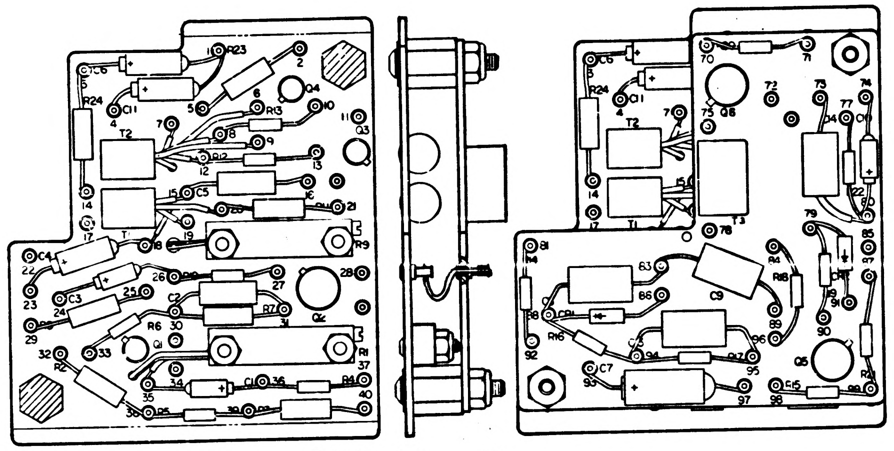


FIGURE 5 A2

2901063-011 PHASE DIFF CKT BD ASSY
2900988 SCHEMATIC

SIZE A	CODE IDENT. NO. 99974	2901518
SCALE NONE	REV LTR B	SHEET 5 of 69

MIL 2084 8-65

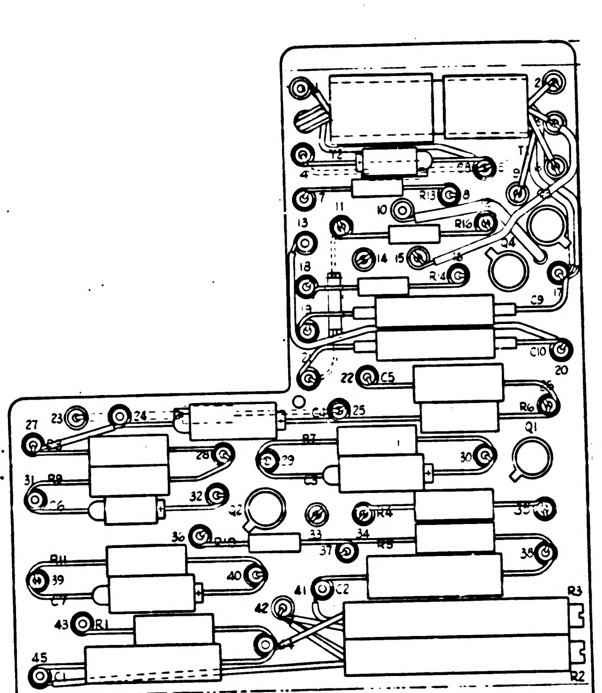


FIG 6 A5,6,7,8,9,29,30,31,38,39,40,41,42

2901176-011 DEMODULATOR PHASE SENSITIVE
2901227 SCHEMATIC
A15,16,17,24,25,26
2901176-021 DEMODULATOR PHASE SENSITIVE
2901228 SCHEMATIC

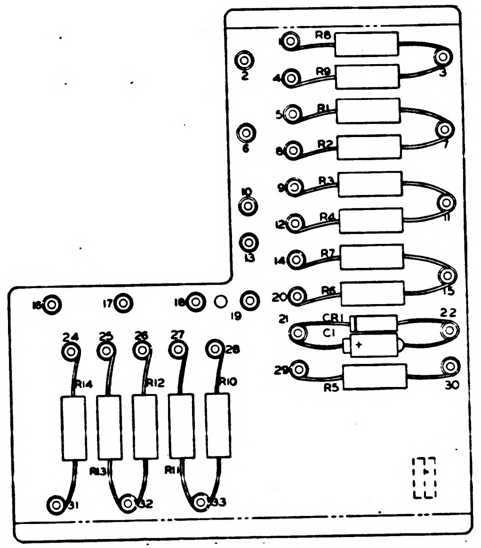


FIG 7 A59

2901168-011 ATTENUATOR ASSEMBLY
2901215 SCHEMATIC

SIZE A	CODE IDENT. NO. 99974	2901518
SCALE NONE	REV LTR B	SHEET 6 of 69

MIL 2084 8-65

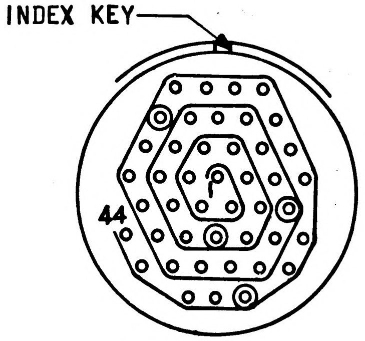


FIGURE 10
J3
1897252-109

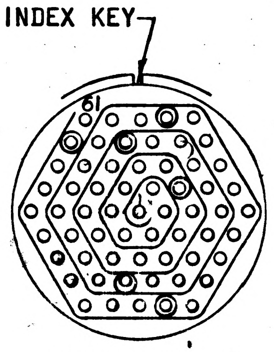


FIGURE 12
J5, J6
1897252-107-106

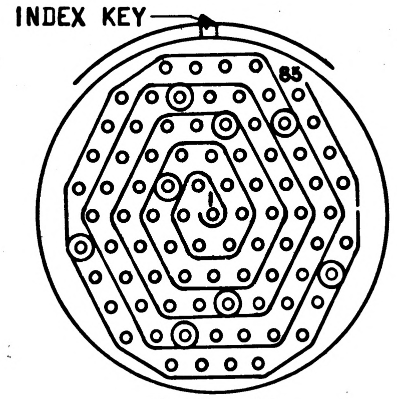


FIGURE 11
J1, J2
1897247-002-003

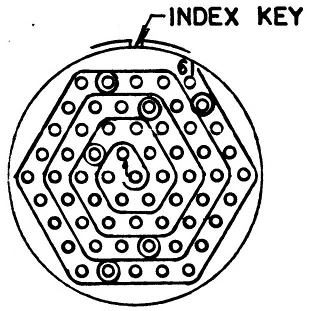


FIGURE 8
J7, J8
1897247-006-007

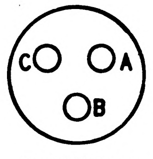


FIGURE 9
J4
MS3102R14S-7S(C) (1896916-107)

SIZE A	CODE IDENT. NO. 99974	2901518
SCALE NONE	REV LTR B	SHEET 7 of 69

MIL 2084 8-65

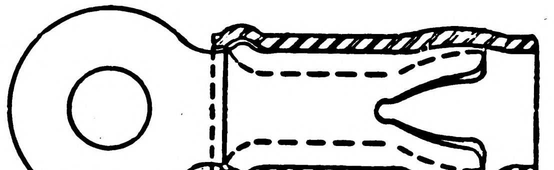


FIGURE 13
E1
1015902-45

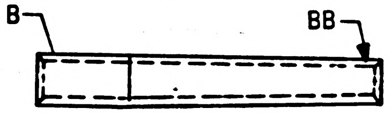


FIGURE 14
E5,7,8,11,14,15,26,31,32,34,35,36,37,42,44,51
1016006-001

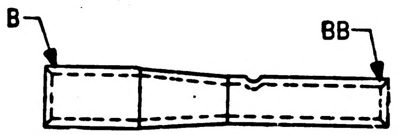


FIGURE 15
E24
1016006-002

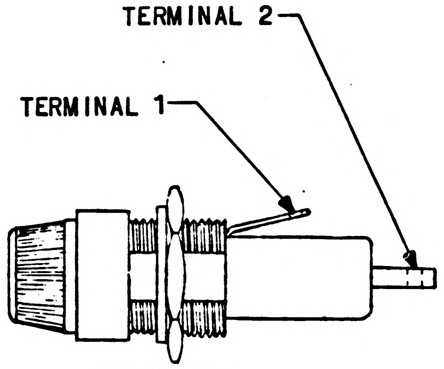


FIGURE 17
XF1
MS26572-1
F1
1897099-025

SIZE A	CODE IDENT. NO. 99974	2901518
SCALE NONE	REV LTR B	SHEET 8 of 69

MIL 2084 8-65

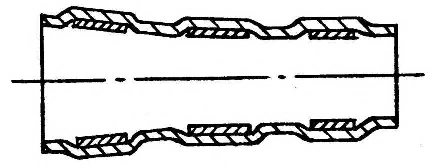
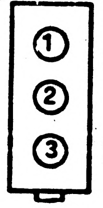


FIGURE 16

E2,3,4,6,9,10,12,13,16,17,18,19,20,21,22,23,
25,27,28,29,30,33,38,39,40,41, ,43,45,46,
47,48,49,50,52,53,54,55,56,58,60,62,63

1010763-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 9 of 69



TERMINAL NUMBERS

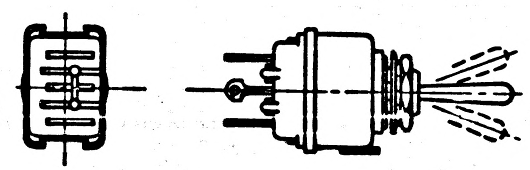


FIGURE 18
S1 & S3
1016265-004
S4, S5, & S6
1016265-006

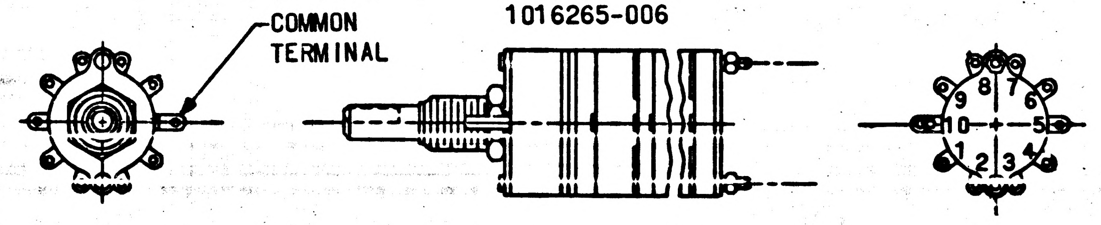

COMMON
TERMINAL
9
8
7
6
10
5
1
2
3
4

FIGURE 19
S2
1897379-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 10 of 69

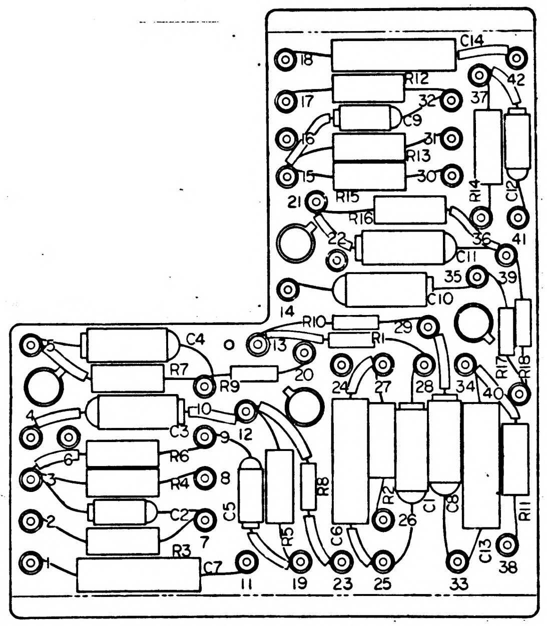

C14
18
R12
42
17
32
37
C9
16
31
R13
15
30
R14
C12
21
R15
R16
22
36
41
C11
35
39
C10
14
R10
29
R1
C4
13
R7
R9
20
R17
R18
24
27
28
34
40
10
C3
12
4
9
6
R6
3
R4
8
C5
R8
R2
C1
C8
C2
2
7
R5
C6
26
R11
C13
R3
1
C7
11
19
23
25
33
38

FIG 20 A44
2901147-011 PHASE SHIFTER 90 DEGREES
2900989 SCHEMATIC

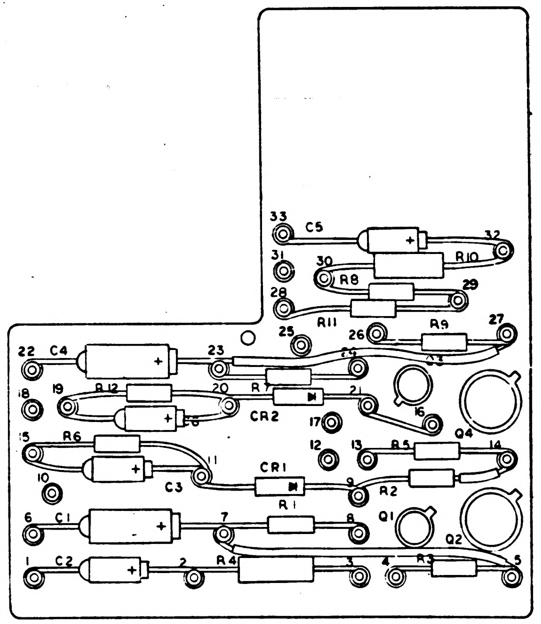

33
C5
32
31
30
R10
R8
29
28
R11
R9
27
25
26
22
C4
23
24
18
19
R12
20
R7
21
CR2
17
16
Q4
15
R6
12
13
R5
14
11
CR1
10
C3
9
R2
R1
6
C1
7
8
Q1
Q2
1
C2
2
R4
3
4
R3
5

FIG 21 A11,19,33
2901203-011 CONVERTER, WAVE FORM
2901213 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 11 of 69

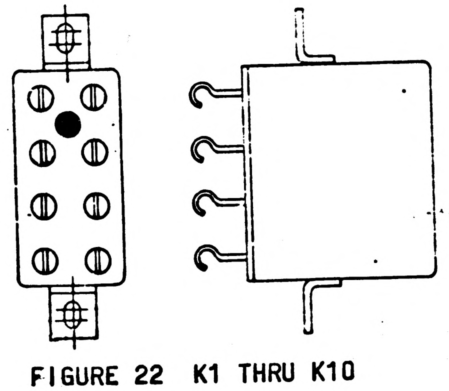


FIGURE 22 K1 THRU K10
1015832-118 RELAY

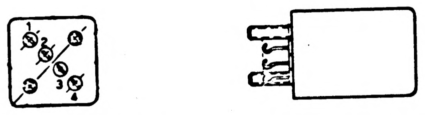


FIGURE 23 T1 THRU T3
1897413 TRANSFORMER

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR B	SHEET 12 of 69

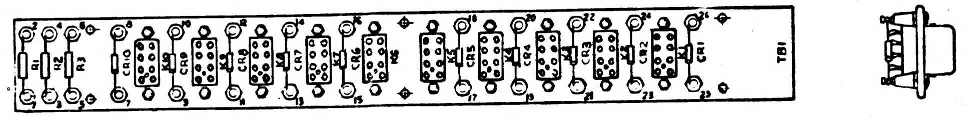


FIGURE 24 TB1
2901247 ELECTRONIC COMPONENT ASSY

SIZE A
CODE IDENT. NO. 99974
2901518
SCALE NONE
REV LTR B
SHEET 13 OF 69

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER - A - SHIELD LEAD ON FRONT END L - WHITE WITH BLUE TRACER. R - WHITE WITH RED TRACER OR WHITE WITH NO TRACER IF LEAD IS SINGLE AND SHIELDED.
3	ALL PART NUMBERS ARE FOR REFERENCE ONLY
4	PARTIAL REFERENCE DESIGNATIONS ARE SHOWN-PREFIX WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
5	DRAWINGS FOR REFERENCE 2901143-011 PSA ADAPTER MODULE (BLK II) 2901419 SCHEMATIC DIAGRAM ELECTRICAL, PSA ADAPTER MODULE 2900988 SCHEMATIC DIAGRAM ELECTRICAL, PHASE DIFF CKT 1902451 SCHEMATIC DIAGRAM ELECTRICAL, AC AMPLIFIER 2901227 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2901213 SCHEMATIC DIAGRAM ELECTRICAL, CONVERTER, WAVE FORM 2901228 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SENSITIVE DEM 2900989 SCHEMATIC DIAGRAM ELECTRICAL, PHASE SHIFTER, 90 DEG 2901155 SCHEMATIC DIAGRAM ELECTRICAL, GLITCH DETECTOR 2901215 SCHEMATIC DIAGRAM ELECTRICAL, ATTENUATOR BOARD 1902448 SCHEMATIC DIAGRAM ELECTRICAL, LINE DRIVE AMPLIFIER 2901144 WIRING HARNESS A 2901458 LEAD SET AA
6	WIRING OF ELECTRICAL PARTS AND SOCKETS SHOWN. FRONT FACE OF PIN CONNECTORS SHOWN. SOCKET CONNECTORS OPPOSITE.

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR # B
SHEET 14 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A2			PHASE DIFF CKT BD ASSY 2901063-011 FIGURE 5		
A2-3	J1-32	A 63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
A2-14	J1-15	A 64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
A2-17	E5-8	A 47	PIPA G/S OUTPUT (LO)		
A2-22	A59-2	A 39	3200 CPS BUFFERED HI		
A2-22	A20-19	A 302	3200 CPS BUFFERED HI		
A2-75	E9	A 55R	3.2 KPPS PH A (HI)		
A2-78	E10	A 55L	3.2 KPPS PH A (LO)		
A2-81	E8-8	A 541	28VDC IMU STANDBY (PSAAM PWR)		
A2-81	A47-23	A 542	28VDC IMU STANDBY (PSAAM PWR)		
A3			AC AMPLIFIER 1902433-011 FIGURE 1		
A3-1	J7-4	A 377	OG COURSE ERROR		
A3-1	J6-4	A 378	OG COURSE ERROR		
A3-9	A3-15		CDU TEST POINT + ERROR COM		
A3-9	E24-8	A 394	CDU TEST POINT + ERROR COM		
A3-13	A3-38	AA 37	28VDC IMU STANDBY (PSAAM PWR)		
A3-13	A46-38	A 508	28VDC IMU STANDBY (PSAAM PWR)		
A3-15	A3-9		CDU TEST POINT + ERROR COM		
A3-15	J2-46	A 362	CDU TEST POINT + ERROR COM		
A3-17	J2-70	A 361	OG CDU COARSE ERROR (HI)		
A3-19	J7-15	A 375	OG FINE ERROR		
A3-19	J6-15	A 376	OG FINE ERROR		
A3-31	A3-32		CDU TEST POINT + ERROR COM		
A3-31	E24-8	A 393	CDU TEST POINT + ERROR COM		
A3-32	A3-31		CDU TEST POINT + ERROR COM		
A3-32	J2-11	A 360	CDU TEST POINT + ERROR COM		
A3-38	A3-13	AA 37	28VDC IMU STANDBY (PSAAM PWR)		
A3-38	A4-13	A 509	28VDC IMU STANDBY (PSAAM PWR)		
A3-40	J2-25	A 359	OG CDU FINE ERROR (HI)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR # B
SHEET 15 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A4			AC AMPLIFIER 1902433-011 FIGURE 1		
A4-1	J7-12	A 381	SHAFT FINE ERROR		
A4-1	J6-12	A 382	SHAFT FINE ERROR		
A4-9	A4-15		CDU TEST POINT + ERROR COM		
A4-9	E24-8	A 396	CDU TEST POINT + ERROR COM		
A4-13	A4-38	AA 38	28VDC IMU STANDBY (PSAAM PWR)		
A4-13	A3-38	A 509	28VDC IMU STANDBY (PSAAM PWR)		
A4-15	A4-9		CDU TEST POINT + ERROR COM		
A4-15	J2-72	A 366	CDU TEST POINT + ERROR COM		
A4-17	J2-71	A 365	SHAFT CDU FINE ERROR (HI)		
A4-19	J7-13	A 379	TRUNNION FINE ERROR		
A4-19	J6-13	A 380	TRUNNION FINE ERROR		
A4-31	A4-32		CDU TEST POINT + ERROR COM		
A4-31	E24-8	A 395	CDU TEST POINT + ERROR COM		
A4-32	A4-31		CDU TEST POINT + ERROR COM		
A4-32	J2-27	A 364	CDU TEST POINT + ERROR COM		
A4-38	A4-13	AA 38	28VDC IMU STANDBY (PSAAM PWR)		
A4-38	A5-23	A 510	28VDC IMU STANDBY (PSAAM PWR)		
A4-40	J2-47	A 363	TRUNNION CDU FINE ERROR (HI)		
A5			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A5-1	A6-1	A 344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A5-4	A6-4	A 342	800 CPS DEM REF (HI)		
A5-13	J1-29	A 350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
A5-21	J1-30	A 349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
A5-23	A4-38	A 510	28VDC IMU STANDBY (PSAAM PWR)		
A5-23	A6-23	A 511	28VDC IMU STANDBY (PSAAM PWR)		
A5-24	E24-8	A 388	CDU TEST POINT + ERROR COM		
A5-43	T3-3	A 340	800 CPS DEMOD INPUT SIG (HI)		

SIZE A
CODE IDENT NO. 99974
2901518
SCALE-NONE
REV LTR # B
SHEET 16 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A6			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A6-1	A7-1	A 343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-1	A5-1	A 344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-4	A7-4	A 341	800 CPS DEM REF (HI)		
A6-4	A5-4	A 342	800 CPS DEM REF (HI)		
A6-13	J1-51	A 348	YAW ATT ERROR (CDU DAC OUT)(LO)		
A6-21	J1-52	A 347	YAW ATT ERROR (CDU DAC OUT)(HI)		
A6-23	A5-23	A 511	28VDC IMU STANDBY (PSAAM PWR)		
A6-23	A7-23	A 512	28VDC IMU STANDBY (PSAAM PWR)		
A6-24	E24-B	A 387	CDU TEST POINT + ERROR COM		
A6-43	T2-3	A 339	800 CPS DEMOD INPUT SIG (HI)		
A7			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A7-1	A9-1	A 258	800 CPS 28V 1 PERCENT IMU MON (LO)		
A7-1	A6-1	A 343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A7-4	A9-4	A 257	800 CPS DEM REF (HI)		
A7-4	A6-4	A 341	800 CPS DEM REF (HI)		
A7-13	J1-76	A 346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
A7-21	J1-77	A 345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
A7-23	A6-23	A 512	28VDC IMU STANDBY (PSAAM PWR)		
A7-23	A8-23	A 513	28VDC IMU STANDBY (PSAAM PWR)		
A7-24	E24-B	A 386	CDU TEST POINT + ERROR COM		
A7-43	T1-3	A 338	800 CPS DEMOD INPUT SIG (HI)		
A8			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-1	A11-28	A 240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-4	A11-31	A 239	800 CPS DEMOD REF (HI)		
A8-13	J1-54	A 254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
A8-21	J1-78	A 253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		
A8-23	A7-23	A 513	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A8			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-23	A9-23	A 514	28VDC IMU STANDBY (PSAAM PWR)		
A8-24	A22-31	A 234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-43	A22-40	A 232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A9			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A9-1	A11-15	A 256	800 CPS 28V 1 PERCENT IMU MON (LO)		
A9-1	A7-1	A 258	800 CPS 28V 1 PERCENT IMU MON (LO)		
A9-4	A11-18	A 255	800 CPS DEM REF (HI)		
A9-4	A7-4	A 257	800 CPS DEM REF (HI)		
A9-13	J1-53	A 252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
A9-21	J1-31	A 251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
A9-23	A8-23	A 514	28VDC IMU STANDBY (PSAAM PWR)		
A9-23	A11-25	A 515	28VDC IMU STANDBY (PSAAM PWR)		
A9-24	A44-16	A 242	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A9-43	A44-14	A 241	800 CPS DEMOD INPUT SIG (HI)		
A11			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-1	A59-16	A 228	BUFFERED 800 CPS-IMU MON (HI)		
A11-6	A11-15		800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-6	J5-60	A 229	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-6	J8-60	A 230	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-10	A11-25	AA 39	28VDC IMU STANDBY (PSAAM PWR)		
A11-15	A11-6		800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-15	A9-1	A 256	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-18	A9-4	A 255	800 CPS DEM REF (HI)		
A11-22	A11-28		800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-22	A21-15	A 238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-25	A11-10	AA 39	28VDC IMU STANDBY (PSAAM PWR)		
A11-25	A9-23	A 515	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A11			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-28	A11-22		800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-28	A8-1	A 240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-31	A8-4	A 239	800 CPS DEMOD REF (HI)		
A11-33	A21-17	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A15			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A15-1	A19-28	A 266	PIPA G/S OUTPUT (LO)		
A15-1	A16-1	A 306	PIPA G/S OUTPUT (LO)		
A15-4	A19-31	A 265	3200 CPS DEMOD REF (HI)		
A15-4	A16-4	A 304	3200 CPS DEMOD REF (HI)		
A15-13	J1-40	A 274	IG SERVO ERROR, QUAD (LO)		
A15-21	J1-65	A 273	IG SERVO ERROR, QUAD (HI)		
A15-23	E8-B	A 516	28VDC IMU STANDBY (PSAAM PWR)		
A15-23	A16-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A15-24	E36-B	A 295	OVDC IMU		
A15-43	A23-17	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A16			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A16-1	A15-1	A 306	PIPA G/S OUTPUT (LO)		
A16-1	A17-1	A 307	PIPA G/S OUTPUT (LO)		
A16-4	A15-4	A 304	3200 CPS DEMOD REF (HI)		
A16-4	A17-4	A 305	3200 CPS DEMOD REF (HI)		
A16-13	J1-22	A 309	MG SERVO ERROR, QUAD (LO)		
A16-21	J1-41	A 308	MG SERVO ERROR, QUAD (HI)		
A16-23	A15-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A16-23	A17-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A16-24	E36-B	A 296	OVDC IMU		
A16-43	A23-40	A 280	BUFFERED MG IRIG ERROR (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A17			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A17-1	A16-1	A 307	PIPA G/S OUTPUT (LO)		
A17-4	A16-4	A 305	3200 CPS DEMOD REF (HI)		
A17-13	J1-9	A 311	OG SERVO ERROR, QUAD (LO)		
A17-21	J1-21	A 310	OG SERVO ERROR, QUAD (HI)		
A17-23	A16-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A17-23	A19-25	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A17-24	E36-B	A 297	OVDC IMU		
A17-43	A27-17	A 303	3200 CPS DEMOD INPUT (HI)		
A19			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A19-1	A20-40	A 281	3200 CPS BUFFERED (HI)		
A19-6	A19-15		PIPA G/S OUTPUT (LO)		
A19-6	A19-22	AA 47	PIPA G/S OUTPUT (LO)		
A19-6	A20-32	A 283	PIPA G/S OUTPUT (LO)		
A19-10	A19-25	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-10	A20-38	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A19-15	A19-6		PIPA G/S OUTPUT (LO)		
A19-15	A24-1	A 260	PIPA G/S OUTPUT (LO)		
A19-18	A24-4	A 259	3200 CPS DEMOD REF (HI)		
A19-22	A19-28		PIPA G/S OUTPUT (LO)		
A19-22	A19-6	AA 47	PIPA G/S OUTPUT (LO)		
A19-25	A19-10	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-25	A17-23	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A19-28	A19-22		PIPA G/S OUTPUT (LO)		
A19-28	A15-1	A 266	PIPA G/S OUTPUT (LO)		
A19-31	A15-4	A 265	3200 CPS DEMOD REF (HI)		
A19-33	A44-4	A 285	90 DEG. BUFFERED 3200 CPS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A20			AC AMPLIFIER 1902433-011 FIGURE 1		
A20-1	A59-17	A 225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A20-9	A20-15		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-9	E35-B	A 222	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-13	A20-38	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-13	A21-38	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A20-15	A20-9		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-15	J2-31	A 250	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-17	J2-52	A 249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
A20-19	A2-22	A 302	3200 CPS BUFFERED HI		
A20-31	A20-32		PIPA G/S OUTPUT (LO)		
A20-31	A22-9	A 46	PIPA G/S OUTPUT (LO)		
A20-31	A44-20	A 284	PIPA G/S OUTPUT (LO)		
A20-32	A20-31		PIPA G/S OUTPUT (LO)		
A20-32	A19-6	A 283	PIPA G/S OUTPUT (LO)		
A20-38	A20-13	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-38	A19-10	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A20-40	A19-1	A 281	3200 CPS BUFFERED (HI)		
A20-40	A44-2	A 282	3200 CPS BUFFERED (HI)		
A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-1	A59-10	A 212	BUFFERED 800 CPS PH A IMU MON HI		
A21-9	A21-15		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-9	A59-12	A 213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-13	A21-38	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-13	A22-38	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A21-15	A21-9		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	J2-32	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	A11-22	A 238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-17	J2-55	A 235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-17	A11-33	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-19	A59-18	A 216	BUFFERED 800 CPS OPT MON HI		
A21-31	A21-32		800V CPS 28V 1 PERCENT-OPT MON (LO)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-31	E35-B	A 221	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-31	A33-6	A 247	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	A21-31		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	J2-53	A 246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-38	A21-13	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-38	A20-13	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A21-40	J2-78	A 243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A21-40	A33-1	A 244	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A22			AC AMPLIFIER 1902433-011 FIGURE 1		
A22-1	S2-C1	A 45	3200 CPS BUFFERED HI		
A22-9	A22-15		PIPA G/S OUTPUT (LO)		
A22-9	A20-31	A 46	PIPA G/S OUTPUT (LO)		
A22-9	A59-4	A 49	PIPA G/S OUTPUT (LO)		
A22-13	A22-38	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-13	A23-38	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A22-15	A22-9		PIPA G/S OUTPUT (LO)		
A22-15	A60-21	A 48	PIPA G/S OUTPUT (LO)		
A22-17	A60-7	A 50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A22-19	A59-6	A 203	BUFFERED 800 CPS PH B IMU MON HI		
A22-31	A22-32		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A59-8	A 211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A8-24	A 234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	A22-31		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	J2-80	A 233	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-38	A22-13	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-38	A21-13	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A22-40	J2-81	A 231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A22-40	A8-43	A 232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR # B	SHEET 22 OF 69	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A23			AC AMPLIFIER 1902433-011 FIGURE 1		
A23-1	J8-33	A 288	IG+Y IRIG ERROR, BUFFERED		
A23-1	J5-33	A 289	IG+Y IRIG ERROR, BUFFERED		
A23-9	A23-15		OVDC IMU		
A23-9	E36-B	A 292	OVDC IMU		
A23-13	A23-38	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-13	A24-23	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A23-15	A23-9		OVDC IMU		
A23-15	A26-24	A 276	OVDC IMU		
A23-17	A26-43	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A23-17	A15-43	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A23-19	J8-54	A 300	MG IRIG ERROR, BUFFERED		
A23-19	J5-54	A 301	MG IRIG ERROR, BUFFERED		
A23-31	A23-32		OVDC IMU		
A23-31	E36-B	A 293	OVDC IMU		
A23-32	A23-31		OVDC IMU		
A23-32	A25-24	A 278	OVDC IMU		
A23-38	A23-13	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-38	A22-13	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A23-40	A25-43	A 279	BUFFERED MG IRIG ERROR (HI)		
A23-40	A16-43	A 280	BUFFERED MG IRIG ERROR (HI)		
A24			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A24-1	A19-15	A 260	PIPA G/S OUTPUT (LO)		
A24-1	A25-1	A 263	PIPA G/S OUTPUT (LO)		
A24-4	A19-18	A 259	3200 CPS DEMOD REF (HI)		
A24-4	A25-4	A 261	3200 CPS DEMOD REF (HI)		
A24-13	J1-71	A 272	OG SERVO ERROR IN PH (LO)		
A24-21	J1-70	A 271	OG SERVO ERROR IN PH (HI)		
A24-23	A23-13	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A24-23	A25-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A24-24	E36-B	A 286	OVDC IMU		
A24-43	A27-17	A 287	3200 CPS DEMOD INPUT (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR # B	SHEET 23 OF 69	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A25			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A25-1	A24-1	A 263	PIPA G/S OUTPUT (LO)		
A25-1	A26-1	A 264	PIPA G/S OUTPUT (LO)		
A25-4	A24-4	A 261	3200 CPS DEMOD REF (HI)		
A25-4	A26-4	A 262	3200 CPS DEMOD REF (HI)		
A25-13	J1-45	A 270	MG SERVO ERROR IN PH (LO)		
A25-21	J1-25	A 269	MG SERVO ERROR IN PH (HI)		
A25-23	A24-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A25-23	A26-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A25-24	A23-32	A 278	OVDC IMU		
A25-43	A23-40	A 279	BUFFERED MG IRIG ERROR (HI)		
A26			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A26-1	A25-1	A 264	PIPA G/S OUTPUT (LO)		
A26-4	A25-4	A 262	3200 CPS DEMOD REF (HI)		
A26-13	J1-46	A 268	IG SERVO ERROR IN PH (LO)		
A26-21	J1-26	A 267	IG SERVO ERROR IN PH (HI)		
A26-23	A25-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A26-23	A27-13	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A26-24	A23-15	A 276	OVDC IMU		
A26-43	A23-17	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-1	J8-32	A 298	OG IRIG ERROR, BUFFERED		
A27-1	J5-32	A 299	OG IRIG ERROR, BUFFERED		
A27-9	E36-B	A 294	OVDC IMU		
A27-13	A27-38	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-13	A26-23	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A27-17	A24-43	A 287	3200 CPS DEMOD INPUT (HI)		
A27-17	A17-43	A 303	3200 CPS DEMOD INPUT (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR # B	SHEET 24 OF 69	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A40			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A40-21	J1-1	A 438	SXT TRUNNION SERVO ERROR IN PH (HI)		
A40-23	A39-23	A 536	28VDC IMU STANDBY (PSAAM PWR)		
A40-23	A41-23	A 537	28VDC IMU STANDBY (PSAAM PWR)		
A40-24	E44-B	A 413	SXT TRUNNION TACH (LO)		
A40-43	E43	A 404R	SXT TRUNNION MDA P/A MON (HI)		
A41			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A41-1	A40-1	A 462	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A41-1	A42-1	A 463	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A41-4	A40-4	A 454	PSD REF HI		
A41-4	A42-4	A 455	PSD REF HI		
A41-13	J1-11	A 465	SXT SHAFT MOTOR CONTROL WINDING (LO)		
A41-21	J1-3	A 464	SXT SHAFT MOTOR CONTROL WINDING (HI)		
A41-23	A40-23	A 537	28VDC IMU STANDBY (PSAAM PWR)		
A41-23	A42-23	A 538	28VDC IMU STANDBY (PSAAM PWR)		
A41-24	E42-B	A 409	SXT SHAFT TACH (LO)		
A41-43	E52	A 432	SXT SHAFT MDA O/P MON PH 1 (HI)		
A42			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A42-1	A41-1	A 463	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A42-4	A41-4	A 455	PSD REF HI		
A42-13	J1-27	A 467	SXT TRUNNION MOTOR CONTROL WINDING (LO)		
A42-21	J1-28	A 466	SXT TRUNNION MOTOR CONTROL WINDING (HI)		
A42-23	A41-23	A 538	28VDC IMU STANDBY (PSAAM PWR)		
A42-24	E44-B	A 414	SXT TRUNNION TACH (LO)		
A42-43	E53	A 437	SXT TRUNNION MDA O/P MON PH 1 (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 29 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A44			PHASE SHIFTER 90 DEG 2901147-011 FIGURE 20		
A44-2	A20-40	A 282	3200 CPS BUFFERED (HI)		
A44-4	A19-33	A 285	90 DEG. BUFFERED 3200 CPS (HI)		
A44-13	E8-B	A 540	28VDC IMU STANDBY (PSAAM PWR)		
A44-14	A9-43	A 241	800 CPS DEMOD INPUT SIG (HI)		
A44-16	A9-24	A 242	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A44-16	A33-6	A 248	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A44-17	A33-1	A 245	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A44-20	A20-31	A 284	PIPA G/S OUTPUT (LO)		
A45			AC AMPLIFIER 1902433-011 FIGURE 1		
A45-1	J7-3	A 369	IG COURSE ERROR		
A45-1	J6-3	A 370	IG COURSE ERROR		
A45-9	A45-15		CDU TEST POINT + ERROR COM		
A45-9	E24-B	A 390	CDU TEST POINT + ERROR COM		
A45-13	A45-38	AA 35	28VDC IMU STANDBY (PSAAM PWR)		
A45-13	E8-B	A 507	28VDC IMU STANDBY (PSAAM PWR)		
A45-15	A45-9		CDU TEST POINT + ERROR COM		
A45-15	J2-23	A 354	CDU TEST POINT + ERROR COM		
A45-17	J2-43	A 353	IG CDU COURSE ERROR (HI)		
A45-19	J7-14	A 367	IG FINE ERROR		
A45-19	J6-14	A 368	IG FINE ERROR		
A45-31	A45-32		CDU TEST POINT + ERROR COM		
A45-31	E24-B	A 389	CDU TEST POINT + ERROR COM		
A45-32	A45-31		CDU TEST POINT + ERROR COM		
A45-32	J2-42	A 352	CDU TEST POINT + ERROR COM		
A45-38	A45-13	AA 35	28VDC IMU STANDBY (PSAAM PWR)		
A45-38	A46-13	A 407	28VDC IMU STANDBY (PSAAM PWR)		
A45-40	J2-66	A 351	IG CDU FINE ERROR (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 30 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A46			AC AMPLIFIER 1902433-011 FIGURE 1		
A46-1	J7-1	A 373	MG COURSE ERROR		
A46-1	J6-1	A 374	MG COURSE ERROR		
A46-9	A46-15		CDU TEST POINT + ERROR COM		
A46-9	E24-B	A 392	CDU TEST POINT + ERROR COM		
A46-13	A46-38	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-13	A45-38	A 407	28VDC IMU STANDBY (PSAAM PWR)		
A46-15	A46-9		CDU TEST POINT + ERROR COM		
A46-15	J2-45	A 358	CDU TEST POINT + ERROR COM		
A46-17	J2-69	A 357	MG CDU COARSE ERROR (HI)		
A46-19	J7-5	A 371	MG FINE ERROR		
A46-19	J6-5	A 372	MG FINE ERROR		
A46-31	A46-32		CDU TEST POINT + ERROR COM		
A46-31	E24-B	A 391	CDU TEST POINT + ERROR COM		
A46-32	A46-31		CDU TEST POINT + ERROR COM		
A46-32	J2-67	A 356	CDU TEST POINT + ERROR COM		
A46-38	A46-13	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-38	A3-13	A 508	28VDC IMU STANDBY (PSAAM PWR)		
A46-40	J2-68	A 355	MG CDU FINE ERROR (HI)		
A47			GLITCH DETECTOR 2901154-011 FIGURE 3		
A47-2	E19	A 111	+14VDC CGC T.P.		
A47-4	J1-85	A 143	+14VDC CGC SUPP, NOISE RMS		
A47-4	J1-84	A 144	+14VDC CGC SUPP, NOISE RMS		
A47-17	J2-85	A 148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
A47-21	J2-61	A 149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
A47-23	A2-81	A 542	28VDC IMU STANDBY (PSAAM PWR)		
A47-23	A48-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A47-37	A47-42		IMU OPERATE OVDC		
A47-37	E26-B	A 105	IMU OPERATE OVDC		
A47-42	A47-37		IMU OPERATE OVDC		
A47-42	J1-60	A 147	IMU OPERATE OVDC		

SIZE	CODE IDENT NO.		
A	99974	2901518	
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A48			GLITCH DETECTOR 2901154-011 FIGURE 3		
A48-2	E20	A 114	+4VDC CGC T.P.		
A48-4	J1-82	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-4	J1-83	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-17	J2-84	A 151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
A48-21	J2-60	A 152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
A48-23	A47-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A48-23	A49-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A48-37	A48-42		IMU OPERATE OVDC		
A48-37	E26-B	A 106	IMU OPERATE OVDC		
A48-42	A48-37		IMU OPERATE OVDC		
A48-42	J1-58	A 150	IMU OPERATE OVDC		
A49			GLITCH DETECTOR 2901154-011 FIGURE 3		
A49-2	E21	A 117	+120VDC PIPA (HI)		
A49-4	J1-62	A 153	+120VDC PIPA, NOISE RMS (HI)		
A49-17	J2-83	A 155	+120VDC PIPA NOISE PEAKS (HI)		
A49-21	J2-59	A 156	+120VDC PIPA NOISE PEAKS (LO)		
A49-23	A48-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A49-23	A50-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A49-37	A49-42		+120VDC PIPA RETURN		
A49-37	E22	A 120	+120VDC PIPA RETURN		
A49-42	A49-37		+120VDC PIPA RETURN		
A49-42	J1-63	A 154	+120VDC PIPA RETURN		
A50			GLITCH DETECTOR 2901154-011 FIGURE 3		
A50-2	E23	A 122	CDU TEST POINT 4V		
A50-4	J1-36	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-4	J1-59	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-17	J2-82	A 160	+4VDC CDU SUPP NOISE PEAKS (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 32 OF 69

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A50			GLITCH DETECTOR 2901154-011 FIGURE 3		
A50-21	J2-58	A 161	+4VDC CDU SUPP NOISE PEAKS (LO)		
A50-23	A49-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A50-23	A51-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A50-37	A50-42		CDU TEST POINT + ERROR COM		
A50-37	E24-B	A 125	CDU TEST POINT + ERROR COM		
A50-42	A50-37		CDU TEST POINT + ERROR COM		
A50-42	J1-35	A 159	CDU TEST POINT + ERROR COM		
A51			GLITCH DETECTOR 2901154-011 FIGURE 3		
A51-2	E25	A 128	IMU OPERATE +28VDC T.P.		
A51-4	J1-56	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-4	J1-57	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-17	J2-38	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
A51-21	J2-39	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
A51-23	A50-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A51-23	A52-23	A 547	28VDC IMU STANDBY (PSAAM PWR)		
A51-37	A51-42		IMU OPERATE OVDC		
A51-37	E26-B	A 107	IMU OPERATE OVDC		
A51-42	A51-37		IMU OPERATE OVDC		
A51-42	J1-34	A 164	IMU OPERATE OVDC		
A52			GLITCH DETECTOR 2901154-011 FIGURE 3		
A52-2	E27	A 131	+28VDC IMU STANDBY T.P.		
A52-4	J1-16	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-4	J1-33	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-17	J2-37	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
A52-21	J2-20	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
A52-23	A51-23	A 547	28VDC IMU STANDBY (PSAAM PWR)		
A52-23	A53-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		

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A	99974	2901518	
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A52			GLITCH DETECTOR 2901154-011 FIGURE 3		
A52-37	A52-42		IMU OPERATE OVDC		
A52-37	E26-B	A 108	IMU OPERATE OVDC		
A52-42	A52-37		IMU OPERATE OVDC		
A52-42	J1-17	A 169	IMU OPERATE OVDC		
A53			GLITCH DETECTOR 2901154-011 FIGURE 3		
A53-2	E28	A 134	+28VDC COMPUTER T.P.		
A53-4	J1-6	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-4	J1-18	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-17	J2-36	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
A53-21	J2-19	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
A53-23	A52-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		
A53-23	A54-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A53-37	A53-42		IMU OPERATE OVDC		
A53-37	E26-B	A 109	IMU OPERATE OVDC		
A53-42	A53-37		IMU OPERATE OVDC		
A53-42	J1-7	A 175	IMU OPERATE OVDC		
A54			GLITCH DETECTOR 2901154-011 FIGURE 3		
A54-2	E29	A 137	OPTICS +28VDC T.P.		
A54-4	J1-19	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-4	J1-20	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-17	J2-35	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
A54-21	J2-18	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
A54-23	A53-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A54-23	A59-19	A 550	28VDC IMU STANDBY (PSAAM PWR)		
A54-37	A54-42		OPTICS OVDC		
A54-37	E30	A 140	OPTICS OVDC		
A54-42	A54-37		OPTICS OVDC		

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A	99974	2901518	
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A54			GLITCH DETECTOR 2901154-011 FIGURE 3		
A54-42	J1-8	A 180	OPTICS OVDC		
A59			ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-1	E6	A 32	3200 CPS 28V 1 PERCENT MON (HI)		
A59-2	K7-3	A 38	3200 CPS BUFFERED HI		
A59-2	A2-22	A 39	3200 CPS BUFFERED HI		
A59-4	E5-BB	A 29	PIPA G/S OUTPUT (LO)		
A59-4	A22-9	A 49	PIPA G/S OUTPUT (LO)		
A59-5	J8-18	A 201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-5	J5-18	A 202	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-6	A22-19	A 203	BUFFERED 800 CPS PH B IMU MON HI		
A59-8	E34-BB	A 207	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-8	A22-31	A 211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-9	J5-17	A 209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-9	J8-17	A 210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-10	A21-1	A 212	BUFFERED 800 CPS PH A IMU MON HI		
A59-12	E34-BB	A 208	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-12	A21-9	A 213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-13	K2-8	A 87	SERVO AMP TEST INPUT		
A59-14	E26-B	A 104	IMU OPERATE OVDC		
A59-16	A11-1	A 228	BUFFERED 800 CPS-IMU MON (HI)		
A59-17	A20-1	A 225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A59-18	A21-19	A 216	BUFFERED 800 CPS OPT MON HI		
A59-19	A54-23	A 550	28VDC IMU STANDBY (PSAAM PWR)		
A59-19	A60-19	A 551	28VDC IMU STANDBY (PSAAM PWR)		
A59-20	K3-8	A 88	SERVO AMP TEST INPUT (IG)		
A59-24	J8-59	A 226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-24	J5-59	A 227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-25	E35-B	A 220	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A59-26	J8-35	A 223	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-26	J5-35	A 224	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-27	E35-B	A 219	800V CPS 28V 1 PERCENT-OPT MON (LO)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A59			ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-28	J8-58	A 214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A59-28	J5-58	A 215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A60			LINE DRIVE AMP 1902434-011 FIGURE 2		
A60-1	J4-B	A 52	PIPA HARDLINE B (LO)		
A60-3	J4-A	A 51	PIPA HARDLINE A (HI)		
A60-7	A22-17	A 50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A60-19	A59-19	A 551	28VDC IMU STANDBY (PSAAM PWR)		
A60-21	A22-15	A 48	PIPA G/S OUTPUT (LO)		
E1			TERMINAL LUG 1015902-45 FIGURE 13		
E1	J4-C	A 53	STRUCTURE AND SHIELD GROUND		
E1	E11-B	A 62	STRUCTURE AND SHIELD GROUND		
E2			SOLDER SLEEVE 1010763-001 FIGURE 16		
E2	J7-19	A 9	Y PIPA G/S OUTPUT (HI)		
E2	J6-19	A 10	Y PIPA G/S OUTPUT (HI)		
E2	K9-3	A 11	Y PIPA G/S OUTPUT (HI)		
E3			SOLDER SLEEVE 1010763-001 FIGURE 16		
E3	J7-60	A 13	Z PIPA G/S OUTPUT (HI)		
E3	J6-60	A 14	Z PIPA G/S OUTPUT (HI)		
E3	K10-3	A 16	Z PIPA G/S OUTPUT (HI)		

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FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E4				SOLDER SLEEVE 1010763-001 FIGURE 16		
E4	J6-38	A	17	X PIPA G/S OUTPUT (HI)		
E4	J7-38	A	18	X PIPA G/S OUTPUT (HI)		
E4	K8-3	A	19	X PIPA G/S OUTPUT (HI)		
E5				SPLICE REDUCER 1016006-001 FIGURE 14		
E5-B	E5-BB			PIPA G/S OUTPUT (LO)		
E5-B	J6-61	A	21	PIPA G/S OUTPUT (LO)		
E5-B	J6-37	A	22	PIPA G/S OUTPUT (LO)		
E5-B	J6-20	A	23	PIPA G/S OUTPUT (LO)		
E5-B	J7-61	A	24	PIPA G/S OUTPUT (LO)		
E5-B	J7-37	A	25	PIPA G/S OUTPUT (LO)		
E5-B	J7-20	A	26	PIPA G/S OUTPUT (LO)		
E5-B	A2-17	A	47	PIPA G/S OUTPUT (LO)		
E5-BB	E5-B			PIPA G/S OUTPUT (LO)		
E5-BB	J8-57	A	27	PIPA G/S OUTPUT (LO)		
E5-BB	J5-57	A	28	PIPA G/S OUTPUT (LO)		
E5-BB	A59-4	A	29	PIPA G/S OUTPUT (LO)		
E6				SOLDER SLEEVE 1010763-001 FIGURE 16	C	
E6	J8-56	A	30	3200 CPS 28V 1 PERCENT MON (HI)		
E6	J5-56	A	31	3200 CPS 28V 1 PERCENT MON (HI)		
E6	A59-1	A	32	3200 CPS 28V 1 PERCENT MON (HI)		
E7				SPLICE REDUCER 1016006-001 FIGURE 14		
E7-B	E7-BB			28VDC IMU STANDBY (PSAAM PWR)		
E7-B	J7-57	A	4	28VDC IMU STANDBY (PSAAM PWR)		

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FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E7				SPLICE REDUCER 1016006-001 FIGURE 14		
E7-B	J7-58	A	5	28VDC IMU STANDBY (PSAAM PWR)		
E7-B	J7-59	A	6	28VDC IMU STANDBY (PSAAM PWR)		
E7-BB	E7-B			28VDC IMU STANDBY (PSAAM PWR)		
E7-BB	S1-2	A	7	28VDC IMU STANDBY (PSAAM PWR)		
E7-BB	XF1-1	A	8	28VDC IMU STANDBY (PSAAM PWR)		
E8				SPLICE REDUCER 1016006-001 FIGURE 14		
E8-B	E8-BB			28VDC IMU STANDBY (PSAAM PWR)		
E8-B	A45-13	A	507	28VDC IMU STANDBY (PSAAM PWR)		
E8-B	A15-23	A	516	28VDC IMU STANDBY (PSAAM PWR)		
E8-B	A29-23	A	528	28VDC IMU STANDBY (PSAAM PWR)		
E8-B	A44-13	A	540	28VDC IMU STANDBY (PSAAM PWR)		
E8-B	A2-81	A	541	28VDC IMU STANDBY (PSAAM PWR)		
E8-BB	E8-B			28VDC IMU STANDBY (PSAAM PWR)		
E8-BB	S1-3	A	54	28VDC IMU STANDBY (PSAAM PWR)		
E9				SOLDER SLEEVE 1010763-001 FIGURE 16		
E9	A2-75	A	55R	3.2 KPPS PH A (HI)		
E9	J7-45	A	56	3.2 KPPS PH A (HI)		
E9	J6-45	A	57	3.2 KPPS PH A (HI)		
E10				SOLDER SLEEVE 1010763-001 FIGURE 16		
E10	A2-78	A	55L	3.2 KPPS PH A (LO)		
E10	J6-46	A	58	3.2 KPPS PH A (LO)		
E10	J7-46	A	59	3.2 KPPS PH A (LO)		

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FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E11				SPLICE REDUCER 1016006-001 FIGURE 14		
E11-B	E11-BB			STRUCTURE AND SHIELD GROUND		
E11-B	SHLD OFA55	A	55A	STRUCTURE AND SHIELD GROUND		
E11-B	E1	A	62	STRUCTURE AND SHIELD GROUND		
E11-B	J5-50	A	553	STRUCTURE AND SHIELD GROUND		
E11-BB	E11-B			STRUCTURE AND SHIELD GROUND		
E11-BB	J6-25	A	60	STRUCTURE AND SHIELD GROUND		
E11-BB	J7-25	A	61	STRUCTURE AND SHIELD GROUND		
E11-BB	J6-50	A	552	STRUCTURE AND SHIELD GROUND		
E12				SOLDER SLEEVE 1010763-001 FIGURE 16		
E12	K6-7	A	67	OVDC COMPUTER T.P.		
E12	J6-42	A	68	OVDC COMPUTER T.P.		
E12	J7-42	A	69	OVDC COMPUTER T.P.		
E13				SOLDER SLEEVE 1010763-001 FIGURE 16		
E13	S3-1	A	70	INHIBIT POWER FAIL		
E13	J6-39	A	71	INHIBIT POWER FAIL		
E13	J7-39	A	72	INHIBIT POWER FAIL		
E14				SPLICE REDUCER 1016006-001 FIGURE 14		
E14	J7-16	A	184	-28VDC (T.P. HI)		
E14	J6-16	A	185	-28VDC (T.P. HI)		
E14	J1-79	A	186	-28VDC (T.P. HI)		

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FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E15				SPLICE REDUCER 1016006-001 FIGURE 14		
E15	J6-33	A	187	-28VDC (LO)		
E15	J7-33	A	188	-28VDC (LO)		
E15	J1-55	A	189	-28VDC (LO)		
E16				SOLDER SLEEVE 1010763-001 FIGURE 16		
E16	K3-3	A	91	SERVO AMP TEST INPUT (IG)		
E16	J6-18	A	92	SERVO AMP TEST INPUT (IG)		
E16	J7-18	A	93	SERVO AMP TEST INPUT (IG)		
E17				SOLDER SLEEVE 1010763-001 FIGURE 16		
E17	K2-3	A	96	SERVO AMP TEST INPUT (MG)		
E17	J6-6	A	97	SERVO AMP TEST INPUT (MG)		
E17	J7-6	A	98	SERVO AMP TEST INPUT (MG)		
E18				SOLDER SLEEVE 1010763-001 FIGURE 16		
E18	K1-3	A	101	SERVO AMP TEST INPUT (OG)		
E18	J7-7	A	102	SERVO AMP TEST INPUT (OG)		
E18	J6-7	A	103	SERVO AMP TEST INPUT (OG)		
E19				SOLDER SLEEVE 1010763-001 FIGURE 16		
E19	A47-2	A	111	+14VDC CGC T.P.		
E19	J6-22	A	112	+14VDC CGC T.P.		
E19	J7-22	A	113	+14VDC CGC T.P.		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E20			SOLDER SLEEVE 1010763-001 FIGURE 16		
E20	A48-2	A 114	+4VDC CGC T.P.		
E20	J6-9	A 115	+4VDC CGC T.P.		
E20	J7-9	A 116	+4VDC CGC T.P.		
E21			SOLDER SLEEVE 1010763-001 FIGURE 16		
E21	A49-2	A 117	+120VDC PIPA (HI)		
E21	J6-47	A 118	+120VDC PIPA (HI)		
E21	J7-47	A 119	+120VDC PIPA (HI)		
E22			SOLDER SLEEVE 1010763-001 FIGURE 16		
E22	J7-48	A 78	+120VDC PIPA RETURN		
E22	A49-37	A 120	+120VDC PIPA RETURN		
E22	J6-48	A 121	+120VDC PIPA RETURN		
E23			SOLDER SLEEVE 1010763-001 FIGURE 16		
E23	A50-2	A 122	CDU TEST POINT 4V		
E23	J7-26	A 123	CDU TEST POINT 4V		
E23	J6-26	A 124	CDU TEST POINT 4V		
E24			SPLICE REDUCER 1016006-002 FIGURE 15		
E24-B	E24-BB		CDU TEST POINT + ERROR COM		
E24-B	A50-37	A 125	CDU TEST POINT + ERROR COM		
E24-B	A7-24	A 386	CDU TEST POINT + ERROR COM		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E24			SPLICE REDUCER 1016006-002 FIGURE 15		
E24-B	A6-24	A 387	CDU TEST POINT + ERROR COM		
E24-B	A5-24	A 388	CDU TEST POINT + ERROR COM		
E24-B	A45-31	A 389	CDU TEST POINT + ERROR COM		
E24-B	A45-9	A 390	CDU TEST POINT + ERROR COM		
E24-B	A46-31	A 391	CDU TEST POINT + ERROR COM		
E24-B	A46-9	A 392	CDU TEST POINT + ERROR COM		
E24-B	A3-31	A 393	CDU TEST POINT + ERROR COM		
E24-B	A3-9	A 394	CDU TEST POINT + ERROR COM		
E24-B	A4-31	A 395	CDU TEST POINT + ERROR COM		
E24-B	A4-9	A 396	CDU TEST POINT + ERROR COM		
E24-BB	E24-B		CDU TEST POINT + ERROR COM		
E24-BB	J6-27	A 126	CDU TEST POINT + ERROR COM		
E24-BB	J7-27	A 127	CDU TEST POINT + ERROR COM		
E24-BB	T1-4	A 383	CDU TEST POINT + ERROR COM		
E24-BB	T2-4	A 384	CDU TEST POINT + ERROR COM		
E24-BB	T3-4	A 385	CDU TEST POINT + ERROR COM		
E25			SOLDER SLEEVE 1010763-001 FIGURE 16		
E25	A51-2	A 128	IMU OPERATE +28VDC T.P.		
E25	J8-15	A 129	IMU OPERATE +28VDC T.P.		
E25	J5-15	A 130	IMU OPERATE +28VDC T.P.		
E26			SPLICE REDUCER 1016006-001 FIGURE 14		
E26-B	E26-BB		IMU OPERATE OVDC		
E26-B	A59-14	A 104	IMU OPERATE OVDC		
E26-B	A47-37	A 105	IMU OPERATE OVDC		
E26-B	A48-37	A 106	IMU OPERATE OVDC		
L26-B	A51-37	A 107	IMU OPERATE OVDC		
E26-B	A52-37	A 108	IMU OPERATE OVDC		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E26			SPLICE REDUCER 1016006-001 FIGURE 14		
E26-B	A53-37	A 109	IMU OPERATE OVDC		
E26-BB	E26-B		IMU OPERATE OVDC		
E26-BB	J5-14	A 79	IMU OPERATE OVDC		
E26-BB	J8-14	A 110	IMU OPERATE OVDC		
E26-BB	J2-29	A 476	IMU OPERATE OVDC		
E27			SOLDER SLEEVE 1010763-001 FIGURE 16		
E27	A52-2	A 131	+28VDC IMU STANDBY T.P.		
E27	J8-5	A 132	+28VDC IMU STANDBY T.P.		
E27	J5-5	A 133	+28VDC IMU STANDBY T.P.		
E28			SOLDER SLEEVE 1010763-001 FIGURE 16		
E28	A53-2	A 134	+28VDC COMPUTER T.P.		
E28	J7-41	A 135	+28VDC COMPUTER T.P.		
E28	J6-41	A 136	+28VDC COMPUTER T.P.		
E29			SOLDER SLEEVE 1010763-001 FIGURE 16		
E29	A54-2	A 137	OPTICS +28VDC T.P.		
E29	J8-6	A 138	OPTICS +28VDC T.P.		
E29	J5-6	A 139	OPTICS +28VDC T.P.		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E30			SOLDER SLEEVE 1010763-001 FIGURE 16		
E30	A54-37	A 140	OPTICS OVDC		
E30	J5-16	A 141	OPTICS OVDC		
E30	J8-16	A 142	OPTICS OVDC		
E31			SPLICE REDUCER 1016006-001 FIGURE 14		
E31-B	E31-BB		+20VDC T.P. HI		
E31-B	J1-38	A 190	+20VDC T.P. HI		
E31-B	J1-61	A 191	+20VDC T.P. HI		
E31-B	J7-31	A 192	+20VDC T.P. HI		
E31-BB	E31-B		+20VDC T.P. HI		
E31-BB	J6-31	A 193	+20VDC T.P. HI		
E32			SPLICE REDUCER 1016006-001 FIGURE 14		
E32-B	E32-BB		+20VDC RETURN		
E32-B	J7-53	A 195	+20VDC RETURN		
E32-B	J1-37	A 196	+20VDC RETURN		
E32-B	J1-39	A 197	+20VDC RETURN		
E32-BB	E32-B		+20VDC RETURN		
E32-BB	J6-53	A 194	+20VDC RETURN		
E33			SOLDER SLEEVE 1010763-001 FIGURE 16		
E33	J7-52	A 198	-20VDC T.P. HI		
E33	J6-52	A 199	-20VDC T.P. HI		
E33	J1-64	A 200	-20VDC T.P. HI		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E48			SOLDER SLEEVE 1010763-001 FIGURE 16		
E48	A32-31	A 420L	SCT SHAFT MDA TACH FEEDBACK (LO)		
E48	J5-45	A 423	SCT SHAFT MDA TACH FEEDBACK (LO)		
E48	J8-45	A 424	SCT SHAFT MDA TACH FEEDBACK (LO)		
E49			SOLDER SLEEVE 1010763-001 FIGURE 16		
E49	A37-1	A 425R	SCT TRUNNION MDA TACH MON (HI)		
E49	J5-47	A 426	SCT TRUNNION MDA TACH MON (HI)		
E49	J8-47	A 427	SCT TRUNNION MDA TACH MON (HI)		
E50			SOLDER SLEEVE 1010763-001 FIGURE 16		
E50	A37-9	A 425L	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E50	J5-46	A 428	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E50	J8-46	A 429	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E51			SPLICE REDUCER 1016006-001 FIGURE 14		
E51-B	E51-BB		0 VDC OPTICS (SHIELD)		
E51-B	SHLD A401	A 401A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A404	A 404A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A410	A 410A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A415	A 415A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A420	A 420A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A425	A 425A	0 VDC OPTICS (SHIELD)		
E51-BB	E51-B		0 VDC OPTICS (SHIELD)		
E51-BB	J8-26	A 433	0 VDC OPTICS (SHIELD)		
E51-BB	J5-26	A 434	0 VDC OPTICS (SHIELD)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E52			SOLDER SLEEVE 1010763-001 FIGURE 16		
E52	J5-31	A 430	SXT SHAFT MDA O/P MON PH 1 (HI)		
E52	J8-31	A 431	SXT SHAFT MDA O/P MON PH 1 (HI)		
E52	A41-43	A 432	SXT SHAFT MDA O/P MON PH 1 (HI)		
E53			SOLDER SLEEVE 1010763-001 FIGURE 16		
E53	J5-52	A 435	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E53	J8-52	A 436	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E53	A42-43	A 437	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E54			SOLDER SLEEVE 1010763-001 FIGURE 16		
E54	J8-8	A 477	IRIG TEMP (FROM SIG COND) (HI)		
E54	J5-8	A 478	IRIG TEMP (FROM SIG COND) (HI)		
E54	J1-68	A 479	IRIG TEMP (FROM SIG COND) (HI)		
E55			SOLDER SLEEVE 1010763-001 FIGURE 16		
E55	J8-9	A 480	IRIG TEMP (FROM SIG COND) (LO)		
E55	J5-9	A 481	IRIG TEMP (FROM SIG COND) (LO)		
E55	J1-44	A 482	IRIG TEMP (FROM SIG COND) (LO)		
E56			SOLDER SLEEVE 1010763-001 FIGURE 16		
E56	J5-19	A 483	CONTROL HEATER SIGNAL (TELE)		
E56	J8-19	A 484	CONTROL HEATER SIGNAL (TELE)		
E56	J2-30	A 485	CONTROL HEATER SIGNAL (TELE)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E58			SOLDER SLEEVE 1010763-001 FIGURE 16		
E58	J6-2	A 489	CGC TEMPERATURE MON (LO)		
E58	J7-2	A 490	CGC TEMPERATURE MON (LO)		
E58	J2-6	A 491	CGC TEMPERATURE MON (LO)		
E60			SOLDER SLEEVE 1010763-001 FIGURE 16		
E60	J6-32	A 495	PIPA CAL MOD TEMP (LO)		
E60	J7-32	A 496	PIPA CAL MOD TEMP (LO)		
E60	J2-5	A 497	PIPA CAL MOD TEMP (LO)		
E62			SOLDER SLEEVE 1010763-001 FIGURE 16		
E62	J6-55	A 501	PSA TEMPERATURE (LO)		
E62	J7-55	A 502	PSA TEMPERATURE (LO)		
E62	J2-14	A 503	PSA TEMPERATURE (LO)		
E63			SOLDER SLEEVE 1010763-001 FIGURE 16		
E63	J5-36	A 504	BLOWER SIGNAL (TELE) HI		
E63	J8-36	A 505	BLOWER SIGNAL (TELE) HI		
E63	J2-51	A 506	BLOWER SIGNAL (TELE) HI		
J1			CONNECTOR 1897247-002 FIGURE 11		
J1-1	A40-21	A 438	SXT TRUNNION SERVO ERROR IN PH (HI)		
J1-2	A39-21	A 397	SXT SHAFT SERVO ERROR IN PH (HI)		
J1-3	A41-21	A 464	SXT SHAFT MOTOR CONTROL WINDING (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-4	A40-13	A 439	SXT TRUNNION SERVO ERROR IN PH (LO)		
J1-5	A31-21	A 440	SXT SHAFT TACH OUT (HI)		
J1-6	A53-4	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-7	A53-42	A 175	IMU OPERATE OVDC		
J1-8	A54-42	A 180	OPTICS OVDC		
J1-9	A17-13	A 311	OG SERVO ERROR, QUAD (LO)		
J1-10	A39-13	A 398	SXT SHAFT SERVO ERROR IN PH (LO)		
J1-11	A41-13	A 465	SXT SHAFT MOTOR CONTROL WINDING (LO)		
J1-12	A30-21	A 442	SXT TRUNNION TACH OUT (HI)		
J1-13	A30-13	A 443	SXT TRUNNION TACH OUT (LO)		
J1-14	A31-13	A 441	SXT SHAFT TACH OUT (LO)		
J1-15	A2-14	A 64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
J1-16	A52-4	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-17	A52-42	A 169	IMU OPERATE OVDC		
J1-18	A53-4	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-19	A54-4	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-20	A54-4	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-21	A17-21	A 310	OG SERVO ERROR, QUAD (HI)		
J1-22	A16-13	A 309	MG SERVO ERROR, QUAD (LO)		
J1-23	E37-B	A 315	SERVO AMP TEST POINT LO		
J1-24	E39	A 322	SERVO AMP OUTPUT MON (OG LO)		
J1-25	A25-21	A 269	MG SERVO ERROR IN PH (HI)		
J1-26	A26-21	A 267	IG SERVO ERROR IN PH (HI)		
J1-27	A42-13	A 467	SXT TRUNNION MOTOR CONTROL WINDING (LO)		
J1-28	A42-21	A 466	SXT TRUNNION MOTOR CONTROL WINDING (HI)		
J1-29	A5-13	A 350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
J1-30	A5-21	A 349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
J1-31	A9-21	A 251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
J1-32	A2-3	A 63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
J1-33	A52-4	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-34	A51-42	A 164	IMU OPERATE OVDC		
J1-35	A50-42	A 159	CDU TEST POINT + ERROR COM		
J1-36	A50-4	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-37	E32-B	A 196	+20VDC RETURN		
J1-38	E31-B	A 190	+20VDC T.P. HI		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-39	E32-B	A 197	+20VDC RETURN		
J1-40	A15-13	A 274	IG SERVO ERROR, QUAD (LO)		
J1-41	A16-21	A 308	MG SERVO ERROR, QUAD (HI)		
J1-42	E37-B	A 314	SERVO AMP TEST POINT LO		
J1-43	E38	A 319	SERVO AMP OUTPUT MON (MG LO)		
J1-44	E55	A 482	IRIG TEMP (FROM SIG COND) (LO)		
J1-45	A25-13	A 270	MG SERVO ERROR IN PH (LO)		
J1-46	A26-13	A 268	IG SERVO ERROR IN PH (LO)		
J1-49	A38-13	A 447	SCT TRUNNION TACH OUT (LO)		
J1-50	A29-13	A 445	SCT SHAFT TACH OUT (LO)		
J1-51	A6-13	A 348	YAW ATT ERROR (CDU DAC OUT)(LO)		
J1-52	A6-21	A 347	YAW ATT ERROR (CDU DAC OUT)(HI)		
J1-53	A9-13	A 252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
J1-54	A8-13	A 254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
J1-55	E15	A 189	-28VDC (LO)		
J1-56	A51-4	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-57	A51-4	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-58	A48-42	A 150	IMU OPERATE OVDC		
J1-59	A50-4	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-60	A47-42	A 147	IMU OPERATE OVDC		
J1-61	E31-B	A 191	+20VDC T.P. HI		
J1-62	A49-4	A 153	+120VDC PIPA, NOISE RMS (HI)		
J1-63	A49-42	A 154	+120VDC PIPA RETURN		
J1-64	E33	A 200	-20VDC T.P. HI		
J1-65	A15-21	A 273	IG SERVO ERROR, QUAD (HI)		
J1-66	E37-B	A 316	SERVO AMP TEST POINT LO		
J1-67	E40	A 325	SERVO AMP OUTPUT MON (IG LO)		
J1-68	E54	A 479	IRIG TEMP (FROM SIG COND) (HI)		
J1-70	A24-21	A 271	OG SERVO ERROR IN PH (HI)		
J1-71	A24-13	A 272	OG SERVO ERROR IN PH (LO)		
J1-74	A38-21	A 446	SCT TRUNNION TACH OUT (HI)		
J1-75	A29-21	A 444	SCT SHAFT TACH OUT (HI)		
J1-76	A7-13	A 346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
J1-77	A7-21	A 345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
J1-78	A8-21	A 253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-79	E14	A 186	-28VDC (T.P. HI)		
J1-82	A48-4	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-83	A48-4	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-84	A47-4	A 144	+14VDC CGC SUPP, NOISE RMS		
J1-85	A47-4	A 143	+14VDC CGC SUPP, NOISE RMS		
J2			CONNECTOR 1897247-003 FIGURE 11		
J2-5	E60	A 497	PIPA CAL MOD TEMP (LO)		
J2-6	E58	A 491	CGC TEMPERATURE MON (LO)		
J2-11	A3-32	A 360	CDU TEST POINT + ERROR COM		
J2-14	E62	A 503	PSA TEMPERATURE (LO)		
J2-15	TB1-6	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
J2-16	TB1-4	A 494	PIPA CAL MOD TEMP (HI)		
J2-17	TB1-2	A 488	CGC TEMPERATURE (HI)		
J2-18	A54-21	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
J2-19	A53-21	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
J2-20	A52-21	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
J2-23	A45-15	A 354	CDU TEST POINT + ERROR COM		
J2-25	A3-40	A 359	OG CDU FINE ERROR (HI)		
J2-27	A4-32	A 364	CDU TEST POINT + ERROR COM		
J2-29	E26-BB	A 476	IMU OPERATE OVDC		
J2-30	E56	A 485	CONTROL HEATER SIGNAL (TELE)		
J2-31	A20-15	A 250	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-32	A21-15	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-35	A54-17	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
J2-36	A53-17	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
J2-37	A52-17	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
J2-38	A51-17	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
J2-39	A51-21	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
J2-42	A45-32	A 352	CDU TEST POINT + ERROR COM		
J2-43	A45-17	A 353	IG CDU COURSE ERROR (HI)		
J2-45	A46-15	A 358	CDU TEST POINT + ERROR COM		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J2			CONNECTOR 1897247-003 FIGURE 11		
J2-46	A3-15	A 362	CDU TEST POINT + ERROR COM		
J2-47	A4-40	A 363	TRUNNION CDU FINE ERROR (HI)		
J2-50	E34-B	A 206	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-51	E63	A 506	BLOWER SIGNAL (TELE) HI		
J2-52	A20-17	A 249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
J2-53	A21-32	A 246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-55	A21-17	A 235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
J2-58	A50-21	A 161	+4VDC CDU SUPP NOISE PEAKS (LO)		
J2-59	A49-21	A 156	+120VDC PIPA NOISE PEAKS (LO)		
J2-60	A48-21	A 152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
J2-61	A47-21	A 149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
J2-66	A45-40	A 351	IG CDU FINE ERROR (HI)		
J2-67	A46-32	A 356	CDU TEST POINT + ERROR COM		
J2-68	A46-40	A 355	MG CDU FINE ERROR (HI)		
J2-69	A46-17	A 357	MG CDU COARSE ERROR (HI)		
J2-70	A3-17	A 361	OG CDU COARSE ERROR (HI)		
J2-71	A4-17	A 365	SHAFT CDU FINE ERROR (HI)		
J2-72	A4-15	A 366	CDU TEST POINT + ERROR COM		
J2-78	A21-40	A 243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
J2-80	A22-32	A 233	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-81	A22-40	A 231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
J2-82	A50-17	A 160	+4VDC CDU SUPP NOISE PEAKS (HI)		
J2-83	A49-17	A 155	+120VDC PIPA NOISE PEAKS (HI)		
J2-84	A48-17	A 151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
J2-85	A47-17	A 148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
J3			CONNECTOR 1897252-109 FIGURE 10		
J3-5	TB1-7	A 40	+28 VDC ACE ENABLE		
J3-6	TB1-14	A 44	PIPA REF COMMAND LO		
J3-8	K6-4	A 65	OVDC AGC DAC NO. 2		
J3-14	TB1-10	A 42	Y PIPA COMMAND LO		
J3-16	K2-5	A 85	SERVO TEST COMMAND (LO)(MG)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J3			CONNECTOR 1897252-109 FIGURE 10		
J3-18	TB1-16	A 80	R START CONTROL ENABLED (LO)		
J3-20	K4-4	A 81	CONTROL 2 (ACE)		
J3-22	K6-8	A 66	OVDC AGC DAC NO.1		
J3-28	TB1-12	A 43	X PIPA COMMAND LO		
J3-30	TB1-8	A 41	Z PIPA COMMAND LO		
J3-32	K3-5	A 84	SERVO TEST COMMAND (LO)(IG)		
J3-34	K1-5	A 86	SERVO TEST COMMAND (LO)(OG)		
J3-39	K4-8	A 83	CONTROL 1 (ACE)		
J4			CONNECTOR MS3102R14S-7S(C)(1896916-107) FIGURE 9		
J4-A	A60-3	A 51	PIPA HARDLINE A (HI)		
J4-B	A60-1	A 52	PIPA HARDLINE B (LO)		
J4-C	E1	A 53	STRUCTURE AND SHIELD GROUND		
J5			CONNECTOR 1897252-107 FIGURE 12		
J5-5	E27	A 133	+28VDC IMU STANDBY T.P.		
J5-6	E29	A 139	OPTICS +28VDC T.P.		
J5-7	E34-B	A 204	800 CPS 28V 5 PERCENT (PH A+B COM)		
J5-8	E54	A 478	IRIG TEMP (FROM SIG COND) (HI)		
J5-9	E55	A 481	IRIG TEMP (FROM SIG COND) (LO)		
J5-14	E26-BB	A 79	IMU OPERATE OVDC		
J5-15	E25	A 130	IMU OPERATE +28VDC T.P.		
J5-16	E30	A 141	OPTICS OVDC		
J5-17	A59-9	A 209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J5-18	A59-5	A 202	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J5-19	E56	A 483	CONTROL HEATER SIGNAL (TELE)		
J5-26	E51-BB	A 434	0 VDC OPTICS (SHIELD)		
J5-30	E41	A 400	SXT SHAFT MOA P/A MON (HI)		
J5-31	E52	A 430	SXT SHAFT MOA O/P MON PH 1 (HI)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J5			CONNECTOR 1897252-107 FIGURE 12		
J5-32	A27-1	A 299	OG IRIG ERROR, BUFFERED		
J5-33	A23-1	A 289	IG+Y IRIG ERROR, BUFFERED		
J5-34	E35-BB	A 217	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J5-35	A59-26	A 224	800 CPS 28V 5 PERCENT-OPT MON HI		
J5-36	E63	A 504	BLOWER SIGNAL (TELE) HI		
J5-38	E44-BB	A 411	SXT TRUNNION TACH (LO)		
J5-39	E45	A 417	SXT SHAFT MDA TACH MON HI		
J5-40	E42-BB	A 405	SXT SHAFT TACH (LO)		
J5-44	E47	A 422	SCT SHAFT MDA TACH MON (HI)		
J5-45	E48	A 423	SCT SHAFT MDA TACH FEEDBACK (LO)		
J5-46	E50	A 428	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J5-47	E49	A 426	SCT TRUNNION MDA TACH MON (HI)		
J5-50	E11-B	A 553	STRUCTURE AND SHIELD GROUND		
J5-51	E43	A 403	SXT TRUNNION MDA P/A MON (HI)		
J5-52	E53	A 435	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J5-54	A23-19	A 301	MG IRIG ERROR, BUFFERED		
J5-55	E36-BB	A 290	OVDC IMU		
J5-56	E6	A 31	3200 CPS 28V 1 PERCENT MON (HI)		
J5-57	E5-BB	A 28	PIPA G/S OUTPUT (LO)		
J5-58	A59-28	A 215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J5-59	A59-24	A 227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J5-60	A11-6	A 229	800 CPS 28V 1 PERCENT IMU MON (LO)		
J5-61	E46	A 419	SXT TRUNNION MDA TACH MON HI		
J6			CONNECTOR 1897252-106 FIGURE 12		
J6-1	A46-1	A 374	MG COURSE ERROR		
J6-2	E58	A 489	CGC TEMPERATURE MON (LO)		
J6-3	A45-1	A 370	IG COURSE ERROR		
J6-4	A3-1	A 378	OG COURSE ERROR		
J6-5	A46-19	A 372	MG FINE ERROR		
J6-6	E17	A 97	SERVO AMP TEST INPUT (MG)		
J6-7	E18	A 103	SERVO AMP TEST INPUT (OG)		

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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6			CONNECTOR 1897252-106 FIGURE 12		
J6-8	TB1-1	A 486	CGC TEMPERATURE MON (HI)		
J6-9	E20	A 115	+4VDC CGC T.P.		
J6-10	T2-2	A 333	YAW CDU ATT ERROR (LO)		
J6-11	T2-1	A 331	YAW CDU ATT ERROR (HI)		
J6-12	A4-1	A 382	SHAFT FINE ERROR		
J6-13	A4-19	A 380	TRUNNION FINE ERROR		
J6-14	A45-19	A 368	IG FINE ERROR		
J6-15	A3-19	A 376	OG FINE ERROR		
J6-16	E14	A 185	-28VDC (T.P. HI)		
J6-17	E38	A 318	SERVO AMP OUTPUT MON (MG LO)		
J6-18	E16	A 92	SERVO AMP TEST INPUT (IG)		
J6-19	E2	A 10	Y PIPA G/S OUTPUT (HI)		
J6-20	E5-B	A 23	PIPA G/S OUTPUT (LO)		
J6-21	K4-7	A 75	ACE BIAS 2		
J6-22	E19	A 112	+14VDC CGC T.P.		
J6-23	T3-1	A 335	ROLL CDU ATT ERROR (HI)		
J6-24	T1-2	A 329	PITCH CDU ATT ERROR (LO)		
J6-25	E11-BB	A 60	STRUCTURE AND SHIELD GROUND		
J6-26	E23	A 124	CDU TEST POINT 4V		
J6-27	E24-BB	A 126	CDU TEST POINT + ERROR COM		
J6-31	E31-BB	A 193	+20VDC T.P. HI		
J6-32	E60	A 495	PIPA CAL MOD TEMP (LO)		
J6-33	E15	A 187	-28VDC (LO)		
J6-34	E39	A 321	SERVO AMP OUTPUT MON (OG LO)		
J6-35	E40	A 324	SERVO AMP OUTPUT MON (IG LO)		
J6-36	E37-BB	A 313	SERVO AMP TEST POINT LO		
J6-37	E5-B	A 22	PIPA G/S OUTPUT (LO)		
J6-38	E4	A 17	X PIPA G/S OUTPUT (HI)		
J6-39	E13	A 71	INHIBIT POWER FAIL		
J6-40	K4-3	A 77	ACE BIAS 1		
J6-41	E28	A 136	+28VDC COMPUTER T.P.		
J6-42	E12	A 68	OVDC COMPUTER T.P.		
J6-43	T3-2	A 337	ROLL CDU ATT ERROR (LO)		
J6-44	T1-1	A 327	PITCH CDU ATT ERROR (HI)		
J6-45	E9	A 57	3.2 KPPS PH A (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR #B	SHEET 58 OF 69	

RUNNING LIST ▼ 2901518 ✦

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6			CONNECTOR 1897252-106 FIGURE 12		
J6-46	E10	A 58	3.2 KPPS PH A (LO)		
J6-47	E21	A 118	+120VDC PIPA (HI)		
J6-48	E22	A 121	+120VDC PIPA RETURN		
J6-50	E11-BB	A 552	STRUCTURE AND SHIELD GROUND		
J6-52	E33	A 199	-20VDC T.P. HI		
J6-53	E32-BB	A 194	+20VDC RETURN		
J6-54	TB1-3	A 492	PIPA CAL MOD TEMP (HI)		
J6-55	E62	A 501	PSA TEMPERATURE (LO)		
J6-56	TB1-5	A 498	PSA TEMPERATURE (HI)		
J6-57	XF1-2	A 1	28VDC IMU STANDBY (PSAAM PWR)		
J6-58	XF1-2	A 2	28VDC IMU STANDBY (PSAAM PWR)		
J6-59	XF1-2	A 3	28VDC IMU STANDBY (PSAAM PWR)		
J6-60	E3	A 14	Z PIPA G/S OUTPUT (HI)		
J6-61	E5-B	A 21	PIPA G/S OUTPUT (LO)		
J7			CONNECTOR 1897247-006 FIGURE 8		
J7-1	A46-1	A 373	MG COURSE ERROR		
J7-2	E58	A 490	CGC TEMPERATURE MON (LO)		
J7-3	A45-1	A 369	IG COURSE ERROR		
J7-4	A3-1	A 377	OG COURSE ERROR		
J7-5	A46-19	A 371	MG FINE ERROR		
J7-6	E17	A 98	SERVO AMP TEST INPUT (MG)		
J7-7	E18	A 102	SERVO AMP TEST INPUT (OG)		
J7-8	TB1-1	A 487	CGC TEMPERATURE MON (HI)		
J7-9	E20	A 116	+4VDC CGC T.P.		
J7-10	T2-2	A 332	YAW CDU ATT ERROR (LO)		
J7-11	T2-1	A 330	YAW CDU ATT ERROR (HI)		
J7-12	A4-1	A 381	SHAFT FINE ERROR		
J7-13	A4-19	A 379	TRUNNION FINE ERROR		
J7-14	A45-19	A 367	IG FINE ERROR		
J7-15	A3-19	A 375	OG FINE ERROR		
J7-16	E14	A 184	-28VDC (T.P. HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR #B	SHEET 59 OF 69	

RUNNING LIST ▼ 2901518 ✦

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7			CONNECTOR 1897247-006 FIGURE 8		
J7-17	E38	A 317	SERVO AMP OUTPUT MON (MG LO)		
J7-18	E16	A 93	SERVO AMP TEST INPUT (IG)		
J7-19	E2	A 9	Y PIPA G/S OUTPUT (HI)		
J7-20	E5-B	A 26	PIPA G/S OUTPUT (LO)		
J7-21	K4-7	A 74	ACE BIAS 2		
J7-22	E19	A 113	+14VDC CGC T.P.		
J7-23	T3-1	A 334	ROLL CDU ATT ERROR (HI)		
J7-24	T1-2	A 328	PITCH CDU ATT ERROR (LO)		
J7-25	E11-BB	A 61	STRUCTURE AND SHIELD GROUND		
J7-26	E23	A 123	CDU TEST POINT 4V		
J7-27	E24-BB	A 127	CDU TEST POINT + ERROR COM		
J7-31	E31-B	A 192	+20VDC T.P. HI		
J7-32	E60	A 496	PIPA CAL MOD TEMP (LO)		
J7-33	E15	A 188	-28VDC (LO)		
J7-34	E39	A 320	SERVO AMP OUTPUT MON (OG LO)		
J7-35	E40	A 323	SERVO AMP OUTPUT MON (IG LO)		
J7-36	E37-BB	A 312	SERVO AMP TEST POINT LO		
J7-37	E5-B	A 25	PIPA G/S OUTPUT (LO)		
J7-38	E4	A 18	X PIPA G/S OUTPUT (HI)		
J7-39	E13	A 72	INHIBIT POWER FAIL		
J7-40	K4-3	A 76	ACE BIAS 1		
J7-41	E28	A 135	+28VDC COMPUTER T.P.		
J7-42	E12	A 69	OVDC COMPUTER T.P.		
J7-43	T3-2	A 336	ROLL CDU ATT ERROR (LO)		
J7-44	T1-1	A 326	PITCH CDU ATT ERROR (HI)		
J7-45	E9	A 56	3.2 KPPS PH A (HI)		
J7-46	E10	A 59	3.2 KPPS PH A (LO)		
J7-47	E21	A 119	+120VDC PIPA (HI)		
J7-48	E22	A 78	+120VDC PIPA RETURN		
J7-52	E33	A 198	-20VDC T.P. HI		
J7-53	E32-B	A 195	+20VDC RETURN		
J7-54	TB1-3	A 493	PIPA CAL MOD TEMP (HI)		
J7-55	E62	A 502	PSA TEMPERATURE (LO)		
J7-56	TB1-5	A 499	PSA TEMPERATURE (HI)		
J7-57	E7-B	A 4	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR #B	SHEET 60 OF 69	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K8			RELAY 1015832-118 FIGURE 22		
K8-1	TB1-11	AA 5	+28 VDC ACE ENABLE		
K8-1	TB1-13	AA 6	+28 VDC ACE ENABLE		
K8-2	K9-8	A 34	SELECTED PIPA OUTPUT		
K8-3	E4	A 19	X PIPA G/S OUTPUT (HI)		
K8-3	S2-2	A 20	X PIPA G/S OUTPUT (HI)		
K8-5	TB1-12	AA 11	X PIPA COMMAND LO		
K8-8	K7-2	A 35	SELECTED PIPA OUTPUT		
K9			RELAY 1015832-118 FIGURE 22		
K9-1	TB1-9	AA 3	+28 VDC ACE ENABLE		
K9-1	TB1-11	AA 4	+28 VDC ACE ENABLE		
K9-2	K10-8	A 33	Z PIPA COMMAND LO		
K9-3	E2	A 11	Y PIPA G/S OUTPUT (HI)		
K9-3	S2-3	A 12	Y PIPA G/S OUTPUT (HI)		
K9-5	TB1-10	AA 10	Y PIPA COMMAND LO		
K9-8	K8-2	A 34	SELECTED PIPA OUTPUT		
K10			RELAY 1015832-118 FIGURE 22		
K10-1	TB1-7	AA 1	+28 VDC ACE ENABLE		
K10-1	TB1-9	AA 2	+28 VDC ACE ENABLE		
K10-3	S2-4	A 15	Z PIPA G/S OUTPUT (HI)		
K10-3	E3	A 16	Z PIPA G/S OUTPUT (HI)		
K10-5	TB1-8	AA 9	Z PIPA COMMAND LO		
K10-8	K9-2	A 33	Z PIPA COMMAND LO		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 65 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S1			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S1-2	E7-BB	A 7	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	E8-BB	A 54	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	K5-8	A 554	28VDC IMU STANDBY (PSAAM PWR)		
S2			SWITCH-ROTARY 1897379-001 FIGURE 19		
S2-1	K7-3	A 37	3200 CPS BUFFERED HI		
S2-2	K8-3	A 20	X PIPA G/S OUTPUT (HI)		
S2-3	K9-3	A 12	Y PIPA G/S OUTPUT (HI)		
S2-4	K10-3	A 15	Z PIPA G/S OUTPUT (HI)		
S2-5	K7-8	A 36	SELECTED PIPA OUTPUT		
S2-C1	A22-1	A 45	3200 CPS BUFFERED HI		
S3			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S3-1	E13	A 70	INHIBIT POWER FAIL		
S3-2	K5-3	A 73	INHIBIT POWER FAIL		
S4			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S4-1	K1-3	A 100	SERVO AMP TEST INPUT (OG)		
S4-2	K1-2	A 99	SERVO AMP TEST INPUT (OG)		
S5			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S5-1	K2-3	A 95	SERVO AMP TEST INPUT (MG)		
S5-2	K2-2	A 94	SERVO AMP TEST INPUT (MG)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 66 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S6			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S6-1	K3-3	A 90	SERVO AMP TEST INPUT (IG)		
S6-2	K3-2	A 89	SERVO AMP TEST INPUT (IG)		
SHLD		$		C	
SHLD A55	E11-B	A 55A	STRUCTURE AND SHIELD GROUND		
SHLD A401	E51-B	A 401A	0 VDC OPTICS (SHIELD)		
SHLD A404	E51-B	A 404A	0 VDC OPTICS (SHIELD)		
SHLD A410	E51-B	A 410A	0 VDC OPTICS (SHIELD)		
SHLD A415	E51-B	A 415A	0 VDC OPTICS (SHIELD)		
SHLD A420	E51-B	A 420A	0 VDC OPTICS (SHIELD)		
SHLD A425	E51-B	A 425A	0 VDC OPTICS (SHIELD)		
T1			TRANSFORMER 1897413 FIGURE 23		
T1-1	J7-44	A 326	PITCH CDU ATT ERROR (HI)		
T1-1	J6-44	A 327	PITCH CDU ATT ERROR (HI)		
T1-2	J7-24	A 328	PITCH CDU ATT ERROR (LO)		
T1-2	J6-24	A 329	PITCH CDU ATT ERROR (LO)		
T1-3	A7-43	A 338	800 CPS DEMOD INPUT SIG (HI)		
T1-4	E24-BB	A 383	CDU TEST POINT + ERROR COM		
T2			TRANSFORMER 1897413 FIGURE 23		
T2-1	J7-11	A 330	YAW CDU ATT ERROR (HI)		
T2-1	J6-11	A 331	YAW CDU ATT ERROR (HI)		
T2-2	J7-10	A 332	YAW CDU ATT ERROR (LO)		
T2-2	J6-10	A 333	YAW CDU ATT ERROR (LO)		
T2-3	A6-43	A 339	800 CPS DEMOD INPUT SIG (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 67 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) T2			TRANSFORMER 1897413 FIGURE 23		
T2-4	E24-BB	A 384	CDU TEST POINT + ERROR COM		
T3			TRANSFORMER 1897413 FIGURE 23		
T3-1	J7-23	A 334	ROLL CDU ATT ERROR (HI)		
T3-1	J6-23	A 335	ROLL CDU ATT ERROR (HI)		
T3-2	J7-43	A 336	ROLL CDU ATT ERROR (LO)		
T3-2	J6-43	A 337	ROLL CDU ATT ERROR (LO)		
T3-3	A5-43	A 340	800 CPS DEMOD INPUT SIG (HI)		
T3-4	E24-BB	A 385	CDU TEST POINT + ERROR COM		
TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-1	J6-8	A 486	CGC TEMPERATURE MON (HI)		
TB1-1	J7-8	A 487	CGC TEMPERATURE MON (HI)		
TB1-2	J2-17	A 488	CGC TEMPERATURE (HI)		
TB1-3	J6-54	A 492	PIPA CAL MOD TEMP (HI)		
TB1-3	J7-54	A 493	PIPA CAL MOD TEMP (HI)		
TB1-4	J2-16	A 494	PIPA CAL MOD TEMP (HI)		
TB1-5	J6-56	A 498	PSA TEMPERATURE (HI)		
TB1-5	J7-56	A 499	PSA TEMPERATURE (HI)		
TB1-6	J2-15	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
TB1-7	K10-1	AA 1	+28 VDC ACE ENABLE		
TB1-7	J3-5	A 40	+28 VDC ACE ENABLE		
TB1-8	K10-5	AA 9	Z PIPA COMMAND LO		
TB1-8	J3-30	A 41	Z PIPA COMMAND LO		
TB1-9	K10-1	AA 2	+28 VDC ACE ENABLE		
TB1-9	K9-1	AA 3	+28 VDC ACE ENABLE		
TB1-10	K9-5	AA 10	Y PIPA COMMAND LO		
TB1-10	J3-14	A 42	Y PIPA COMMAND LO		
TB1-11	K9-1	AA 4	+28 VDC ACE ENABLE		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	#B	SHEET 68 OF 69

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-11	K8-1	AA 5	+28 VDC ACE ENABLE		
TB1-12	K8-5	AA 11	X PIPA COMMAND LO		
TB1-12	J3-28	A 43	X PIPA COMMAND LO		
TB1-13	K8-1	AA 6	+28 VDC ACE ENABLE		
TB1-13	K7-1	AA 7	+28 VDC ACE ENABLE		
TB1-14	K7-5	AA 12	PIPA REF COMMAND LO		
TB1-14	J3-6	A 44	PIPA REF COMMAND LO		
TB1-15	K7-1	AA 8	+28 VDC ACE ENABLE		
TB1-15	K6-1	AA 14	+28 VDC ACE ENABLE		
TB1-16	K6-5	AA 26	R START CONTROL ENABLED (LO)		
TB1-16	J3-18	A 80	R START CONTROL ENABLED (LO)		
TB1-17	K5-1	AA 16	+28 VDC ACE ENABLE		
TB1-17	K4-1	AA 17	+28 VDC ACE ENABLE		
TB1-18	K5-5	AA 28	R START CONTROL ENABLED (LO)		
TB1-18	K4-5	AA 29	R START CONTROL ENABLED (LO)		
TB1-19	K4-1	AA 19	+28 VDC ACE ENABLE		
TB1-19	K3-1	AA 20	+28 VDC ACE ENABLE		
TB1-20	K4-5	AA 30	R START CONTROL ENABLED (LO)		
TB1-21	K3-1	AA 21	+28 VDC ACE ENABLE		
TB1-21	K2-1	AA 22	+28 VDC ACE ENABLE		
TB1-22	K3-5	AA 31	SERVO TEST COMMAND (LO)(IG)		
TB1-23	K2-1	AA 23	+28 VDC ACE ENABLE		
TB1-23	K1-1	AA 24	+28 VDC ACE ENABLE		
TB1-24	K2-5	AA 32	SERVO TEST COMMAND (LO)(MG)		
TB1-25	K1-1	AA 25	+28 VDC ACE ENABLE		
TB1-26	K1-5	AA 33	SERVO TEST COMMAND (LO)(OG)		
XF1			FUSE F02B250V1/2A (1897099-025) FIGURE 17	C	
XF1-1	E7-88	A 8	28 VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-57	A 1	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-58	A 2	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-59	A 3	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR #B	SHEET 69 OF 69

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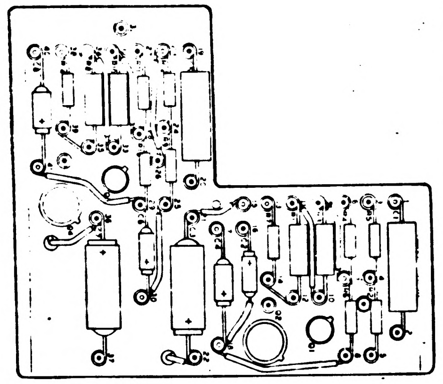

FIGURE 1
A3,4,20,21,22,23,27,32,37,45,46.
1902433-011 AC AMPLIFIER
1902451 SCHEMATIC

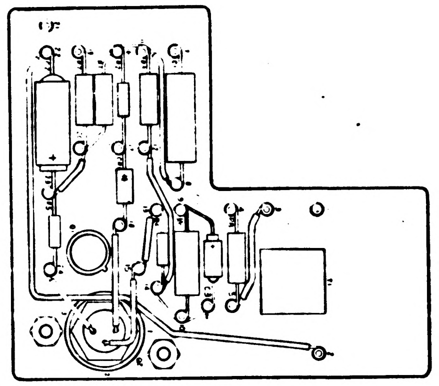

FIGURE 2 A60
1902434-011 LINE DRIVE AMPL.
1902448 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 3 of 70

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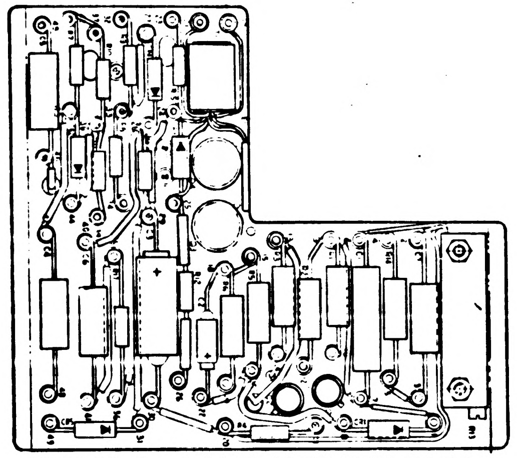

FIGURE 3 A47,48,49,50,51,52,53,54
2901154-011 GLITCH DETECTOR
2901155 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 4 of 70

MIL 2084 8-65

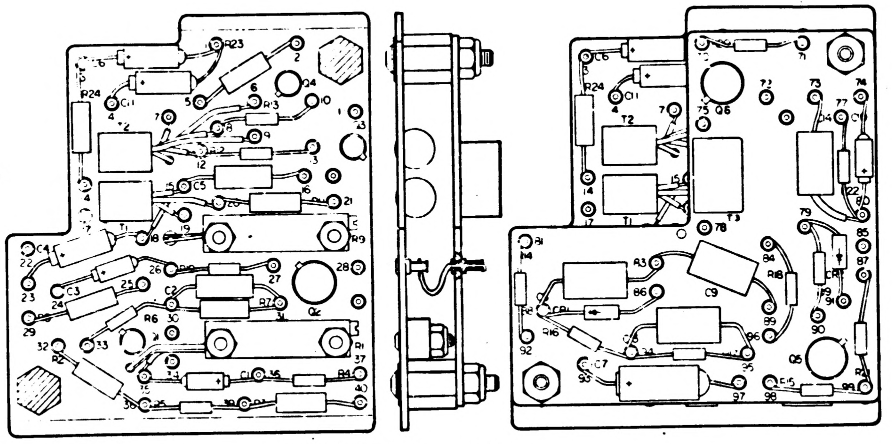

FIGURE 5 A2
2901063-011 PHASE DIFF CKT BD ASSY
2900988 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 5 of 70

MIL 2084 8-65

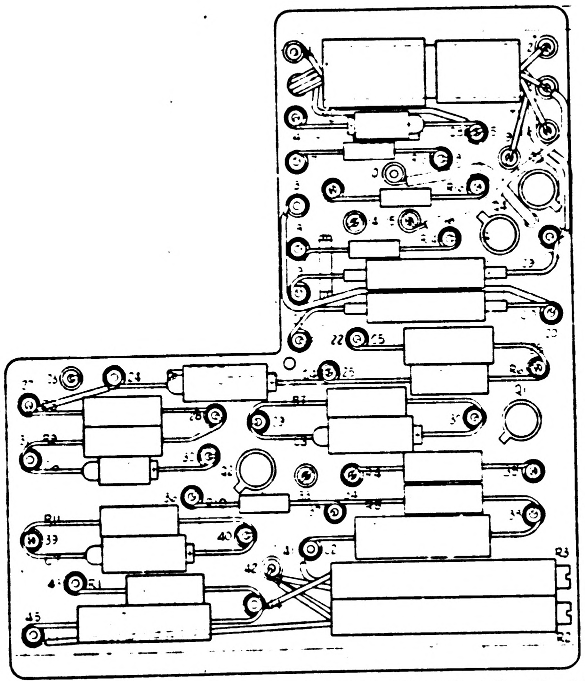

FIG 6 A5,6,7,8,9,29,30,31,38,39,40,41,42
2901176-011 DEMODULATOR PHASE SENSITIVE
2901227 SCHEMATIC
A15,16,17,24,25,26
2901176-021 DEMODULATOR PHASE SENSITIVE
2901228 SCHEMATIC

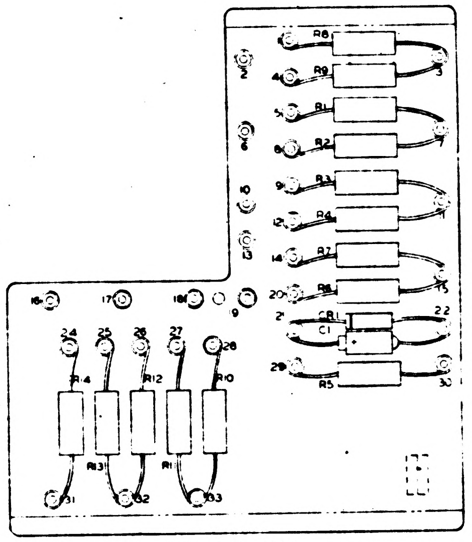

FIG 7 A59
2901168-011 ATTENUATOR ASSEMBLY
2901215 SCHEMATIC

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 6 of 70

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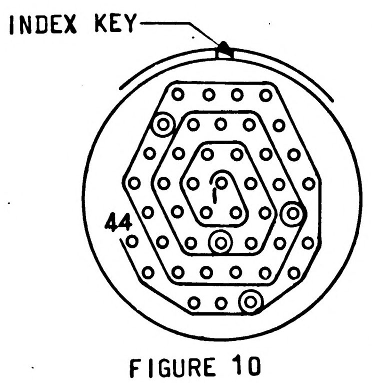
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FIGURE 10
J3
1897252-109

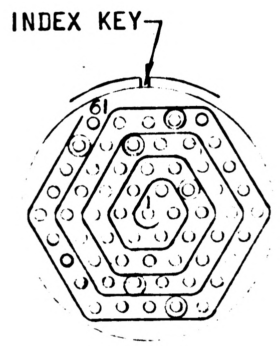
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FIGURE 12
J5, J6
1897252-107-106

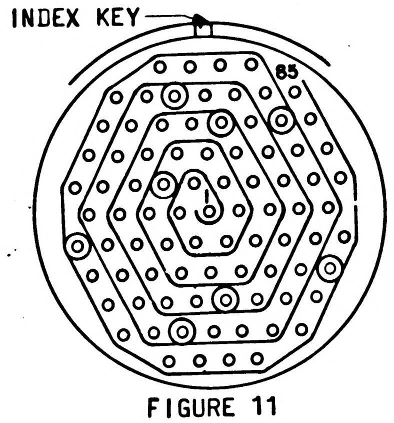
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FIGURE 11
J1, J2
1897247-002-003

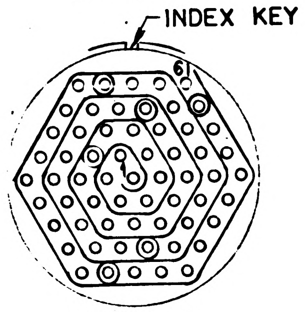
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FIGURE 8
J7, J8
1897247-006-007

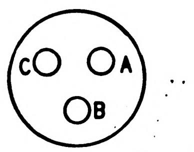

FIGURE 9
J4
MS3102R14S-7S(C) (1896916-107)

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 7 of 70

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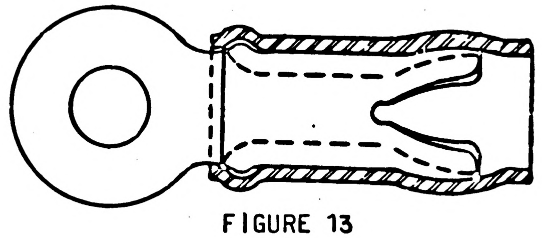

FIGURE 13
E1
1015902-45

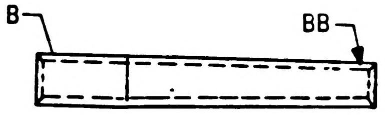

FIGURE 14
E5,7,8,11,14,15,26,31,32,34,35,36,37,42,44,51
1016006-001

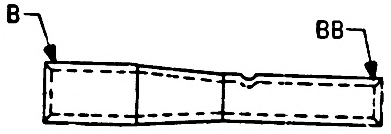

FIGURE 15
E24
1016006-002

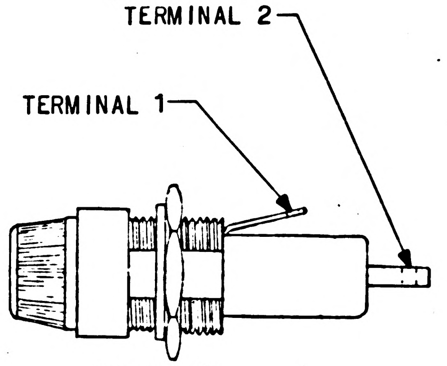
TERMINAL 2
TERMINAL 1

FIGURE 17
XF1
MS26572-1
F1
1897099-025

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET of 70

MIL 2084 8-65

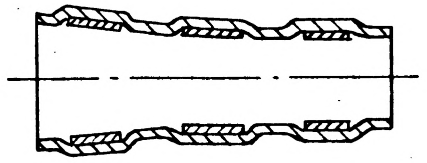

FIGURE 16
E2,3,4,6,9,10,12,13,16,17,18,19,20,21,22,23,
25,27,28,29,30,33,38,39,40,41, ,43,45,46,
47,48,49,50,52,53,54,55,56,58,60,62,63

1010763-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 9 of 70

MIL 2084 8-65

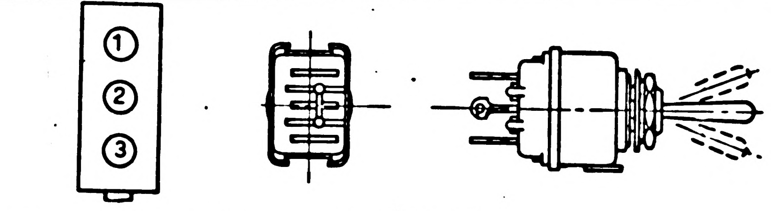
1
2
3
TERMINAL NUMBERS

FIGURE 18
S1 & S3
1016265-004
S4, S5, & S6
1016265-006

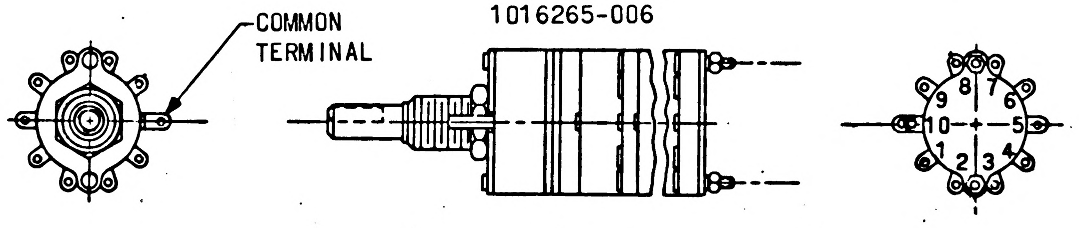
COMMON TERMINAL
8
7
9
6
10
5
1
4
2
3

FIGURE 19
S2
1897379-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 10 of 70

MIL 2084 8-65

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A2				PHASE DIFF CKT BD ASSY 2901063-011 FIGURE 5		
A2-3	J1-32	A	63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
A2-14	J1-15	A	64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
A2-17	E5-8	A	47	PIPA G/S OUTPUT (LO)		
A2-22	A59-2	A	39	3200 CPS BUFFERED HI		
A2-22	A20-19	A	302	3200 CPS BUFFERED HI		
A2-75	E9	A	55R	3.2 KPPS PH A (HI)		
A2-78	E10	A	55L	3.2 KPPS PH A (LO)		
A2-81	E8-8	A	541	28VDC IMU STANDBY (PSAAM PWR)		
A2-81	A47-23	A	542	28VDC IMU STANDBY (PSAAM PWR)		
A3				AC AMPLIFIER 1902433-011 FIGURE 1		
A3-1	J7-4	A	377	OG COURSE ERROR		
A3-1	J6-4	A	378	CG COURSE ERROR		
A3-9	A3-15			CDU TEST POINT + ERROR COM		
A3-9	E24-8	A	394	CDU TEST POINT + ERROR COM		
A3-13	A3-38	AA	37	28VDC IMU STANDBY (PSAAM PWR)		
A3-13	A46-38	A	508	28VDC IMU STANDBY (PSAAM PWR)		
A3-15	A3-9			CDU TEST POINT + ERROR COM		
A3-15	J2-46	A	362	CDU TEST POINT + ERROR COM		
A3-17	J2-70	A	361	CG CDU COARSE ERROR (HI)		
A3-19	J7-15	A	375	CG FINE ERROR		
A3-19	J6-15	A	376	CG FINE ERROR		
A3-31	A3-32			CDU TEST POINT + ERROR COM		
A3-31	E24-8	A	393	CDU TEST POINT + ERROR COM		
A3-32	A3-31			CDU TEST POINT + ERROR COM		
A3-32	J2-11	A	360	CDU TEST POINT + ERROR COM		
A3-38	A3-13	AA	37	28VDC IMU STANDBY (PSAAM PWR)		
A3-38	A4-13	A	509	28VDC IMU STANDBY (PSAAM PWR)		
A3-40	J2-25	A	359	CG CDU FINE ERROR (HI)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A4				AC AMPLIFIER 1902433-011 FIGURE 1		
A4-1	J7-12	A	381	SHAFT FINE ERROR		
A4-1	J6-12	A	382	SHAFT FINE ERROR		
A4-9	A4-15			CDU TEST POINT + ERROR COM		
A4-9	E24-8	A	396	CDU TEST POINT + ERROR COM		
A4-13	A4-38	AA	38	28VDC IMU STANDBY (PSAAM PWR)		
A4-13	A3-38	A	509	28VDC IMU STANDBY (PSAAM PWR)		
A4-15	A4-9			CDU TEST POINT + ERROR COM		
A4-15	J2-72	A	366	CDU TEST POINT + ERROR COM		
A4-17	J2-71	A	365	SHAFT CDU FINE ERROR (HI)		
A4-19	J7-13	A	379	TRUNNION FINE ERROR		
A4-19	J6-13	A	380	TRUNNION FINE ERROR		
A4-31	A4-32			CDU TEST POINT + ERROR COM		
A4-31	E24-8	A	395	CDU TEST POINT + ERROR COM		
A4-32	A4-31			CDU TEST POINT + ERROR COM		
A4-32	J2-27	A	364	CDU TEST POINT + ERROR COM		
A4-38	A4-13	AA	38	28VDC IMU STANDBY (PSAAM PWR)		
A4-38	A5-23	A	510	28VDC IMU STANDBY (PSAAM PWR)		
A4-40	J2-47	A	363	TRUNNION CDU FINE ERROR (HI)		
A5				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A5-1	A6-1	A	344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A5-4	A6-4	A	342	800 CPS DEM REF (HI)		
A5-13	J1-29	A	350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
A5-21	J1-30	A	349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
A5-23	A4-38	A	510	28VDC IMU STANDBY (PSAAM PWR)		
A5-23	A6-23	A	511	28VDC IMU STANDBY (PSAAM PWR)		
A5-24	E24-8	A	388	CDU TEST POINT + ERROR COM		
A5-43	T3-3	A	340	800 CPS DEMOD INPUT SIG (HI)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A6				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A6-1	A7-1	A	343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-1	A5-1	A	344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-4	A7-4	A	341	800 CPS DEM REF (HI)		
A6-4	A5-4	A	342	800 CPS DEM REF (HI)		
A6-13	J1-51	A	348	YAW ATT ERROR (CDU DAC OUT)(LO)		
A6-21	J1-52	A	347	YAW ATT ERROR (CDU DAC OUT)(HI)		
A6-23	A5-23	A	511	28VDC IMU STANDBY (PSAAM PWR)		
A6-23	A7-23	A	512	28VDC IMU STANDBY (PSAAM PWR)		
A6-24	E24-8	A	387	CDU TEST POINT + ERROR COM		
A6-43	T2-3	A	339	800 CPS DEMOD INPUT SIG (HI)		
A7				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A7-1	A9-1	A	258	800 CPS 28V 1 PERCENT IMU MON (LO)		
A7-1	A6-1	A	343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A7-4	A9-4	A	257	800 CPS DEM REF (HI)		
A7-4	A6-4	A	341	800 CPS DEM REF (HI)		
A7-13	J1-76	A	346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
A7-21	J1-77	A	345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
A7-23	A6-23	A	512	28VDC IMU STANDBY (PSAAM PWR)		
A7-23	A8-23	A	513	28VDC IMU STANDBY (PSAAM PWR)		
A7-24	E24-8	A	386	CDU TEST POINT + ERROR COM		
A7-43	T1-3	A	338	800 CPS DEMOD INPUT SIG (HI)		
A8				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-1	A11-28	A	240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-4	A11-31	A	239	800 CPS DEMOD REF (HI)		
A8-13	J1-54	A	254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
A8-21	J1-78	A	253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		
A8-23	A7-23	A	513	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A8				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-23	A9-23	A	514	28VDC IMU STANDBY (PSAAM PWR)		
A8-24	A22-31	A	234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-43	A22-40	A	232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A9				DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A9-1	A11-15	A	256	800 CPS 28V 1 PERCENT IMU MON (LO)		
A9-1	A7-1	A	258	800 CPS 28V 1 PERCENT IMU MON (LO)		
A9-4	A11-18	A	255	800 CPS DEM REF (HI)		
A9-4	A7-4	A	257	800 CPS DEM REF (HI)		
A9-13	J1-53	A	252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
A9-21	J1-31	A	251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
A9-23	A8-23	A	514	28VDC IMU STANDBY (PSAAM PWR)		
A9-23	A11-25	A	515	28VDC IMU STANDBY (PSAAM PWR)		
A9-24	A44-16	A	242	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A9-43	A44-14	A	241	800 CPS DEMOD INPUT SIG (HI)		
A11				CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-1	A59-16	A	228	BUFFERED 800 CPS-IMU MON (HI)		
A11-6	A11-15			800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-6	J5-60	A	229	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-6	J8-60	A	230	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-10	A11-25	AA	39	28VDC IMU STANDBY (PSAAM PWR)		
A11-15	A11-6			800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-15	A9-1	A	256	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-18	A9-4	A	255	800 CPS DEM REF (HI)		
A11-22	A11-28			800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-22	A21-15	A	238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-25	A11-10	AA	39	28VDC IMU STANDBY (PSAAM PWR)		
A11-25	A9-23	A	515	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A11			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-28	A11-22		800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-28	A8-1	A 240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-31	A8-4	A 239	800 CPS DEMOD REF (HI)		
A11-33	A21-17	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A15			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A15-1	A19-28	A 266	PIPA G/S OUTPUT (LO)		
A15-1	A16-1	A 306	PIPA G/S OUTPUT (LO)		
A15-4	A19-31	A 265	3200 CPS DEMOD REF (HI)		
A15-4	A16-4	A 304	3200 CPS DEMOD REF (HI)		
A15-13	J1-40	A 274	IG SERVO ERROR, QUAD (LO)		
A15-21	J1-65	A 273	IG SERVO ERROR, QUAD (HI)		
A15-23	E8-8	A 516	28VDC IMU STANDBY (PSAAM PWR)		
A15-23	A16-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A15-24	E36-8	A 295	CVDC IMU		
A15-43	A23-17	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A16			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A16-1	A15-1	A 306	PIPA G/S OUTPUT (LO)		
A16-1	A17-1	A 307	PIPA G/S OUTPUT (LO)		
A16-4	A15-4	A 304	3200 CPS DEMOD REF (HI)		
A16-4	A17-4	A 305	3200 CPS DEMOD REF (HI)		
A16-13	J1-22	A 309	MG SERVO ERROR, QUAD (LO)		
A16-21	J1-41	A 308	MG SERVO ERROR, QUAD (HI)		
A16-23	A15-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A16-23	A17-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A16-24	E36-8	A 296	CVDC IMU		
A16-43	A23-40	A 280	BUFFERED MG IRIG ERROR (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A17			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A17-1	A16-1	A 307	PIPA G/S OUTPUT (LO)		
A17-4	A16-4	A 305	3200 CPS DEMOD REF (HI)		
A17-13	J1-9	A 311	OG SERVO ERROR, QUAD (LO)		
A17-21	J1-21	A 310	OG SERVO ERROR, QUAD (HI)		
A17-23	A16-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A17-23	A19-25	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A17-24	E36-8	A 297	CVDC IMU		
A17-43	A27-17	A 303	3200 CPS DEMOD INPUT (HI)		
A19			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A19-1	A20-40	A 261	3200 CPS BUFFERED (HI)		
A19-6	A19-15		PIPA G/S OUTPUT (LO)		
A19-6	A19-22	AA 47	PIPA G/S OUTPUT (LO)		
A19-6	A20-32	A 283	PIPA G/S OUTPUT (LO)		
A19-10	A19-25	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-10	A20-38	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A19-15	A19-6		PIPA G/S OUTPUT (LO)		
A19-15	A24-1	A 260	PIPA G/S OUTPUT (LO)		
A19-18	A24-4	A 259	3200 CPS DEMOD REF (HI)		
A19-22	A19-28		PIPA G/S OUTPUT (LO)		
A19-22	A19-6	AA 47	PIPA G/S OUTPUT (LO)		
A19-25	A19-10	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-25	A17-23	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A19-28	A19-22		PIPA G/S OUTPUT (LO)		
A19-28	A15-1	A 266	PIPA G/S OUTPUT (LO)		
A19-31	A15-4	A 265	3200 CPS DEMOD REF (HI)		
A19-33	A44-4	A 285	90 DEG. BUFFERED 3200 CPS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A20			AC AMPLIFIER 1902433-011 FIGURE 1		
A20-1	A59-17	A 225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A20-9	A20-15		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-9	E35-8	A 222	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-13	A20-38	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-13	A21-38	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A20-15	A20-9		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-15	J2-31	A 250	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-17	J2-52	A 249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
A20-19	A2-22	A 302	3200 CPS BUFFERED HI		
A20-31	A20-32		PIPA G/S OUTPUT (LO)		
A20-31	A22-9	A 46	PIPA G/S OUTPUT (LO)		
A20-31	A44-20	A 284	PIPA G/S OUTPUT (LO)		
A20-32	A20-31		PIPA G/S OUTPUT (LO)		
A20-32	A19-6	A 283	PIPA G/S OUTPUT (LO)		
A20-38	A20-13	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-38	A19-10	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A20-40	A19-1	A 261	3200 CPS BUFFERED (HI)		
A20-40	A44-2	A 262	3200 CPS BUFFERED (HI)		
A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-1	A59-10	A 212	BUFFERED 800 CPS PH A IMU MON HI		
A21-9	A21-15		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-9	A59-12	A 213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-13	A21-38	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-13	A22-38	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A21-15	A21-9		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	J2-32	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	A11-22	A 238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-17	J2-55	A 235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-17	A11-33	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-19	A59-18	A 216	BUFFERED 800 CPS OPT MON HI		
A21-31	A21-32		800V CPS 28V 1 PERCENT-OPT MON (LO)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-31	E35-8	A 221	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-31	A33-6	A 247	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	A21-31		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	J2-53	A 246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-38	A21-13	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-38	A20-13	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A21-40	J2-78	A 243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A21-40	A33-1	A 244	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A22			AC AMPLIFIER 1902433-011 FIGURE 1		
A22-1	S2-C1	A 45	3200 CPS BUFFERED HI		
A22-9	A22-15		PIPA G/S OUTPUT (LO)		
A22-9	A20-31	A 46	PIPA G/S OUTPUT (LO)		
A22-9	A59-4	A 49	PIPA G/S OUTPUT (LO)		
A22-13	A22-38	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-13	A23-38	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A22-15	A22-9		PIPA G/S OUTPUT (LO)		
A22-15	A60-21	A 48	PIPA G/S OUTPUT (LO)		
A22-17	A60-7	A 50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A22-19	A59-6	A 203	BUFFERED 800 CPS PH B IMU MON HI		
A22-31	A22-32		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A59-8	A 211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A8-24	A 234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	A22-31		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	J2-80	A 233	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-38	A22-13	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-38	A21-13	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A22-40	J2-81	A 231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A22-40	A8-43	A 232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A23			AC AMPLIFIER 1902433-011 FIGURE 1		
A23-1	J8-33	A 268	IG+Y IRIG ERROR, BUFFERED		
A23-1	J5-33	A 269	IG+Y IRIG ERROR, BUFFERED		
A23-9	A23-15		CVDC IMU		
A23-9	E36-8	A 292	CVDC IMU		
A23-13	A23-38	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-13	A24-23	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A23-15	A23-9		CVDC IMU		
A23-15	A26-24	A 276	CVDC IMU		
A23-17	A26-43	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A23-17	A15-43	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A23-19	J8-54	A 300	MG IRIG ERROR, BUFFERED		
A23-19	J5-54	A 301	MG IRIG ERROR, BUFFERED		
A23-31	A23-32		CVDC IMU		
A23-31	E36-8	A 293	CVDC IMU		
A23-32	A23-31		CVDC IMU		
A23-32	A25-24	A 278	CVDC IMU		
A23-38	A23-13	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-38	A22-13	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A23-40	A25-43	A 279	BUFFERED MG IRIG ERROR (HI)		
A23-40	A16-43	A 280	BUFFERED MG IRIG ERROR (HI)		
A24			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A24-1	A19-15	A 260	PIPA G/S OUTPUT (LO)		
A24-1	A25-1	A 263	PIPA G/S OUTPUT (LO)		
A24-4	A19-18	A 259	3200 CPS DEMOD REF (HI)		
A24-4	A25-4	A 261	3200 CPS DEMOD REF (HI)		
A24-13	J1-71	A 272	CG SERVO ERROR IN PH (LO)		
A24-21	J1-70	A 271	CG SERVO ERROR IN PH (HI)		
A24-23	A23-13	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A24-23	A25-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A24-24	E36-8	A 266	CVDC IMU		
A24-43	A27-17	A 287	3200 CPS DEMOD INPUT (HI)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 23 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A25			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A25-1	A24-1	A 263	PIPA G/S OUTPUT (LO)		
A25-1	A26-1	A 264	PIPA G/S OUTPUT (LO)		
A25-4	A24-4	A 261	3200 CPS DEMOD REF (HI)		
A25-4	A26-4	A 262	3200 CPS DEMOD REF (HI)		
A25-13	J1-45	A 270	MG SERVO ERROR IN PH (LO)		
A25-21	J1-25	A 269	MG SERVO ERROR IN PH (HI)		
A25-23	A24-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A25-23	A26-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A25-24	A23-32	A 278	CVDC IMU		
A25-43	A23-40	A 279	BUFFERED MG IRIG ERROR (HI)		
A26			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A26-1	A25-1	A 264	PIPA G/S OUTPUT (LO)		
A26-4	A25-4	A 262	3200 CPS DEMOD REF (HI)		
A26-13	J1-46	A 268	IG SERVO ERROR IN PH (LO)		
A26-21	J1-26	A 267	IG SERVO ERROR IN PH (HI)		
A26-23	A25-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A26-23	A27-13	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A26-24	A23-15	A 276	CVDC IMU		
A26-43	A23-17	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-1	J8-32	A 298	CG IRIG ERROR, BUFFERED		
A27-1	J5-32	A 299	CG IRIG ERROR, BUFFERED		
A27-9	E36-8	A 294	CVDC IMU		
A27-13	A27-38	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-13	A26-23	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A27-17	A24-43	A 287	3200 CPS DEMOD INPUT (HI)		
A27-17	A17-43	A 303	3200 CPS DEMOD INPUT (HI)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 24 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-19	E45	A 410L	SXT SHAFT MDA TACH MON HI		
A27-31	A27-32		SXT SHAFT TACH (LO)		
A27-31	E42-8	A 410R	SXT SHAFT TACH (LO)		
A27-32	A27-31		SXT SHAFT TACH (LO)		
A27-32	A31-24	A 469	SXT SHAFT TACH (LO)		
A27-38	A27-13	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-40	A31-43	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A29			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A29-1	A33-15	A 456	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-1	A30-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-4	A33-18	A 448	PSD REF HI		
A29-4	A30-4	A 449	PSD REF HI		
A29-13	J1-50	A 445	SCT SHAFT TACH OUT (LO)		
A29-21	J1-75	A 444	SCT SHAFT TACH OUT (HI)		
A29-23	E8-8	A 528	28VDC IMU STANDBY (PSAAM PWR)		
A29-23	A30-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A29-24	A32-32	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		
A29-43	A32-40	A 472	BUFFERED SCT SHAFT MDA MON (HI)		
A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-1	A29-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-1	A31-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-4	A29-4	A 449	PSD REF HI		
A30-4	A31-4	A 450	PSD REF HI		
A30-13	J1-13	A 443	SXT TRUNNION TACH OUT (LO)		
A30-21	J1-12	A 442	SXT TRUNNION TACH OUT (HI)		
A30-23	A29-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A30-23	A31-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 25 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-24	A32-15	A 471	SXT TRUNNION TACH (LO)		
A30-43	A32-17	A 470	800 CPS DEMOD SIG INPUT (HI)		
A31			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A31-1	A30-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-1	A38-1	A 459	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-4	A30-4	A 450	PSD REF HI		
A31-4	A38-4	A 451	PSD REF HI		
A31-13	J1-14	A 441	SXT SHAFT TACH OUT (LO)		
A31-21	J1-5	A 440	SXT SHAFT TACH OUT (HI)		
A31-23	A30-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		
A31-23	A32-38	A 531	28VDC IMU STANDBY (PSAAM PWR)		
A31-24	A27-32	A 469	SXT SHAFT TACH (LO)		
A31-43	A27-40	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A32			AC AMPLIFIER 1902433-011 FIGURE 1		
A32-1	E46	A 415R	SXT TRUNNION MDA TACH MON HI		
A32-9	A32-15		SXT TRUNNION TACH (LO)		
A32-9	E44-8	A 415L	SXT TRUNNION TACH (LO)		
A32-13	A32-38	AA 46	28VDC IMU STANDBY (PSAAM PWR)		
A32-13	A33-10	A 532	28VDC IMU STANDBY (PSAAM PWR)		
A32-15	A32-9		SXT TRUNNION TACH (LO)		
A32-15	A30-24	A 471	SXT TRUNNION TACH (LO)		
A32-17	A30-43	A 470	800 CPS DEMOD SIG INPUT (HI)		
A32-19	E47	A 420R	SCT SHAFT MDA TACH MON (HI)		
A32-31	A32-32		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-31	E46	A 420L	SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A32-31		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A29-24	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		

SIZE	CODE IDENT NO.	
A	99974	2901518
SCALE-NONE	REV LTR C	SHEET 26 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A32			AC AMPLIFIER 1902433-011 FIGURE 1		
A32-38	A32-13	AA 46	28VDC IMU STANDBY (PSAAM PWR)		
A32-38	A31-23	A 531	28VDC IMU STANDBY (PSAAM PWR)		
A32-40	A29-43	A 472	BUFFERED SCT SHAFT MDA MON (HI)		
A33			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A33-1	A21-40	A 244	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A33-1	A44-17	A 245	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A33-6	A33-15		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-6	A21-31	A 247	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-6	A44-16	A 248	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-10	A32-13	A 532	28VDC IMU STANDBY (PSAAM PWR)		
A33-10	A37-13	A 533	28VDC IMU STANDBY (PSAAM PWR)		
A33-15	A33-6		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-15	A29-1	A 456	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A33-18	A29-4	A 448	PSD REF HI		
A37			AC AMPLIFIER 1902433-011 FIGURE 1		
A37-1	E49	A 425R	SCT TRUNNION MDA TACH MON (HI)		
A37-9	A37-15		SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-9	E50	A 425L	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-13	A33-10	A 533	28VDC IMU STANDBY (PSAAM PWR)		
A37-13	A38-23	A 534	28VDC IMU STANDBY (PSAAM PWR)		
A37-15	A37-9		SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-15	A38-24	A 475	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A37-17	A38-43	A 474	800 CPS DEMOD INPUT SIGNAL (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A38			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A38-1	A31-1	A 459	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A38-1	A39-1	A 460	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A38-4	A31-4	A 451	PSD REF HI		
A38-4	A39-4	A 452	PSD REF HI		
A38-13	J1-49	A 447	SCT TRUNNION TACH OUT (LO)		
A38-21	J1-74	A 446	SCT TRUNNION TACH OUT (HI)		
A38-23	A37-13	A 534	28VDC IMU STANDBY (PSAAM PWR)		
A38-23	A39-23	A 535	28VDC IMU STANDBY (PSAAM PWR)		
A38-24	A37-15	A 475	SCT TRUNNION MDA TACH FEEDBACK (LO)		
A38-43	A37-17	A 474	800 CPS DEMOD INPUT SIGNAL (HI)		
A39			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A39-1	A38-1	A 460	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A39-1	A40-1	A 461	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A39-4	A38-4	A 452	PSD REF HI		
A39-4	A40-4	A 453	PSD REF HI		
A39-13	J1-10	A 398	SXT SHAFT SERVO ERROR IN PH (LO)		
A39-21	J1-2	A 397	SXT SHAFT SERVO ERROR IN PH (HI)		
A39-23	A38-23	A 535	28VDC IMU STANDBY (PSAAM PWR)		
A39-23	A40-23	A 536	28VDC IMU STANDBY (PSAAM PWR)		
A39-24	E42-8	A 408	SXT SHAFT TACH (LO)		
A39-43	E41	A 401R	SXT SHAFT MDA P/A MON (HI)		
A40			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A40-1	A39-1	A 461	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A40-1	A41-1	A 462	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A40-4	A39-4	A 453	PSD REF HI		
A40-4	A41-4	A 454	PSD REF HI		
A40-13	J1-4	A 439	SXT TRUNNION SERVO ERROR IN PH (LO)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A40			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A40-21	J1-1	A 438	SXT TRUNNION SERVO ERROR IN PH (HI)		
A40-23	A39-23	A 536	28VDC IMU STANDBY (PSAAM PWR)		
A40-23	A41-23	A 537	28VDC IMU STANDBY (PSAAM PWR)		
A40-24	E44-8	A 413	SXT TRUNNION TACH (LO)		
A40-43	E43	A 404R	SXT TRUNNION MDA P/A MON (HI)		
A41			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A41-1	A40-1	A 462	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A41-1	A42-1	A 463	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A41-4	A40-4	A 454	PSD REF HI		
A41-4	A42-4	A 455	PSD REF HI		
A41-13	J1-11	A 465	SXT SHAFT MOTOR CONTROL WINDING (LO)		
A41-21	J1-3	A 464	SXT SHAFT MOTOR CONTROL WINDING (HI)		
A41-23	A40-23	A 537	28VDC IMU STANDBY (PSAAM PWR)		
A41-23	A42-23	A 538	28VDC IMU STANDBY (PSAAM PWR)		
A41-24	E42-8	A 409	SXT SHAFT TACH (LO)		
A41-43	E52	A 432	SXT SHAFT MDA C/P MON PH 1 (HI)		
A42			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A42-1	A41-1	A 463	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A42-4	A41-4	A 455	PSD REF HI		
A42-13	J1-27	A 467	SXT TRUNNION MOTOR CONTROL WINDING (LO)		
A42-21	J1-28	A 466	SXT TRUNNION MOTOR CONTROL WINDING. (HI)		
A42-23	A41-23	A 538	28VDC IMU STANDBY (PSAAM PWR)		
A42-24	E44-8	A 414	SXT TRUNNION TACH (LO)		
A42-43	E53	A 437	SXT TRUNNION MDA C/P MON PH 1 (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A44			PHASE SHIFTER 90 DEG 2901147-011 FIGURE 20		
A44-2	A20-40	A 282	3200 CPS BUFFERED (HI)		
A44-4	A19-33	A 265	90 DEG. BUFFERED 3200 CPS (HI)		
A44-13	E8-8	A 540	28VDC IMU STANDBY (PSAAM PWR)		
A44-14	A9-43	A 241	800 CPS DEMOD INPUT SIG (HI)		
A44-16	A9-24	A 242	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A44-16	A33-6	A 248	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A44-17	A33-1	A 245	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A44-20	A20-31	A 284	PIPA G/S OUTPUT (LO)		
A45			AC AMPLIFIER 1902433-011 FIGURE 1		
A45-1	J7-3	A 369	IG COURSE ERROR		
A45-1	J6-3	A 370	IG COURSE ERROR		
A45-9	A45-15		CDU TEST POINT + ERROR COM		
A45-9	E24-8	A 390	CDU TEST POINT + ERROR COM		
A45-13	A45-38	AA 35	28VDC IMU STANDBY (PSAAM PWR)		
A45-13	E8-8	A 507	28VDC IMU STANDBY (PSAAM PWR)		
A45-15	A45-9		CDU TEST POINT + ERROR COM		
A45-15	J2-23	A 354	CDU TEST POINT + ERROR COM		
A45-17	J2-43	A 353	IG CDU COURSE ERROR (HI)		
A45-19	J7-14	A 367	IG FINE ERROR		
A45-19	J6-14	A 368	IG FINE ERROR		
A45-31	A45-32		CDU TEST POINT + ERROR COM		
A45-31	E24-8	A 389	CDU TEST POINT + ERROR COM		
A45-32	A45-31		CDU TEST POINT + ERROR COM		
A45-32	J2-42	A 352	CDU TEST POINT + ERROR COM		
A45-38	A45-13	AA 35	28VDC IMU STANDBY (PSAAM PWR)		
A45-38	A46-13	A 407	28VDC IMU STANDBY (PSAAM PWR)		
A45-40	J2-66	A 351	IG CDU FINE ERROR (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A46			AC AMPLIFIER 1902433-011 FIGURE 1		
A46-1	J7-1	A 373	MG COURSE ERROR		
A46-1	J6-1	A 374	MG COURSE ERROR		
A46-9	A46-15		CDU TEST POINT + ERROR COM		
A46-9	E24-8	A 392	CDU TEST POINT + ERROR COM		
A46-13	A46-38	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-13	A45-38	A 407	28VDC IMU STANDBY (PSAAM PWR)		
A46-15	A46-9		CDU TEST POINT + ERROR COM		
A46-15	J2-45	A 358	CDU TEST POINT + ERROR COM		
A46-17	J2-69	A 357	MG CDU COARSE ERROR (HI)		
A46-19	J7-5	A 371	MG FINE ERROR		
A46-19	J6-5	A 372	MG FINE ERROR		
A46-31	A46-32		CDU TEST POINT + ERROR COM		
A46-31	E24-8	A 391	CDU TEST POINT + ERROR COM		
A46-32	A46-31		CDU TEST POINT + ERROR COM		
A46-32	J2-67	A 356	CDU TEST POINT + ERROR COM		
A46-38	A46-13	AA 36	28VDC IMU STANDBY (PSAAM PWR)		
A46-38	A3-13	A 508	28VDC IMU STANDBY (PSAAM PWR)		
A46-40	J2-68	A 355	MG CDU FINE ERROR (HI)		
A47			GLITCH DETECTOR 2901154-011 FIGURE 3		
A47-3	E19	A 111	+14VDC CGC T.P.		
A47-4	J1-85	A 143	+14VDC CGC SUPP, NOISE RMS		
A47-4	J1-84	A 144	+14VDC CGC SUPP, NOISE RMS		
A47-17	J2-85	A 148	+14VDC CGC SUPP, NOISE PEAKS (HI)		
A47-21	J2-61	A 149	+14VDC CGC SUPP, NOISE PEAKS (LO)		
A47-23	A2-81	A 542	28VDC IMU STANDBY (PSAAM PWR)		
A47-23	A48-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A47-37	A47-42		IMU OPERATE OVDC		
A47-37	E26-8	A 105	IMU OPERATE OVDC		
A47-42	A47-37		IMU OPERATE OVDC		
A47-42	J1-60	A 147	IMU OPERATE OVDC.		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A48			GLITCH DETECTOR 2901154-011 FIGURE 3		
A48-3	E20	A 114	+4VDC CGC T.P.		
A48-4	J1-82	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-4	J1-83	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
A48-17	J2-84	A 151	+4VDC CGC SUPP, NOISE PEAKS (HI)		
A48-21	J2-60	A 152	+4VDC CGC SUPP, NOISE PEAKS (LO)		
A48-23	A47-23	A 543	28VDC IMU STANDBY (PSAAM PWR)		
A48-23	A49-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A48-37	A48-42		IMU OPERATE OVDC		
A48-37	E26-8	A 106	IMU OPERATE OVDC		
A48-42	A48-37		IMU OPERATE OVDC		
A48-42	J1-58	A 150	IMU OPERATE OVDC		
A49			GLITCH DETECTOR 2901154-011 FIGURE 3		
A49-3	E21	A 117	+120VDC PIPA (HI)		
A49-4	J1-62	A 153	+120VDC PIPA, NOISE RMS (HI)		
A49-17	J2-83	A 155	+120VDC PIPA NOISE PEAKS (HI)		
A49-21	J2-59	A 156	+120VDC PIPA NOISE PEAKS (LO)		
A49-23	A48-23	A 544	28VDC IMU STANDBY (PSAAM PWR)		
A49-23	A50-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A49-37	A49-42		+120VDC PIPA RETURN		
A49-37	E22	A 120	+120VDC PIPA RETURN		
A49-42	A49-37		+120VDC PIPA RETURN		
A49-42	J1-63	A 154	+120VDC PIPA RETURN		
A50			GLITCH DETECTOR 2901154-011 FIGURE 3		
A50-3	E23	A 122	CDU TEST POINT 4V		
A50-4	J1-36	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-4	J1-59	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
A50-17	J2-82	A 160	+4VDC CDU SUPP NOISE PEAKS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A50			GLITCH DETECTOR 2901154-011 FIGURE 3		
A50-21	J2-58	A 161	+4VDC CDU SUPP NOISE PEAKS (LO)		
A50-23	A49-23	A 545	28VDC IMU STANDBY (PSAAM PWR)		
A50-23	A51-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A50-37	A50-42		CDU TEST POINT + ERROR COM		
A50-37	E24-8	A 125	CDU TEST POINT + ERROR COM		
A50-42	A50-37		CDU TEST POINT + ERROR COM		
A50-42	J1-35	A 159	CDU TEST POINT + ERROR COM		
A51			GLITCH DETECTOR 2901154-011 FIGURE 3		
A51-3	E25	A 128	IMU OPERATE +28VDC T.P.		
A51-4	J1-56	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-4	J1-57	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
A51-17	J2-38	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
A51-21	J2-39	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
A51-23	A50-23	A 546	28VDC IMU STANDBY (PSAAM PWR)		
A51-23	A52-23	A 547	-28VDC IMU STANDBY (PSAAM PWR)		
A51-37	A51-42		IMU OPERATE OVDC		
A51-37	E26-8	A 107	IMU OPERATE OVDC		
A51-42	A51-37		IMU OPERATE OVDC		
A51-42	J1-34	A 164	IMU OPERATE OVDC		
A52			GLITCH DETECTOR 2901154-011 FIGURE 3		
A52-3	E27	A 131	+28VDC IMU STANDBY T.P.		
A52-4	J1-16	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-4	J1-33	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
A52-17	J2-37	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
A52-21	J2-20	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
A52-23	A51-23	A 547	28VDC IMU STANDBY (PSAAM PWR)		
A52-23	A53-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A52			GLITCH DETECTOR 2901154-011 FIGURE 3		
A52-37	A52-42		IMU OPERATE OVDC		
A52-37	E26-8	A 108	IMU OPERATE OVDC		
A52-42	A52-37		IMU OPERATE OVDC		
A52-42	J1-17	A 169	IMU OPERATE OVDC		
A53			GLITCH DETECTOR 2901154-011 FIGURE 3		
A53-3	E28	A 134	+28VDC COMPUTER T.P.		
A53-4	J1-6	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-4	J1-18	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
A53-17	J2-36	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
A53-21	J2-19	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
A53-23	A52-23	A 548	28VDC IMU STANDBY (PSAAM PWR)		
A53-23	A54-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A53-37	A53-42		IMU OPERATE OVDC		
A53-37	E26-8	A 109	IMU OPERATE OVDC		
A53-42	A53-37		IMU OPERATE OVDC		
A53-42	J1-7	A 175	IMU OPERATE OVDC		
A54			GLITCH DETECTOR 2901154-011 FIGURE 3		
A54-3	E29	A 137	OPTICS +28VDC T.P.		
A54-4	J1-19	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-4	J1-20	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
A54-17	J2-35	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
A54-21	J2-18	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
A54-23	A53-23	A 549	28VDC IMU STANDBY (PSAAM PWR)		
A54-23	A59-19	A 550	28VDC IMU STANDBY (PSAAM PWR)		
A54-37	A54-42		OPTICS OVDC		
A54-37	E30	A 140	OPTICS OVDC		
A54-42	A54-37		OPTICS OVDC		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A54				GLITCH DETECTOR 2901154-011 FIGURE 3		
A54-42	J1-8	A	180	OPTICS 0VDC		
A59				ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-1	E6	A	32	3200 CPS 28V 1 PERCENT MON (HI)		
A59-2	K7-3	A	38	3200 CPS BUFFERED HI		
A59-2	A2-22	A	39	3200 CPS BUFFERED HI		
A59-4	E5-88	A	29	PIPA G/S OUTPUT (LO)		
A59-4	A22-9	A	49	PIPA G/S OUTPUT (LO)		
A59-5	J8-18	A	201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-5	J5-18	A	202	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-6	A22-19	A	203	BUFFERED 800 CPS PH B IMU MON HI		
A59-8	E34-88	A	207	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-8	A22-31	A	211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-9	J5-17	A	209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-9	J8-17	A	210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-10	A21-1	A	212	BUFFERED 800 CPS PH A IMU MON HI		
A59-12	E34-88	A	208	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-12	A21-9	A	213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-13	K2-8	A	87	SERVO AMP TEST INPUT		
A59-14	E26-8	A	104	IMU OPERATE 0VDC		
A59-16	A11-1	A	228	BUFFERED 800 CPS-IMU MON (HI)		
A59-17	A20-1	A	225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A59-18	A21-19	A	216	BUFFERED 800 CPS OPT MON HI		
A59-19	A54-23	A	550	28VDC IMU STANDBY (PSAAM PWR)		
A59-19	A60-19	A	551	28VDC IMU STANDBY (PSAAM PWR)		
A59-20	K3-8	A	88	SERVO AMP TEST INPUT (IG)		
A59-24	J8-59	A	226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-24	J5-59	A	227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-25	E35-8	A	220	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A59-26	J8-35	A	223	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-26	J5-35	A	224	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-27	E35-8	A	219	800V CPS 28V 1 PERCENT-OPT MON (LO)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A59				ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-28	J8-58	A	214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A59-28	J5-58	A	215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A60				LINE DRIVE AMP 1902434-011 FIGURE 2		
A60-1	J4-B	A	52	PIPA HARDLINE B (LO)		
A60-3	J4-A	A	51	PIPA HARDLINE A (HI)		
A60-7	A22-17	A	50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A60-19	A59-19	A	551	28VDC IMU STANDBY (PSAAM PWR)		
A60-21	A22-15	A	48	PIPA G/S OUTPUT (LO)		
E1				TERMINAL LUG 1015902-45 FIGURE 13		
E1	J4-C	A	53	STRUCTURE AND SHIELD GROUND		
E1	E11-8	A	62	STRUCTURE AND SHIELD GROUND		
E2				SOLDER SLEEVE 1010763-001 FIGURE 16		
E2	J7-19	A	9	Y PIPA G/S OUTPUT (HI)		
E2	J6-19	A	10	Y PIPA G/S OUTPUT (HI)		
E2	K9-3	A	11	Y PIPA G/S OUTPUT (HI)		
E3				SOLDER SLEEVE 1010763-001 FIGURE 16		
E3	J7-60	A	13	Z PIPA G/S OUTPUT (HI)		
E3	J6-60	A	14	Z PIPA G/S OUTPUT (HI)		
E3	K10-3	A	16	Z PIPA G/S OUTPUT (HI)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E4				SOLDER SLEEVE 1010763-001 FIGURE 16		
E4	J6-38	A	17	X PIPA G/S OUTPUT (HI)		
E4	J7-38	A	18	X PIPA G/S OUTPUT (HI)		
E4	K8-3	A	19	X PIPA G/S OUTPUT (HI)		
E5				SPLICE REDUCER 1016006-001 FIGURE 14		
E5-8	E5-88			PIPA G/S OUTPUT (LO)		
E5-8	J6-61	A	21	PIPA G/S OUTPUT (LO)		
E5-8	J6-37	A	22	PIPA G/S OUTPUT (LO)		
E5-8	J6-20	A	23	PIPA G/S OUTPUT (LO)		
E5-8	J7-61	A	24	PIPA G/S OUTPUT (LO)		
E5-8	J7-37	A	25	PIPA G/S OUTPUT (LO)		
E5-8	J7-20	A	26	PIPA G/S OUTPUT (LO)		
E5-8	A2-17	A	47	PIPA G/S OUTPUT (LO)		
E5-88	E5-8			PIPA G/S OUTPUT (LO)		
E5-88	J8-57	A	27	PIPA G/S OUTPUT (LO)		
E5-88	J5-57	A	28	PIPA G/S OUTPUT (LO)		
E5-88	A59-4	A	29	PIPA G/S OUTPUT (LO)		
E6				SOLDER SLEEVE 1010763-001 FIGURE 16	C	
E6	J8-56	A	30	3200 CPS 28V 1 PERCENT MON (HI)		
E6	J5-56	A	31	3200 CPS 28V 1 PERCENT MON (HI)		
E6	A59-1	A	32	3200 CPS 28V 1 PERCENT MON (HI)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E7				SPLICE REDUCER 1016006-001 FIGURE 14		
E7-8	E7-88			28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-57	A	4	28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-58	A	5	28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-59	A	6	28VDC IMU STANDBY (PSAAM PWR)		
E7-88	E7-8			28VDC IMU STANDBY (PSAAM PWR)		
E7-88	S1-2	A	7	28VDC IMU STANDBY (PSAAM PWR)		
E7-88	XF1-1	A	8	28VDC IMU STANDBY (PSAAM PWR)		
E8				SPLICE REDUCER 1016006-001 FIGURE 14		
E8-8	E8-88			28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A45-13	A	507	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A15-23	A	516	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A29-23	A	528	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A44-13	A	540	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A2-81	A	541	28VDC IMU STANDBY (PSAAM PWR)		
E8-88	E8-8			28VDC IMU STANDBY (PSAAM PWR)		
E8-88	S1-3	A	54	28VDC IMU STANDBY (PSAAM PWR)		
E9				SOLDER SLEEVE 1010763-001 FIGURE 16		
E9	A2-75	A	55R	3.2 KPPS PH A (HI)		
E9	J7-45	A	56	3.2 KPPS PH A (HI)		
E9	J6-45	A	57	3.2 KPPS PH A (HI)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E10				SOLDER SLEEVE 1010763-001 FIGURE 16		
E10	A2-78	A	55L	3.2 KPPS PH A (LC)		
E10	J6-46	A	58	3.2 KPPS PH A (LC)		
E10	J7-46	A	59	3.2 KPPS PH A (LC)		
E11				SPLICE REDUCER 1016006-001 FIGURE 14		
E11-B	E11-BB			STRUCTURE AND SHIELD GROUND		
E11-B	SHLD CFA55	A	55A	STRUCTURE AND SHIELD GROUND		
E11-B	E1	A	62	STRUCTURE AND SHIELD GROUND		
E11-B	J5-50	A	553	STRUCTURE AND SHIELD GROUND		
E11-BB	E11-B			STRUCTURE AND SHIELD GROUND		
E11-BB	J6-25	A	60	STRUCTURE AND SHIELD GROUND		
E11-BB	J7-25	A	61	STRUCTURE AND SHIELD GROUND		
E11-BB	J6-50	A	552	STRUCTURE AND SHIELD GROUND		
E12				SOLDER SLEEVE 1010763-001 FIGURE 16		
E12	K6-7	A	67	0VDC COMPUTER T.P.		
E12	J6-42	A	68	0VDC COMPUTER T.P.		
E12	J7-42	A	69	0VDC COMPUTER T.P.		
E13				SOLDER SLEEVE 1010763-001 FIGURE 16		
E13	S3-1	A	70	INHIBIT POWER FAIL		
E13	J6-39	A	71	INHIBIT POWER FAIL		
E13	J7-39	A	72	INHIBIT POWER FAIL		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E14				SPLICE REDUCER 1016006-001 FIGURE 14		
E14	J7-16	A	184	-28VDC (T.P. HI)		
E14	J6-16	A	185	-28VDC (T.P. HI)		
E14	J1-79	A	186	-28VDC (T.P. HI)		
E15				SPLICE REDUCER 1016006-001 FIGURE 14		
E15	J6-33	A	187	-28VDC (LC)		
E15	J7-33	A	188	-28VDC (LC)		
E15	J1-55	A	189	-28VDC (LC)		
E16				SOLDER SLEEVE 1010763-001 FIGURE 16		
E16	K3-3	A	91	SERVO AMP TEST INPUT (IG)		
E16	J6-18	A	92	SERVO AMP TEST INPUT (IG)		
E16	J7-18	A	93	SERVO AMP TEST INPUT (IG)		
E17				SOLDER SLEEVE 1010763-001 FIGURE 16		
E17	K2-3	A	96	SERVO AMP TEST INPUT (MG)		
E17	J6-6	A	97	SERVO AMP TEST INPUT (MG)		
E17	J7-6	A	98	SERVO AMP TEST INPUT (MG)		
E18				SOLDER SLEEVE 1010763-001 FIGURE 16		
E18	K1-3	A	101	SERVO AMP TEST INPUT (CG)		
E18	J7-7	A	102	SERVO AMP TEST INPUT (CG)		
E18	J6-7	A	103	SERVO AMP TEST INPUT (CG)		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E19				SOLDER SLEEVE 1010763-001 FIGURE 16		
E19	A47-3	A	111	+14VDC CGC T.P.		
E19	J6-22	A	112	+14VDC CGC T.P.		
E19	J7-22	A	113	+14VDC CGC T.P.		
E20				SOLDER SLEEVE 1010763-001 FIGURE 16		
E20	A48-3	A	114	+4VDC CGC T.P.		
E20	J6-9	A	115	+4VDC CGC T.P.		
E20	J7-9	A	116	+4VDC CGC T.P.		
E21				SOLDER SLEEVE 1010763-001 FIGURE 16		
E21	A49-3	A	117	+120VDC PIPA (HI)		
E21	J6-47	A	118	+120VDC PIPA (HI)		
E21	J7-47	A	119	+120VDC PIPA (HI)		
E22				SOLDER SLEEVE 1010763-001 FIGURE 16		
E22	J7-48	A	78	+120VDC PIPA RETURN		
E22	A49-37	A	120	+120VDC PIPA RETURN		
E22	J6-48	A	121	+120VDC PIPA RETURN		
E23				SOLDER SLEEVE 1010763-001 FIGURE 16		
E23	A50-3	A	122	CDU TEST POINT 4V		
E23	J7-26	A	123	CDU TEST POINT 4V		
E23	J6-26	A	124	CDU TEST POINT 4V		

FROM	TO	LEAD NO		CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E24				SPLICE REDUCER 1016006-002 FIGURE 15		
E24-B	E24-BB			CDU TEST POINT + ERROR COM		
E24-B	A50-37	A	125	CDU TEST POINT + ERROR COM		
E24-B	A7-24	A	386	CDU TEST POINT + ERROR COM		
E24-B	A6-24	A	387	CDU TEST POINT + ERROR COM		
E24-B	A5-24	A	388	CDU TEST POINT + ERROR COM		
E24-B	A45-31	A	389	CDU TEST POINT + ERROR COM		
E24-B	A45-9	A	390	CDU TEST POINT + ERROR COM		
E24-B	A46-31	A	391	CDU TEST POINT + ERROR COM		
E24-B	A46-9	A	392	CDU TEST POINT + ERROR COM		
E24-B	A3-31	A	393	CDU TEST POINT + ERROR COM		
E24-B	A3-9	A	394	CDU TEST POINT + ERROR COM		
E24-B	A4-31	A	395	CDU TEST POINT + ERROR COM		
E24-B	A4-9	A	396	CDU TEST POINT + ERROR COM		
E24-BB	E24-B			CDU TEST POINT + ERROR COM		
E24-BB	J6-27	A	126	CDU TEST POINT + ERROR COM		
E24-BB	J7-27	A	127	CDU TEST POINT + ERROR COM		
E24-BB	T1-4	A	383	CDU TEST POINT + ERROR COM		
E24-BB	T2-4	A	384	CDU TEST POINT + ERROR COM		
E24-BB	T3-4	A	385	CDU TEST POINT + ERROR COM		
E25				SOLDER SLEEVE 1010763-001 FIGURE 16		
E25	A51-3	A	128	IMU OPERATE +28VDC T.P.		
E25	J6-15	A	129	IMU OPERATE +28VDC T.P.		
E25	J5-15	A	130	IMU OPERATE +28VDC T.P.		
E26				SPLICE REDUCER 1016006-001 FIGURE 14		
E26-B	E26-BB			IMU OPERATE 0VDC		
E26-B	A59-14	A	104	IMU OPERATE 0VDC		
E26-B	A47-37	A	105	IMU OPERATE 0VDC		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E26			SPLICE REDUCER 1016006-001 FIGURE 14		
E26-B	A48-37	A 106	IMU OPERATE 0VDC		
E26-B	A51-37	A 107	IMU OPERATE 0VDC		
E26-B	A52-37	A 108	IMU OPERATE 0VDC		
E26-B	A53-37	A 109	IMU OPERATE 0VDC		
E26-BB	E26-B		IMU OPERATE 0VDC		
E26-BB	J5-14	A 79	IMU OPERATE 0VDC		
E26-BB	J8-14	A 110	IMU OPERATE 0VDC		
E26-BB	J2-29	A 476	IMU OPERATE 0VDC		
E27			SOLDER SLEEVE 1010763-001 FIGURE 16		
E27	A52-3	A 131	+28VDC IMU STANDBY T.P.		
E27	J8-5	A 132	+28VDC IMU STANDBY T.P.		
E27	J5-5	A 133	+28VDC IMU STANDBY T.P.		
E28			SOLDER SLEEVE 1010763-001 FIGURE 16		
E28	A53-3	A 134	+28VDC COMPUTER T.P.		
E28	J7-41	A 135	+28VDC COMPUTER T.P.		
E28	J6-41	A 136	+28VDC COMPUTER T.P.		
E29			SOLDER SLEEVE 1010763-001 FIGURE 16		
E29	A54-3	A 137	OPTICS +28VDC T.P.		
E29	J8-6	A 138	OPTICS +28VDC T.P.		
E29	J5-6	A 139	OPTICS +28VDC T.P.		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E30			SOLDER SLEEVE 1010763-001 FIGURE 16		
E30	A54-37	A 140	OPTICS 0VDC		
E30	J5-16	A 141	OPTICS 0VDC		
E30	J6-16	A 142	OPTICS 0VDC		
E31			SPLICE REDUCER 1016006-001 FIGURE 14		
E31-B	E31-BB		+20VDC T.P. HI		
E31-B	J1-38	A 190	+20VDC T.P. HI		
E31-B	J1-61	A 191	+20VDC T.P. HI		
E31-B	J7-31	A 192	+20VDC T.P. HI		
E31-BB	E31-B		+20VDC T.P. HI		
E31-BB	J6-31	A 193	+20VDC T.P. HI		
E32			SPLICE REDUCER 1016006-001 FIGURE 14		
E32-B	E32-BB		+20VDC RETURN		
E32-B	J7-53	A 195	+20VDC RETURN		
E32-B	J1-37	A 196	+20VDC RETURN		
E32-B	J1-39	A 197	+20VDC RETURN		
E32-BB	E32-B		+20VDC RETURN		
E32-BB	J6-53	A 194	+20VDC RETURN		
E33			SOLDER SLEEVE 1010763-001 FIGURE 16		
E33	J7-52	A 198	-20VDC T.P. HI		
E33	J6-52	A 199	-20VDC T.P. HI		
E33	J1-64	A 200	-20VDC T.P. HI		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E34			SPLICE REDUCER 1016006-001 FIGURE 14		
E34-B	E34-BB		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J5-7	A 204	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J8-7	A 205	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-B	J2-50	A 206	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	E34-B		800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-8	A 207	800 CPS 28V 5 PERCENT (PH A+B COM)		
E34-BB	A59-12	A 208	800 CPS 28V 5 PERCENT (PH A+B COM)		
E35			SPLICE REDUCER 1016006-001 FIGURE 14		
E35-B	E35-BB		800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-B	A59-27	A 219	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-B	A59-25	A 220	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-B	A21-31	A 221	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-B	A20-9	A 222	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-BB	E35-B		800V CPS 28V 1 PERCENT-OPT MON (LO)		
E35-BB	J5-34	A 217	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E35-BB	J8-34	A 218	800V CPS 28V 1 PERCENT-OPT MON (LC)		
E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-B	E36-BB		0VDC IMU		
E36-B	A24-24	A 286	0VDC IMU		
E36-B	A23-9	A 292	0VDC IMU		
E36-B	A23-31	A 293	0VDC IMU		
E36-B	A27-9	A 294	0VDC IMU		
E36-B	A15-24	A 295	0VDC IMU		
E36-B	A16-24	A 296	0VDC IMU		
E36-B	A17-24	A 297	0VDC IMU		
E36-BB	E36-B		0VDC IMU		
E36-BB	J5-55	A 290	0VDC IMU		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) E36			SPLICE REDUCER 1016006-001 FIGURE 14		
E36-BB	J8-55	A 291	0VDC IMU		
E37			SPLICE REDUCER 1016006-001 FIGURE 14		
E37-B	E37-BB		SERVO AMP TEST POINT LC		
E37-B	J1-42	A 314	SERVO AMP TEST POINT LC		
E37-B	J1-23	A 315	SERVO AMP TEST POINT LC		
E37-B	J1-66	A 316	SERVO AMP TEST POINT LC		
E37-BB	E37-B		SERVO AMP TEST POINT LC		
E37-BB	J7-36	A 312	SERVO AMP TEST POINT LC		
E37-BB	J6-36	A 313	SERVO AMP TEST POINT LC		
E38			SOLDER SLEEVE 1010763-001 FIGURE 16		
E38	J7-17	A 317	SERVO AMP OUTPUT MON (MG LC)		
E38	J6-17	A 318	SERVO AMP OUTPUT MON (MG LC)		
E38	J1-43	A 319	SERVO AMP OUTPUT MON (MG LC)		
E39			SOLDER SLEEVE 1010763-001 FIGURE 16		
E39	J7-34	A 320	SERVO AMP OUTPUT MON (LG LC)		
E39	J6-34	A 321	SERVO AMP OUTPUT MON (LG LO)		
E39	J1-24	A 322	SERVO AMP OUTPUT MON (LG LC)		

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FROM          TO          LEAD NO   CIRCUIT FUNCTION                         PEN NOTE  NET. NO.
        E40                SOLDER SLEEVE  1010763-001 FIGURE 16

E40           J7-35        A  323   SERVO AMP OUTPUT MON (IG LO)
E40           J6-35        A  324   SERVO AMP OUTPUT MON (IG LO)
E40           J1-67        A  325   SERVO AMP OUTPUT MON (IG LO)


        E41                SOLDER SLEEVE  1010763-001 FIGURE 16

E41           J8-30        A  359   SXT SHAFT MDA P/A MON (HI)
E41           J5-30        A  400   SXT SHAFT MDA P/A MON (HI)
E41           A39-43       A  401R  SXT SHAFT MDA P/A MON (HI)


        E42                SPLICE REDUCER 1016006-001 FIGURE 14

E42-B         E42-BB                SXT SHAFT TACH (LO)
E42-B         A39-24       A  408   SXT SHAFT TACH (LO)
E42-B         A41-24       A  409   SXT SHAFT TACH (LO)
E42-B         A27-31       A  410R  SXT SHAFT TACH (LO)
E42-BB        E42-B                 SXT SHAFT TACH (LO)
E42-BB        J5-40        A  405   SXT SHAFT TACH (LO)
E42-BB        J8-40        A  406   SXT SHAFT TACH (LO)


        E43                SOLDER SLEEVE  1010763-001 FIGURE 16

E43           J8-51        A  402   SXT TRUNNION MDA P/A MON (HI)
E43           J5-51        A  403   SXT TRUNNION MDA P/A MON (HI)
E43           A40-43       A  404R  SXT TRUNNION MDA P/A MON (HI)
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SIZE A	CODE IDENT NO. 99974	2901518
SCALE-NONE	REV LTR C	SHEET 47 OF 70

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                                   RUNNING LIST ▼                          2901518      C
FROM          TO          LEAD NO   CIRCUIT FUNCTION                         PEN NOTE  NET. NO.
        E44                SPLICE REDUCER 1016006-001 FIGURE 14

E44-B         E44-BB                SXT TRUNNION TACH (LO)
E44-B         A40-24       A  413   SXT TRUNNION TACH (LO)
E44-B         A42-24       A  414   SXT TRUNNION TACH (LO)
E44-B         A32-9        A  415C  SXT TRUNNION TACH (LO)
E44-BB        E44-B                 SXT TRUNNION TACH (LO)
E44-BB        J5-38        A  411   SXT TRUNNION TACH (LO)
E44-BB        J8-38        A  412   SXT TRUNNION TACH (LO)


        E45                SOLDER SLEEVE  1010763-001 FIGURE 16

E45           A27-19       A  410L  SXT SHAFT MDA TACH MON HI
E45           J8-39        A  416   SXT SHAFT MDA TACH MON HI
E45           J5-39        A  417   SXT SHAFT MDA TACH MON HI


        E46                SOLDER SLEEVE  1010763-001 FIGURE 16

E46           A32-1        A  415R  SXT TRUNNION MDA TACH MON HI
E46           J8-61        A  418   SXT TRUNNION MDA TACH MON HI
E46           J5-61        A  419   SXT TRUNNION MDA TACH MON HI


        E47                SOLDER SLEEVE  1010763-001 FIGURE 16

E47           A32-19       A  420R  SCT SHAFT MDA TACH MON (HI)
E47           J8-44        A  421   SCT SHAFT MDA TACH MON (HI)
E47           J5-44        A  422   SCT SHAFT MDA TACH MON (HI)
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SIZE A	CODE IDENT NO. 99974	2901518
SCALE-NONE	REV LTR C	SHEET 48 OF 70

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                                   RUNNING LIST ▼                          2901518      C
FROM          TO          LEAD NO   CIRCUIT FUNCTION                         PEN NOTE  NET. NO.
        E48                SOLDER SLEEVE  1010763-001 FIGURE 16

E48           A32-31       A  420L  SCT SHAFT MDA TACH FEEDBACK (LO)
E48           J5-45        A  423   SCT SHAFT MDA TACH FEEDBACK (LO)
E48           J8-45        A  424   SCT SHAFT MDA TACH FEEDBACK (LO)


        E49                SOLDER SLEEVE  1010763-001 FIGURE 16

E49           A37-1        A  425R  SCT TRUNNION MDA TACH MON (HI)
E49           J5-47        A  426   SCT TRUNNION MDA TACH MON (HI)
E49           J8-47        A  427   SCT TRUNNION MDA TACH MON (HI)


        E50                SOLDER SLEEVE  1010763-001 FIGURE 16

E50           A37-9        A  425L  SCT TRUNNION MDA TACH FEEDBACK (LO)
E50           J5-46        A  428   SCT TRUNNION MDA TACH FEEDBACK (LO)
E50           J8-46        A  429   SCT TRUNNION MDA TACH FEEDBACK (LO)


        E51                SPLICE REDUCER 1016006-001 FIGURE 14

E51-B         E51-BB                C VDC OPTICS (SHIELD)
E51-B         SHLD  A401   A  401A  C VDC OPTICS (SHIELD)
E51-B         SHLD  A404   A  404A  C VDC OPTICS (SHIELD)
E51-B         SHLD  A410   A  410A  C VDC OPTICS (SHIELD)
E51-B         SHLD  A415   A  415A  C VDC OPTICS (SHIELD)
E51-B         SHLD  A420   A  420A  C VDC OPTICS (SHIELD)
E51-B         SHLD  A425   A  425A  C VDC OPTICS (SHIELD)
E51-BB        E51-B                 C VDC OPTICS (SHIELD)
E51-BB        J8-26        A  433   C VDC OPTICS (SHIELD)
E51-BB        J5-26        A  434   C VDC OPTICS (SHIELD)
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SIZE A	CODE IDENT NO. 99974	2901518
SCALE-NONE	REV LTR C	SHEET 49 OF 70

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                                   RUNNING LIST ▼                          2901518      C
FROM          TO          LEAD NO   CIRCUIT FUNCTION                         PEN NOTE  NET. NO.
        E52                SOLDER SLEEVE  1010763-001 FIGURE 16

E52           J5-31        A  430   SXT SHAFT MDA C/P MON PH 1 (HI)
E52           J8-31        A  431   SXT SHAFT MDA C/P MON PH 1 (HI)
E52           A41-43       A  432   SXT SHAFT MDA C/P MON PH 1 (HI)


        E53                SOLDER SLEEVE  1010763-001 FIGURE 16

E53           J5-52        A  435   SXT TRUNNION MDA C/P MON PH 1 (HI)
E53           J8-52        A  436   SXT TRUNNION MDA C/P MON PH 1 (HI)
E53           A42-43       A  437   SXT TRUNNION MDA C/P MON PH 1 (HI)


        E54                SOLDER SLEEVE  1010763-001 FIGURE 16

E54           J8-8         A  477   IRIG TEMP (FROM SIG COND) (HI)
E54           J5-8         A  478   IRIG TEMP (FROM SIG COND) (HI)
E54           J1-68        A  479   IRIG TEMP (FROM SIG COND) (HI)


        E55                SOLDER SLEEVE  1010763-001 FIGURE 16

E55           J8-9         A  480   IRIG TEMP (FROM SIG COND) (LO)
E55           J5-9         A  481   IRIG TEMP (FROM SIG COND) (LO)
E55           J1-44        A  482   IRIG TEMP (FROM SIG COND) (LO)


        E56                SOLDER SLEEVE  1010763-001 FIGURE 16

E56           J5-19        A  483   CONTROL HEATER SIGNAL (TELE)
E56           J8-19        A  484   CONTROL HEATER SIGNAL (TELE)
E56           J2-30        A  485   CONTROL HEATER SIGNAL (TELE)
```

SIZE A	CODE IDENT NO. 99974	2901518
SCALE-NONE	REV LTR C	SHEET 50 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E58			SOLDER SLEEVE 1010763-001 FIGURE 16		
E58	J6-2	A 489	CGC TEMPERATURE MON (LO)		
E58	J7-2	A 490	CGC TEMPERATURE MON (LO)		
E58	J2-6	A 491	CGC TEMPERATURE MON (LO)		
E60			SOLDER SLEEVE 1010763-001 FIGURE 16		
E60	J6-32	A 495	PIPA CAL MOD TEMP (LO)		
E60	J7-32	A 496	PIPA CAL MOD TEMP (LO)		
E60	J2-5	A 497	PIPA CAL MOD TEMP (LO)		
E62			SOLDER SLEEVE 1010763-001 FIGURE 16		
E62	J6-55	A 501	PSA TEMPERATURE (LO)		
E62	J7-55	A 502	PSA TEMPERATURE (LO)		
E62	J2-14	A 503	PSA TEMPERATURE (LO)		
E63			SOLDER SLEEVE 1010763-001 FIGURE 16		
E63	J5-36	A 504	BLOWER SIGNAL (TELE) HI		
E63	J8-36	A 505	BLOWER SIGNAL (TELE) HI		
E63	J2-51	A 506	BLOWER SIGNAL (TELE) HI		
J1			CONNECTOR 1897247-002 FIGURE 11		
J1-1	A40-21	A 438	SXT TRUNNION SERVO ERROR IN PH (HI)		
J1-2	A39-21	A 397	SXT SHAFT SERVO ERROR IN PH (HI)		
J1-3	A41-21	A 464	SXT SHAFT MOTOR CONTROL WINDING (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-4	A40-13	A 439	SXT TRUNNION SERVO ERROR IN PH (LO)		
J1-5	A31-21	A 440	SXT SHAFT TACH OUT (HI)		
J1-6	A53-4	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-7	A53-42	A 175	IMU OPERATE OVDC		
J1-8	A54-42	A 180	OPTICS OVDC		
J1-9	A17-13	A 311	OG SERVO ERROR, QUAD (LO)		
J1-10	A39-13	A 398	SXT SHAFT SERVO ERROR IN PH (LO)		
J1-11	A41-13	A 465	SXT SHAFT MOTOR CONTROL WINDING (LO)		
J1-12	A30-21	A 442	SXT TRUNNION TACH OUT (HI)		
J1-13	A30-13	A 443	SXT TRUNNION TACH OUT (LO)		
J1-14	A31-13	A 441	SXT SHAFT TACH OUT (LO)		
J1-15	A2-14	A 64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
J1-16	A52-4	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-17	A52-42	A 169	IMU OPERATE OVDC		
J1-18	A53-4	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-19	A54-4	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-20	A54-4	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-21	A17-21	A 310	OG SERVO ERROR, QUAD (HI)		
J1-22	A16-13	A 309	MG SERVO ERROR, QUAD (LO)		
J1-23	E37-8	A 315	SERVO AMP TEST POINT LO		
J1-24	E39	A 322	SERVO AMP OUTPUT MON (OG LO)		
J1-25	A25-21	A 269	MG SERVO ERROR IN PH (HI)		
J1-26	A26-21	A 267	IG SERVO ERROR IN PH (HI)		
J1-27	A42-13	A 467	SXT TRUNNION MOTOR CONTROL WINDING (LO)		
J1-28	A42-21	A 466	SXT TRUNNION MOTOR CONTROL WINDING (HI)		
J1-29	A5-13	A 350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
J1-30	A5-21	A 349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
J1-31	A9-21	A 251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
J1-32	A2-3	A 63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
J1-33	A52-4	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-34	A51-42	A 164	IMU OPERATE OVDC		
J1-35	A50-42	A 159	CDU TEST POINT + ERROR COM		
J1-36	A50-4	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-37	E32-8	A 196	+20VDC RETURN		
J1-38	E31-8	A 190	+20VDC T.P. HI		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-39	E32-8	A 197	+20VDC RETURN		
J1-40	A15-13	A 274	IG SERVO ERROR, QUAD (LO)		
J1-41	A16-21	A 308	MG SERVO ERROR, QUAD (HI)		
J1-42	E37-8	A 314	SERVO AMP TEST POINT LO		
J1-43	E38	A 319	SERVO AMP OUTPUT MON (MG LO)		
J1-44	E55	A 482	IRIG TEMP (FROM SIG COND) (LO)		
J1-45	A25-13	A 270	MG SERVO ERROR IN PH (LO)		
J1-46	A26-13	A 268	IG SERVO ERROR IN PH (LO)		
J1-49	A38-13	A 447	SCT TRUNNION TACH OUT (LO)		
J1-50	A29-13	A 445	SCT SHAFT TACH OUT (LO)		
J1-51	A6-13	A 348	YAW ATT ERROR (CDU DAC OUT)(LO)		
J1-52	A6-21	A 347	YAW ATT ERROR (CDU DAC OUT)(HI)		
J1-53	A9-13	A 252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
J1-54	A8-13	A 254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
J1-55	E15	A 189	-28VDC (LO)		
J1-56	A51-4	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-57	A51-4	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-58	A48-42	A 150	IMU OPERATE OVDC		
J1-59	A50-4	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-60	A47-42	A 147	IMU OPERATE OVDC		
J1-61	E31-8	A 191	+20VDC T.P. HI		
J1-62	A49-4	A 153	+120VDC PIPA, NOISE RMS (HI)		
J1-63	A49-42	A 154	+120VDC PIPA RETURN		
J1-64	E33	A 200	-20VDC T.P. HI		
J1-65	A15-21	A 273	IG SERVO ERROR, QUAD (HI)		
J1-66	E37-8	A 316	SERVO AMP TEST POINT LO		
J1-67	E40	A 325	SERVO AMP OUTPUT MON (IG LO)		
J1-68	E54	A 479	IRIG TEMP (FROM SIG COND) (HI)		
J1-70	A24-21	A 271	OG SERVO ERROR IN PH (HI)		
J1-71	A24-13	A 272	OG SERVO ERROR IN PH (LO)		
J1-74	A38-21	A 446	SCT TRUNNION TACH OUT (HI)		
J1-75	A29-21	A 444	SCT SHAFT TACH OUT (HI)		
J1-76	A7-13	A 346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
J1-77	A7-21	A 345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
J1-78	A8-21	A 253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-79	E14	A 186	-28VDC (T.P. HI)		
J1-82	A48-4	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-83	A48-4	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-84	A47-4	A 144	+14VDC CGC SUPP, NOISE RMS		
J1-85	A47-4	A 143	+14VDC CGC SUPP, NOISE RMS		
J2			CONNECTOR 1897247-003 FIGURE 11		
J2-5	E60	A 497	PIPA CAL MOD TEMP (LO)		
J2-6	E58	A 491	CGC TEMPERATURE MON (LO)		
J2-11	A3-32	A 360	CDU TEST POINT + ERROR COM		
J2-14	E62	A 503	PSA TEMPERATURE (LO)		
J2-15	TB1-6	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
J2-16	TB1-4	A 494	PIPA CAL MOD TEMP (HI)		
J2-17	TB1-2	A 488	CGC TEMPERATURE (HI)		
J2-18	A54-21	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
J2-19	A53-21	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
J2-20	A52-21	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
J2-23	A45-15	A 354	CDU TEST POINT + ERROR COM		
J2-25	A3-40	A 359	CG CDU FINE ERROR (HI)		
J2-27	A4-32	A 364	CDU TEST POINT + ERROR COM		
J2-29	E26-88	A 476	IMU OPERATE OVDC		
J2-30	E56	A 485	CONTROL HEATER SIGNAL (TELE)		
J2-31	A20-15	A 250	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-32	A21-15	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-35	A54-17	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
J2-36	A53-17	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
J2-37	A52-17	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
J2-38	A51-17	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
J2-39	A51-21	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
J2-42	A45-32	A 352	CDU TEST POINT + ERROR COM		
J2-43	A45-17	A 353	IG CDU COARSE ERROR (HI)		
J2-45	A46-15	A 358	CDU TEST POINT + ERROR COM		

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6				CONNECTOR 1897252-106 FIGURE 12		
J6-46	E10	A	58	3.2 KPPS PH A (LO)		
J6-47	E21	A	118	+120VDC PIPA (HI)		
J6-48	E22	A	121	+120VDC PIPA RETURN		
J6-50	E11-BB	A	552	STRUCTURE AND SHIELD GROUND		
J6-52	E33	A	199	-20VDC T.P. HI		
J6-53	E32-BB	A	194	+20VDC RETURN		
J6-54	TB1-3	A	492	PIPA CAL MOD TEMP (HI)		
J6-55	E62	A	501	PSA TEMPERATURE (LO)		
J6-56	TB1-5	A	498	PSA TEMPERATURE (HI)		
J6-57	XF1-2	A	1	28VDC IMU STANDBY (PSAAM PWR)		
J6-58	XF1-2	A	2	28VDC IMU STANDBY (PSAAM PWR)		
J6-59	XF1-2	A	3	28VDC IMU STANDBY (PSAAM PWR)		
J6-60	E3	A	14	Z PIPA G/S OUTPUT (HI)		
J6-61	E5-B	A	21	PIPA G/S OUTPUT (LO)		
J7				CONNECTOR 1897247-006 FIGURE 8		
J7-1	A46-1	A	373	MG COURSE ERROR		
J7-2	E58	A	490	CGC TEMPERATURE MON (LO)		
J7-3	A45-1	A	369	IG COURSE ERROR		
J7-4	A3-1	A	377	OG COURSE ERROR		
J7-5	A46-19	A	371	MG FINE ERROR		
J7-6	E17	A	98	SERVO AMP TEST INPUT (MG)		
J7-7	E18	A	102	SERVO AMP TEST INPUT (OG)		
J7-8	TB1-1	A	487	CGC TEMPERATURE MON (HI)		
J7-9	E20	A	116	+4VDC CGC T.P.		
J7-10	T2-2	A	332	YAW CDU ATT ERROR (LO)		
J7-11	T2-1	A	330	YAW CDU ATT ERROR (HI)		
J7-12	A4-1	A	381	SHAFT FINE ERROR		
J7-13	A4-19	A	379	TRUNNION FINE ERROR		
J7-14	A45-19	A	367	IG FINE ERROR.		
J7-15	A3-19	A	375	OG FINE ERROR		
J7-16	E14	A	184	-28VDC (T.P. HI)		

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7				CONNECTOR 1897247-006 FIGURE 8		
J7-17	E38	A	317	SERVO AMP OUTPUT MON (MG LO)		
J7-18	E16	A	93	SERVO AMP TEST INPUT (IG)		
J7-19	E2	A	9	Y PIPA G/S OUTPUT (HI)		
J7-20	E5-B	A	26	PIPA G/S OUTPUT (LO)		
J7-21	K4-7	A	74	ACE BIAS 2		
J7-22	E19	A	113	+14VDC CGC T.P.		
J7-23	T3-1	A	334	ROLL CDU ATT ERROR (HI)		
J7-24	T1-2	A	328	PITCH CDU ATT ERROR (LO)		
J7-25	E11-BB	A	61	STRUCTURE AND SHIELD GROUND		
J7-26	E23	A	123	CDU TEST POINT 4V		
J7-27	E24-BB	A	127	CDU TEST POINT + ERROR COM		
J7-31	E31-B	A	192	+20VDC T.P. HI		
J7-32	E60	A	496	PIPA CAL MOD TEMP (LO)		
J7-33	E15	A	188	-28VDC (LO)		
J7-34	E39	A	320	SERVO AMP OUTPUT MON (OG LO)		
J7-35	E40	A	323	SERVO AMP OUTPUT MON (IG LO)		
J7-36	E37-BB	A	312	SERVO AMP TEST POINT LO		
J7-37	E5-B	A	25	PIPA G/S OUTPUT (LO)		
J7-38	E4	A	18	X PIPA G/S OUTPUT (HI)		
J7-39	E13	A	72	INHIBIT POWER FAIL		
J7-40	K4-3	A	76	ACE BIAS 1		
J7-41	E28	A	135	+28VDC COMPUTER T.P.		
J7-42	E12	A	69	0VDC COMPUTER T.P.		
J7-43	T3-2	A	336	ROLL CDU ATT ERROR (LO)		
J7-44	T1-1	A	326	PITCH CDU ATT ERROR (HI)		
J7-45	E9	A	56	3.2 KPPS PH A (HI)		
J7-46	E10	A	59	3.2 KPPS PH A (LO)		
J7-47	E21	A	119	+120VDC PIPA (HI)		
J7-48	E22	A	78	+120VDC PIPA RETURN		
J7-52	E33	A	198	-20VDC T.P. HI		
J7-53	E32-B	A	195	+20VDC RETURN		
J7-54	TB1-3	A	493	PIPA CAL MOD TEMP (HI)		
J7-55	E62	A	502	PSA TEMPERATURE (LO)		
J7-56	TB1-5	A	499	PSA TEMPERATURE (HI)		
J7-57	E7-B	A	4	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7				CONNECTOR 1897247-006 FIGURE 8		
J7-58	E7-B	A	5	28VDC IMU STANDBY (PSAAM PWR)		
J7-59	E7-B	A	6	28VDC IMU STANDBY (PSAAM PWR)		
J7-60	E3	A	13	Z PIPA G/S OUTPUT (HI)		
J7-61	E5-B	A	24	PIPA G/S OUTPUT (LO)		
J8				CONNECTOR 1897247-007 FIGURE 8		
J8-5	E27	A	132	+28VDC IMU STANDBY T.P.		
J8-6	E29	A	138	OPTICS +28VDC T.P.		
J8-7	E34-B	A	205	800 CPS 28V 5 PERCENT (PH A+B COM)		
J8-8	E54	A	477	IRIG TEMP (FROM SIG COND) (HI)		
J8-9	E55	A	480	IRIG TEMP (FROM SIG COND) (LO)		
J8-14	E26-BB	A	110	IMU OPERATE 0VDC		
J8-15	E25	A	129	IMU OPERATE +28VDC T.P.		
J8-16	E30	A	142	OPTICS 0VDC		
J8-17	A59-9	A	210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J8-18	A59-5	A	201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J8-19	E56	A	484	CONTROL HEATER SIGNAL (TELE)		
J8-26	E51-BB	A	433	0 VDC OPTICS (SHIELD)		
J8-30	E41	A	399	SXT SHAFT MDA P/A MON (HI)		
J8-31	E52	A	431	SXT SHAFT MDA O/P MON PH 1 (HI)		
J8-32	A27-1	A	298	OG IRIG ERROR, BUFFERED		
J8-33	A23-1	A	288	IG+Y IRIG ERROR, BUFFERED		
J8-34	E35-BB	A	218	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J8-35	A59-26	A	223	800 CPS 28V 5 PERCENT-OPT MON HI		
J8-36	E63	A	505	BLOWER SIGNAL (TELE) HI		
J8-38	E44-BB	A	412	SXT TRUNNION TACH (LO)		
J8-39	E45	A	416	SXT SHAFT MDA TACH MON HI		
J8-40	E42-BB	A	406	SXT SHAFT TACH (LO)		
J8-44	E47	A	421	SCT SHAFT MDA TACH MON (HI)		
J8-45	E48	A	424	SCT SHAFT MDA TACH FEEDBACK (LO)		
J8-46	E50	A	429	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J8-47	E49	A	427	SCT TRUNNION MDA TACH MON (HI)		

FROM	TO		LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J8				CONNECTOR 1897247-007 FIGURE 8		
J8-51	E43	A	402	SXT TRUNNION MDA P/A MON (HI)		
J8-52	E53	A	436	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J8-54	A23-19	A	300	MG IRIG ERROR, BUFFERED		
J8-55	E36-BB	A	291	0VDC IMU		
J8-56	E6	A	30	3200 CPS 28V 1 PERCENT MON (HI)		
J8-57	E5-BB	A	27	PIPA G/S OUTPUT (LO)		
J8-58	A59-28	A	214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J8-59	A59-24	A	226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J8-60	A11-6	A	230	800 CPS 28V 1 PERCENT IMU MON (LO)		
J8-61	E46	A	418	SXT TRUNNION MDA TACH MON HI		
K1				RELAY 1015832-118 FIGURE 22		
K1-1	TB1-23	AA	24	+28 VDC ACE ENABLE		
K1-1	TB1-25	AA	25	+28 VDC ACE ENABLE		
K1-2	S4-2	A	99	SERVO AMP TEST INPUT (OG)		
K1-3	S4-1	A	100	SERVO AMP TEST INPUT (OG)		
K1-3	E18	A	101	SERVO AMP TEST INPUT (OG)		
K1-5	TB1-26	AA	33	SERVO TEST COMMAND (LO)(OG)		
K1-5	J3-34	A	86	SERVO TEST COMMAND (LO)(OG)		
K1-8	K2-8	AA	34	SERVO AMP TEST INPUT		
K2				RELAY 1015832-118 FIGURE 22		
K2-1	TB1-21	AA	22	+28 VDC ACE ENABLE		
K2-1	TB1-23	AA	23	+28 VDC ACE ENABLE		
K2-2	S5-2	A	94	SERVO AMP TEST INPUT (MG)		
K2-3	S5-1	A	95	SERVO AMP TEST INPUT (MG)		
K2-3	E17	A	96	SERVO AMP TEST INPUT (MG)		
K2-5	TB1-24	AA	32	SERVO TEST COMMAND (LO)(MG)		
K2-5	J3-16	A	85	SERVO TEST COMMAND (LO)(MG)		

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) K2			RELAY 1015832-118 FIGURE 22		
K2-8	K1-8	AA 34	SERVO AMP TEST INPUT		
K2-8	A59-13	A 87	SERVO AMP TEST INPUT		
K3			RELAY 1015832-118 FIGURE 22		
K3-1	TB1-19	AA 20	+28 VDC ACE ENABLE		
K3-1	TB1-21	AA 21	+28 VDC ACE ENABLE		
K3-2	S6-2	A 89	SERVO AMP TEST INPUT (IG)		
K3-3	S6-1	A 90	SERVO AMP TEST INPUT (IG)		
K3-3	E16	A 91	SERVO AMP TEST INPUT (IG)		
K3-5	TB1-22	AA 41	SERVO TEST COMMAND (LO)(IG)		
K3-5	J3-32	A 84	SERVO TEST COMMAND (LO)(IG)		
K3-8	A59-20	A 88	SERVO AMP TEST INPUT (IG)		
K4			RELAY 1015832-118 FIGURE 22		
K4-1	TB1-17	AA 17	+28 VDC ACE ENABLE		
K4-1	TB1-19	AA 19	+28 VDC ACE ENABLE		
K4-3	J7-40	A 76	ACE BIAS 1		
K4-3	J6-40	A 77	ACE BIAS 1		
K4-4	J3-20	A 81	CONTROL 2 (ACE)		
K4-5	TB1-18	AA 29	R START CONTROL ENABLED (LG)		
K4-5	TB1-20	AA 30	R START CONTROL ENABLED (LG)		
K4-7	J7-21	A 74	ACE BIAS 2		
K4-7	J6-21	A 75	ACE BIAS 2		
K4-8	J3-39	A 83	CONTROL 1 (ACE)		

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K5			RELAY 1015832-118 FIGURE 22		
K5-1	K6-1	AA 15	+28 VDC ACE ENABLE		
K5-1	TB1-17	AA 16	+28 VDC ACE ENABLE		
K5-3	S3-2	A 73	INHIBIT POWER FAIL		
K5-5	K6-5	AA 27	R START CONTROL ENABLED (LG)		
K5-5	TB1-18	AA 28	R START CONTROL ENABLED (LG)		
K5-8	S1-3	A 554	28VDC IMU STANDBY (PSAAM PWR)		
K6			RELAY 1015832-118 FIGURE 22		
K6-1	TB1-15	AA 14	+28 VDC ACE ENABLE		
K6-1	K5-1	AA 15	+28 VDC ACE ENABLE		
K6-3	K6-7	AA 13	CVDC COMPUTER T.P.		
K6-4	J3-8	A 65	CVDC AGC DAC NO. 2		
K6-5	TB1-16	AA 26	R START CONTROL ENABLED (LG)		
K6-5	K5-5	AA 27	R START CONTROL ENABLED (LG)		
K6-7	K6-3	AA 13	CVDC COMPUTER T.P.		
K6-7	E12	A 67	CVDC COMPUTER T.P.		
K6-8	J3-22	A 66	CVDC AGC DAC NO.1		
K7			RELAY 1015832-118 FIGURE 22		
K7-1	TB1-13	AA 7	+28 VDC ACE ENABLE		
K7-1	TB1-15	AA 8	+28 VDC ACE ENABLE		
K7-2	K8-8	A 35	SELECTED PIPA OUTPUT		
K7-3	S2-1	A 37	3200 CPS BUFFERED HI		
K7-3	A59-2	A 38	3200 CPS BUFFERED HI		
K7-5	TB1-14	AA 12	PIPA REF COMMAND LO		
K7-8	S2-5	A 36	SELECTED PIPA OUTPUT		

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
K8			RELAY 1015832-118 FIGURE 22		
K8-1	TB1-11	AA 5	+28 VDC ACE ENABLE		
K8-1	TB1-13	AA 6	+28 VDC ACE ENABLE		
K8-2	K9-8	A 34	SELECTED PIPA OUTPUT		
K8-3	E4	A 19	X PIPA G/S OUTPUT (HI)		
K8-3	S2-2	A 20	X PIPA G/S OUTPUT (HI)		
K8-5	TB1-12	AA 11	X PIPA COMMAND LO		
K8-8	K7-2	A 35	SELECTED PIPA OUTPUT		
K9			RELAY 1015832-118 FIGURE 22		
K9-1	TB1-9	AA 3	+28 VDC ACE ENABLE		
K9-1	TB1-11	AA 4	+28 VDC ACE ENABLE		
K9-2	K10-8	A 33	Z PIPA COMMAND LO		
K9-3	E2	A 11	Y PIPA G/S OUTPUT (HI)		
K9-3	S2-3	A 12	Y PIPA G/S OUTPUT (HI)		
K9-5	TB1-10	AA 10	Y PIPA COMMAND LO		
K9-8	K8-2	A 34	SELECTED PIPA OUTPUT		
K10			RELAY 1015832-118 FIGURE 22		
K10-1	TB1-7	AA 1	+28 VDC ACE ENABLE		
K10-1	TB1-9	AA 2	+28 VDC ACE ENABLE		
K10-3	S2-4	A 15	Z PIPA G/S OUTPUT (HI)		
K10-3	E3	A 16	Z PIPA G/S OUTPUT (HI)		
K10-5	TB1-8	AA 9	Z PIPA COMMAND LO		
K10-8	K9-2	A 33	Z PIPA COMMAND LO		

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S1			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S1-2	F7-88	A 7	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	F8-88	A 54	28VDC IMU STANDBY (PSAAM PWR)		
S1-3	K5-8	A 554	28VDC IMU STANDBY (PSAAM PWR)		
S2			SWITCH-ROTARY 1017379-001 FIGURE 19		
S2-1	K7-3	A 37	3200 CPS BUFFERED HI		
S2-2	K8-3	A 20	X PIPA G/S OUTPUT (HI)		
S2-3	K9-3	A 12	Y PIPA G/S OUTPUT (HI)		
S2-4	K10-3	A 15	Z PIPA G/S OUTPUT (HI)		
S2-5	K7-8	A 36	SELECTED PIPA OUTPUT		
S2-C1	A22-1	A 45	3200 CPS BUFFERED HI		
S3			SWITCH-TOGGLE 1016265-004 FIGURE 18		
S3-1	E13	A 70	INHIBIT POWER FAIL		
S3-2	K5-3	A 73	INHIBIT POWER FAIL		
S4			SWITCH-TOGGLE 1016265-016 FIGURE 18		
S4-1	K1-3	A 100	SERVO AMP TEST INPUT (LG)		
S4-2	K1-2	A 99	SERVO AMP TEST INPUT (LG)		

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
S5			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S5-1	K2-3	A 95	SERVO AMP TEST INPUT (MG)		
S5-2	K2-2	A 94	SERVO AMP TEST INPUT (MG)		
S6			SWITCH-TOGGLE 1016265-006 FIGURE 18		
S6-1	K3-3	A 90	SERVO AMP TEST INPUT (IG)		
S6-2	K3-2	A 89	SERVO AMP TEST INPUT (IG)		
SHLD			SHIELD GROUND		
SHLD A55	E11-8	A 55A	STRUCTURE AND SHIELD GROUND		
SHLD A401	E51-8	A 401A	0 VDC OPTICS (SHIELD)		
SHLD A404	E51-8	A 404A	0 VDC OPTICS (SHIELD)		
SHLD A410	E51-8	A 410A	0 VDC OPTICS (SHIELD)		
SHLD A415	E51-8	A 415A	0 VDC OPTICS (SHIELD)		
SHLD A420	E51-8	A 420A	0 VDC OPTICS (SHIELD)		
SHLD A425	E51-8	A 425A	0 VDC OPTICS (SHIELD)		
T1			TRANSFORMER 1897413 FIGURE 23		
T1-1	J7-44	A 326	PITCH CDU ATT ERROR (HI)		
T1-1	J6-44	A 327	PITCH CDU ATT ERROR (HI)		
T1-2	J7-24	A 328	PITCH CDU ATT ERROR (LO)		
T1-2	J6-24	A 329	PITCH CDU ATT ERROR (LO)		
T1-3	A7-43	A 338	800 CPS DEMOD INPUT SIG (HI)		
T1-4	E24-BB	A 383	CDU TEST POINT + ERROR COM		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 67 OF 70

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
T2			TRANSFORMER 1897413 FIGURE 23		
T2-1	J7-11	A 330	YAW CDU ATT ERROR (HI)		
T2-1	J6-11	A 331	YAW CDU ATT ERROR (HI)		
T2-2	J7-10	A 332	YAW CDU ATT ERROR (LO)		
T2-2	J6-10	A 333	YAW CDU ATT ERROR (LO)		
T2-3	A6-43	A 339	800 CPS DEMOD INPUT SIG (HI)		
T2-4	E24-BB	A 384	CDU TEST POINT + ERROR COM		
T3			TRANSFORMER 1897413 FIGURE 23		
T3-1	J7-23	A 334	ROLL CDU ATT ERROR (HI)		
T3-1	J6-23	A 335	ROLL CDU ATT ERROR (HI)		
T3-2	J7-43	A 336	ROLL CDU ATT ERROR (LO)		
T3-2	J6-43	A 337	ROLL CDU ATT ERROR (LO)		
T3-3	A5-43	A 340	800 CPS DEMOD INPUT SIG (HI)		
T3-4	E24-BB	A 385	CDU TEST POINT + ERROR COM		
TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-1	J6-8	A 486	CGC TEMPERATURE MON (HI)		
TB1-1	J7-8	A 487	CGC TEMPERATURE MON (HI)		
TB1-2	J2-17	A 488	CGC TEMPERATURE (HI)		
TB1-3	J6-54	A 492	PIPA CAL MOD TEMP (HI)		
TB1-3	J7-54	A 493	PIPA CAL MOD TEMP (HI)		
TB1-4	J2-16	A 494	PIPA CAL MOD TEMP (HI)		
TB1-5	J6-56	A 498	PSA TEMPERATURE (HI)		
TB1-5	J7-56	A 499	PSA TEMPERATURE (HI)		
TB1-6	J2-15	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
TB1-7	K10-1	AA 1	+28 VDC ACE ENABLE		
TB1-7	J3-5	A 40	+28 VDC ACE ENABLE		
TB1-8	K10-5	AA 9	Z PIPA COMMAND LO		
TB1-8	J3-30	A 41	Z PIPA COMMAND LO		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 68 OF 70

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) TB1			ELECTRONIC COMPONENT ASSY 2901247 FIGURE 24		
TB1-9	K10-1	AA 2	+28 VDC ACE ENABLE		
TB1-9	K9-1	AA 3	+28 VDC ACE ENABLE		
TB1-10	K9-5	AA 10	Y PIPA COMMAND LO		
TB1-10	J3-14	A 42	Y PIPA COMMAND LO		
TB1-11	K9-1	AA 4	+28 VDC ACE ENABLE		
TB1-11	K8-1	AA 5	+28 VDC ACE ENABLE		
TB1-12	K8-5	AA 11	X PIPA COMMAND LO		
TB1-12	J3-28	A 43	X PIPA COMMAND LO		
TB1-13	K8-1	AA 6	+28 VDC ACE ENABLE		
TB1-13	K7-1	AA 7	+28 VDC ACE ENABLE		
TB1-14	K7-5	AA 12	PIPA REF COMMAND LO		
TB1-14	J3-6	A 44	PIPA REF COMMAND LO		
TB1-15	K7-1	AA 8	+28 VDC ACE ENABLE		
TB1-15	K6-1	AA 14	+28 VDC ACE ENABLE		
TB1-16	K6-5	AA 26	R START CONTROL ENABLED (LO)		
TB1-16	J3-18	A 80	R START CONTROL ENABLED (LO)		
TB1-17	K5-1	AA 16	+28 VDC ACE ENABLE		
TB1-17	K4-1	AA 17	+28 VDC ACE ENABLE		
TB1-18	K5-5	AA 28	R START CONTROL ENABLED (LO)		
TB1-18	K4-5	AA 29	R START CONTROL ENABLED (LO)		
TB1-19	K4-1	AA 19	+28 VDC ACE ENABLE		
TB1-19	K3-1	AA 20	+28 VDC ACE ENABLE		
TB1-20	K4-5	AA 30	R START CONTROL ENABLED (LO)		
TB1-21	K3-1	AA 21	+28 VDC ACE ENABLE		
TB1-21	K2-1	AA 22	+28 VDC ACE ENABLE		
TB1-22	K3-5	AA 31	SERVO TEST COMMAND (LO)(IG)		
TB1-23	K2-1	AA 23	+28 VDC ACE ENABLE		
TB1-23	K1-1	AA 24	+28 VDC ACE ENABLE		
TB1-24	K2-5	AA 32	SERVO TEST COMMAND (LO)(MG)		
TB1-25	K1-1	AA 25	+28 VDC ACE ENABLE		
TB1-26	K1-5	AA 33	SERVO TEST COMMAND (LO)(OG)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 69 OF 70

RUNNING LIST ▼ 2901518 C

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
XF1			FUSE F02B250V1/2A (1897099-025) FIGURE 17	C	
XF1-1	E7-88	A 8	28 VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-57	A 1	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-58	A 2	28VDC IMU STANDBY (PSAAM PWR)		
XF1-2	J6-59	A 3	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 70 OF 70

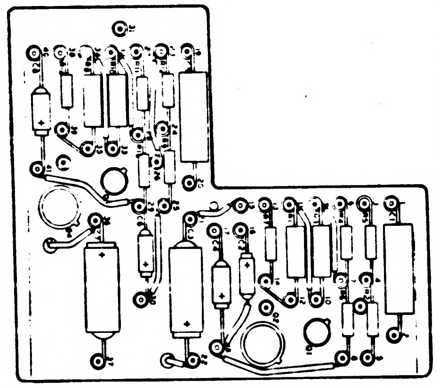


FIGURE 1
A3,4,20,21,22,23,27,32,37,45,46.
1902433-011 AC AMPLIFIER
1902451 SCHEMATIC

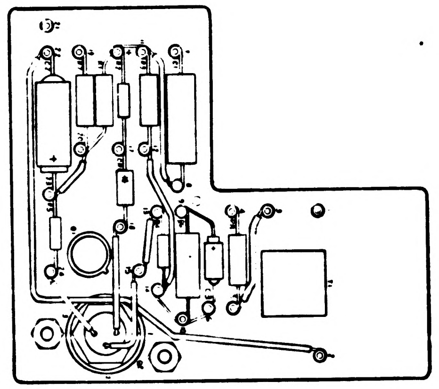


FIGURE 2 A60
1902434-011 LINE DRIVE AMPL.
1902448 SCHEMATIC

SIZE A
CODE IDENT. NO. 99974
2901518
SCALE NONE
REV LTR C
SHEET 3 of 70

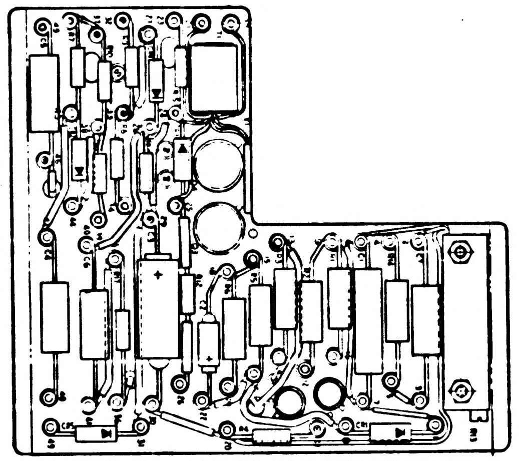


FIGURE 3 A47,48,49,50,51,52,53,54
2901154-011 GLITCH DETECTOR
2901155 SCHEMATIC

SIZE A
CODE IDENT. NO. 99974
2901518
SCALE NONE
REV LTR C
SHEET 4 of 70

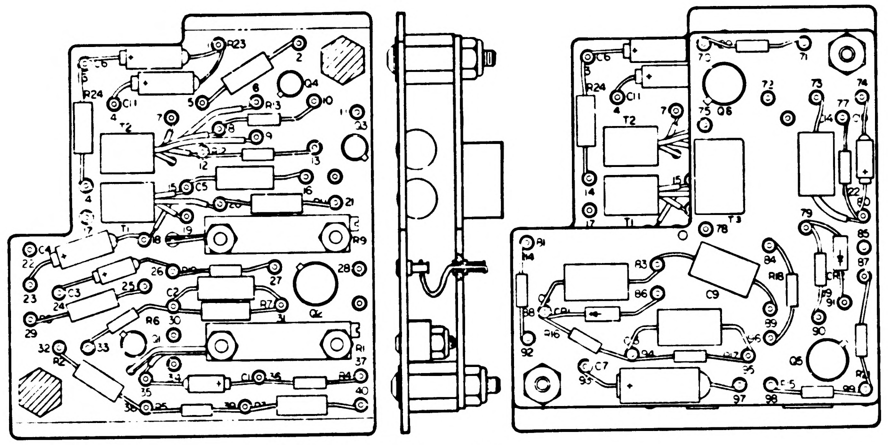
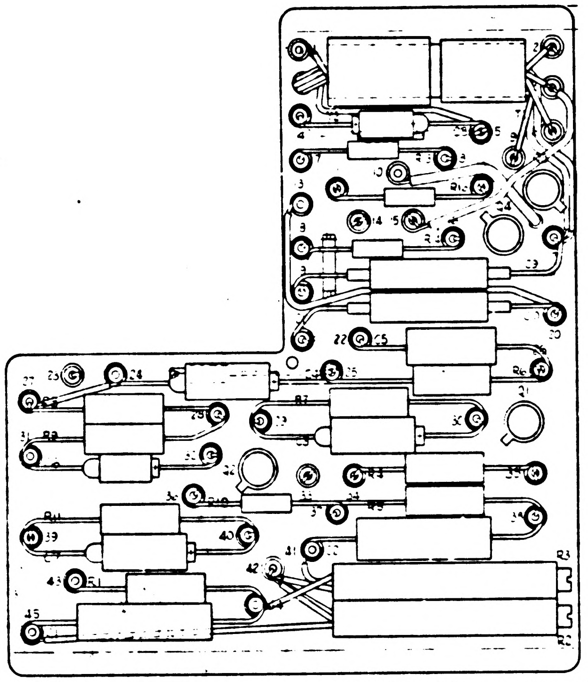


FIGURE 5 A2

2901063-011 PHASE DIFF CKT BD ASSY
2900988 SCHEMATIC

SIZE A
CODE IDENT. NO. 99974
2901518
SCALE NONE
REV LTR C
SHEET 5 of 70



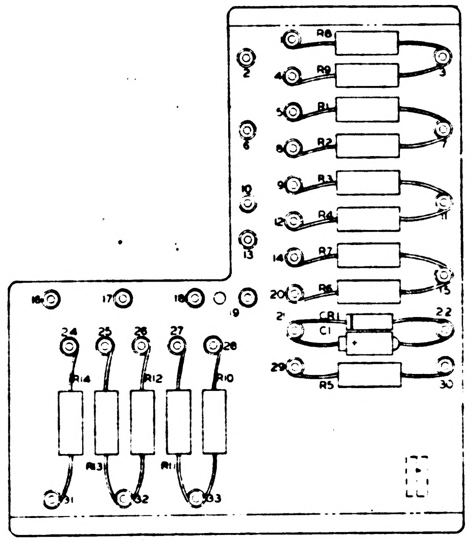


FIG 7 A59
2901168-011 ATTENUATOR ASSEMBLY
2901215 SCHEMATIC

FIG 6 A5,6,7,8,9,29,30,31,38,39,40,41,42
2901176-011 DEMODULATOR PHASE SENSITIVE
2901227 SCHEMATIC
A15,16,17,24,25,26
2901176-021 DEMODULATOR PHASE SENSITIVE
2901228 SCHEMATIC

SIZE A
CODE IDENT. NO. 99974
2901518
SCALE NONE
REV LTR C
SHEET 6 of 70

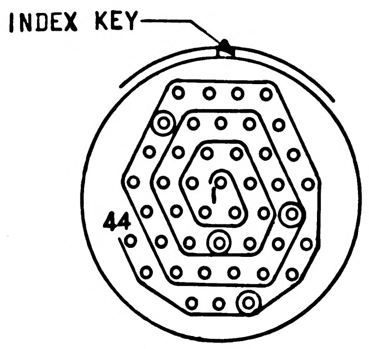

INDEX KEY
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FIGURE 10
J3
1897252-109

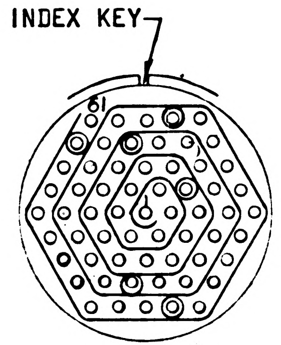
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FIGURE 12
J5, J6
1897252-107-106

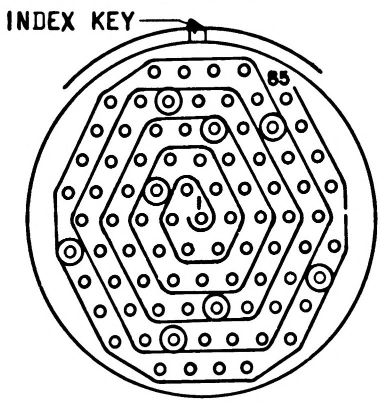
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FIGURE 11
J1, J2
1897247-002-003

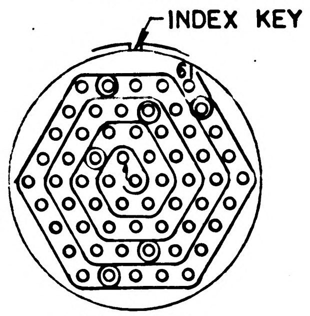
INDEX KEY
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FIGURE 8
J7, J8
1897247-006-007

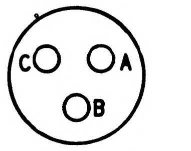


FIGURE 9
J4
MS3102R14S-7S(C) (1896916-107)

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 7 of 70

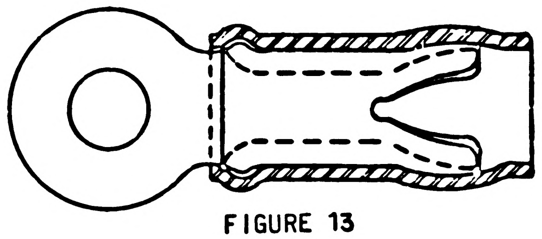


FIGURE 13
E1
1015902-45

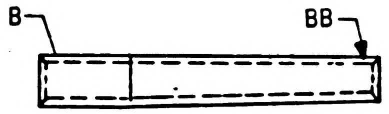


FIGURE 14
E5,7,8,11,14,15,26,31,32,34,35,36,37,42,44,51
1016006-001

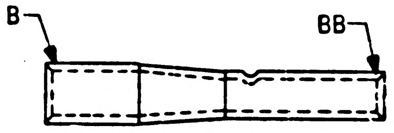


FIGURE 15
E24
1016006-002

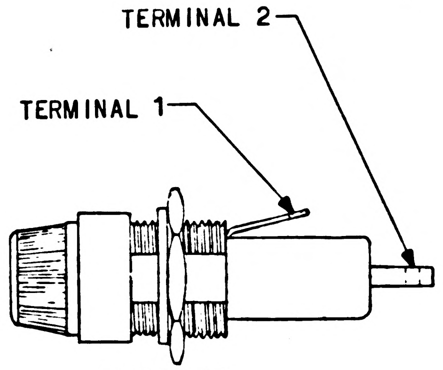

TERMINAL 2
TERMINAL 1

FIGURE 17
XF1
MS26572-1
F1
1897099-025

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 8 of 70

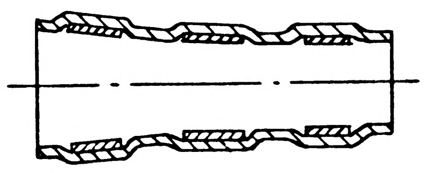
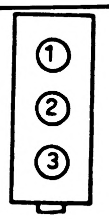


FIGURE 16
E2,3,4,6,9,10,12,13,16,17,18,19,20,21,22,23,
25,27,28,29,30,33,38,39,40,41, ,43,45,46,
47,48,49,50,52,53,54,55,56,58,60,62,63

1010763-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 9 of 70



TERMINAL NUMBERS

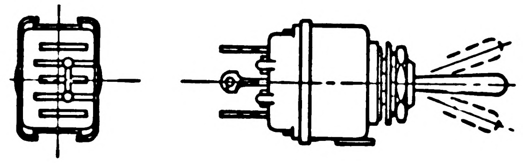
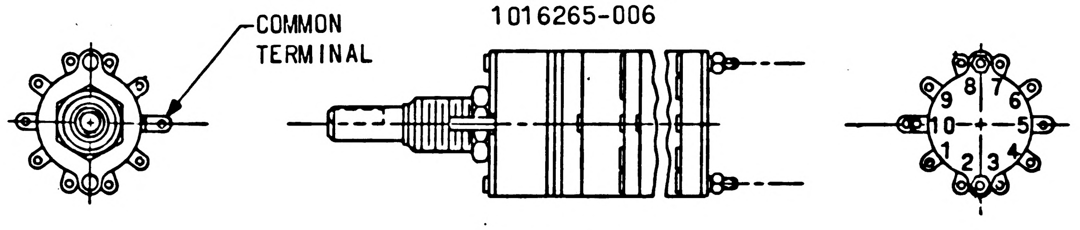


FIGURE 18
S1 & S3
1016265-004
S4, S5, & S6
1016265-006


COMMON TERMINAL
8
7
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3

FIGURE 19
S2
1897379-001

SIZE	CODE IDENT. NO.	
A	99974	2901518
SCALE NONE	REV LTR C	SHEET 10 of 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A2			PHASE DIFF CKT BD ASSY 2901063-011 FIGURE 5		
A2-3	J1-32	A 63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
A2-14	J1-15	A 64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
A2-17	E5-8	A 47	PIPA G/S OUTPUT (LO)		
A2-22	A59-2	A 39	3200 CPS BUFFERED HI		
A2-22	A20-19	A 302	3200 CPS BUFFERED HI		
A2-75	E9	A 55R	3.2 KPPS PH A (HI)		
A2-78	E10	A 55L	3.2 KPPS PH A (LO)		
A2-81	E8-8	A 541	28VDC IMU STANDBY (PSAAM PWR)		
A2-81	A47-23	A 542	28VDC IMU STANDBY (PSAAM PWR)		
A3			AC AMPLIFIER 1902433-011 FIGURE 1		
A3-1	J7-4	A 377	OG COURSE ERROR		
A3-1	J6-4	A 378	OG COURSE ERROR		
A3-9	A3-15		CDU TEST POINT + ERROR COM		
A3-9	E24-8	A 394	CDU TEST POINT + ERROR COM		
A3-13	A3-38	AA 37	28VDC IMU STANDBY (PSAAM PWR)		
A3-13	A46-38	A 508	28VDC IMU STANDBY (PSAAM PWR)		
A3-15	A3-9		CDU TEST POINT + ERROR COM		
A3-15	J2-46	A 362	CDU TEST POINT + ERROR COM		
A3-17	J2-70	A 361	OG CDU COARSE ERROR (HI)		
A3-19	J7-15	A 375	OG FINE ERROR		
A3-19	J6-15	A 376	OG FINE ERROR		
A3-31	A3-32		CDU TEST POINT + ERROR COM		
A3-31	E24-8	A 393	CDU TEST POINT + ERROR COM		
A3-32	A3-31		CDU TEST POINT + ERROR COM		
A3-32	J2-11	A 360	CDU TEST POINT + ERROR COM		
A3-38	A3-13	AA 37	28VDC IMU STANDBY (PSAAM PWR)		
A3-38	A4-13	A 509	28VDC IMU STANDBY (PSAAM PWR)		
A3-40	J2-25	A 359	OG CDU FINE ERROR (HI)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 15 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A4			AC AMPLIFIER 1902433-011 FIGURE 1		
A4-1	J7-12	A 381	SHAFT FINE ERROR		
A4-1	J6-12	A 382	SHAFT FINE ERROR		
A4-9	A4-15		CDU TEST POINT + ERROR COM		
A4-9	E24-8	A 396	CDU TEST POINT + ERROR COM		
A4-13	A4-38	AA 38	28VDC IMU STANDBY (PSAAM PWR)		
A4-13	A3-38	A 509	28VDC IMU STANDBY (PSAAM PWR)		
A4-15	A4-9		CDU TEST POINT + ERROR COM		
A4-15	J2-72	A 366	CDU TEST POINT + ERROR COM		
A4-17	J2-71	A 365	SHAFT CDU FINE ERROR (HI)		
A4-19	J7-13	A 379	TRUNNION FINE ERROR		
A4-19	J6-13	A 380	TRUNNION FINE ERROR		
A4-31	A4-32		CDU TEST POINT + ERROR COM		
A4-31	E24-8	A 395	CDU TEST POINT + ERROR COM		
A4-32	A4-31		CDU TEST POINT + ERROR COM		
A4-32	J2-27	A 364	CDU TEST POINT + ERROR COM		
A4-38	A4-13	AA 38	28VDC IMU STANDBY (PSAAM PWR)		
A4-38	A5-23	A 510	28VDC IMU STANDBY (PSAAM PWR)		
A4-40	J2-47	A 363	TRUNNION CDU FINE ERROR (HI)		
A5			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A5-1	A6-1	A 344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A5-4	A6-4	A 342	800 CPS DEM REF (HI)		
A5-13	J1-29	A 350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
A5-21	J1-30	A 349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
A5-23	A4-38	A 510	28VDC IMU STANDBY (PSAAM PWR)		
A5-23	A6-23	A 511	28VDC IMU STANDBY (PSAAM PWR)		
A5-24	E24-8	A 388	CDU TEST POINT + ERROR COM		
A5-43	T3-3	A 340	800 CPS DEMOD INPUT SIG (HI)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 16 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A6			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A6-1	A7-1	A 343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-1	A5-1	A 344	800 CPS 28V 1 PERCENT IMU MON (LO)		
A6-4	A7-4	A 341	800 CPS DEM REF (HI)		
A6-4	A5-4	A 342	800 CPS DEM REF (HI)		
A6-13	J1-51	A 348	YAW ATT ERROR (CDU DAC OUT)(LO)		
A6-21	J1-52	A 347	YAW ATT ERROR (CDU DAC OUT)(HI)		
A6-23	A5-23	A 511	28VDC IMU STANDBY (PSAAM PWR)		
A6-23	A7-23	A 512	28VDC IMU STANDBY (PSAAM PWR)		
A6-24	E24-8	A 387	CDU TEST POINT + ERROR COM		
A6-43	T2-3	A 339	800 CPS DEMOD INPUT SIG (HI)		
A7			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A7-1	A9-1	A 258	800 CPS 28V 1 PERCENT IMU MCN (LO)		
A7-1	A6-1	A 343	800 CPS 28V 1 PERCENT IMU MON (LO)		
A7-4	A9-4	A 257	800 CPS DEM REF (HI)		
A7-4	A6-4	A 341	800 CPS DEM REF (HI)		
A7-13	J1-76	A 346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
A7-21	J1-77	A 345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
A7-23	A6-23	A 512	28VDC IMU STANDBY (PSAAM PWR)		
A7-23	A8-23	A 513	28VDC IMU STANDBY (PSAAM PWR)		
A7-24	E24-8	A 386	CDU TEST POINT + ERROR COM		
A7-43	T1-3	A 338	800 CPS DEMOD INPUT SIG (HI)		
A8			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-1	A11-28	A 240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-4	A11-31	A 239	800 CPS DEMOD REF (HI)		
A8-13	J1-54	A 254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
A8-21	J1-78	A 253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		
A8-23	A7-23	A 513	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 17 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A8			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A8-23	A9-23	A 514	28VDC IMU STANDBY (PSAAM PWR)		
A8-24	A22-31	A 234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A8-43	A22-40	A 232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A9			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A9-1	A11-15	A 256	800 CPS 28V 1 PERCENT IMU MCN (LO)		
A9-1	A7-1	A 258	800 CPS 28V 1 PERCENT IMU MCN (LO)		
A9-4	A11-18	A 255	800 CPS DEM REF (HI)		
A9-4	A7-4	A 257	800 CPS DEM REF (HI)		
A9-13	J1-53	A 252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
A9-21	J1-31	A 251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
A9-23	A8-23	A 514	28VDC IMU STANDBY (PSAAM PWR)		
A9-23	A11-25	A 515	28VDC IMU STANDBY (PSAAM PWR)		
A9-24	A44-16	A 242	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A9-43	A44-14	A 241	800 CPS DEMOD INPUT SIG (HI)		
A11			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-1	A59-16	A 228	BUFFERED 800 CPS-IMU MON (HI)		
A11-6	A11-15		800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-6	J5-60	A 229	800 CPS 28V 1 PERCENT IMU MCN (LO)		
A11-6	J8-60	A 230	800 CPS 28V 1 PERCENT IMU MCN (LO)		
A11-10	A11-25	AA 39	28VDC IMU STANDBY (PSAAM PWR)		
A11-15	A11-6		800 CPS 28V 1 PERCENT IMU MCN (LO)		
A11-15	A9-1	A 256	800 CPS 28V 1 PERCENT IMU MON (LO)		
A11-18	A9-4	A 255	800 CPS DEM REF (HI)		
A11-22	A11-28		800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-22	A21-15	A 238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-25	A11-10	AA 39	28VDC IMU STANDBY (PSAAM PWR)		
A11-25	A9-23	A 515	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 18 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A11			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A11-28	A11-22		800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-28	A8-1	A 240	800 CPS 28V 5 PERCENT (PH A+B COM)		
A11-31	A8-4	A 239	800 CPS DEMOD REF (HI)		
A11-33	A21-17	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A15			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A15-1	A19-28	A 266	PIPA G/S OUTPUT (LO)		
A15-1	A16-1	A 306	PIPA G/S OUTPUT (LO)		
A15-4	A19-31	A 265	3200 CPS DEMOD REF (HI)		
A15-4	A16-4	A 304	3200 CPS DEMOD REF (HI)		
A15-13	J1-40	A 274	IG SERVO ERROR, QUAD (LO)		
A15-21	J1-65	A 273	IG SERVO ERROR, QUAD (HI)		
A15-23	E8-8	A 516	28VDC IMU STANDBY (PSAAM PWR)		
A15-23	A16-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A15-24	E36-B	A 295	0VDC IMU		
A15-43	A23-17	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A16			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A16-1	A15-1	A 306	PIPA G/S OUTPUT (LO)		
A16-1	A17-1	A 307	PIPA G/S OUTPUT (LO)		
A16-4	A15-4	A 304	3200 CPS DEMOD REF (HI)		
A16-4	A17-4	A 305	3200 CPS DEMOD REF (HI)		
A16-13	J1-22	A 309	MG SERVO ERROR, QUAD (LO)		
A16-21	J1-41	A 308	MG SERVO ERROR, QUAD (HI)		
A16-23	A15-23	A 517	28VDC IMU STANDBY (PSAAM PWR)		
A16-23	A17-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A16-24	E36-B	A 296	0VDC IMU		
A16-43	A23-40	A 280	BUFFERED MG IRIG ERROR (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A17			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A17-1	A16-1	A 307	PIPA G/S OUTPUT (LO)		
A17-4	A16-4	A 305	3200 CPS DEMOD REF (HI)		
A17-13	J1-9	A 311	OG SERVO ERROR, QUAD (LO)		
A17-21	J1-21	A 310	OG SERVO ERROR, QUAD (HI)		
A17-23	A16-23	A 518	28VDC IMU STANDBY (PSAAM PWR)		
A17-23	A19-25	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A17-24	E36-B	A 297	0VDC IMU		
A17-43	A27-17	A 303	3200 CPS DEMOD INPUT (HI)		
A19			CONVERTER WAVE FORM 2901203-011 FIGURE 21		
A19-1	A20-40	A 281	3200 CPS BUFFERED (HI)		
A19-6	A19-15		PIPA G/S OUTPUT (LC)		
A19-6	A19-22	AA 47	PIPA G/S OUTPUT (LO)		
A19-6	A20-32	A 283	PIPA G/S OUTPUT (LO)		
A19-10	A19-25	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-10	A20-38	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A19-15	A19-6		PIPA G/S OUTPUT (LO)		
A19-15	A24-1	A 260	PIPA G/S OUTPUT (LO)		
A19-18	A24-4	A 259	3200 CPS DEMOD REF (HI)		
A19-22	A19-28		PIPA G/S OUTPUT (LO)		
A19-22	A19-6	AA 47	PIPA G/S OUTPUT (LO)		
A19-25	A19-10	AA 40	28VDC IMU STANDBY (PSAAM PWR)		
A19-25	A17-23	A 519	28VDC IMU STANDBY (PSAAM PWR)		
A19-28	A19-22		PIPA G/S OUTPUT (LO)		
A19-28	A15-1	A 266	PIPA G/S OUTPUT (LO)		
A19-31	A15-4	A 265	3200 CPS DEMOD REF (HI)		
A19-33	A44-4	A 285	90 DEG. BUFFERED 3200 CPS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A20			AC AMPLIFIER 1902433-011 FIGURE 1		
A20-1	A59-17	A 225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A20-9	A20-15		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-9	E35-B	A 222	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-13	A20-38	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-13	A21-38	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A20-15	A20-9		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A20-15	J2-31	A 250	800V CPS 28V 1 PERCENT-OPT MGN (LO)		
A20-17	J2-52	A 249	OPTICS 28V 800 CPS 5 PERCENT-90 RMS (HI)		
A20-19	A2-22	A 302	3200 CPS BUFFERED HI		
A20-31	A20-32		PIPA G/S OUTPUT (LO)		
A20-31	A22-9	A 46	PIPA G/S OUTPUT (LO)		
A20-31	A44-20	A 284	PIPA G/S OUTPUT (LO)		
A20-32	A20-31		PIPA G/S OUTPUT (LO)		
A20-32	A19-6	A 283	PIPA G/S OUTPUT (LO)		
A20-38	A20-13	AA 41	28VDC IMU STANDBY (PSAAM PWR)		
A20-38	A19-10	A 520	28VDC IMU STANDBY (PSAAM PWR)		
A20-40	A19-1	A 281	3200 CPS BUFFERED (HI)		
A20-40	A44-2	A 282	3200 CPS BUFFERED (HI)		
A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-1	A59-10	A 212	BUFFERED 800 CPS PH A IMU MON HI		
A21-9	A21-15		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-9	A59-12	A 213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-13	A21-38	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-13	A22-38	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A21-15	A21-9		800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	J2-32	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-15	A11-22	A 238	800 CPS 28V 5 PERCENT (PH A+B COM)		
A21-17	J2-55	A 235	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-17	A11-33	A 236	IMU 28V 800 CPS 5 PERCENT 0 DEG RMS (HI)		
A21-19	A59-18	A 216	BUFFERED 800 CPS OPT MCN HI		
A21-31	A21-32		800V CPS 28V 1 PERCENT-OPT MON (LO)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A21			AC AMPLIFIER 1902433-011 FIGURE 1		
A21-31	E35-B	A 221	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-31	A33-6	A 247	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	A21-31		800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-32	J2-53	A 246	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A21-38	A21-13	AA 42	28VDC IMU STANDBY (PSAAM PWR)		
A21-38	A20-13	A 521	28VDC IMU STANDBY (PSAAM PWR)		
A21-40	J2-78	A 243	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A21-40	A33-1	A 244	OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)		
A22			AC AMPLIFIER 1902433-011 FIGURE 1		
A22-1	S2-C1	A 45	3200 CPS BUFFERED HI		
A22-9	A22-15		PIPA G/S OUTPUT (LO)		
A22-9	A20-31	A 46	PIPA G/S OUTPUT (LO)		
A22-13	A22-38	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-13	A23-38	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A22-15	A22-9		PIPA G/S OUTPUT (LO)		
A22-15	A60-21	A 48	PIPA G/S OUTPUT (LO)		
A22-15	A59-4	A 49	PIPA G/S OUTPUT (LO)		
A22-17	A60-7	A 50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A22-19	A59-6	A 203	BUFFERED 800 CPS PH B IMU MON HI		
A22-31	A22-32		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A59-8	A 211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-31	A8-24	A 234	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	A22-31		800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-32	J2-80	A 233	800 CPS 28V 5 PERCENT (PH A+B COM)		
A22-38	A22-13	AA 43	28VDC IMU STANDBY (PSAAM PWR)		
A22-38	A21-13	A 522	28VDC IMU STANDBY (PSAAM PWR)		
A22-40	J2-81	A 231	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		
A22-40	A8-43	A 232	IMU 28V 800 CPS 5 PERCENT-90 DEG RMS (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A23			AC AMPLIFIER 1902433-011 FIGURE 1		
A23-1	J8-33	A 288	IG+Y IRIG ERROR, BUFFERED		
A23-1	J5-33	A 289	IG+Y IRIG ERROR, BUFFERED		
A23-9	A23-15		0VDC IMU		
A23-9	E36-8	A 292	0VDC IMU		
A23-13	A23-38	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-13	A24-23	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A23-15	A23-9		0VDC IMU		
A23-15	A26-24	A 276	0VDC IMU		
A23-17	A26-43	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A23-17	A15-43	A 277	BUFFERED IG+Y IRIG ERROR (HI)		
A23-19	J8-54	A 300	MG IRIG ERROR, BUFFERED		
A23-19	J5-54	A 301	MG IRIG ERROR, BUFFERED		
A23-31	A23-32		0VDC IMU		
A23-31	E36-8	A 293	0VDC IMU		
A23-32	A23-31		0VDC IMU		
A23-32	A25-24	A 278	0VDC IMU		
A23-38	A23-13	AA 44	28VDC IMU STANDBY (PSAAM PWR)		
A23-38	A22-13	A 523	28VDC IMU STANDBY (PSAAM PWR)		
A23-40	A25-43	A 279	BUFFERED MG IRIG ERROR (HI)		
A23-40	A16-43	A 280	BUFFERED MG IRIG ERROR (HI)		
A24			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A24-1	A19-15	A 260	PIPA G/S OUTPUT (LO)		
A24-1	A25-1	A 263	PIPA G/S OUTPUT (LO)		
A24-4	A19-18	A 259	3200 CPS DEMOD REF (HI)		
A24-4	A25-4	A 261	3200 CPS DEMOD REF (HI)		
A24-13	J1-71	A 272	OG SERVO ERROR IN PH (LO)		
A24-21	J1-70	A 271	OG SERVO ERROR IN PH (HI)		
A24-23	A23-13	A 524	28VDC IMU STANDBY (PSAAM PWR)		
A24-23	A25-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A24-24	E36-8	A 286	0VDC IMU		
A24-43	A27-17	A 287	3200 CPS DEMOD INPUT (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
A25			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A25-1	A24-1	A 263	PIPA G/S OUTPUT (LO)		
A25-1	A26-1	A 264	PIPA G/S OUTPUT (LO)		
A25-4	A24-4	A 261	3200 CPS DEMOD REF (HI)		
A25-4	A26-4	A 262	3200 CPS DEMOD REF (HI)		
A25-13	J1-45	A 270	MG SERVO ERROR IN PH (LO)		
A25-21	J1-25	A 269	MG SERVO ERROR IN PH (HI)		
A25-23	A24-23	A 525	28VDC IMU STANDBY (PSAAM PWR)		
A25-23	A26-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A25-24	A23-32	A 278	0VDC IMU		
A25-43	A23-40	A 279	BUFFERED MG IRIG ERROR (HI)		
A26			DEMODULATOR PHASE SENSITIVE 2901176-021 FIGURE 6		
A26-1	A25-1	A 264	PIPA G/S OUTPUT (LO)		
A26-4	A25-4	A 262	3200 CPS DEMOD REF (HI)		
A26-13	J1-46	A 268	IG SERVO ERROR IN PH (LO)		
A26-21	J1-26	A 267	IG SERVO ERROR IN PH (HI)		
A26-23	A25-23	A 526	28VDC IMU STANDBY (PSAAM PWR)		
A26-23	A27-13	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A26-24	A23-15	A 276	0VDC IMU		
A26-43	A23-17	A 275	BUFFERED IG+Y IRIG ERROR (HI)		
A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-1	J8-32	A 298	OG IRIG ERROR, BUFFERED		
A27-1	J5-32	A 299	OG IRIG ERROR, BUFFERED		
A27-9	E36-8	A 294	0VDC IMU		
A27-13	A27-38	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-13	A26-23	A 527	28VDC IMU STANDBY (PSAAM PWR)		
A27-17	A24-43	A 287	3200 CPS DEMOD INPUT (HI)		
A27-17	A17-43	A 303	3200 CPS DEMOD INPUT (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A27			AC AMPLIFIER 1902433-011 FIGURE 1		
A27-19	E45	A 410L	SXT SHAFT MDA TACH MON HI		
A27-31	A27-32		SXT SHAFT TACH (LO)		
A27-31	E42-8	A 410R	SXT SHAFT TACH (LO)		
A27-32	A27-31		SXT SHAFT TACH (LO)		
A27-32	A31-24	A 469	SXT SHAFT TACH (LO)		
A27-38	A27-13	AA 45	28VDC IMU STANDBY (PSAAM PWR)		
A27-40	A31-43	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A29			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A29-1	A33-15	A 456	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-1	A30-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A29-4	A33-18	A 448	PSD REF HI		
A29-4	A30-4	A 449	PSD REF HI		
A29-13	J1-50	A 445	SCT SHAFT TACH OUT (LO)		
A29-21	J1-75	A 444	SCT SHAFT TACH OUT (HI)		
A29-23	E8-8	A 528	28VDC IMU STANDBY (PSAAM PWR)		
A29-23	A30-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A29-24	A32-32	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		
A29-43	A32-40	A 472	BUFFERED SCT SHAFT MDA MON (HI)		
A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-1	A29-1	A 457	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-1	A31-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A30-4	A29-4	A 449	PSD REF HI		
A30-4	A31-4	A 450	PSD REF HI		
A30-13	J1-13	A 443	SXT TRUNNION TACH OUT (LO)		
A30-21	J1-12	A 442	SXT TRUNNION TACH OUT (HI)		
A30-23	A29-23	A 529	28VDC IMU STANDBY (PSAAM PWR)		
A30-23	A31-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A30			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A30-24	A32-15	A 471	SXT TRUNNION TACH (LO)		
A30-43	A32-17	A 470	800 CPS DEMOG SIG INPUT (HI)		
A31			DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6		
A31-1	A30-1	A 458	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-1	A38-1	A 459	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A31-4	A30-4	A 450	PSD REF HI		
A31-4	A38-4	A 451	PSD REF HI		
A31-13	J1-14	A 441	SXT SHAFT TACH OUT (LO)		
A31-21	J1-5	A 440	SXT SHAFT TACH OUT (HI)		
A31-23	A30-23	A 530	28VDC IMU STANDBY (PSAAM PWR)		
A31-23	A32-38	A 531	28VDC IMU STANDBY (PSAAM PWR)		
A31-24	A27-32	A 469	SXT SHAFT TACH (LO)		
A31-43	A27-40	A 468	BUFFERED SXT SHAFT MDA TACH MON (HI)		
A32			AC AMPLIFIER 1902433-011 FIGURE 1		
A32-1	E46	A 415R	SXT TRUNNION MDA TACH MON HI		
A32-9	A32-15		SXT TRUNNION TACH (LO)		
A32-9	E44-8	A 415L	SXT TRUNNION TACH (LO)		
A32-13	A32-38	AA 46	28VDC IMU STANDBY (PSAAM PWR)		
A32-13	A33-10	A 532	28VDC IMU STANDBY (PSAAM PWR)		
A32-15	A32-9		SXT TRUNNION TACH (LO)		
A32-15	A30-24	A 471	SXT TRUNNION TACH (LO)		
A32-17	A30-43	A 470	800 CPS DEMOG SIG INPUT (HI)		
A32-19	E47	A 420R	SCT SHAFT MDA TACH MON (HI)		
A32-31	A32-32		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-31	E48	A 420L	SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A32-31		SCT SHAFT MDA TACH FEEDBACK (LO)		
A32-32	A29-24	A 473	SCT SHAFT MDA TACH FEEDBACK (LO)		

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                              RUNNING LIST                         2901518      C

  FROM        TO        LEAD NO  C I R C U I T   F U N C T I O N       PEN NOTE  NET. NO.

(CONT.) A32             AC AMPLIFIER 1902433-011 FIGURE 1

A32-38      A32-13      AA  46  28VDC IMU STANDBY (PSAAM PWR)
A32-38      A31-23      A  531  28VDC IMU STANDBY (PSAAM PWR)
A32-40      A29-43      A  472  BUFFERED SCT SHAFT MDA MON (HI)


        A33             CONVERTER WAVE FORM 2901203-011 FIGURE 21

A33-1       A2I-40      A  244  OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)
A33-1       A44-17      A  245  OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)
A33-6       A33-15              800V CPS 28V 1 PERCENT-OPT MON (LO)
A33-6       A21-31      A  247  800V CPS 28V 1 PERCENT-OPT MON (LO)
A33-6       A44-16      A  248  800V CPS 28V 1 PERCENT-OPT MON (LO)
A33-10      A32-13      A  532  28VDC IMU STANDBY (PSAAM PWR)
A33-10      A37-13      A  533  28VDC IMU STANDBY (PSAAM PWR)
A33-15      A33-6               800V CPS 28V 1 PERCENT-OPT MON (LO)
A33-15      A29-1       A  456  800V CPS 28V 1 PERCENT-OPT MON (LO)
A33-18      A29-4       A  448  PSD REF HI


        A37             AC AMPLIFIER 1902433-011 FIGURE 1

A37-1       E49         A  425R SCT TRUNNION MDA TACH MON (HI)
A37-9       A37-15              SCT TRUNNION MDA TACH FEEDBACK (LO)
A37-9       E50         A  425L SCT TRUNNION MDA TACH FEEDBACK (LO)
A37-13      A33-10      A  533  28VDC IMU STANDBY (PSAAM PWR)
A37-13      A38-23      A  534  28VDC IMU STANDBY (PSAAM PWR)
A37-15      A37-9               SCT TRUNNION MDA TACH FEEDBACK (LO)
A37-15      A38-24      A  475  SCT TRUNNION MDA TACH FEEDBACK (LO)
A37-17      A38-43      A  474  800 CPS DEMOD INPUT SIGNAL (HI)

                                       SIZE  CODE IDENT
                                               NO.
                                        A     99974              2901518

                                       SCALE-NONE  REV LTR      C      SHEET  27 OF  7C
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                              RUNNING LIST                         2901518      C

  FROM        TO        LEAD NO  C I R C U I T   F U N C T I O N       PEN NOTE  NET. NO.

        A38             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A38-1       A31-1       A  459  800V CPS 28V 1 PERCENT-OPT MON (LO)
A38-1       A39-1       A  460  800V CPS 28V 1 PERCENT-OPT MON (LO)
A38-4       A31-4       A  451  PSD REF HI
A38-4       A39-4       A  452  PSD REF HI
A38-13      J1-49       A  447  SCT TRUNNION TACH OUT (LO)
A38-21      J1-74       A  446  SCT TRUNNION TACH OUT (HI)
A38-23      A37-13      A  534  28VDC IMU STANDBY (PSAAM PWR)
A38-23      A39-23      A  535  28VDC IMU STANDBY (PSAAM PWR)
A38-24      A37-15      A  475  SCT TRUNNION MDA TACH FEEDBACK (LO)
A38-43      A37-17      A  474  800 CPS DEMOD INPUT SIGNAL (HI)


        A39             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A39-1       A38-1       A  460  800V CPS 28V 1 PERCENT-OPT MON (LO)
A39-1       A40-1       A  461  800V CPS 28V 1 PERCENT-OPT MON (LO)
A39-4       A38-4       A  452  PSD REF HI
A39-4       A40-4       A  453  PSD REF HI
A39-13      J1-10       A  398  SXT SHAFT SERVO ERROR IN PH (LO)
A39-21      J1-2        A  397  SXT SHAFT SERVO ERROR IN PH (HI)
A39-23      A38-23      A  535  28VDC IMU STANDBY (PSAAM PWR)
A39-23      A40-23      A  536  28VDC IMU STANDBY (PSAAM PWR)
A39-24      E42-B       A  408  SXT SHAFT TACH (LO)
A39-43      E41         A  401R SXT SHAFT MDA P/A MON (HI)


        A40             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A40-1       A39-1       A  461  800V CPS 28V 1 PERCENT-OPT MON (LO)
A40-1       A41-1       A  462  800V CPS 28V 1 PERCENT-OPT MON (LO)
A40-4       A39-4       A  453  PSD REF HI
A40-4       A41-4       A  454  PSD REF HI
A40-13      J1-4        A  439  SXT TRUNNION SERVO ERRCR IN PH (LO)

                                       SIZE  CODE IDENT
                                               NO.
                                        A     99974              2901518

                                       SCALE-NONE  REV LTR      C      SHEET  28 OF  7C
MIL 2084 9-65
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                              RUNNING LIST                         2901518      C

  FROM        TO        LEAD NO  C I R C U I T   F U N C T I O N       PEN NOTE  NET. NO.

(CONT.) A40             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A40-21      J1-1        A  438  SXT TRUNNION SERVC ERRCR IN PH (HI)
A40-23      A39-23      A  536  28VDC IMU STANDBY (PSAAM PWR)
A40-23      A41-23      A  537  28VDC IMU STANDBY (PSAAM PWR)
A40-24      E44-B       A  413  SXT TRUNNION TACH (LO)
A40-43      E43         A  404R SXT TRUNNION MDA P/A MCN (HI)


        A41             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A41-1       A40-1       A  462  800V CPS 28V 1 PERCENT-OPT MCN (LO)
A41-1       A42-1       A  463  800V CPS 28V 1 PERCENT-OPT MON (LO)
A41-4       A40-4       A  454  PSD REF HI
A41-4       A42-4       A  455  PSD REF HI
A41-13      J1-11       A  465  SXT SHAFT MOTOR CONTROL WINDING (LO)
A41-21      J1-3        A  464  SXT SHAFT MOTOR CONTROL WINDING (HI)
A41-23      A40-23      A  537  28VDC IMU STANDBY (PSAAM PWR)
A41-23      A42-23      A  538  28VDC IMU STANDBY (PSAAM PWR)
A41-24      E42-B       A  409  SXT SHAFT TACH (LO)
A41-43      E52         A  432  SXT SHAFT MDA O/P MON PH 1 (HI)


        A42             DEMODULATOR PHASE SENSITIVE 2901176-011 FIGURE 6

A42-1       A41-1       A  463  800V CPS 28V 1 PERCENT-OPT MCN (LO)
A42-4       A41-4       A  455  PSD REF HI
A42-13      J1-27       A  467  SXT TRUNNION MOTOR CCNTROL WINDING (LO)
A42-21      J1-28       A  466  SXT TRUNNION MOTOR CONTROL WINDING (HI)
A42-23      A41-23      A  538  28VDC IMU STANDBY (PSAAM PWR)
A42-24      E44-B       A  414  SXT TRUNNION TACH (LO)
A42-43      E53         A  437  SXT TRUNNION MDA O/P MCN PH 1 (HI)

                                       SIZE  CODE IDENT
                                               NO.
                                        A     99974              2901518

                                       SCALE-NONE  REV LTR      C      SHEET  29 OF  7C
MIL 2084 9-65
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                              RUNNING LIST                         2901518      C

  FROM        TO        LEAD NO  C I R C U I T   F U N C T I O N       PEN NOTE  NET. NO.

        A44             PHASE SHIFTER 90 DEG 2901147-011 FIGURE 20

A44-2       A20-40      A  282  3200 CPS BUFFERED (HI)
A44-4       A19-33      A  285  90 DEG. BUFFERED 3200 CPS (HI)
A44-13      E8-B        A  540  28VDC IMU STANDBY (PSAAM PWR)
A44-14      A9-43       A  241  800 CPS DEMOD INPUT SIG (HI)
A44-16      A9-24       A  242  800V CPS 28V 1 PERCENT-OPT MON (LO)
A44-16      A33-6       A  248  800V CPS 28V 1 PERCENT-OPT MCN (LO)
A44-17      A33-1       A  245  OPTICS 28V 800 CPS 1 PERCENT-0 DEG RMS (HI)
A44-20      A20-31      A  284  PIPA G/S OUTPUT (LO)


        A45             AC AMPLIFIER 1902433-011 FIGURE 1

A45-1       J7-3        A  369  IG COURSE ERROR
A45-1       J6-3        A  370  IG COURSE ERROR
A45-9       A45-15              CDU TEST POINT + ERROR COM
A45-9       E24-B       A  390  CDU TEST POINT + ERROR COM
A45-13      A45-38      AA  35  28VDC IMU STANDBY (PSAAM PWR)
A45-13      E8-B        A  507  28VDC IMU STANDBY (PSAAM PWR)
A45-15      A45-9               CDU TEST POINT + ERROR COM
A45-15      J2-23       A  354  CDU TEST POINT + ERROR COM
A45-17      J2-43       A  353  IG CDU COURSE ERROR (HI)
A45-19      J7-14       A  367  IG FINE ERROR
A45-19      J6-14       A  368  IG FINE ERROR
A45-31      A45-32              CDU TEST POINT + ERROR COM
A45-31      E24-B       A  389  CDU TEST POINT + ERRCR CCM
A45-32      A45-31              CDU TEST POINT + ERROR COM
A45-32      J2-42       A  352  CDU TEST PCINT + ERRCR COM
A45-38      A45-13      AA  35  28VDC IMU STANDBY (PSAAM PWR)
A45-38      A46-13      A  407  28VDC IMU STANDBY (PSAAM PWR)
A45-40      J2-66       A  351  IG CDU FINE ERROR (HI)

                                       SIZE  CODE IDENT
                                               NO.
                                        A     99974              2901518

                                       SCALE-NONE  REV LTR      C      SHEET  30 OF  7C
MIL 2084 9-65
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FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A54			GLITCH DETECTOR 2901154-011 FIGURE 3		
A54-42	J1-8	A 180	OPTICS OVDC		
A59			ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-1	E6	A 32	3200 CPS 28V 1 PERCENT MON (HI)		
A59-2	K7-3	A 38	3200 CPS BUFFERED HI		
A59-2	A2-22	A 39	3200 CPS BUFFERED HI		
A59-4	E5-88	A 29	PIPA G/S OUTPUT (LO)		
A59-4	A22-15	A 49	PIPA G/S OUTPUT (LO)		
A59-5	J8-18	A 201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-5	J5-18	A 202	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
A59-6	A22-19	A 203	BUFFERED 800 CPS PH B IMU MON HI		
A59-8	E34-88	A 207	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-8	A22-31	A 211	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-9	J5-17	A 209	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-9	J8-17	A 210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
A59-10	A21-1	A 212	BUFFERED 800 CPS PH A IMU MON HI		
A59-12	E34-88	A 208	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-12	A21-9	A 213	800 CPS 28V 5 PERCENT (PH A+B COM)		
A59-13	K2-8	A 87	SERVO AMP TEST INPUT		
A59-14	E26-8	A 104	IMU OPERATE OVDC		
A59-16	A11-1	A 228	BUFFERED 800 CPS-IMU MON (HI)		
A59-17	A20-1	A 225	BUFFERED 800 CPS 5 PERCENT OPT MON (HI)		
A59-18	A21-19	A 216	BUFFERED 800 CPS OPT MON HI		
A59-19	A54-23	A 550	28VDC IMU STANDBY (PSAAM PWR)		
A59-19	A60-19	A 551	28VDC IMU STANDBY (PSAAM PWR)		
A59-20	K3-8	A 88	SERVO AMP TEST INPUT (IG)		
A59-24	J8-59	A 226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-24	J5-59	A 227	800 CPS 28V 1 PERCENT-IMU MON (HI)		
A59-25	E35-8	A 220	800V CPS 28V 1 PERCENT-OPT MON (LO)		
A59-26	J8-35	A 223	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-26	J5-35	A 224	800 CPS 28V 5 PERCENT-OPT MON HI		
A59-27	E35-8	A 219	800V CPS 28V 1 PERCENT-OPT MON (LO)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	D	SHEET 35 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) A59			ATTENUATOR ASSY 2901168-011 FIGURE 7		
A59-28	J8-58	A 214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A59-28	J5-58	A 215	800V CPS 28V 1 PERCENT-OPT MON (HI)		
A60			LINE DRIVE AMP 1902434-011 FIGURE 2		
A60-1	J4-B	A 52	PIPA HARDLINE B (LO)		
A60-3	J4-A	A 51	PIPA HARDLINE A (HI)		
A60-7	A22-17	A 50	BUFFERED SELECTED PIPA OUTPUT (HI)		
A60-19	A59-19	A 551	28VDC IMU STANDBY (PSAAM PWR)		
A60-21	A22-15	A 48	PIPA G/S OUTPUT (LO)		
E1			TERMINAL LUG 1015902-45 FIGURE 13		
E1	J4-C	A 53	STRUCTURE AND SHIELD GROUND		
E1	E11-B	A 62	STRUCTURE AND SHIELD GROUND		
E2			SOLDER SLEEVE 1010763-001 FIGURE 16		
E2	J7-19	A 9	Y PIPA G/S OUTPUT (HI)		
E2	J6-19	A 10	Y PIPA G/S OUTPUT (HI)		
E2	K9-3	A 11	Y PIPA G/S OUTPUT (HI)		
E3			SOLDER SLEEVE 1010763-001 FIGURE 16		
E3	J7-60	A 13	Z PIPA G/S OUTPUT (HI)		
E3	J6-60	A 14	Z PIPA G/S OUTPUT (HI)		
E3	K10-3	A 16	Z PIPA G/S OUTPUT (HI)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 36 OF 70	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E4			SOLDER SLEEVE 1010763-001 FIGURE 16		
E4	J6-38	A 17	X PIPA G/S OUTPUT (HI)		
E4	J7-38	A 18	X PIPA G/S OUTPUT (HI)		
E4	K8-3	A 19	X PIPA G/S OUTPUT (HI)		
E5			SPLICE REDUCER 1016006-001 FIGURE 14		
E5-8	E5-88		PIPA G/S OUTPUT (LO)		
E5-8	J6-61	A 21	PIPA G/S OUTPUT (LO)		
E5-8	J6-37	A 22	PIPA G/S OUTPUT (LO)		
E5-8	J6-20	A 23	PIPA G/S OUTPUT (LO)		
E5-8	J7-61	A 24	PIPA G/S OUTPUT (LO)		
E5-8	J7-37	A 25	PIPA G/S OUTPUT (LO)		
E5-8	J7-20	A 26	PIPA G/S OUTPUT (LO)		
E5-8	A2-17	A 47	PIPA G/S OUTPUT (LO)		
E5-88	E5-8		PIPA G/S OUTPUT (LO)		
E5-88	J8-57	A 27	PIPA G/S OUTPUT (LO)		
E5-88	J5-57	A 28	PIPA G/S OUTPUT (LO)		
E5-88	A59-4	A 29	PIPA G/S OUTPUT (LO)		
E6			SOLDER SLEEVE 1010763-001 FIGURE 16	C	
E6	J8-56	A 30	3200 CPS 28V 1 PERCENT MON (HI)		
E6	J5-56	A 31	3200 CPS 28V 1 PERCENT MON (HI)		
E6	A59-1	A 32	3200 CPS 28V 1 PERCENT MON (HI)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 37 OF 7C	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E7			SPLICE REDUCER 1016006-001 FIGURE 14		
E7-8	E7-88		28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-57	A 4	28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-58	A 5	28VDC IMU STANDBY (PSAAM PWR)		
E7-8	J7-59	A 6	28VDC IMU STANDBY (PSAAM PWR)		
E7-88	E7-8		28VDC IMU STANDBY (PSAAM PWR)		
E7-88	S1-2	A 7	28VDC IMU STANDBY (PSAAM PWR)		
E7-88	XF1-1	A 8	28VDC IMU STANDBY (PSAAM PWR)		
E8			SPLICE REDUCER 1016006-001 FIGURE 14		
E8-8	E8-88		28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A45-13	A 507	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A15-23	A 516	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A29-23	A 528	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A44-13	A 540	28VDC IMU STANDBY (PSAAM PWR)		
E8-8	A2-81	A 541	28VDC IMU STANDBY (PSAAM PWR)		
E8-88	E8-8		28VDC IMU STANDBY (PSAAM PWR)		
E8-88	S1-3	A 54	28VDC IMU STANDBY (PSAAM PWR)		
E9			SOLDER SLEEVE 1010763-001 FIGURE 16		
E9	A2-75	A 55R	3.2 KPPS PH A (HI)		
E9	J7-45	A 56	3.2 KPPS PH A (HI)		
E9	J6-45	A 57	3.2 KPPS PH A (HI)		

SIZE	CODE IDENT NO.			
A	99974	2901518		
SCALE-NONE	REV LTR	C	SHEET 38 OF 7C	

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E40			SOLDER SLEEVE 1010763-001 FIGURE 16		
E40	J7-35	A 323	SERVO AMP OUTPUT MON (IG LO)		
E40	J6-35	A 324	SERVO AMP OUTPUT MON (IG LO)		
E40	J1-67	A 325	SERVO AMP OUTPUT MON (IG LO)		
E41			SOLDER SLEEVE 1010763-001 FIGURE 16		
E41	J8-30	A 399	SXT SHAFT MDA P/A MON (HI)		
E41	J5-30	A 400	SXT SHAFT MDA P/A MON (HI)		
E41	A39-43	A 401R	SXT SHAFT MDA P/A MON (HI)		
E42			SPLICE REDUCER 1016006-001 FIGURE 14		
E42-B	E42-BB		SXT SHAFT TACH (LO)		
E42-B	A39-24	A 408	SXT SHAFT TACH (LO)		
E42-B	A41-24	A 409	SXT SHAFT TACH (LO)		
E42-B	A27-31	A 410R	SXT SHAFT TACH (LO)		
E42-BB	E42-B		SXT SHAFT TACH (LO)		
E42-BB	J5-40	A 405	SXT SHAFT TACH (LO)		
E42-BB	J8-40	A 406	SXT SHAFT TACH (LO)		
E43			SOLDER SLEEVE 1010763-001 FIGURE 16		
E43	J8-51	A 402	SXT TRUNNION MDA P/A MON (HI)		
E43	J5-51	A 403	SXT TRUNNION MDA P/A MON (HI)		
E43	A40-43	A 404R	SXT TRUNNION MDA P/A MON (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E44			SPLICE REDUCER 1016006-001 FIGURE 14		
E44-B	E44-BB		SXT TRUNNION TACH (LO)		
E44-B	A40-24	A 413	SXT TRUNNION TACH (LO)		
E44-B	A42-24	A 414	SXT TRUNNION TACH (LO)		
E44-B	A32-9	A 415L	SXT TRUNNION TACH (LO)		
E44-BB	E44-B		SXT TRUNNION TACH (LO)		
E44-BB	J5-38	A 411	SXT TRUNNION TACH (LO)		
E44-BB	J8-38	A 412	SXT TRUNNION TACH (LO)		
E45			SOLDER SLEEVE 1010763-001 FIGURE 16		
E45	A27-19	A 410L	SXT SHAFT MDA TACH MON HI		
E45	J8-39	A 416	SXT SHAFT MDA TACH MON HI		
E45	J5-39	A 417	SXT SHAFT MDA TACH MON HI		
E46			SOLDER SLEEVE 1010763-001 FIGURE 16		
E46	A32-1	A 415R	SXT TRUNNION MDA TACH MON HI		
E46	J8-61	A 418	SXT TRUNNION MDA TACH MON HI		
E46	J5-61	A 419	SXT TRUNNION MDA TACH MON HI		
E47			SOLDER SLEEVE 1010763-001 FIGURE 16		
E47	A32-19	A 420R	SCT SHAFT MDA TACH MON (HI)		
E47	J8-44	A 421	SCT SHAFT MDA TACH MON (HI)		
E47	J5-44	A 422	SCT SHAFT MDA TACH MON (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E48			SOLDER SLEEVE 1010763-001 FIGURE 16		
E48	A32-31	A 420L	SCT SHAFT MDA TACH FEEDBACK (LO)		
E48	J5-45	A 423	SCT SHAFT MDA TACH FEEDBACK (LO)		
E48	J8-45	A 424	SCT SHAFT MDA TACH FEEDBACK (LO)		
E49			SOLDER SLEEVE 1010763-001 FIGURE 16		
E49	A37-1	A 425R	SCT TRUNNION MDA TACH MON (HI)		
E49	J5-47	A 426	SCT TRUNNION MDA TACH MON (HI)		
E49	J8-47	A 427	SCT TRUNNION MDA TACH MON (HI)		
E50			SOLDER SLEEVE 1010763-001 FIGURE 16		
E50	A37-9	A 425L	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E50	J5-46	A 428	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E50	J8-46	A 429	SCT TRUNNION MDA TACH FEEDBACK (LO)		
E51			SPLICE REDUCER 1016006-001 FIGURE 14		
E51-B	E51-BB		0 VDC OPTICS (SHIELD)		
E51-B	SHLD A401	A 401A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A404	A 404A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A410	A 410A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A415	A 415A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A420	A 420A	0 VDC OPTICS (SHIELD)		
E51-B	SHLD A425	A 425A	0 VDC OPTICS (SHIELD)		
E51-BB	E51-B		0 VDC OPTICS (SHIELD)		
E51-BB	J8-26	A 433	0 VDC OPTICS (SHIELD)		
E51-BB	J5-26	A 434	0 VDC OPTICS (SHIELD)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E52			SOLDER SLEEVE 1010763-001 FIGURE 16		
E52	J5-31	A 430	SXT SHAFT MDA O/P MON PH 1 (HI)		
E52	J8-31	A 431	SXT SHAFT MDA O/P MON PH 1 (HI)		
E52	A41-43	A 432	SXT SHAFT MDA O/P MON PH 1 (HI)		
E53			SOLDER SLEEVE 1010763-001 FIGURE 16		
E53	J5-52	A 435	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E53	J8-52	A 436	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E53	A42-43	A 437	SXT TRUNNION MDA O/P MON PH 1 (HI)		
E54			SOLDER SLEEVE 1010763-001 FIGURE 16		
E54	J8-8	A 477	IRIG TEMP (FROM SIG COND) (HI)		
E54	J5-8	A 478	IRIG TEMP (FROM SIG COND) (HI)		
E54	J1-68	A 479	IRIG TEMP (FROM SIG COND) (HI)		
E55			SOLDER SLEEVE 1010763-001 FIGURE 16		
E55	J8-9	A 480	IRIG TEMP (FROM SIG COND) (LO)		
E55	J5-9	A 481	IRIG TEMP (FROM SIG COND) (LO)		
E55	J1-44	A 482	IRIG TEMP (FROM SIG COND) (LO)		
E56			SOLDER SLEEVE 1010763-001 FIGURE 16		
E56	J5-19	A 483	CONTROL HEATER SIGNAL (TELE)		
E56	J8-19	A 484	CONTROL HEATER SIGNAL (TELE)		
E56	J2-30	A 485	CONTROL HEATER SIGNAL (TELE)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
E58			SOLDER SLEEVE 1010763-001 FIGURE 16		
E58	J6-2	A 489	CGC TEMPERATURE MON (LO)		
E58	J7-2	A 490	CGC TEMPERATURE MON (LO)		
E58	J2-6	A 491	CGC TEMPERATURE MON (LO)		
E60			SOLDER SLEEVE 1010763-001 FIGURE 16		
E60	J6-32	A 495	PIPA CAL MOD TEMP (LO)		
E60	J7-32	A 496	PIPA CAL MOD TEMP (LO)		
E60	J2-5	A 497	PIPA CAL MOD TEMP (LO)		
E62			SOLDER SLEEVE 1010763-001 FIGURE 16		
E62	J6-55	A 501	PSA TEMPERATURE (LO)		
E62	J7-55	A 502	PSA TEMPERATURE (LO)		
E62	J2-14	A 503	PSA TEMPERATURE (LO)		
E63			SOLDER SLEEVE 1010763-001 FIGURE 16		
E63	J5-36	A 504	BLOWER SIGNAL (TELE) HI		
E63	J8-36	A 505	BLOWER SIGNAL (TELE) HI		
E63	J2-51	A 506	BLOWER SIGNAL (TELE) HI		
J1			CONNECTOR 1897247-002 FIGURE 11		
J1-1	A40-21	A 438	SXT TRUNNION SERVO ERROR IN PH (HI)		
J1-2	A39-21	A 397	SXT SHAFT SERVO ERROR IN PH (HI)		
J1-3	A41-21	A 464	SXT SHAFT MOTOR CONTROL WINDING (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-4	A40-13	A 439	SXT TRUNNION SERVO ERROR IN PH (LO)		
J1-5	A31-21	A 440	SXT SHAFT TACH OUT (HI)		
J1-6	A53-4	A 173	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-7	A53-42	A 175	IMU OPERATE OVDC		
J1-8	A54-42	A 180	OPTICS OVDC		
J1-9	A17-13	A 311	OG SERVO ERROR, QUAD (LO)		
J1-10	A39-13	A 398	SXT SHAFT SERVO ERROR IN PH (LO)		
J1-11	A41-13	A 465	SXT SHAFT MOTOR CONTROL WINDING (LO)		
J1-12	A30-21	A 442	SXT TRUNNION TACH OUT (HI)		
J1-13	A30-13	A 443	SXT TRUNNION TACH OUT (LO)		
J1-14	A31-13	A 441	SXT SHAFT TACH OUT (LO)		
J1-15	A2-14	A 64	PH DIFF 3.2KC 28V SUPP-CGC (LO)		
J1-16	A52-4	A 167	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-17	A52-42	A 169	IMU OPERATE OVDC		
J1-18	A53-4	A 174	+28VDC CGC OPER BUSS-DC LEVEL (HI)		
J1-19	A54-4	A 178	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-20	A54-4	A 179	+28VDC OPTICS OPER DC LEVEL (HI)		
J1-21	A17-21	A 310	OG SERVO ERROR, QUAD (HI)		
J1-22	A16-13	A 309	MG SERVO ERROR, QUAD (LO)		
J1-23	E37-B	A 315	SERVO AMP TEST POINT LO		
J1-24	E39	A 322	SERVO AMP OUTPUT MON (OG LO)		
J1-25	A25-21	A 269	MG SERVO ERROR IN PH (HI)		
J1-26	A26-21	A 267	IG SERVO ERROR IN PH (HI)		
J1-27	A42-13	A 467	SXT TRUNNION MOTOR CONTROL WINDING (LO)		
J1-28	A42-21	A 466	SXT TRUNNION MOTOR CONTROL WINDING (HI)		
J1-29	A5-13	A 350	ROLL ATT ERROR (CDU DAC OUT)(LO)		
J1-30	A5-21	A 349	ROLL ATT ERROR (CDU DAC OUT)(HI)		
J1-31	A9-21	A 251	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (LO)		
J1-32	A2-3	A 63	PH DIFF 3.2KC 28V SUPP-CGC (HI)		
J1-33	A52-4	A 168	+28VDC IMU STANDBY-DC LEVEL (HI)		
J1-34	A51-42	A 164	IMU OPERATE OVDC		
J1-35	A50-42	A 159	CDU TEST POINT + ERROR COM		
J1-36	A50-4	A 157	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-37	E32-B	A 196	+20VDC RETURN		
J1-38	E31-B	A 190	+20VDC T.P. HI		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-39	E32-B	A 197	+20VDC RETURN		
J1-40	A15-13	A 274	IG SERVO ERROR, QUAD (LO)		
J1-41	A16-21	A 308	MG SERVO ERROR, QUAD (HI)		
J1-42	E37-B	A 314	SERVO AMP TEST POINT LO		
J1-43	E38	A 319	SERVO AMP OUTPUT MON (MG LO)		
J1-44	E55	A 482	IRIG TEMP (FROM SIG COND) (LO)		
J1-45	A25-13	A 270	MG SERVO ERROR IN PH (LO)		
J1-46	A26-13	A 268	IG SERVO ERROR IN PH (LO)		
J1-49	A38-13	A 447	SCT TRUNNION TACH OUT (LO)		
J1-50	A29-13	A 445	SCT SHAFT TACH OUT (LO)		
J1-51	A6-13	A 348	YAW ATT ERROR (CDU DAC OUT)(LO)		
J1-52	A6-21	A 347	YAW ATT ERROR (CDU DAC OUT)(HI)		
J1-53	A9-13	A 252	PH DIFF OPTX 1 PERCENT, IMU 1 PERCENT (HI)		
J1-54	A8-13	A 254	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (LO)		
J1-55	E15	A 189	-28VDC (LO)		
J1-56	A51-4	A 162	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-57	A51-4	A 163	+28VDC IMU OPER BUSS DC LEVEL (HI)		
J1-58	A48-42	A 150	IMU OPERATE OVDC		
J1-59	A50-4	A 158	+4VDC CDU SUPP,DC LEVEL,NOISE (HI)		
J1-60	A47-42	A 147	IMU OPERATE OVDC		
J1-61	E31-B	A 191	+20VDC T.P. HI		
J1-62	A49-4	A 153	+120VDC PIPA, NOISE RMS (HI)		
J1-63	A49-42	A 154	+120VDC PIPA RETURN		
J1-64	E33	A 200	-20VDC T.P. HI		
J1-65	A15-21	A 273	IG SERVO ERROR, QUAD (HI)		
J1-66	E37-B	A 316	SERVO AMP TEST POINT LO		
J1-67	E40	A 325	SERVO AMP OUTPUT MON (IG LO)		
J1-68	E54	A 479	IRIG TEMP (FROM SIG COND) (HI)		
J1-70	A24-21	A 271	OG SERVO ERROR IN PH (HI)		
J1-71	A24-13	A 272	OG SERVO ERROR IN PH (LO)		
J1-74	A38-21	A 446	SCT TRUNNION TACH OUT (HI)		
J1-75	A29-21	A 444	SCT SHAFT TACH OUT (HI)		
J1-76	A7-13	A 346	PITCH ATT ERROR (CDU DAC OUT)(LO)		
J1-77	A7-21	A 345	PITCH ATT ERROR (CDU DAC OUT)(HI)		
J1-78	A8-21	A 253	PH DIFF IMU 5 PERCENT 0 DEG-90 DEG (HI)		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J1			CONNECTOR 1897247-002 FIGURE 11		
J1-79	E14	A 186	-28VDC (T.P. HI)		
J1-82	A48-4	A 145	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-83	A48-4	A 146	+4VDC CGC SUPP, DC LEVEL (HI)		
J1-84	A47-4	A 144	+14VDC CGC SUPP, NOISE RMS		
J1-85	A47-4	A 143	+14VDC CGC SUPP, NOISE RMS		
J2			CONNECTOR 1897247-003 FIGURE 11		
J2-5	E60	A 497	PIPA CAL MOD TEMP (LO)		
J2-6	E58	A 491	CGC TEMPERATURE MON (LO)		
J2-11	A3-32	A 360	CDU TEST POINT + ERROR COM		
J2-14	E62	A 503	PSA TEMPERATURE (LO)		
J2-15	T81-6	A 500	PSA TEMP (IMU 800 CPS 5 PERCENT)(HI)		
J2-16	T81-4	A 494	PIPA CAL MOD TEMP (HI)		
J2-17	T81-2	A 488	CGC TEMPERATURE (HI)		
J2-18	A54-21	A 183	+28VDC OPTICS OPER- NOISE PEAKS (LO)		
J2-19	A53-21	A 177	+28VDC CGC OPER BUSS-NOISE PEAKS (LO)		
J2-20	A52-21	A 172	+28VDC IMU STANDBY-NOISE PEAKS (LO)		
J2-23	A45-15	A 354	CDU TEST POINT + ERROR COM		
J2-25	A3-40	A 359	OG CDU FINE ERROR (HI)		
J2-27	A4-32	A 364	CDU TEST POINT + ERROR COM		
J2-29	E26-BB	A 476	IMU OPERATE OVDC		
J2-30	E56	A 485	CONTROL HEATER SIGNAL (TELE)		
J2-31	A20-15	A 250	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J2-32	A21-15	A 237	800 CPS 28V 5 PERCENT (PH A+B COM)		
J2-35	A54-17	A 182	+28VDC OPTICS OPER- NOISE PEAKS (HI)		
J2-36	A53-17	A 176	+28VDC CGC OPER BUSS-NOISE PEAKS (HI)		
J2-37	A52-17	A 170	+28VDC IMU STANDBY-NOISE PEAKS (HI)		
J2-38	A51-17	A 165	+28VDC IMU OPER BUSS-NOISE PEAKS (HI)		
J2-39	A51-21	A 166	+28VDC IMU OPER BUSS-NOISE PEAKS (LO)		
J2-42	A45-32	A 352	CDU TEST POINT + ERROR COM		
J2-43	A45-17	A 353	IG CDU COURSE ERROR (HI)		
J2-45	A46-15	A 358	CDU TEST POINT + ERROR COM		

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J6			CONNECTOR 1897252-106 FIGURE 12		
J6-46	E10	A 58	3.2 KPPS PH A (LO)		
J6-47	E21	A 118	+120VDC PIPA (HI)		
J6-48	E22	A 121	+120VDC PIPA RETURN		
J6-50	E11-BB	A 552	STRUCTURE AND SHIELD GROUND		
J6-52	E33	A 199	-20VDC T.P. HI		
J6-53	E32-BB	A 194	+20VDC RETURN		
J6-54	TB1-3	A 492	PIPA CAL MOD TEMP (HI)		
J6-55	E62	A 501	PSA TEMPERATURE (LO)		
J6-56	TB1-5	A 498	PSA TEMPERATURE (HI)		
J6-57	XF1-2	A 1	28VDC IMU STANDBY (PSAAM PWR)		
J6-58	XF1-2	A 2	28VDC IMU STANDBY (PSAAM PWR)		
J6-59	XF1-2	A 3	28VDC IMU STANDBY (PSAAM PWR)		
J6-60	E3	A 14	Z PIPA G/S OUTPUT (HI)		
J6-61	E5-B	A 21	PIPA G/S OUTPUT (LO)		
J7			CONNECTOR 1897247-006 FIGURE 8		
J7-1	A46-1	A 373	MG COURSE ERROR		
J7-2	E58	A 490	CGC TEMPERATURE MON (LO)		
J7-3	A45-1	A 369	IG COURSE ERROR		
J7-4	A3-1	A 377	OG COURSE ERROR		
J7-5	A46-19	A 371	MG FINE ERROR		
J7-6	E17	A 98	SERVO AMP TEST INPUT (MG)		
J7-7	E18	A 102	SERVO AMP TEST INPUT (CG)		
J7-8	TB1-1	A 487	CGC TEMPERATURE MON (HI)		
J7-9	E20	A 116	+4VDC CGC T.P.		
J7-10	T2-2	A 332	YAW CDU ATT ERROR (LO)		
J7-11	T2-1	A 330	YAW CDU ATT ERROR (HI)		
J7-12	A4-1	A 381	SHAFT FINE ERROR		
J7-13	A4-19	A 379	TRUNNION FINE ERROR		
J7-14	A45-19	A 367	IG FINE ERROR		
J7-15	A3-19	A 375	OG FINE ERROR		
J7-16	E14	A 184	-28VDC (T.P. HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 59 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7			CONNECTOR 1897247-006 FIGURE 8		
J7-17	E38	A 317	SERVO AMP OUTPUT MON (MG LO)		
J7-18	E16	A 93	SERVO AMP TEST INPUT (IG)		
J7-19	E2	A 9	Y PIPA G/S OUTPUT (HI)		
J7-20	E5-B	A 26	PIPA G/S OUTPUT (LO)		
J7-21	K4-7	A 74	ACE BIAS 2		
J7-22	E19	A 113	+14VDC CGC T.P.		
J7-23	T3-1	A 334	ROLL CDU ATT ERROR (HI)		
J7-24	T1-2	A 328	PITCH CDU ATT ERROR (LO)		
J7-25	E11-BB	A 61	STRUCTURE AND SHIELD GROUND		
J7-26	E23	A 123	CDU TEST POINT 4V		
J7-27	E24-BB	A 127	CDU TEST POINT + ERROR COM		
J7-31	E31-B	A 192	+20VDC T.P. HI		
J7-32	E60	A 496	PIPA CAL MOD TEMP (LO)		
J7-33	E15	A 188	-28VDC (LO)		
J7-34	E39	A 320	SERVO AMP OUTPUT MON (CG LO)		
J7-35	E40	A 323	SERVO AMP OUTPUT MON (IG LO)		
J7-36	E37-BB	A 312	SERVO AMP TEST POINT LO		
J7-37	E5-B	A 25	PIPA G/S OUTPUT (LO)		
J7-38	E4	A 18	X PIPA G/S OUTPUT (HI)		
J7-39	E13	A 72	INHIBIT POWER FAIL		
J7-40	K4-3	A 76	ACE BIAS 1		
J7-41	E28	A 135	+28VDC COMPUTER T.P.		
J7-42	E12	A 69	OVDC COMPUTER T.P.		
J7-43	T3-2	A 336	ROLL CDU ATT ERROR (LO)		
J7-44	T1-1	A 326	PITCH CDU ATT ERROR (HI)		
J7-45	E9	A 56	3.2 KPPS PH A (HI)		
J7-46	E10	A 59	3.2 KPPS PH A (LO)		
J7-47	E21	A 119	+120VDC PIPA (HI)		
J7-48	E22	A 78	+120VDC PIPA RETURN		
J7-52	E33	A 198	-20VDC T.P. HI		
J7-53	E32-B	A 195	+20VDC RETURN		
J7-54	TB1-3	A 493	PIPA CAL MOD TEMP (HI)		
J7-55	E62	A 502	PSA TEMPERATURE (LO)		
J7-56	TB1-5	A 499	PSA TEMPERATURE (HI)		
J7-57	E7-B	A 4	28VDC IMU STANDBY (PSAAM PWR)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 60 OF 70

FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J7			CONNECTOR 1897247-006 FIGURE 8		
J7-58	E7-B	A 5	28VDC IMU STANDBY (PSAAM PWR)		
J7-59	E7-B	A 6	28VDC IMU STANDBY (PSAAM PWR)		
J7-60	E3	A 13	Z PIPA G/S OUTPUT (HI)		
J7-61	E5-B	A 24	PIPA G/S OUTPUT (LO)		
J8			CONNECTOR 1897247-007 FIGURE 8		
J8-5	E27	A 132	+28VDC IMU STANDBY T.P.		
J8-6	E29	A 138	OPTICS +28VDC T.P.		
J8-7	E34-B	A 205	800 CPS 28V 5 PERCENT (PH A+B COM)		
J8-8	E54	A 477	IRIG TEMP (FROM SIG COND) (HI)		
J8-9	E55	A 480	IRIG TEMP (FROM SIG COND) (LO)		
J8-14	E26-BB	A 110	IMU OPERATE OVDC		
J8-15	E25	A 129	IMU OPERATE +28VDC T.P.		
J8-16	E30	A 142	OPTICS OVDC		
J8-17	A59-9	A 210	800 CPS 28V 5 PERCENT (PH A-IMU MON HI)		
J8-18	A59-5	A 201	800 CPS 28V 5 PERCENT (PH B IMU MON HI)		
J8-19	E56	A 484	CONTROL HEATER SIGNAL (TELE)		
J8-26	E51-BB	A 433	0 VDC OPTICS (SHIELD)		
J8-30	E41	A 399	SXT SHAFT MDA P/A MON (HI)		
J8-31	E52	A 431	SXT SHAFT MDA O/P MON PH 1 (HI)		
J8-32	A27-1	A 298	OG IRIG ERROR, BUFFERED		
J8-33	A23-1	A 288	IG+Y IRIG ERROR, BUFFERED		
J8-34	E35-BB	A 218	800V CPS 28V 1 PERCENT-OPT MON (LO)		
J8-35	A59-26	A 223	800 CPS 28V 5 PERCENT-OPT MON HI		
J8-36	E63	A 505	BLOWER SIGNAL (TELE) HI		
J8-38	E44-BB	A 412	SXT TRUNNION TACH (LO)		
J8-39	E45	A 416	SXT SHAFT MDA TACH MON HI		
J8-40	E42-BB	A 406	SXT SHAFT TACH (LO)		
J8-44	E47	A 421	SCT SHAFT MDA TACH MON (HI)		
J8-45	E48	A 424	SCT SHAFT MDA TACH FEEDBACK (LO)		
J8-46	E50	A 429	SCT TRUNNION MDA TACH FEEDBACK (LO)		
J8-47	E49	A 427	SCT TRUNNION MDA TACH MON (HI)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 61 OF 70

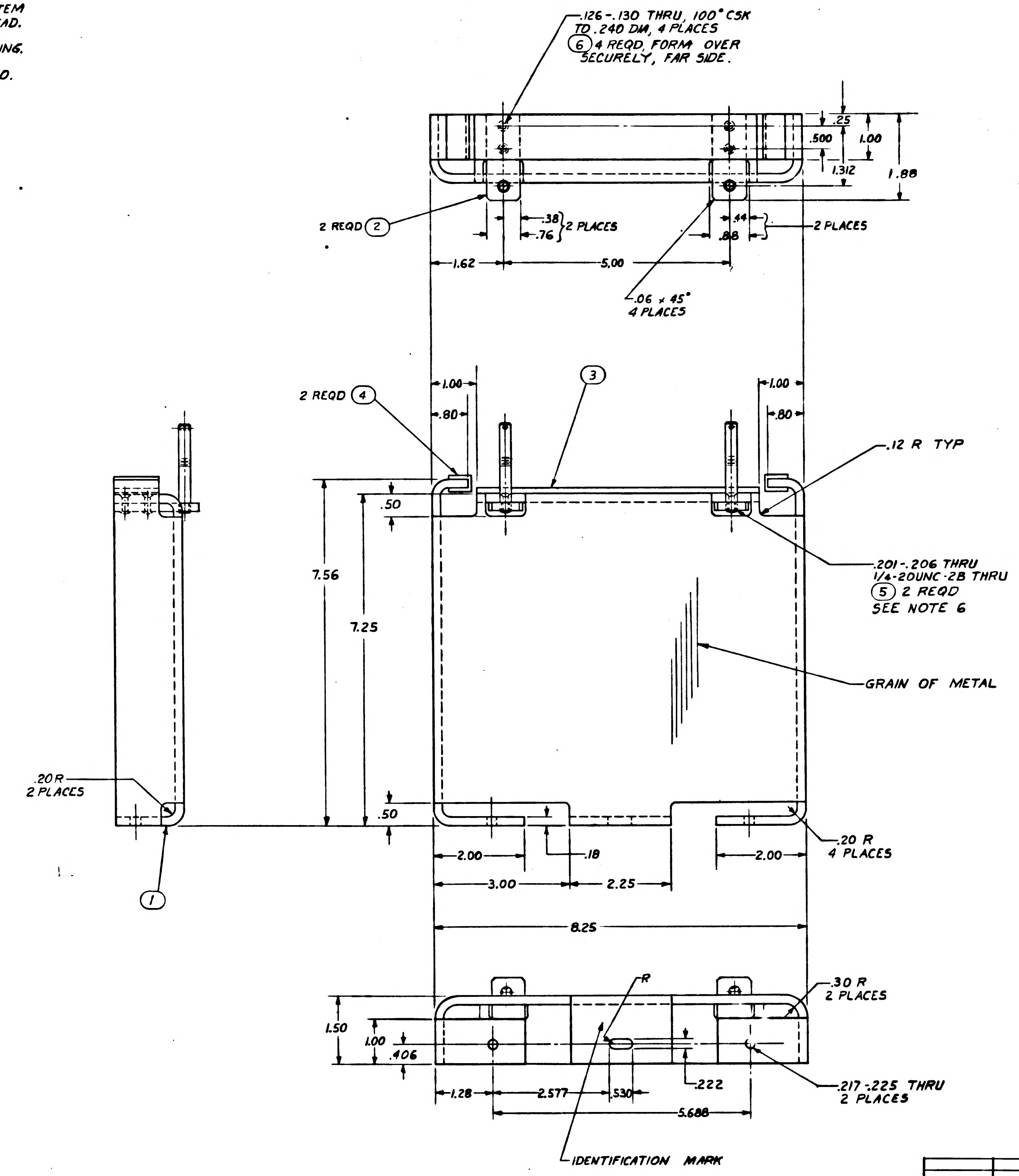
FROM	TO	LEAD NO	CIRCUIT FUNCTION	PEN NOTE	NET. NO.
(CONT.) J8			CONNECTOR 1897247-007 FIGURE 8		
J8-51	E43	A 402	SXT TRUNNION MDA P/A MON (HI)		
J8-52	E53	A 436	SXT TRUNNION MDA O/P MON PH 1 (HI)		
J8-54	A23-19	A 300	MG IRIG ERROR, BUFFERED		
J8-55	E36-BB	A 291	OVDC IMU		
J8-56	E6	A 30	3200 CPS 28V 1 PERCENT MON (HI)		
J8-57	E5-BB	A 27	PIPA G/S OUTPUT (LO)		
J8-58	A59-28	A 214	800V CPS 28V 1 PERCENT-OPT MON (HI)		
J8-59	A59-24	A 226	800 CPS 28V 1 PERCENT-IMU MON (HI)		
J8-60	A11-6	A 230	800 CPS 28V 1 PERCENT IMU MON (LO)		
J8-61	E46	A 418	SXT TRUNNION MDA TACH MON HI		
K1			RELAY 1015832-118 FIGURE 22		
K1-1	TB1-23	AA 24	+28 VDC ACE ENABLE		
K1-1	TB1-25	AA 25	+28 VDC ACE ENABLE		
K1-2	S4-2	A 99	SERVO AMP TEST INPUT (CG)		
K1-3	S4-1	A 100	SERVO AMP TEST INPUT (CG)		
K1-3	E18	A 101	SERVO AMP TEST INPUT (CG)		
K1-5	TB1-26	AA 33	SERVO TEST COMMAND (LO)(OG)		
K1-5	J3-34	A 86	SERVO TEST COMMAND (LO)(CG)		
K1-8	K2-8	AA 34	SERVO AMP TEST INPUT		
K2			RELAY 1015832-118 FIGURE 22		
K2-1	TB1-21	AA 22	+28 VDC ACE ENABLE		
K2-1	TB1-23	AA 23	+28 VDC ACE ENABLE		
K2-2	S5-2	A 94	SERVO AMP TEST INPUT (MG)		
K2-3	S5-1	A 95	SERVO AMP TEST INPUT (MG)		
K2-3	E17	A 96	SERVO AMP TEST INPUT (MG)		
K2-5	TB1-24	AA 32	SERVO TEST COMMAND (LO)(MG)		
K2-5	J3-16	A 85	SERVO TEST COMMAND (LO)(MG)		

SIZE	CODE IDENT NO.		
A	99974	2901518	
SCALE-NONE	REV LTR	C	SHEET 62 OF 70

ZONE	LTR	DESCRIPTION	CHG NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 51530		9/29/66	C4

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   A. ALUM ALLOY PER QQ-A-250/8, TEMPER H32 (ES 2105, 5052-H32).
   B. RUBBER, SYNTHETIC PER MIL-R-6855, CLASS II GRADE 40 (ES 2710-1).
3. MUST BE FREE FROM BURRS AND SHARP CORNERS.
4. FINISH: APPLY P513 OF MIL-F-14072. APPLY ITEM ⑨ & TWO COATS OF ITEM ⑩ TO ITEM ①, ② & ⑥.
5. BOND ITEMS ③ & ④ TO ITEM ① USING ITEM ⑦.
6. APPLY ITEM ⑧ TO THE SHORT THREADS OF ITEM ⑤ PER ND1002211 AND TIGHTEN TO BOTTOM THREAD.
7. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
8. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130.


.126-.130 THRU, 100° CSK TO .240 DIA, 4 PLACES
⑥ 4 REQD. FORM OVER SECURELY, FAR SIDE.
.25
.500
1.00
1.312
1.88
2 REQD ②
.38
.76
2 PLACES
.44
.88
2 PLACES
1.62
5.00
.06 x 45° 4 PLACES
1.00
.80
③
2 REQD ④
1.00
.80
.12 R TYP
.50
7.56
7.25
.201-.206 THRU
1/4-20UNC-2B THRU
⑤ 2 REQD
SEE NOTE 6
GRAIN OF METAL
.20 R 2 PLACES
.50
①
2.00
.18
2.00
.20 R 4 PLACES
3.00
2.25
8.25
R
.30 R 2 PLACES
1.50
1.00
.406
1.28
2.577
.530
.222
5.688
.217-.225 THRU 2 PLACES
IDENTIFICATION MARK

	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 7	10	AR	1016194	ENAMEL, CASHMERE BLUE
	9	AR	MIL-P-8585	PRIMER (ES2589)
	8	AR	MIL-S-22473, GR-A	SEALING & RETAINING COMPOUND (ES2544-1)
SEE NOTE 7	7	AR	1016191	ADHESIVE
	6	4	MS20426AD4-9	(1897063-209) RIVET, FL. HD. 100°
	5	2	1902076-003	STUD, PLAIN
SEE NOTE 7	4	2	1016366-008	SEAL, RUBBER CHANNEL
SEE NOTE 2B	3	1	2901526-003	PAD
SEE NOTE 2A	2	2	2901526-002	TAB
SEE NOTE 2A	1		2901526-001	BRACKET

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
2901528-011	1900009-041

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN DATE
CHECKED Ed Foster 6MAY66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
CCB APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET
EYEPIECE STOWAGE UNIT
(INSEPARABLE ASSEMBLY)

SIZE E
CODE IDENT NO. 99974
2901526
SCALE 1/1
SHEET 1 OF 1

APPLICATION	
NEXT ASSY	USED ON
1900496-021	1900496-021

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	REV'SED PER DO61979	5 MAY 66	RWK
B	INITIAL RELEASE CLASS A PER TDRR 30013	26 MAY 66	

Unreleased 2 APR 66

REV			B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET			1	2	3	4	5	6	7	8	9	10	11	12	13	14
REV STATUS OF SHEETS	REV															
	SHEET															

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY DA 61967

AC ELECTRONICS DIV GM CORP. MILW. WIS

DRAFTSMAN Frank R. Webb 27 APR 66
DAY MO YR
CHECKER C. Pelda 2 MAY 66
ENGINEER 2 MAY 66
APPROVAL
CONTR NO.
A. C. METZGER
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET AA, ELECTRICAL

SIZE A
CODE IDENT. NO 99974
2901532
SCALE NONE
SHEET 1 OF 14

MIL 1377A6 12-64

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	SOLDER PER ND1002071 USING ITEM 14 OR ITEMS 12 AND 13.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A | CODE IDENT NO. 99974 | 2901532
SCALE-NONE | REV LTR B | SHEET 2 OF 14

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901532-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHITE 208 FT 6 IN. TOTAL LENGTH
	2	1	2901532-002	WIRE, ND1002181, TYPE 1, CLASS 1, 16AWG, WHITE 10 FT TOTAL LENGTH
	3	2	MS25036-50	TERMINAL LUG, CRIMP
	4	2	MS25036-48	TERMINAL LUG, CRIMP
	5	6	MS25036-2	TERMINAL LUG, CRIMP
3	6	31	1015864-107	INSULATION SLEEVING, CLEAR
3	7	62	1015864-109	INSULATION SLEEVING, CLEAR
3	8	4	1015864-167	INSULATION SLEEVING, CLEAR
	9	4	MS25036-49	TERMINAL LUG, CRIMP
3	10	10	1015864-110	INSULATION SLEEVING, CLEAR
3	11	8	1015864-136	INSULATION SLEEVING, CLEAR
	12	AR	SN60WS	SOLDER QQ-S-571 (ES2175-1)
	13	AR	MIL-F-14256	TYPE A OR W FLUX (ES2798)
	14	AR	SN60WRAP	SOLDER QQ-S-571 (ES2175-3)

SIZE A | CODE IDENT NO. 99974 | 2901532
SCALE-NONE | REV LTR B | SHEET 3 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	1	12.00	K8-4 K4-3					.30 .30	YES YES		7 6	
AA 2	1	12.00	T1-2 K6-2					.30 .30	YES YES		8 6	
AA 3	1	12.00	AR1-3 K3-12					.30 .30	YES YES		 6	
AA 4	1	12.00	K3-12 K1-3					.30 .30	YES YES		 7	
AA 5	1	12.00	K1-8 K2-3					.30 .30	YES YES		7 7	
AA 6	1	12.00	K2-8 T1-1					.30 .30	YES YES		7 8	
AA 7	1	6.00	K3-13 K4-12					.30 .30	YES YES		7 7	
AA 8	1	12.00	K4-13 T1-1					.30 .30	YES YES		7	
AA 9	1	24.00	AR2-4 R9-1					.30 .30	YES YES		 6	
AA 10	1	36.00	AR2-4 S9-2C					.30 .30	YES YES			
AA 11	1	12.00	S9-2NC S8-2C					.30 .30	YES YES			
AA 12	1	12.00	S8-2NC S6-2C					.30 .30	YES YES			

SIZE A | CODE IDENT NO. 99974 | 2901532
SCALE-NONE | REV LTR B | SHEET 4 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	1	36.00	AR1-4					.30	YES			
			R1-CW					.30	YES			
AA 14	1	6.00	R1-CW					.30	YES			
			R1-RED					.30	YES			
AA 15	1	36.00	R1-CCW					.30	YES			
			R13-1					.30	YES		6	
AA 16	1	6.00	R13-1					.30	YES			
			R2-1					.30	YES		6	
AA 17	1	36.00	R13-2					.30	YES		6	
			J2-D					.20	NO			
AA 18	1	36.00	R2-2					.30	YES		6	
			J2-K					.20	NO			
AA 19	2	12.00	XF3-2					.30	YES		11	
			J2-H					.20	NO			
AA 20	2	12.00	XF4-2					.30	YES		11	
			J2-J					.20	NO			
AA 21	1	12.00	K2-4					.30	YES		7	
			K4-2					.30	YES		7	
AA 22	1	12.00	K1-5					.30	YES		7	
			AR2-10					.30	YES			
AA 23	1	12.00	K1-4					.30	YES		7	
			K3-2					.30	YES		7	
AA 24	1	12.00	K1-2					.30	YES		7	
			L1-1					.30	YES			

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 5 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	1	24.00	K1-1					.30	YES		7	
			AR2-9					.30	YES			
AA 26	1	12.00	K1-7					.30	YES		6	
			K8-2					.30	YES		6	
AA 27	1	24.00	K1-7					.30	YES			
			K6-2					.30	YES			
AA 28	1	6.00	K4-3					.30	YES			
			K3-3					.30	YES		6	
AA 29	1	12.00	K4-4					.30	YES		6	
			K8-10					.30	YES		6	
AA 30	1	36.00	K4-4					.30	YES			
			S3-1C					.30	YES			
AA 31	1	6.00	K4-5					.30	YES		6	
			K4-1					.30	YES		7	
AA 32	1	36.00	K4-5					.30	YES			
			S3-2NO					.30	YES			
AA 33	1	6.00	K4-11					.30	YES		7	
			K3-10					.30	YES		7	
AA 34	1	12.00	K4-10					.30	YES		7	
			K7-3					.30	YES		7	
AA 35	1	36.00	K4-8					.30	YES		7	
			XDS5-1					.30	YES		10	
AA 36	1	6.00	K4-7					.30	YES		7	
			K3-8					.30	YES		7	

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 6 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	1	36.00	K4-6					.30	YES		7	
			XDS3-1					.30	YES		10	
AA 38	1	36.00	K3-3					.30	YES			
			XDS1-2					.30	YES		5	
AA 39	1	6.00	K3-4					.30	YES		6	
			K3-7					.30	YES		6	
AA 40	1	6.00	K3-5					.30	YES		6	
			K3-1					.30	YES		7	
AA 41	1	36.00	K3-5					.30	YES			
			S3-1NO					.30	YES			
AA 42	1	36.00	K3-6					.30	YES		7	
			XDS4-1					.30	YES		10	
AA 43	1	36.00	K3-7					.30	YES			
			S3-2C					.30	YES			
AA 44	1	12.00	K3-11					.30	YES		7	
			K5-2					.30	YES		7	
AA 45	1	36.00	K8-6					.30	YES		7	
			S3-1NO					.30	YES			
AA 46	1	6.00	K8-7					.30	YES		7	
			K8-10					.30	YES			
AA 47	1	6.00	K8-1					.30	YES		7	
			K8-5					.30	YES		7	
AA 48	1	36.00	K8-9					.30	YES		7	
			S3-2NO					.30	YES			

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR # B	SHEET 7 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 49	1	12.00	K8-5					.30	YES			
			K6-7					.30	YES		7	
AA 50	1	12.00	K8-3					.30	YES		7	
			K6-3					.30	YES		7	
AA 51	1	6.00	K8-2					.30	YES			
			K5-1					.30	YES		6	
AA 52	1	24.00	K5-1					.30	YES			
			K2-7					.30	YES		6	
AA 53	1	36.00	K5-5					.30	YES		7	
			S2-2NC					.30	YES			
AA 54	1	36.00	K5-3					.30	YES		7	
			S2-2NO					.30	YES			
AA 55	1	36.00	K5-4					.30	YES		7	
			XF1-2					.30	YES		11	
AA 56			DELETED									
AA 57	1	36.00	K5-8					.30	YES		7	
			J3-C					.20	NO			
AA 58	1	36.00	K5-7					.30	YES		7	
			J3-8					.20	NO			
AA 59	1	6.00	K6-5					.30	YES		6	
			L1-2									
AA 60	1	24.00	K6-5					.30	YES			
			K7-8					.30	YES		6	

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 8 OF 14

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 61	1	12.00	AR2-1					.30	YES			
			AR1-1					.30	YES			
AA 62	1	12.00	AR2-2					.30	YES			
			AR1-2					.30	YES			
AA 63	1	36.00	AR2-3					.30	YES			
			M1(+)					.30	NO		3	
AA 64	1	24.00	AR2-3					.30	YES			
			R11-1					.30	YES		6	
AA 65	1	36.00	AR2-4					.30	YES			
			R12-GRN					.30	YES		7	
AA 66	1	24.00	AR2-5					.30	YES			
			K7-1					.30	YES		7	
AA 67	1	6.00	AR2-6					.30	YES			
			E1					.30	YES			
AA 68	1	36.00	AR2-6					.30	YES			
			J2-G					.20	NO			
AA 69	1	12.00	AR2-7					.30	YES			
			K2-1					.30	YES		7	
AA 70	1	12.00	AR2-8					.30	YES			
			K2-5					.30	YES		7	
AA 71	1	36.00	AR2-11					.30	YES			
			R7-GRN					.30	YES		7	
AA 72	1	36.00	AR2-12					.30	YES			
			R8-RED					.30	YES		6	

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 9 OF 14

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 73	1	36.00	AR2-13					.30	YES			
			R7-RED					.30	YES		6	
AA 74	2	6.00	T1-3					.30	YES		8	
			T2-3					.30	YES			
AA 75	2	36.00	T1-4					.30	YES		8	
			TP4					.30	YES			
AA 76	1	36.00	AR1-1					.30	YES			
			XF1-1					.30	YES		11	
AA 77	1	24.00	AR1-2					.30	YES			
			S7-1					.30	NO		9	
AA 78	1	6.00	AR1-5					.30	YES			
			E2					.30	YES			
AA 79	1	36.00	AR1-6					.30	YES			
			J2-F					.20	NO			
AA 80	1	36.00	K2-7					.30	YES			
			XF2-1					.30	YES		11	
AA 81	1	24.00	K7-5					.30	YES		7	
			R10-2					.30	YES		6	
AA 82	1	36.00	K7-2					.30	YES		7	
			XDS6-1					.30	YES		10	
AA 83	1	36.00	K7-8					.30	YES			
			TP2					.30	YES			
AA 84	1	36.00	S7-1					.30	NO		9	
			TP1					.30	YES			

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 10 OF 14

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 85	1	36.00	S7-2					.30	NO		9	
			XDS1-1					.30	YES		5	
AA 88	1	36.00	R3-1					.30	YES		7	
			S4-2NO					.30	YES			
AA 89	1	6.00	R3-2					.30	YES		7	
			R4-2					.30	YES		6	
AA 90	1	36.00	R4-1					.30	YES		7	
			S5-2NO					.30	YES			
AA 91	1	6.00	R4-2					.30	YES			
			R11-2					.30	YES		6	
AA 92	1	36.00	R5-1					.30	YES		7	
			S6-2NO					.30	YES			
AA 93	1	6.00	R5-2					.30	YES		6	
			R11-2					.30	YES			
AA 94	1	6.00	R11-1					.30	YES			
			R10-1					.30	YES		7	
AA 95	1	36.00	R11-2					.30	YES			
			J2-C					.20	NO			
AA 96	1	6.00	R10-2					.30	YES			
			R9-2					.30	YES		7	
AA 97	1	24.00	XDS6-2					.30	YES		10	
			XF2-1					.30	YES			
AA 98	1	12.00	XDS5-2					.30	YES		10	
			XDS3-2					.30	YES		10	

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 11 OF 14

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 99	1	12.00	J1-C					.20	NO			
			E3					.30	NO		4	
AA 100	1	12.00	XDS3-2					.30	YES			
			XDS4-2					.30	YES		10	
AA 101	1	12.00	XDS4-2					.30	YES			
			XDS2-2					.30	YES		10	
AA 102	1	24.00	XDS2-1					.30	YES		10	
			XF1-1					.30	YES			
AA 103	1	12.00	XDS2-2					.30	YES			
			TP1					.30	YES			
AA 104	1	24.00	S1-1					.30	NO		5	
			XF1-2					.30	YES			
AA 105	1	12.00	S1-2					.30	NO		5	
			J1-A					.20	NO			
AA 106	1	24.00	S1-3					.30	NO		5	
			XF2-2					.30	YES		11	
AA 107	1	12.00	S1-4					.30	NO		5	
			J1-B					.20	NO			
AA 108	1	6.00	S3-1C					.30	YES			
			S3-2C					.30	YES			
AA 109	1	6.00	S4-2C					.30	YES			
			S5-2NC					.30	YES			
AA 110	1	12.00	S4-2NC					.30	YES			
			J2-E					.20	NO			

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 12 OF 14

MIL 2084 9-65

LEAD SET AA 2901532

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 111	1	12.00	S5-2C					.30	YES			
			S6-2NC					.30	YES			
AA 112	1	24.00	M1(-)					.30	NO		3	
			R12-RED					.30	YES		6	
AA 113	1	12.00	T2-1					.30	YES			
			M2-1					.30	YES		6	
AA 114	1	12.00	T2-2					.30	YES			
			M2-2					.30	YES		6	
AA 115	2	24.00	T2-4					.30	YES			
			TP3					.30	YES			
AA 116	2	24.00	XF3-1					.30	YES		11	
			TP4					.30	YES			
AA 117	2	12.00	XF3-2					.30	YES			
			J2-A					.20	NO			
AA 118	2	24.00	XF4-1					.30	YES		11	
			TP3					.30	YES			
AA 119	2	12.00	XF4-2					.30	YES			
			J2-B					.20	NO			
AA 120	1	6.00	R7-RED					.30	YES			
			R7-YEL					.30	YES		6	
AA 121	1	6.00	R7-YEL					.30	YES			
			R8-GRN					.30	YES		7	
AA 122	1	6.00	R8-RED					.30	YES			
			R8-YEL					.30	YES		7	

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 13 OF 14

MIL 2084 9-65

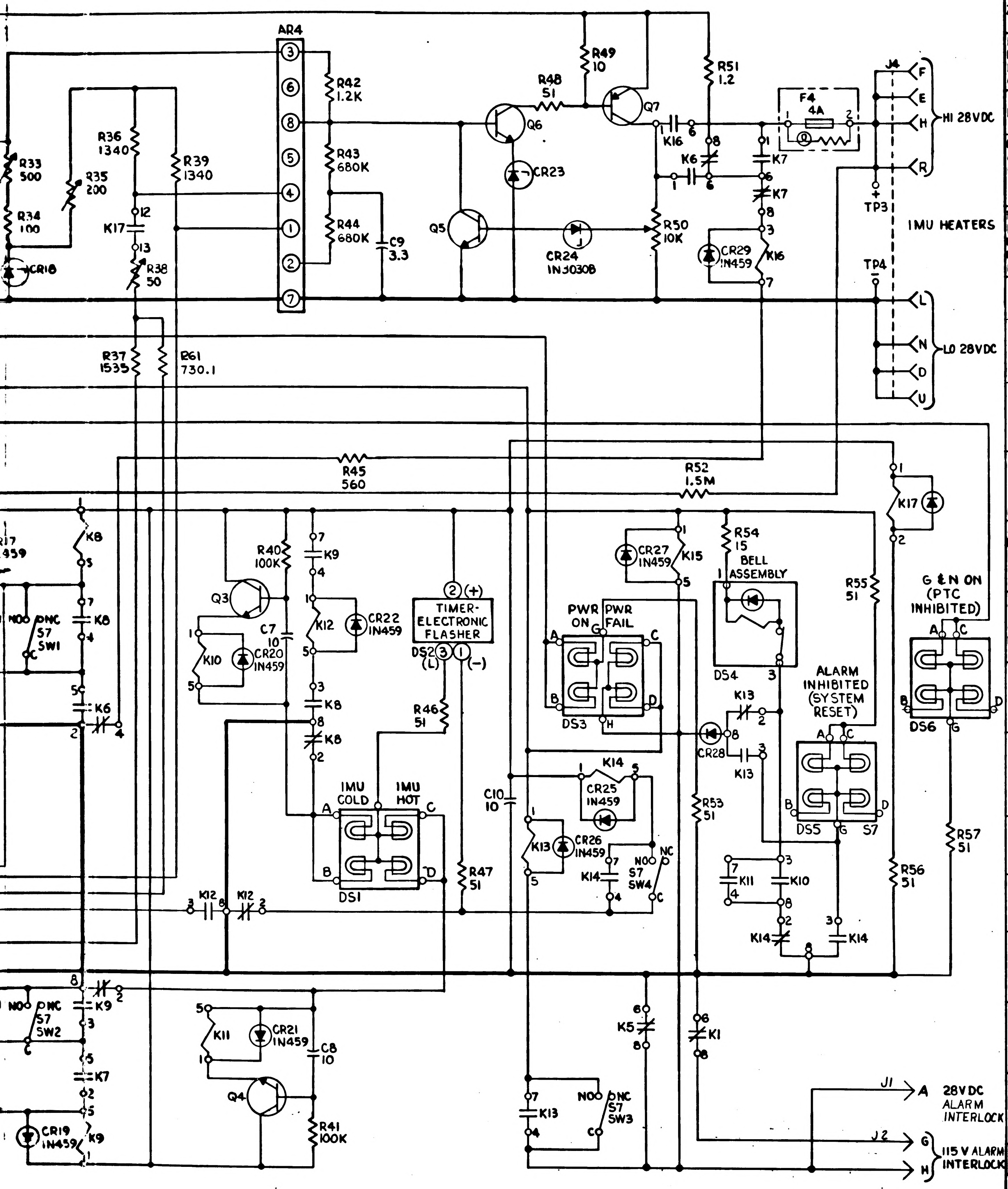
LEAD SET AA 2901532

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 123	1	6.00	R12-RED					.30	YES			
			R12-YEL					.30	YES		7	
AA 124	1	12.00	K7-4					.30	YES		7	
			K3-4					.30	YES			
AA 125	1	12.00	K7-6					.30	YES		7	
			K3-3					.30	YES			
AA 128	1	24.00	E3					.30	NO		4	
			E4					.30	NO		9	
AA 129	1	12.00	XDS6-2					.30	YES			
			XDS5-2					.30	YES			
AA 130	1	12.00	XDS2-1					.30	YES			
			TP2					.30	YES			
AA 131	1	12.00	K3-4					.30	YES			
			L1-2					.30	YES			
AA 132	1	6.00	R5-2					.30	YES			
			R15-2					.30	YES		6	
AA 133	1	36.00	R15-1					.30	YES		7	
			S8-2NO					.30	YES			
AA 134	1	6.00	R15-2					.30	YES			
			R16-2					.30	YES		7	
AA 135	1	36.00	R16-1					.30	YES		7	
			S9-2NO					.30	YES			

SIZE	CODE IDENT NO.	
A	99974	2901532
SCALE-NONE	REV LTR #B	SHEET 14 OF 14

MIL 2084 9-65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG. NO.	DATE	APPD
A		REVISED PER DQ 62420		14 OCT 66	
B		INITIAL RELEASE CLASS A PER TDRR 32123			



AR4
R42 1.2K
R43 680K
R44 680K
C9 3.3
R33 500
R34 100
R35 200
R36 1340
R39 1340
K17
R38 50
CR18
R37 1535
R61 730.1
R45 560
R48 51
R49 10
R51 1.2
Q5
Q6
Q7
CR23
CR24 1N3030B
R50 10K
K16
K6
K7
CR29 1N459
F4 4A
J4
HI 28VDC
TP3
TP4
IMU HEATERS
LO 28VDC
R52 1.5M
K17
G & N ON (PTC INHIBITED)
DS6
K8
S7 SW1
K6
R40 100K
Q3
C7 10
K10
CR20 1N459
K9
K12
CR22 1N459
TIMER-ELECTRONIC FLASHER
DS2
R46 51
IMU COLD
IMU HOT
DS1
R47 51
K12
CR27 1N459
K15
R54 15
BELL ASSEMBLY
DS54
PWR ON
PWR FAIL
DS3
R55 51
ALARM INHIBITED (SYSTEM RESET)
DS5
K13
CR28
C10 10
K14
CR25 1N459
R53 51
K13
CR26 1N459
S7 SW4
K11
K10
K14
R57 51
R56 51
K9
S7 SW2
K7
CR19 1N459
K11
CR21 1N459
C8 10
Q4
R41 100K
K5
K1
K13
S7 SW3
J1
28VDC ALARM INTERLOCK
J2
115 V ALARM INTERLOCK

PARTS TABLE

ZONE	REF. DES.	PART NUMBER	DESCRIPTION	SCHEM DIAG OR VALUE, TOL & RATING
E-11	AR1	1897261	COMPARATOR	28VDC, 50MA
B-10	2			
D-10	3			
G-8	4			
F-11	BT1 THRU BT8	1897268-001	BATTERY	4.0 VOLTS
F-12	C 1	CTM104VBK(1896957-046)	CAP MIL-C-27287/1	0.1 UF, ±10% 200VDC
C-12	2	CS13BE156K(1896954-103)	MIL-C-26655/2	15 ±10% 20
F-11	3	CE71C562G(1896872-119)	MIL-C-62/12	5600 +75 -10% 50
C-10	5	CS13BB157K(-060)		150 6
B-10	6	CS13BB157K(-060)		150 6
D-8	7	CS13BF106K(-144)		10 35
B-8	8	CS13BF106K(-144)		10 35
F-8	9	CS13BD335K(-082)		3.3 15
D-7	10	CS13BG106K(-176)		10 50
D-10	C11	CS13BF476K(-156)		47 35
B-10	C12			
C-11	C13			
F-11	C14	CL25BL700UP3(1897081-324)	CAP MIL-C-3965/2A	70 +75-15% .75V
G-11	CR1	1015967-001	SEMI-CONDUCTOR (DIODE)	
G-12	2	1015937-001		
G-12	3	1897277-001		
F-12	4	1897277-001		
C-12	5	1N459(1896966-291)	MIL-S-19500/193A	
H-12	6	1015937-001		
G-11	7	1N2976B(1896966-075)		12V, 210MA
G-11	8	1015937-001		
F-11	9	1N3025B(1896966-187)	MIL-S-19500/115D	
H-12	10	1N459(1896966-291)	MIL-S-19500/193A	
E-11	11	1N459 (1896966-291)	MIL-S-19500/193A	
D-11	12	1897251-004		
D-11	13	1N3029B(1896966-069)	MIL-S-19500/115D	
F-10	14	1N3029B(-069)	/115D	
D-10	15	1N459 (-291)	/193A	
A-10	16			
E-9	17			
F-9	18	1897251-004		
A-9	19	1N459 (1896966-291)	MIL-S-19500/193A	
D-8	20			
B-8	21			
D-8	22			
G-7	23	1015939-008		
F-7	24	1N3030B(1896966-070)	MIL-S-19500/115D	
D-7	25	1N459 (-291)	/193A	
C-7	26			
E-7	27			
D-6	28	1015937-001		
F-6	29	1N459 (1896966-291)	MIL-S-19500/193A	
G-11	30			
G-12	31			
C-8	DS1	(4) MS25237-327	LAMP INCANDESCENT	
D-8	2	1015925-002	TIMER-ELEC FLASHER	
D-7	3	(4) MS25237-327	LAMP INCANDESCENT	
D-6	4	2900528	BELL ASSEMBLY	
C-6	5	(4) MS25237-327	LAMP INCANDESCENT	
D-5	6	(4) MS25237-327	LAMP INCANDESCENT	
H-12	F 1	F02A250V4AS(1897099-113)	FUSE-MIL-F-15160/02	4A, 250V
G-12	2	F02B125V2AS(-129)		2A, 125V
G-12	3	(-129)		
G-6	4	F02A250V4AS(-113)		4A, 250V
H-13	J 1	MS3127E-14-12P(1897115-120)	CONNECTOR	
F-13	2	-14-12PW(1897115-121)		
F-13	3	-12-10P(1897119-100)		
F-13	4	-18-32S(1897122-320)		
G-12	K 1	1015982-003	RELAY	115V, 2PDT
C-11	3	1015982-004		28V,
E-11	4	1015832-318		5.6MA,
G-10	5	1015802-004		28V,
D-10	6	1015982-007		28V,
B-10	7	1015982-007		28V,
E-9	8	1015832-318		5.6MA,
A-9	9	-		
D-9	10	-		
B-9	11	-		
D-8	12	-		
C-7	13	-		
D-7	14	-		
E-7	15	-		5.6MA,
F-6	16	1015982-007		28V, 2PDT
E-6	17	1015837-001		28V, 6PDT
G-12	18	1015982-007	RELAY	28V, 2PDT
	XDS1	1015869-783	LIGHT INDICATOR	
	XDS3	-785	LIGHT INDICATOR	
	XDS5	-748	IND. LT SW ASSY	
	XDS6	1897337-101	LIGHT INDICATOR	
	XF1	1015873-009	FUSEHOLDER	
	XF2	-001		
	XF3	-001		
	XF4	1015873-008	FUSEHOLDER	
C-12	M 1	1016080-514	METER	10-0-10 ua
D-11	Q 1	1015928-001	TRANSISTOR	
G-10	2			
D-8	3			
B-8	4			
F-7	5	1015935-		
G-7	6	1015928-		
G-7	7	1897309-		
B-13	R 1	1016053-023	RESISTOR	2964 ±.01%
C-13	2	1897260-007	-VAR	1K ±5%
B-13	3	1016053-020		2722.4 ±.01%
D-12	4	RC20GF474J(1896952-121)		470K ±5%
D-12	5	RC20GF332J(1896952-061)		3.3K ±5%
C-12	6	RN60C1541F(1896976-307)		1.54K ±1%
C-12	7	RN60C1002F(1896976-385)		10K ±1%
B-12	8	1016053-005		2504.5 ±.01%
C-12	9	RC20GF155J(1896952-125)		1.5M ±5%
B-12	10	1016053-029		2201.3 ±.01%
G-12	11	RC20GF301J(1896952-036)		300 ±5%
B-12	12	1016053-004		2133.5 ±.01%
D-11	13	RN60C1503F(1896976-498)		150K ±1%
F-11	14	RW55V201 (1896928-068)		200 ±5%
B-11	15	1016053-021		6295.5 ±.01%
E-11	16	1897260-008	-VAR	2K ±5%
D-11	17	RN60C1400C(1896984-250)		140 ±.25%
D-11	18	1897260-006	-VAR	500 ±5%
C-11	19	1897260-006	-VAR	500 ±5%
C-11	20	RC20GF301J(1896952-036)		300 ±5%
B-11	21	1016053-021		6295.5 ±.01%
B-11	22	1016053-005		2504.5 ±.01%
E-11	23	RC20GF102J(1896952-049)		1K ±5%
C-10	24	RC32GF151J(1896953-043)		150 ±5%
E-10	25	RC32GF101J(1896953-039)		100 ±5%
B-10	26	RN60C1502F(1896984-402)		15K ±1%
B-10	27	1897260-013	-VAR	50K ±5%
D-10	28	1897260-013	-VAR	50K ±5%
D-10	29	RN60C1502F(1896984-402)		15K ±1%
C-10	30	RC20GF102J(1896952-049)		1K ±5%
D-10	31	RC20GF301J(1896952-036)		300 ±5%
B-10	32	RC20GF301J(1896952-036)		300 ±5%
G-9	33	1897260-006	-VAR	500 ±5%
F-9	34	RN60C1000C(1896984-222)		100 ±.25%
F-9	35	1897260-005	-VAR	200 ±5%
G-9	36	1016053-019		1340 ±.01%
F-9	37	1016053-012		1535 ±.01%
F-9	38	1897260-003	-VAR	50 ±5%
G-9	39	1016053-019		1340 ±.01%
E-8	40	RC20GF104J(1896952-097)		100K ±5%
B-8	41	RC20GF104J(1896952-097)		100K
G-8	42	RC20GF122J(1896952-051)		1.2K
G-8	43	RC20GF684J(1896952-117)		680K
F-8	44	RC20GF684J(1896952-117)		680K
E-8	45	RC32GF561J(1896953-057)		560
D-8	46	RC42GF510J(1896951-018)		51
C-7	47	RC32GF510J(1896953-032)		51
G-7	48	RC42GF510J(1896951-018)		51
G-7	49	RC20GF100J(1896952-001)		10
F-7	50	1897260-010	-VAR	10K ±5%
G-6	51	RE70G1R21 (1897094-105)		1.2 ±1%
E-6	52	RC20GF155J (1896952-125)		1.5M ±5%
D-6	53	RC32GF510J (1896953-032)		51
E-6	54	RC42GF150J (1896951-005)		15
E-6	55	RC32GF510J (1896953-032)		51
C-6	56	RC42GF510J (1896951-018)		51
C-5	57	RC32GF510J (1896953-032)		51
D-12	58	RC20GF474J (1896952-113)		470K
D-10	59	RC20GF205J (1896952-128)		2M
B-10	60	RC20GF205J (1896952-128)		2M ±5%
F-9	61	1016053-024		730.1 ±.01%
B-11	62	RN60C4992F (1896976-452)		49.9K ±1%
G-12	63	RC20GF431J(1896952-040)	RESISTOR	430 ±5%
H-13	S1	1015825-036	SWITCH	
B-13	S2	1021575		
B-13	S3			
B-12	S4			
B-12	S5			
B-11	S6	1021575		
D-9	S7	SEE DS5	SWITCH	
G-12	T1	1897410	TRANSFORMER	
F-10	TP1	1016166-004	TEST JACK	
G-10	TP2	-006		
G-6	TP3	-004		
F-6	TP4	1016166-006	TEST JACK	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.
DO NOT SCALE THIS DRAWING	DRAWN Gruenewald DATE 28 JUN 66
MATERIAL —	CHECKED Teeler 5-11-66
APPROVAL	APPROVAL 11-17-66
	CONTRACT NAS 9-497
	NASA APPROVAL
	APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM
BLOCK Ⅱ PTC
(PORTABLE TEMPERATURE CONTROLLER)
(2900060-021)

CODE IDENT NO. 99974 2901543

SHEET 1 OF 1

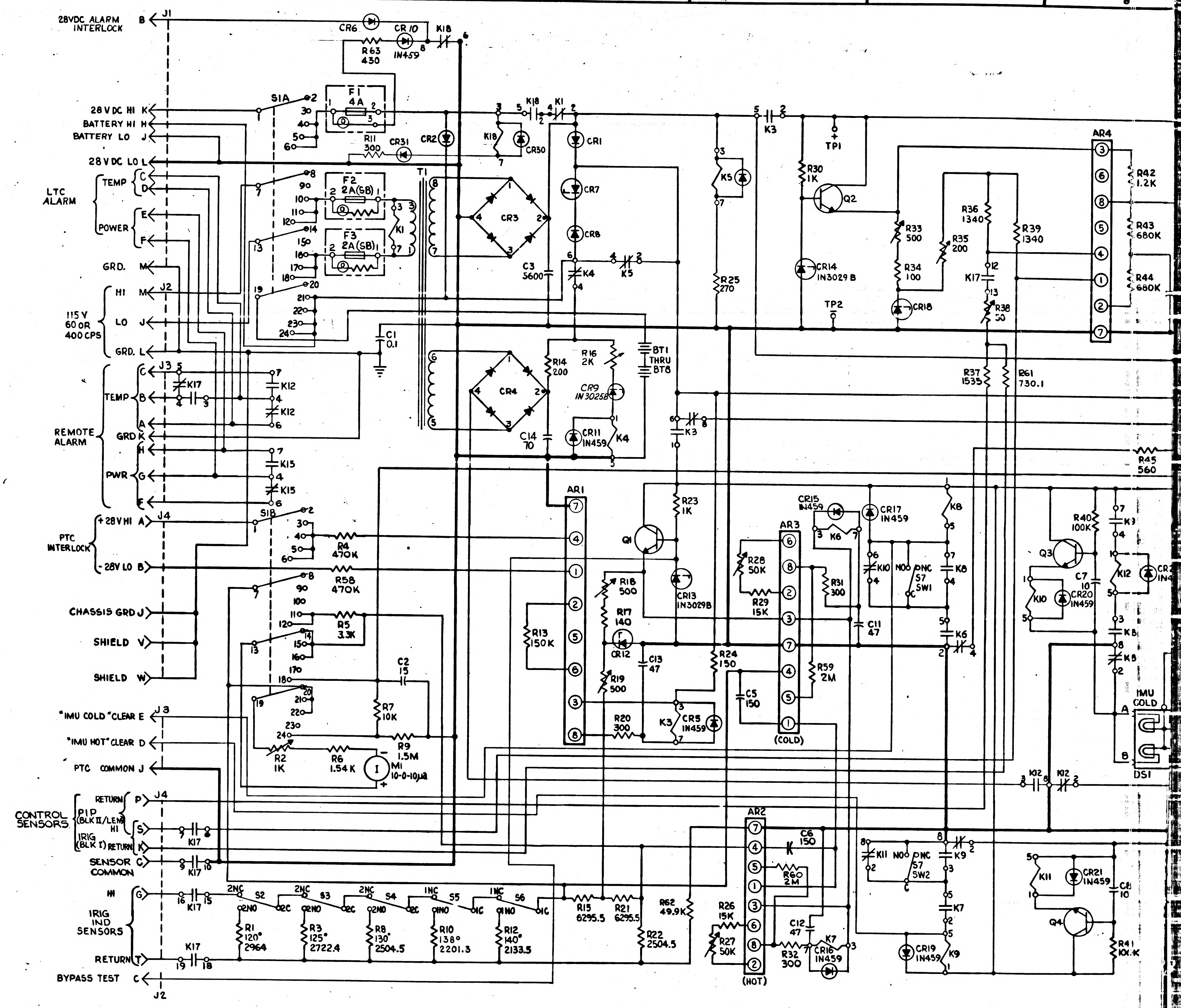
2901543 REV B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

   2900060-021 PORTABLE TEMPERATURE CONTROLLER ASSEMBLY

4. UNLESS OTHERWISE SPECIFIED:
   - A. RELAYS AND SWITCHES ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   - B. VALUES ARE IN OHMS AND MICROFARADS.


28VDC ALARM INTERLOCK
J1
28 V DC HI
BATTERY HI
BATTERY LO
28 V DC LO
LTC ALARM
TEMP
POWER
GRD.
J2
115 V 60 OR 400 CPS
HI
LO
GRD.
J3
REMOTE ALARM
TEMP
GRD
PWR
J4
PTC INTERLOCK
+28V HI
-28V LO
CHASSIS GRD
SHIELD
SHIELD
"IMU COLD" CLEAR
"IMU HOT" CLEAR
PTC COMMON
CONTROL SENSORS
RETURN
PIP (BLK II/LEM) HI
IRIG (BLK I) RETURN
SENSOR COMMON
IRIG IND SENSORS
HI
RETURN
BYPASS TEST
S1A
S1B
F1 4A
F2 2A(SB)
F3 2A(SB)
R63 430
CR6
CR10 1N459
K18
R11 300
CR31
CR2
CR30
K1
T1
CR3
CR4
CR1
CR7
CR8
C3 5600
K4
K5
C1 0.1
R14 200
R16 2K
CR9 1N3025B
BT1 THRU BT8
C14 70
CR11 1N459
K3
R25 270
TP1
TP2
R30 1K
Q2
CR14 1N3029 B
R33 500
R34 100
CR18
R35 200
R36 1340
R39 1340
K17
R38 50
R37 1535
R61 730.1
AR4
R42 1.2K
R43 680K
R44 680K
R45 560
AR1
R4 470K
R58 470K
R5 3.3K
C2 15
R7 10K
R9 1.5M
R2 1K
R6 1.54 K
M1 10-0-10μa
R13 150K
Q1
R23 1K
CR13 1N3029B
R18 500
R17 140
CR12
C13 47
R19 500
R20 300
R24 150
CR5 1N459
AR3 (COLD)
R28 50K
R29 15K
R31 300
C11 47
R59 2M
C5 150
CR15 1N459
CR17 1N459
K6
K10
S7 SW1
K8
R40 100K
Q3
C7 10
K12
CR20 1N459
IMU COLD
IMU HOT
DS1
S2
S3
S4
S5
S6
R1 120° 2964
R3 125° 2722.4
R8 130° 2504.5
R10 138° 2201.3
R12 140° 2133.5
R15 6295.5
R21 6295.5
R22 2504.5
R62 49.9K
AR2 (HOT)
C6 150
R60 2M
R26 15K
R27 50K
C12 47
R32 300
CR16 1N459
K7
K11
S7 SW2
K9
CR19 1N459
CR21 1N459
C8 10
Q4
R41 100K

2901543 REV C SH 1 OF 1

1/2901543

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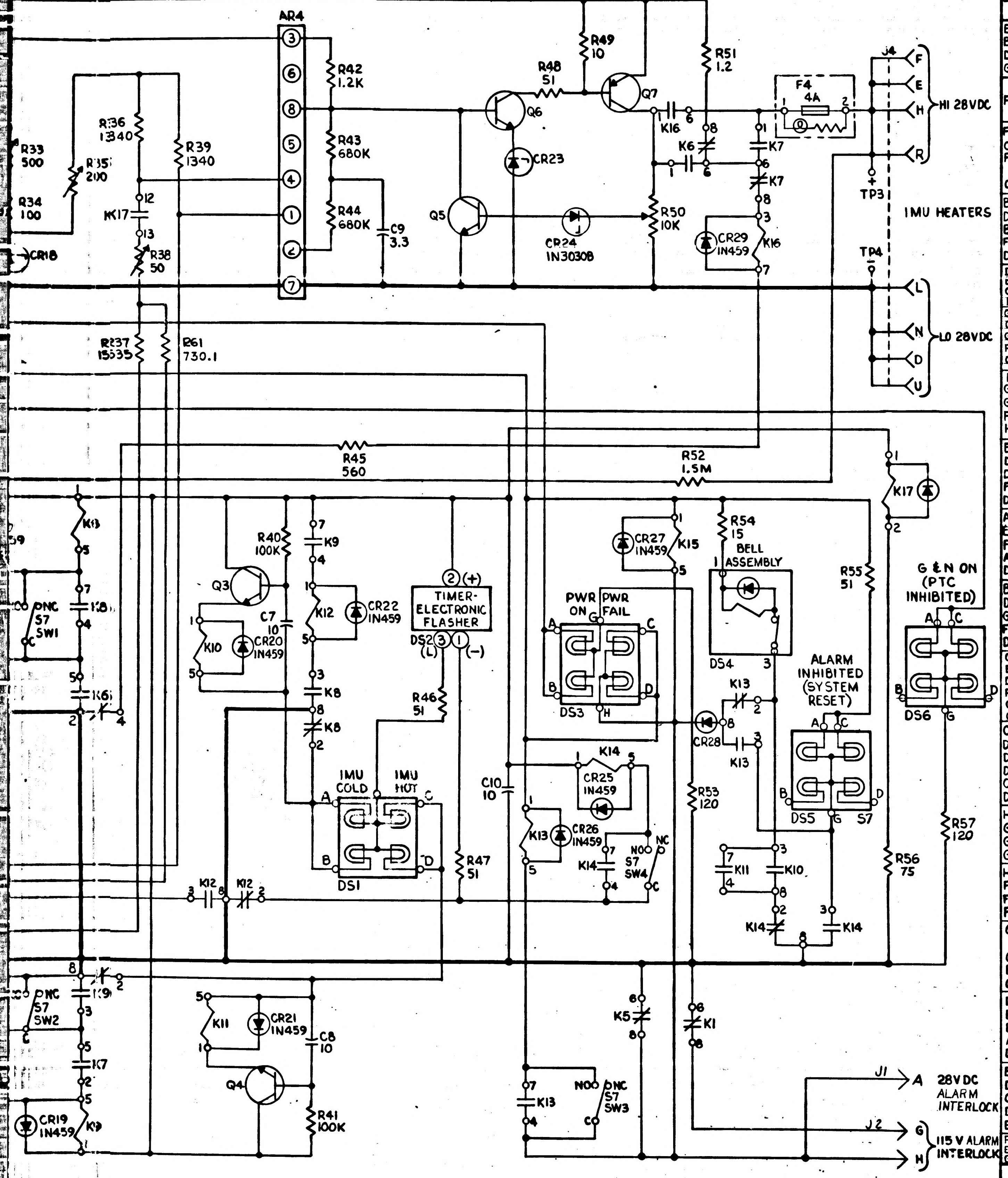
341


AR4
R42 1.2K
R43 680K
R44 680K
C9 3.3
R49 10
R48 51
R51 1.2
Q6
Q7
CR23
Q5
CR24 1N3030B
R50 10K
F4 4A
K16
K6
K7
CR29 1N459
J4
HI 28VDC
TP3
TP4
IMU HEATERS
LO 28VDC
R33 500
R35 200
R36 1340
R39 1340
R34 100
K17
R38 50
CR18
R237 1535
R61 730.1
R45 560
R52 1.5M
K17
R40 100K
K9
Q3
C7 10
K12
CR22 1N459
K10
CR20 1N459
TIMER-ELECTRONIC FLASHER
DS2
K8
R46 51
IMU COLD
IMU HOT
DS1
R47 51
CR27 1N459
K15
R54 15
BELL ASSEMBLY
DS4
PWR ON
PWR FAIL
DS3
R55 51
G & N ON (PTC INHIBITED)
DS6
ALARM INHIBITED (SYSTEM RESET)
K13
CR28
DS5
S7
R57 120
R53 120
K14
CR25 1N459
C10 10
K13
CR26 1N459
S7 SW4
K11
K10
K14
R56 75
S7 SW1
K6
K12
S7 SW2
K9
K7
CR19 1N459
K11
CR21 1N459
C8 10
Q4
R41 100K
K5
K1
K13
S7 SW3
J1
28VDC ALARM INTERLOCK
J2
115 V ALARM INTERLOCK

PARTS TABLE

ZONE	REF. DES.	PART NUMBER	DESCRIPTION	SCHEM DIAG OR VALUE, TOL & RATING
E-11	AR1	1897261	COMPARATOR	28VDC, 50MA
B-10	2			
D-10	3			
G-8	4			
F-11	BT1 THRU BT8	1897268-001	BATTERY	4.0 VOLTS
F-12	C1	CTM104VBK(1896957-046)	CAP MIL-C-27287/1	0.1 UF, ±10% 200VDC
C-12	2	CS13BE156K(1896954-103)	MIL-C-26655/2	15 ±10% 20
F-11	3	CE71C562G(1896872-119)	MIL-C-62/12	5600 [illegible] 50
C-10	5	CS13BB157K(-060)		150 6
B-10	6	CS13BB157K(-060)		150 6
D-8	7	CS13BF106K(-144)		10 35
B-8	8	CS13BF106K(-144)		10 35
F-8	9	CS13BD335K(-082)		3.3 15
D-7	10	CS13BG106K(-176)		10 50
D-10	C11	CS13BF476K(-156)		47 35
D-10	C12			
C-11	C13			
F-11	C14	CL25BL700UP3 (1897081-324)	CAP MIL-C-3965/2A	70 +75-15% [illegible]
G-11	CR1	1015967-001	SEMI-CONDUCTOR (DIODE)	
G-12	2	1015937-001		
G-12	3	1897277-001		
F-12	4	1897277-001		
C-12	5	IN459 (1896966-291)	MIL-S-19500/193A	
H-12	6	1015937-001		
G-11	7	IN2976B(1896966-075)		12V, 210MA
G-11	8	1015937-001		
F-11	9	IN3025B(1896966-187)	MIL-S-19500/1150	
H-12	10	IN459(1896966-291)	MIL-S-19500/193A	
E-11	11	IN459 (1896966-291)	MIL-S-19500/193A	
D-11	12	1897251-004		
D-11	13	IN3029B(1896966-069)	MIL-S-19500/1150	
F-10	14	IN3029B(-069)	/1150	
D-10	15	IN459 (-291)	/193A	
A-10	16			
E-9	17			
F-9	18	1897251-004		
A-9	19	IN459 (1896966-291)	MIL-S-19500/193A	
D-8	20			
B-8	21			
D-8	22			
G-7	23	1015939-008		
F-7	24	IN3030B(1896966-070)	MIL-S-19500/1150	
D-7	25	IN459 (-291)	/193A	
C-7	26			
E-7	27			
D-6	28	1015937-001		
F-6	29	IN459 (1896966-291)	MIL-S-19500/193A	
G-11	30			
G-12	31			
C-8	DS1	(4) MS25237-327	LAMP INCANDESCENT	
D-8	2	1015925-002	TIMER-ELEC FLASHER	
D-7	3	(4) MS25237-327	LAMP INCANDESCENT	
D-6	4	2900528	BELL ASSEMBLY	
C-6	5	(4) MS25237-327	LAMP INCANDESCENT	
D-5	6	(4) MS25237-327	LAMP INCANDESCENT	
H-12	F1	F02A250V4AS(1897099-113)	FUSE-MIL-F-15160/02	4A, 250V
G-12	2	F02B125V2AS(-129)		2A, 125V
G-12	3	(-129)		
G-6	4	F02A250V4AS(-113)		4A, 250V
H-13	J1	MS3127E-14-12P(1897115-120)	CONNECTOR	
F-13	2	-14-12PW(1897115-121)		
F-13	3	-12-10P(1897119-100)		
F-13	4	-18-32S(1897122-320)		
G-12	K1	1015982-003	RELAY	115V, 2PDT
C-11	3	1015982-004		28V.
E-11	4	1015832-318		5.6MA,
G-10	5	1015802-004		28V,
D-10	6	1015982-007		28V,
B-10	7	1015982-007		28V,
E-9	8	1015832-318		5.6MA,
A-9	9	-		
D-9	10	-		
B-9	11	-		
D-8	12	-		
C-7	13	-		
D-7	14	-		
E-7	15	-		5.6MA,
F-6	16	1015982-007		28V, 2PDT
E-6	17	1015837-001		28V, 6PDT
G-12	18	1015982-007	RELAY	28V, 2PDT
	XDS1	1015869-783	LIGHT INDICATOR	
	XDS3	-785	LIGHT INDICATOR	
	XDS5	-748	IND. LT SW ASSY	
	XDS6	1897337-101	LIGHT INDICATOR	
	XF1	1015873-009	FUSEHOLDER	
	XF2	-001		
	XF3	-001		
	XF4	1015873-008	FUSEHOLDER	
C-12	M1	1016080-514	METER	10-0-10 µa
D-11	Q1	1015928-001	TRANSISTOR	
G-10	2			
D-8	3			
B-8	4			
F-7	5	1015935-		
G-7	6	1015928-		
G-7	7	1897309-		
B-13	R1	1016053-023	RESISTOR	2964 ±.01%
C-13	2	1897260-007	-VAR	1K ±5%
B-13	3	1016053-020		2722.4 ±.01%
D-12	4	RC20GF474J(1896952-121)		470K ±5%
D-12	5	RC20GF332J(1896952-061)		3.3K ±5%
C-12	6	RN60C1541F(1896976-307)		1.54K ±1%
C-12	7	RN60C1002F(1896976-385)		10K ±1%
B-12	8	1016053-005		2504.5 ±.01%
C-12	9	RC20GF155J(1896952-125)		1.5M ±5%
B-12	10	1016053-029		2201.3 ±.01%
G-12	11	RC20GF301J(1896952-036)		300 ±5%
B-12	12	1016053-004		2133.5 ±.01%
D-11	13	RN60C1503F(1896976-498)		150K ±1%
F-11	14	RW55V201 (1896928-068)		200 ±5%
B-11	15	1016053-021		6295.5 ±.01%
E-11	16	1897260-008	-VAR	2K ±5%
D-11	17	RN60C1400C(1896984-250)		140 ±.25%
D-11	18	1897260-006	-VAR	500 ±5%
C-11	19	1897260-006	-VAR	500 ±5%
C-11	20	RC20GF301J(1896952-036)		300 ±5%
B-11	21	1016053-021		6295.5 ±.01%
B-11	22	1016053-005		2504.5 ±.01%
E-11	23	RC20GF102J(1896952-049)		1K ±5%
C-10	24	RC32GF151J(1896953-043)		150 ±5%
E-10	25	RC32GF271J(1896953-049)		270 ±5%
B-10	26	RN60C1502F(1896984-402)		15K ±1%
B-10	27	1897260-013	-VAR	50K ±5%
D-10	28	1897260-013	-VAR	50K ±5%
D-10	29	RN60C1502F(1896984-402)		15K ±1%
C-10	30	RC20GF102J(1896952-049)		1K ±5%
D-10	31	RC20GF301J (1896952-036)		300 ±5%
B-10	32	RC20GF301J (1896952-036)		300 ±5%
G-9	33	1897260-006	-VAR	500 ±5%
F-9	34	RN60C1000C(1896984-222)		100 ±.25%
F-9	35	1897260-005	-VAR	200 ±5%
G-9	36	1016053-019		1340 ±.01%
F-9	37	1016053-012		1535 ±.01%
F-9	38	1897260-003	-VAR	50 ±5%
G-9	39	1016053-019		1340 ±.01%
E-8	40	RC20GF104J(1896952-097)		100K ±5%
B-8	41	RC20GF104J(1896952-097)		100K
G-8	42	RC20GF122J(1896952-051)		1.2K
G-8	43	RC20GF684J(1896952-117)		680K
F-8	44	RC20GF684J(1896952-117)		680K
E-8	45	RC32GF561J(1896953-057)		560
D-8	46	RC42GF510J (1896951-018)		51
C-7	47	RC32GF510J (1896953-032)		51
G-7	48	RC42GF510J (1896951-018)		51
G-7	49	RC20GF100J (1896952-001)		10
F-7	50	1897260-010	-VAR	10K ±5%
G-6	51	RE70G1R21 (1897094-105)		1.2 ±1%
E-6	52	RC20GF155J (1896952-125)		1.5M ±5%
D-6	53	RC42GF121J (1896951-027)		120 ±5%
E-6	54	RC42GF150J (1896951-005)		15
E-6	55	RC32GF510J (1896953-032)		51
C-6	56	RC42GF750J (1896951-022)		75 ±5%
C-5	57	RC42GF121J (1896951-027)		120 ±5%
D-12	58	RC20GF474J (1896952-113)		470K
D-10	59	RC20GF205J (1896952-128)		2M
B-10	60	RC20GF205J (1896952-128)		2M ±5%
F-9	61	1016053-024		730.1 ±.01%
B-11	62	RN60C4992F (1896976-452)		49.9K ±1%
G-12	63	RC20GF431J(1896952-040)	RESISTOR	430 ±5%
H-13	S1	1015825-036	SWITCH	
B-13	S2	1021575		
B-13	S3			
B-12	S4			
B-12	S5			
B-11	S6	1021575		
D-9	S7	SEE DS5	SWITCH	
G-12	T1	1897410	TRANSFORMER	
F-10	TP1	1016166-004	TEST JACK	
G-10	TP2	-006		
G-6	TP3	-004		
F-6	TP4	1016166-006	TEST JACK	

REVISIONS

SYM	ZONE	DESCRIPTION	CHG. NO.	DATE	APPD
A		REVISED PER DQ 62420		14 OCT -66	DG
B		INITIAL RELEASE CLASS A PER TDRR 32123		9/28/66	
C		REVISED PER TDRR 32735		26 JAN 67	LL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Gruenwald DATE 28 JUN 66
CHECKED Fesler 5-11-66
APPROVAL J. M. Watkins 11-17-66
CONTRACT NAS 9-497
NASA APPROVAL
CCB APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

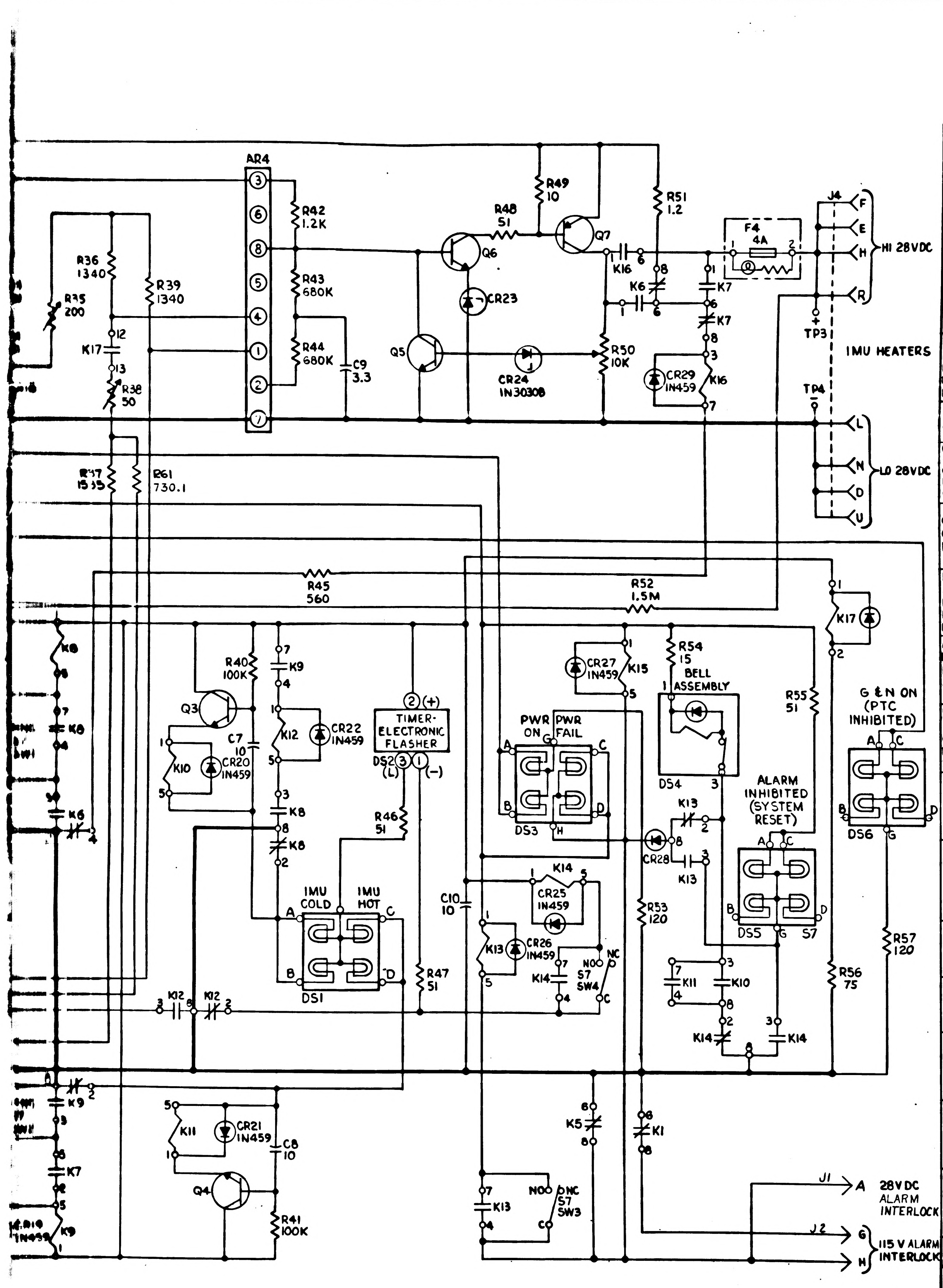
SCHEMATIC DIAGRAM
BLOCK II PTC
(PORTABLE TEMPERATURE CONTROLLER)
(2900060-021)

CODE IDENT NO. 99974
2901543
NONE
SHEET 1 OF 1

2901543 REV C SH 1 OF 1

2/2901543

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG. NO.	DATE	APPD
A		REVISED PER DQ 62420		14 OCT -66	DC
B		INITIAL RELEASE CLASS A PER TDRR 3			
C		REVISED PER TDRR 32736		26 JAN 67	LL
D		REVISED PER TDRR 33734		11 JULY 67	



AR4
R42 1.2K
R43 680K
R44 680K
C9 3.3
R36 1340
R39 1340
R35 200
K17
R38 50
R47 1535
R61 730.1
R48 51
R49 10
R51 1.2
Q5
Q6
Q7
CR23
CR24 1N3030B
R50 10K
K16
K6
K7
CR29 1N459
F4 4A
J4
HI 28VDC
TP3
IMU HEATERS
TP4
LO 28VDC
R45 560
R52 1.5M
R40 100K
Q3
K9
K12
CR22 1N459
C7 10
K10
CR20 1N459
TIMER-ELECTRONIC FLASHER
DS2
R46 51
K8
IMU COLD
IMU HOT
DS1
C10 10
R47 51
PWR ON
PWR FAIL
DS3
CR27 1N459
K15
R54 15
BELL ASSEMBLY
DS4
R55 51
G & N ON (PTC INHIBITED)
DS6
K13
CR28
ALARM INHIBITED (SYSTEM RESET)
DS5
S7
K14
CR25 1N459
CR26 1N459
S7 SW4
R53 120
K11
R57 120
R56 75
CR21 1N459
C8 10
Q4
R41 100K
K5
K1
S7 SW3
J1
28VDC ALARM INTERLOCK
J2
115 V ALARM INTERLOCK

PARTS TABLE

ZONE	REF. DES.	PART NUMBER	DESCRIPTION	SCHEM DIAG OR VALUE, TOL & RATING
E-11	AR1	1897261	COMPARATOR	28VDC, 50MA
B-10	2			
D-10	3			
G-8	4			
F-11	BT1 THRU BT8	1897268-001	BATTERY	4.0 VOLTS
F-12	C 1	CTM104VBK(1896957-046)	CAP MIL-C-27287/1	0.1 UF ±10% 200VDC
C-12	2	CS13BE156K(1896954-103)	MIL-C-26655/2	15 ±10% 20
F-11	3	CE71C562G(1896872-119)	MIL-C-62/12	5600 ±2% 50
C-10	5	CS13BB157K(-060)		150 6
B-10	6	CS13BB157K(-060)		150 6
D-8	7	CS13BF106K(-144)		10 35
B-8	8	CS13BF106K(-144)		10 35
F-8	9	CS13BD335K(-082)		3.3 15
D-7	10	CS13BG106K(-176)		10 50
D-10	C11	CS13BF476K(-156)		47 35
B-10	C12			
C-11	C13			
F-11	C14	CL25BL700UP3 (1897081-324)	CAP MIL-C-3965/2A	70 +75-15% 75V
G-11	CR1	1015967-001	SEMI-CONDUCTOR (DIODE)	
G-12	2	1015937-001		
G-12	3	1897277-001		
F-12	4	1897277-001		
C-12	5	IN459 (1896966-291)	MIL-S-19500/193A	
H-12	6	1015937-001		
G-11	7	IN2976B(1896966-075)		12V, 210MA
G-11	8	1015937-001		
F-11	9	IN3025B(1896966-187)	MIL-S-19500/115D	
H-12	10	IN459(1896966-291)	MIL-S-19500/193A	
E-11	11	IN459 (1896966-291)	MIL-S-19500/193A	
D-11	12	1897251-004		
D-11	13	IN3029B(1896966-069)	MIL-S-19500/115D	
F-10	14	IN3029B(-069)	/115D	
D-10	15	IN459 (-291)	/193A	
A-10	16			
E-9	17			
F-9	18	1897251-004		
A-9	19	IN459 (1896966-291)	MIL-S-19500/193A	
D-8	20			
B-8	21			
D-8	22			
G-7	23	1015939-008		
F-7	24	IN3030B(1896966-070)	MIL-S-19500/115D	
D-7	25	IN459 (-291)	/193A	
C-7	26			
E-7	27			
D-6	28	1015937-001		
F-6	29	IN459 (1896966-291)	MIL-S-19500/193A	
G-11	30			
G-12	31			
C-8	DS1	(4) MS25237-327	LAMP INCANDESCENT	
D-8	2	1015925-002	TIMER-ELEC FLASHER	
D-7	3	(4) MS25237-327	LAMP INCANDESCENT	
D-6	4	2900528	BELL ASSEMBLY	
C-6	5	(4) MS25237-327	LAMP INCANDESCENT	
D-5	6	(4) MS25237-327	LAMP INCANDESCENT	
H-12	F 1	F02A250V4AS(1897099-113)	FUSE-MIL-F-15160/02	4A, 250V
G-12	2	F02B125V2AS(-129)		2A, 125V
G-12	3	(-129)		
G-6	4	F02A250V4AS(-113)		4A, 250V
H-13	J 1	MS3127E-14-12P(1897115-120)	CONNECTOR	
F-13	2	-14-12PW(1897115-121)		
F-13	3	-12-10P(1897119-100)		
F-13	4	-18-32S(1897122-320)		
G-12	K 1	1015982-003	RELAY	115V, 2PDT
C-11	3	1015982-004		28V,
E-11	4	1015832-318		5.6MA,
G-10	5	1015802-004		28V,
D-10	6	1015982-007		28V,
B-10	7	1015982-007		28V,
E-9	8	1015832-318		5.6MA,
A-9	9	-		
D-9	10	-		
B-9	11	-		
D-8	12	-		
C-7	13	-		
D-7	14	-		
E-7	15	-		5.6MA,
F-6	16	1015982-007		28V, 2PDT
E-6	17	1015837-001		28V, 6PDT
G-12	18	1015982-007	RELAY	28V, 2PDT
	XDS1	1015869-783	LIGHT INDICATOR	
	XDS3	-785	LIGHT INDICATOR	
	XDS5	-748	IND. LT SW ASSY	
	XDS6	1897337-101	LIGHT INDICATOR	
	XF1	1015873-009	FUSEHOLDER	
	XF2	-001		
	XF3	-001		
	XF4	1015873-008	FUSEHOLDER	
C-12	M 1	1016080-514	METER	10-0-10 μa
D-11	Q 1	1015928-001	TRANSISTOR	
G-10	2			
D-8	3			
B-8	4			
F-7	5	1015935-		
G-7	6	1015928-		
G-7	7	1897309-		
B-13	R 1	1016053-023	RESISTOR	2964 ±.01%
C-13	2	1897260-007	-VAR	1K ±5%
B-13	3	1016053-020		2722.4 ±.01%
D-12	4	RC20GF474J(1896952-121)		470K ±5%
D-12	5	RC20GF332J(1896952-061)		3.3K ±5%
C-12	6	RN60C1541F(1896976-307)		1.54K ±1%
C-12	7	RN60C1002F(1896976-385)		10K ±1%
B-12	8	1016053-005		2504.5 ±.01%
C-12	9	RC20GF155J(1896952-125)		1.5M ±5%
B-12	10	1016053-029		2201.3 ±.01%
G-12	11	RC20GF301J(1896952-036)		300 ±5%
B-12	12	1016053-004		2133.5 ±.01%
D-11	13	RN60C1503F(1896976-498)		150K ±1%
F-11	14	RW69V201 (1896929-068)		200 ±5%
B-11	15	1016053-021		6295.5 ±.01%
E-11	16	1897260-008	-VAR	2K ±5%
D-11	17	RN60C1400C(1896984-250)		140 ±.25%
D-11	18	1897260-006	-VAR	500 ±5%
C-11	19	1897260-006	-VAR	500 ±5%
C-11	20	RC20GF301J(1896952-036)		300 ±5%
B-11	21	1016053-021		6295.5 ±.01%
B-11	22	1016053-005		2504.5 ±.01%
E-11	23	RC20GF102J(1896952-049)		1K ±5%
C-10	24	RC32GF151J(1896953-043)		150 ±5%
E-10	25	RC32GF271J(1896953-049)		270 ±5%
B-10	26	RN60C1502F(1896984-402)		15K ±1%
B-10	27	1897260-013	-VAR	50K ±5%
D-10	28	1897260-013	-VAR	50K ±5%
D-10	29	RN60C1502F(1896984-402)		15K ±1%
C-10	30	RC20GF102J(1896952-049)		1K ±5%
D-10	31	RC20GF301J(1896952-036)		300 ±5%
B-10	32	RC20GF301J(1896952-036)		300 ±5%
G-9	33	1897260-006	-VAR	500 ±5%
F-9	34	RN60C1000C(1896984-222)		100 ±.25%
F-9	35	1897260-005	-VAR	200 ±5%
G-9	36	1016053-019		1340 ±.01%
F-9	37	1016053-012		1535 ±.01%
F-9	38	1897260-003	-VAR	50 ±5%
G-9	39	1016053-019		1340 ±.01%
E-8	40	RC20GF104J(1896952-097)		100K ±5%
B-8	41	RC20GF104J(1896952-097)		100K
G-8	42	RC20GF122J(1896952-051)		1.2K
G-8	43	RC20GF684J(1896952-117)		680K
F-8	44	RC20GF684J(1896952-117)		680K
E-8	45	RC32GF561J(1896953-057)		560
D-8	46	RC42GF510J(1896951-018)		51
C-7	47	RC32GF510J(1896953-032)		51
G-7	48	RC42GF510J(1896951-018)		51
G-7	49	RC20GF100J(1896952-001)		10
F-7	50	1897260-010	-VAR	10K ±5%
G-6	51	RE70G1R21 (1897094-105)		1.2 ±1%
E-6	52	RC20GF155J (1896952-125)		1.5M ±5%
D-6	53	RC42GF121J (1896951-027)		120 ±5%
E-6	54	RC42GF150J (1896951-005)		15
E-6	55	RC32GF510J (1896953-032)		51
C-6	56	RC42GF750J (1896951-022)		75 ±5%
C-5	57	RC42GF121J (1896951-027)		120 ±5%
D-12	58	RC20GF474J (1896952-113)		470K
D-10	59	RC20GF205J (1896952-128)		2M
B-10	60	RC20GF205J (1896952-128)		2M ±5%
F-9	61	1016053-024		730.1 ±.01%
B-11	62	RN60C4992F (1896976-452)		49.9K ±1%
G-12	63	RC20GF431J(1896952-040)	RESISTOR	430 ±5%
H-13	S1	1015825-036	SWITCH	
B-13	S2	1021575		
B-13	S3			
B-12	S4			
B-12	S5			
B-11	S6	1021575		
D-9	S7	SEE DS5	SWITCH	
G-12	T1	1897410	TRANSFORMER	
F-10	TP1	1016166-004	TEST JACK	
G-10	TP2	-006		
G-6	TP3	-004		
F-6	TP4	1016166-006	TEST JACK	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Gruenwald DATE 28 JUN 66
CHECKED Zeeler 5 JUL 66
APPROVAL
CONTRACT NAS 9-497
NASA APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM
BLOCK II PTC
(PORTABLE TEMPERATURE CONTROLLER)
(2900060-021)

CODE IDENT NO. 99974 2901543
NONE SHEET 1 OF 1

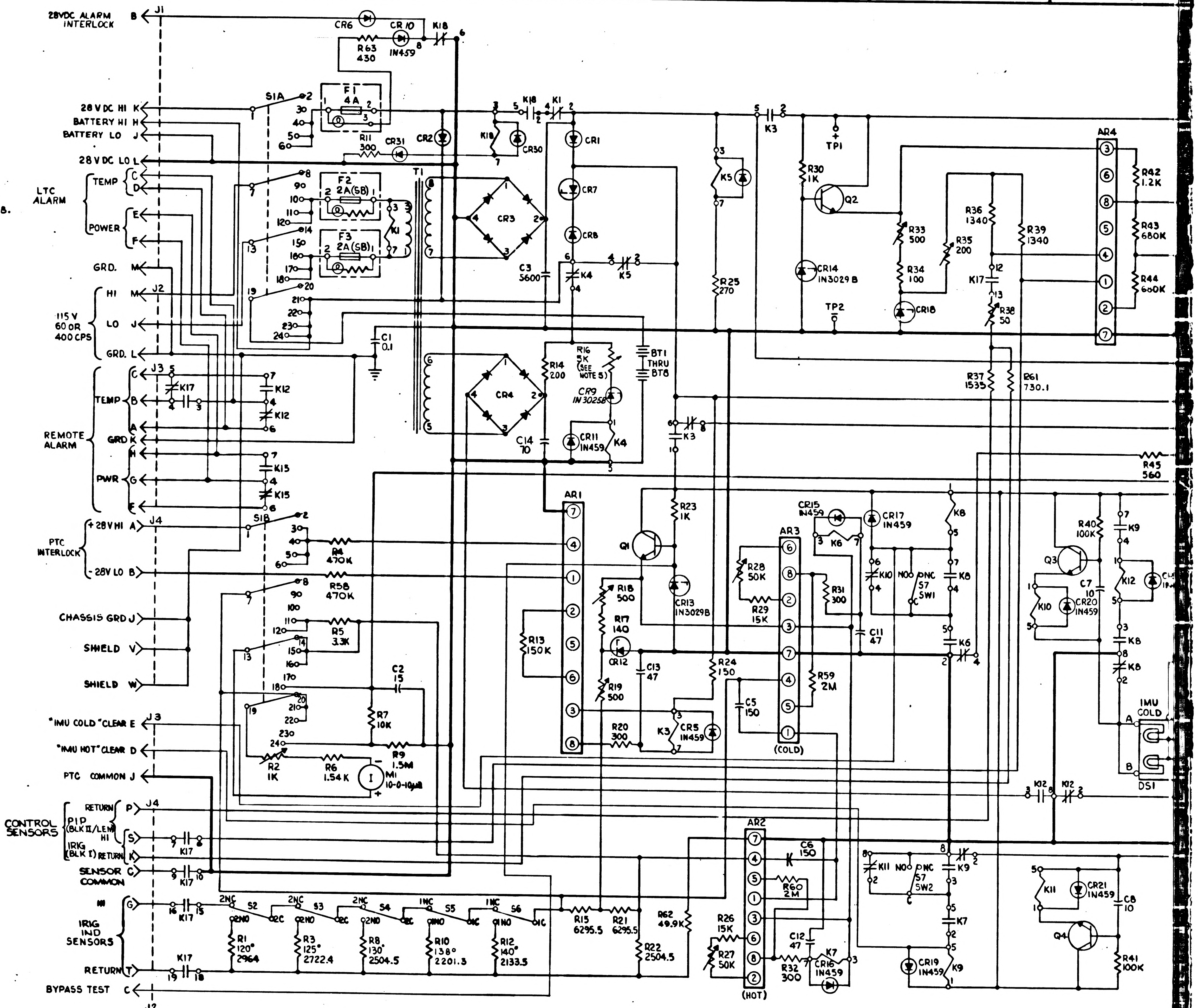
2901543

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

   2900060-021,-031 PORTABLE TEMPERATURE CONTROLLER ASSEMBLY

4. UNLESS OTHERWISE SPECIFIED:
   - A. RELAYS AND SWITCHES ARE SHOWN IN THE UNENERGIZED OR "OFF" POSITION.
   - B. VALUES ARE IN OHMS AND MICROFARADS.
5. VALUE OF R16 FOR 2900060-021 IS 2K, PART NO. 1897260-008.


28VDC ALARM INTERLOCK B
J1
CR6
CR10 1N459
R63 430
K18
28 V DC HI K
BATTERY HI H
BATTERY LO J
28 V DC LO L
S1A
F1 4A
R11 300
CR31
CR2
K18
CR30
K1
CR1
CR7
CR8
K3
K5
TP1
R30 1K
Q2
CR14 1N3029 B
R25 270
TP2
R33 500
R34 100
CR18
R36 1340
R35 200
R39 1340
K17
R38 50
R37 1535
R61 730.1
AR4
R42 1.2K
R43 680K
R44 680K
LTC ALARM
TEMP C D
POWER E F
F2 2A(SB)
F3 2A(SB)
T1
K1
CR3
C3 5600
K4
K5
GRD. M
J2
115 V 60 OR 400 CPS
HI M
LO J
GRD. L
C1 0.1
CR4
R14 200
R16 5K (SEE NOTE 5)
CR9 1N3025B
BT1 THRU BT8
C14 10
CR11 1N459
K4
REMOTE ALARM
J3
TEMP C B A
GRD K
PWR H G F
K17
K12
K15
R45 560
PTC INTERLOCK
J4
+28V HI A
-28V LO B
S1B
R4 470K
R58 470K
AR1
Q1
R23 1K
CR13 1N3029B
R18 500
R17 140
CR12
R13 150K
C13 47
R19 500
R20 300
K3
CR5 1N459
R24 150
C5 150
CR15 1N459
K6
CR17 1N459
AR3
R28 50K
R29 15K
R31 300
K10
NOO DNC S7 SW1
C11 47
K8
K6
R59 2M
(COLD)
R40 100K
Q3
K10
CR20 1N459
C7 10
K9
K12
K8
IMU COLD
A
B
DS1
CHASSIS GRD J
SHIELD V
SHIELD W
R5 3.3K
C2 15
R7 10K
R9 1.5M
R2 1K
R6 1.54K
M1 10-0-10μA
"IMU COLD" CLEAR E
"IMU HOT" CLEAR D
PTC COMMON J
CONTROL SENSORS
RETURN P
PIP (BLK II/LEM) HI S
IRIG (BLK I) RETURN K
SENSOR COMMON C
K17
K12
AR2
C6 150
R60 2M
K11 NOO DNC S7 SW2
K9
K7
CR21 1N459
C8 10
Q4
R41 100K
CR19 1N459
HI G
IRIG IND SENSORS
RETURN T
BYPASS TEST C
S2 S3 S4 S5 S6
R1 120° 2964
R3 125° 2722.4
R8 130° 2504.5
R10 138° 2201.3
R12 140° 2133.5
R15 6295.5
R21 6295.5
R22 2504.5
R62 49.9K
R26 15K
R27 50K
C12 47
R32 300
K7
CR16 1N459
(HOT)
J2

2901543

1/2901543

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 52123		11/28/66	11/26/66

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

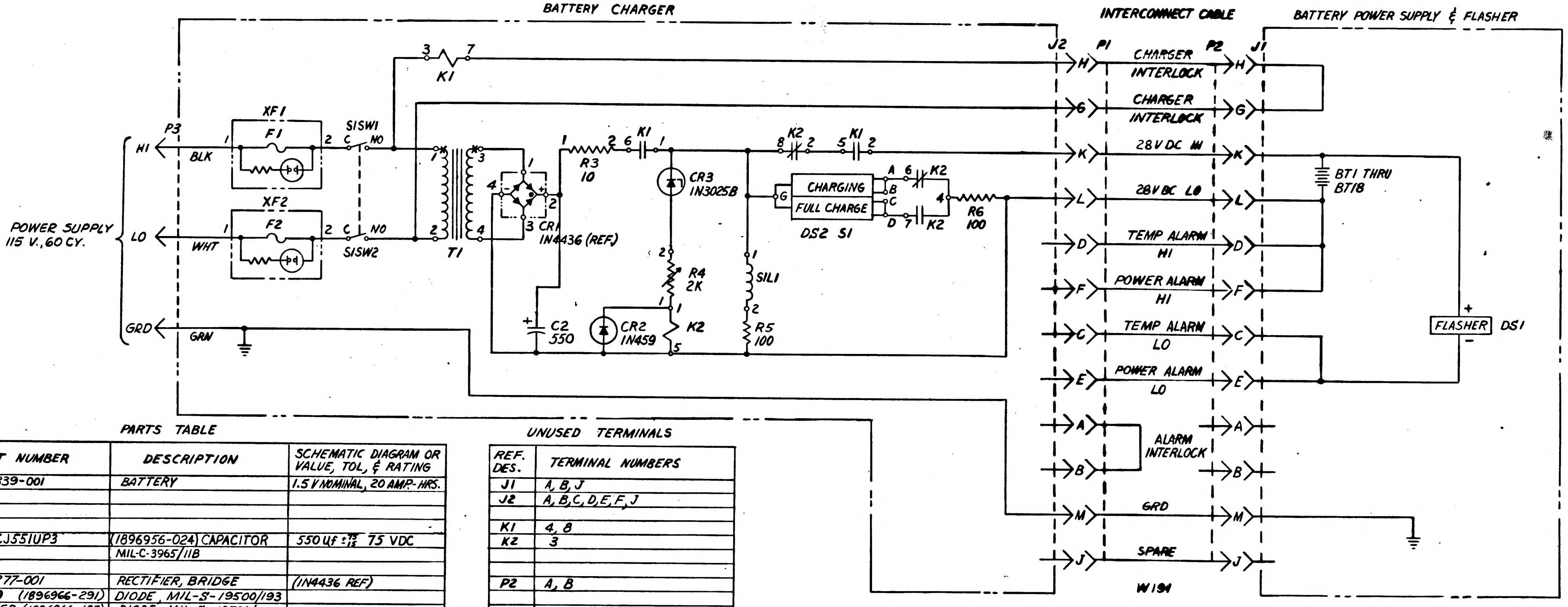
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.

3. DRAWINGS FOR REFERENCE:

2900812-021	ASSY DWG, LIFTING BATTERY PACK
2900826-021	ASSY DWG, BATTERY CHARGER
2900827-021	ASSY DWG, BATTERY POWER SUPPLY & FLASHER
2900857	ASSY DWG, INTERCONNECT CABLE

4. VALUES ARE IN OHMS AND MICROFARADS.

5. P1 TERMINALS A, B, C, D, E, F, K, L & M CONNECT TO J1 OF PORTABLE TEMP CONTROL, 2900060-011, WHEN BATTERY CHARGER IS DISCONNECTED.


BATTERY CHARGER
INTERCONNECT CABLE
BATTERY POWER SUPPLY & FLASHER
POWER SUPPLY 115 V., 60 CY.
P3
HI
LO
GRD
BLK
WHT
GRN
XF1
F1
XF2
F2
1
2
C
NO
S1SW1
S1SW2
3
7
K1
T1
1
2
3
4
CR1 1N4436 (REF.)
R3 10
6
K1
CR3 1N3025B
R4 2K
CR2 1N459
C2 550
K2
5
8
K2
5
K1
2
CHARGING
FULL CHARGE
G
A
B
C
D
6
7
K2
4
R6 100
DS2 S1
S1L1
R5 100
J2
P1
P2
J1
H
G
K
L
D
F
C
E
A
B
M
J
CHARGER INTERLOCK
CHARGER INTERLOCK
28V DC HI
28V DC LO
TEMP ALARM HI
POWER ALARM HI
TEMP ALARM LO
POWER ALARM LO
ALARM INTERLOCK
GRD
SPARE
W191
BT1 THRU BT18
FLASHER
DS1
+
−

PARTS TABLE

REF. DES.	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL, & RATING
BT1 THRU	1897339-001	BATTERY	1.5 V NOMINAL, 20 AMP.-HRS.
BT18			
C2	CL53CJ551UP3	(1896956-024) CAPACITOR	550 uf $^{+75}_{-15}$ 75 VDC
		MIL-C-3965/11B	
CR1	1897277-001	RECTIFIER, BRIDGE	(1N4436 REF)
CR2	1N459 (1896966-291)	DIODE, MIL-S-19500/193	
CR3	1N3025B (1896966-187)	DIODE, MIL-S-19500/	
DS1	1897365	FLASHER	
DS2	1897337-701	LIGHT INDICATOR SWITCH ASSY.	
F1	F02B250V1AS (1897099-127)	FUSE, MIL-F-15160/02	1 AMP SLOW BLOW
F2	SEE F1		
XF1	1015873-001	FUSEHOLDER	
XF2	SEE XF1		
J1	MS3127E-14-12SX	CONNECTOR, RECP	12 PIN
J2	MS3127E-14-12P	CONNECTOR, PLUG	12 PIN
K1	1015982-002	RELAY, ARMATURE	
K2	1015832-18	RELAY, ELECTROMAGNETIC	
L1	PART OF DS2		
P1	1897340-016	CONNECTOR, RECP	12 PIN, 90° ELBOW
P2	1897341-018	CONNECTOR, PLUG	12 PIN, 90° ELBOW
P3	1016250	CORD SET (8 FT.)	
R3	RE75G10R0 (1896982-193)	RESISTOR, MIL-R-18546/18	10 Ω ±1%, 20 WATTS
R4	1897260-008	RESISTOR, VARIABLE	2KΩ ±5%, 1 WATT
R5	RC42GF101J (1896951-025)	RESISTOR, MIL-R-11/7	100 Ω ± 5%, 2 WATTS
R6	SEE R5		
S1	PART OF DS2		
T1	1897360	TRANSFORMER	
W191	2900857	CABLE, INTERCONNECT (2 FT.)	

UNUSED TERMINALS

REF. DES.	TERMINAL NUMBERS
J1	A, B, J
J2	A, B, C, D, E, F, J
K1	4, 8
K2	3
P2	A, B
S1	SW3, SW4

NEXT ASSY	USED ON
2900063-021	2900063-021
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN D. Goble DATE 18 OCT 66
CHECKED A. Udovich
APPROVAL J. M. Watson 11-17-66
CONTRACT
NASA APPROVAL
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL-
BATTERY PACK LIFTING

CODE IDENT NO. 99974
SIZE E
2901581
SCALE NONE
SHEET 1 OF 1

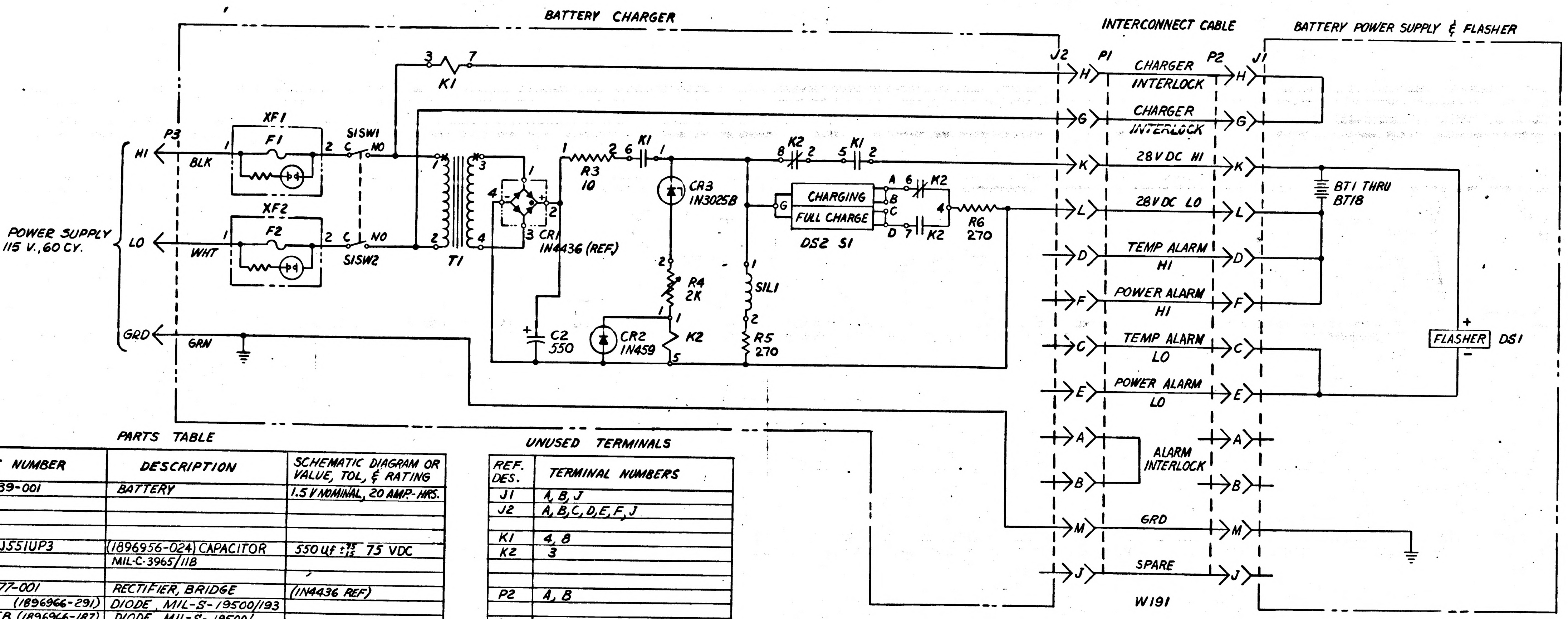
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 32723		28/66	10/26/66
	B	REVISED PER TDRR 32729		26 JAN 67	DR 6/7/67

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL PART NUMBERS ARE FOR REFERENCE ONLY.
3. DRAWINGS FOR REFERENCE:

2900812-021	ASSY DWG, LIFTING BATTERY PACK
2900826-021	ASSY DWG, BATTERY CHARGER
2900827-021	ASSY DWG, BATTERY POWER SUPPLY & FLASHER
2900857	ASSY DWG, INTERCONNECT CABLE

4. VALUES ARE IN OHMS AND MICROFARADS.
5. P1 TERMINALS A, B, C, D, E, F, K, L & M CONNECT TO J1 OF PORTABLE TEMP CONTROL, 2900060-011, WHEN BATTERY CHARGER IS DISCONNECTED.


BATTERY CHARGER
INTERCONNECT CABLE
BATTERY POWER SUPPLY & FLASHER
POWER SUPPLY
115 V., 60 CY.
P3
HI
LO
GRD
BLK
WHT
GRN
XF1
F1
XF2
F2
S1SW1
S1SW2
C
NO
K1
3
7
T1
CR1
IN4436 (REF.)
R3
10
CR3
IN3025B
R4
2K
C2
550
CR2
IN459
K2
SIL1
R5
270
K2
CHARGING
FULL CHARGE
DS2 S1
G
A
B
C
D
R6
270
J2
P1
P2
J1
CHARGER INTERLOCK
CHARGER INTERLOCK
28V DC HI
28V DC LO
TEMP ALARM HI
POWER ALARM HI
TEMP ALARM LO
POWER ALARM LO
ALARM INTERLOCK
GRD
SPARE
H
G
K
L
D
F
C
E
A
B
M
J
W191
BT1 THRU BT18
FLASHER
DS1
+
−

PARTS TABLE

REF. DES.	PART NUMBER	DESCRIPTION	SCHEMATIC DIAGRAM OR VALUE, TOL, & RATING
BT1 THRU	1897339-001	BATTERY	1.5 V NOMINAL, 20 AMP.-HRS.
BT18			
C2	CL53CJ551UP3	(1896956-024) CAPACITOR	550 uf $^{+75}_{-15}$ 75 VDC
		MIL-C-3965/11B	
CR1	1897277-001	RECTIFIER, BRIDGE	(IN4436 REF)
CR2	IN459 (1896966-291)	DIODE, MIL-S-19500/193	
CR3	IN3025B (1896966-187)	DIODE, MIL-S-19500/	
DS1	1897365	FLASHER	
DS2	1897337-701	LIGHT INDICATOR SWITCH ASSY.	
F1	F02B250V1AS (1897099-127)	FUSE, MIL-F-15160/02	1 AMP SLOW BLOW
F2	SEE F1		
XF1	1015873-001	FUSEHOLDER	
XF2	SEE XF1		
J1	MS3127E-14-12SX	CONNECTOR, RECP	12 PIN
J2	MS3127E-14-12P	CONNECTOR, PLUG	12 PIN
K1	1015982-002	RELAY, ARMATURE	
K2	1015832-18	RELAY, ELECTROMAGNETIC	
L1	PART OF DS2		
P1	1897340-016	CONNECTOR, RECP	12 PIN, 90° ELBOW
P2	1897341-018	CONNECTOR, PLUG	12 PIN, 90° ELBOW
P3	1016250	CORD SET (8 FT.)	
R3	RE75G10R0 (1896982-193)	RESISTOR, MIL-R-18546/1B	10 Ω ±1%, 20 WATTS
R4	1897260-008	RESISTOR, VARIABLE	2KΩ ±5%, 1 WATT
R5	RC42GF271J (1896951-035)	RESISTOR, MIL-R-11/7	270 Ω ± 5%, 2 WATTS
R6	SEE R5		
S1	PART OF DS2		
T1	1897360	TRANSFORMER	
W191	2900857	CABLE, INTERCONNECT (2 FT.)	

UNUSED TERMINALS

REF. DES.	TERMINAL NUMBERS
J1	A, B, J
J2	A, B, C, D, E, F, J
K1	4, 8
K2	3
P2	A, B
S1	SW3, SW4

2900063-021	2900063-021
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ___ ± ___ ± ___
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN [illegible] DATE 8 OCT 66
CHECKED A. Udovich
APPROVAL M. Watson 11-17-66
CONTRACT
NASA APPROVAL
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC DIAGRAM, ELECTRICAL-
BATTERY PACK LIFTING

CODE IDENT NO. 99974
SIZE E
2901581
SCALE NONE
SHEET 1 OF 1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 66A	1		SHLD A66 P3-45					.25 .10	NO NO		 26	
A 66B	1		E3-88 SHLD A66					.38 .25	NO NO			
A 66L			P3-56 P6-K7					.10 .18	NO NO		26 21, 30	
A 66R			P3-46 P6-K6					.10 .18	NO NO		26 21, 30	
A 67	6				3.80 4.80	3.50 4.50				A,68 A,68	16, 19 16, 19	
A 67A	1		SHLD A67 P3-28					.25 .10	NO NO		 26	
A 67B	1		P6-G13 SHLD A67					.18 .25	NO NO		21, 30	
A 67L			P3-20 P6-G15					.10 .18	NO NO		26 21, 30	
A 67R			P3-19 P6-G14					.10 .18	NO NO		26 21, 30	
A 68	6				3.80 4.80	3.50 4.50				A,68 A,68	16, 19 16, 19	
A 68A	1		SHLD A68 P3-7					.25 .10	NO NO		 26	
A 68B	1		P6-F13 SHLD A68					.18 .25	NO NO		21, 30	

SIZE A	CODE IDENT NO. 99974	2901597	
SCALE-NONE	REV LTR # A	SHEET 22 OF 35	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 68L			P3-18 P6-F15					.10 .18	NO NO		26 21, 30	
A 68R			P3-17 P6-F14					.10 .18	NO NO		26 21, 30	
A 69	6				3.80 4.80	3.50 4.50				A,68 A,68	16, 19 16, 19	
A 69A	1		SHLD A69 P3-26					.25 .10	NO NO		 26	
A 69B	1		P6-C3 SHLD A					.18 .25	NO NO		21, 30	
A 69L			P3-13 P6-B3					.10 .18	NO NO		26 21, 30	
A 69R			P3-12 P6-A3					.10 .18	NO NO		26 21, 30	
A 70	6				5.30 4.80	5.00 4.50				A,68 A,68	16, 19 16, 19	
A 70A	1		SHLD A70 P3-34					.25 .10	NO NO		 26	
A 70B	1		P6-C2 SHLD A70					.18	NO NO		21, 30	
A 70L			E14-88 P6-B1				3.50	.38 .18	NO NO		 21, 30	SEE CONFIG.
A 70R			P3-9 P6-B2					.10 .18	NO NO		26 21, 30	

SIZE A	CODE IDENT NO. 99974	2901597	
SCALE-NONE	REV LTR # A	SHEET 23 OF 35	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 71	1		P3-22 E14-B					.10 .38	NO NO		26	
A 72	1		P3-94 E14-B					.10 .38	NO NO		26	
A 73	6				3.80 4.80	3.50 4.50				A,68 A,68	16, 19 16, 19	
A 73A	1		SHLD A73 P3-39					.25 .10	NO NO		 26	
A 73B	1		P6-G4 SHLD A73					.18 .25	NO NO		21, 30	
A 73L			P3-24 P6-G6					.10 .18	NO NO		26 21, 30	
A 73R			P3-25 P6-G5					.10 .18	NO NO		26 21, 30	
A 74	6				4.30 5.30	4.00 5.00				A,68 A,68	16, 19 16, 19	
A 74A	1		SHLD A74 P3-49					.25 .10	NO NO		 26	
A 74B	1		P6-H3 SHLD A74					.18 .25	NO NO		21, 30	
A 74L			P3-53 P6-H1					 .18	NO NO		26 21, 30	
A 74R			P3-54 P6-H2					 .18	NO NO		26 21, 30	

SIZE A	CODE IDENT NO. 99974	2901597	
SCALE-NONE	REV LTR # A	SHEET 24 OF 35	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 75	6				4.30 5.30	4.00 5.00				A,68 A,68	16, 19 16, 19	
A 75A	1		SHLD A75 P3-47					.25 .10	NO NO		 26	
A 75B	1		P6-G3 SHLD A75					.18 .25	NO NO		21, 30	
A 75L			P3-48 P6-G2					.10 .18	NO NO		26 21, 30	
A 75R			P3-51 P6-G1					.10 .18	NO NO		26 21, 30	
A 76	32				3.30 5.30	3.00 5.00				A,6A 8,7	17, 19 19	
A 76A	1		SHLD A76 E19					.25 .25	NO NO			
A 76L			E23-B E15-BB					.31 .38	NO NO			
A 76R			E22-B E16-BB					.31 .38	NO NO			
A 77	2	6.00	E15-B P4-B9					.38 .18	NO NO		 21, 30	
A 78	2	6.00	E16-B P4-B8					.38 .18	NO NO		 21, 30	
A 79	2	6.00	E15-B P4-C9					.38 .18	NO NO		 21, 30	

SIZE A	CODE IDENT NO. 99974	2901597	
SCALE-NONE	REV LTR # A	SHEET 25 OF 35	

APPLICATION	
NEXT ASSY	USED ON
2900712-051	2900712-051
2900712-061	2900712-061

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 33572	13 APR 67	16 MAR 67

REV															
SHEET															
REV STATUS OF SHEETS	REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
2901485

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN J. Gray 2 MAR. '67
DAY MO YR
CHECKER Ed Foster 2 MAR 67
ENGINEER W. Wm 2 MAR
APPROVAL M. Watson 4-6-67
CONTR NO. NAS 9-497
NASA APPROVAL
CCB APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL - W149

SIZE A
CODE IDENT. NO 99974
2901596
SCALE NONE
SHEET 1 OF 14

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002071 B - ND1002032
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND 1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
4	APPLY LEAD IDENTIFICATIONS PER ND 1002019.
5	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019
6	APPLY LEAD IDENTIFICATION TO SLEEVES OF ALL MULTI-LEADS PER ND1002019.
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
9	ITEM 5 FURNISHED WITH ITEM 3.
10	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER. A - FROM END SHIELD B - TO END SHIELD L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER. Y - WHITE WITH YELLOW TRACER
11	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET USING ITEM 19 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	SECURE TO CABLE USING ITEM 18. MARKING TO READ AWAY FROM CONNECTOR

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR # A	SHEET 2

NOTE NUMBER	GENERAL NOTES DESCRIPTION
14	SERIALIZE PER ND1002023
15	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 HIGH, COLOR BLACK, PER ND1002019. CENTRALIZE.
16	LOCATE ITEM 14 ADJACENT TO ITEMS 9 AND 10, AND ITEM 13 ADJACENT TO ITEM 10.
17	ASSEMBLE PER ND1002032
18	ZIPPER TUBING SHALL HAVE Z TRACK
19	SECURE LEADS IN STRAIN RELIEF CLAMP IN THE FOLLOWING MANNER SPOT TIE LEADS IN GROUPS OF APPROXIMATELY 10 TO 20 LEADS EACH ADJACENT TO STRAIN RELIEF CLAMP. WRAP WIRE BUNDLE USING ITEM 23 TO PROTECT WIRES FROM ABRASION. WRAP WIRE BUNDLE USING ITEM 19, AS REQUIRED, TO FIRMLY SECURE ALL LEADS IN STRAIN RELIEF CLAMP. SPOT TIE THE CABLE BUNDLE, USING ITEM 18, ADJACENT TO CONNECTOR BACKSHELL GROMMET AND TIGHTLY SECURE LACING CORD ENDS TO STRAIN RELIEF CLAMP.

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR # A	SHEET 3

NOTE NUMBER

GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+2.00-1.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR # A	SHEET 4

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901596-001	WIRE, ND1002181, TYPE 2, CLASS 4, WHT. JKT., 22AWG, WHT/BLU, WHT/RED, 156 FT TOTAL LG.
	2	1	290~~0880~~1596-002	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT. 49 FEET TOTAL LENGTH
7	3	1	1897250-001	CONNECTOR PLUG, ELEC.
7	4	1	1010933-105	CLAMP, STRAIN RELIEF
7	5	X	1897190- 1	CONTACT PIN
	7	1	2900880-021	CONNECTOR PLUG, ELEC
7	8	44	1897300-002	CONTACT, ELECTRICAL - SPRING SOCKET
7	9	2	1010763- 1	SOLDER SLEEVE
7	10	13	1010763- 2	SOLDER SLEEVE
7	13	44	1010490-228	INSULATION SLEEVING, ELEC.
7	14	4	1010490-232	INSULATION SLEEVING, ELEC.
7	15	1	1016128-011	IDENTIFICATION BAND
7	16	2	1016128-041	IDENTIFICATION BAND
18	17	1	2901~~[illegible]~~596-003	ZIPPER TUBING PER ND1002155, TYPE I, GRAY, 1.00 DIA., 6 FT. TOTAL LENGTH
	18	AR	MIL-T-713B, TYPE P CLASS 2, BLK	LACING TAPE

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR # A	SHEET 5

SEE NOTE

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	19	AR	MIL-I-631, TYPE F, FORM T GRADE A CLASS 1 BLK	FILLER TAPE, .62 WIDE, .020 THICK.
7	20	44	1015864-232	INSULATION SLEEVING, ELEC.
7	21	1	1016282- 22	GROMMET, RUBBER
	22	1	2901596-004	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JKT, 22 AWG, WHT/BLU, WHT/RED, WHT/YEL, 6 FT. TOTAL LG.
	23	AR	MIL-I-15126F, TYPE ACT	INSULATION TAPE, ELEC PRESSURE SENSITIVE THERMOSETTING ADHESIVE, .75 PLUS OR MINUS .03 IN. WIDE (ES2716 TYPE C).

SIZE A	CODE IDENT NO. 99974	2901596
SCALE-NONE	REV LTR # A	SHEET 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	1			4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A	1A	2	SHLD A1 E1					.25 .25	NO NO			
A	1L		P1-38 P2-B23					.15 .18	NO NO		5 8	
A	1R		P1-37 P2-A23					.15 .18	NO NO		5 8	
A	2	1			4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A	2A	2	SHLD A2 E1					.25 .25	NO NO			
A	2L		P1-40 P2-A22					.15 .18	NO NO		5 8	
A	2R		P1-39 P2-B22					.15 .18	NO NO		5 8	
A	3	1			4.30 4.30	4.00 4.00				A,6A B,7	10, 13 13	
A	3A	2	SHLD A3 E1					.25 .25	NO NO			
A	3L		P1-42 P2-B21					.15 .18	NO NO		5 8	
A	3R		P1-41 P2-A21					.15 .18	NO NO		5 8	

SIZE A	CODE IDENT NO. 99974	2901596
SCALE-NONE	REV LTR # A	SHEET 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6	1			4.80 4.80	4.50 4.50				A,6A B,7	10, 13 13	
A	6A	2	SHLD A6 E2					.25 .25	NO NO			
A	6L		P1-32 P2-K6					.15 .18	NO NO		5 8	
A	6R		P1-31 P2-K7					.15 .18	NO NO		5 8	
A	7	1			4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A	7L		P1-2 P2-F24					.15 .18	NO NO		5 8	
A	7R		P1-1 P2-F25					.15 .18	NO NO		5 8	
A	8	1			4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A	8L		P1-4 P2-G25					.15 .18	NO NO		5 8	
A	8R		P1-3 P2-G24					.15 .18	NO NO		5 8	
A	9	1			4.80 4.80	4.50 4.50				B,7 B,7	13 13	
A	9L		P1-6 P2-H24					.15 .18	NO NO		5 8	

SIZE A	CODE IDENT NO. 99974	2901596
SCALE-NONE	REV LTR # A	SHEET 8

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	9R		P1-5 P2-H25					.15 .18	NO NO		5 8	
A	13	1			3.30 3.30	3.00 3.00				B,7 B,7	13 13	
A	13L		P1-30 P2-K22					.15 .18	NO NO		5 8	
A	13R		P1-29 P2-K23					.15 .18	NO NO		5 8	
A	14	1			3.30 3.30	3.00 3.00				A,6A B,7	10, 13 13	
A	14A	2	SHLD A14 E2					.25 .25	NO NO			
A	14L		P1-35 P2-K5					.15 .18	NO NO		5 8	
A	14R		P1-34 P2-H5					.15 .18	NO NO		5 8	
A	15	1			3.30 3.30	3.00 3.00				B,7 B,7	13 13	
A	15L		P1-24 P2-C25					.15 .18	NO NO		5 8	
A	15R		P1-23 P2-B25					.15 .18	NO NO		5 8	
A	16	1			3.30 3.30	3.00 3.00				B,7 B,7	13 13	

SIZE A	CODE IDENT NO. 99974	2901596
SCALE-NONE	REV LTR # A	SHEET 9

FOSTER 030267 CABLE ASSEMBLY W149 2901596

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 16L			P1-26 P2-C24					.15 .18	NO NO		5 8	
A 16R			P1-25 P2-C23					.15 .18	NO NO		5 8	
A 18	1				3.80 3.80	3.50 3.50				A,6A B,7	10, 13 13	
A 18A	2		SHLD A18 E2					.25 .15	NO NO		 5	
A 18L			P1-74 P2-K4					.15 .18	NO NO		5 8	
A 18R			P1-73 P2-K3					.15 .18	NO NO		5 8	
A 19	1				3.80 3.80	3.50 3.50				B,7 B,7	13 13	
A 19L			P1-77 P2-B20					.15 .18	NO NO		5 8	
A 19R			P1-76 P2-A20					.15 .18	NO NO		5 8	
A 20	1				3.80 3.80	3.50 3.50				B,7 B,7	13 13	
A 20L			P1-66 E4					.15 .25	NO NO		5	
A 20R			P1-65 P2-K20					.15 .18	NO NO		5 8	

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR NA	SHEET 10

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W149 2901596

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 21	1				3.80 3.80	3.50 3.50				B,7 B,7	13 13	
A 21L			P1-68 E4					.15 .25	NO NO		5	
A 21R			P1-67 P2-H19					.15 .18	NO NO		5 8	
A 22	1				3.80 3.80	3.50 3.50				B,7 B,7	13 13	
A 22L			P1-70 E4					.15 .25	NO NO		5	
A 22R			P1-69 P2-K18					.15 .18	NO NO		5 8	
A 23	2		E1 E3					.25 .25	NO NO			
A 24	2		E2 E3					.25 .25	NO NO			
A 25	2		E3 P1-63					.25 .15	NO NO		 5	
A 26	2		P1-27 P2-B24					.15 .18	NO NO		5 8	
A 30	22				3.80 3.80	3.50 3.50				B,7 B,7	13 13	
A 30L			P1-9 P2-D18					.15 .18	NO NO		5 8	

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR NA	SHEET 11

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W149 2901596

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P1-8 P2-C18					.15 .18	NO NO		5 8	
A 30Y			P1-7 P2-C19					.15 .18	NO NO		5 8	
A 31	2		E4 P2-K21					.25 .18	NO NO		 8	
A 32	1				5.30 5.30	5.00 5.00				A,6B B,7	10, 13 13	
A 32A	2		SHLD A32 P1-17					.25 .15	NO NO		 5	
A 32L			P1-16 P2-G10					.15 .18	NO NO		5 8	
A 32R			P1-15 P2-G9					.15 .18	NO NO		5 8	
A 33	1				5.30 5.30	5.00 5.00				A,6B B,7	10, 13 13	
A 33A	2		SHLD A33 P1-20					.25 .15	NO NO		 5	
A 33L			P1-19 P2-K10					.15 .18	NO NO		5 8	
A 33R			P1-18 P2-H10					.15 .18	NO NO		5 8	
A 34	1				5.30 5.30	5.00 5.00				A,6B B,7	10, 13 13	

SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR NA	SHEET 12

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W149 2901596

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 34A	2		SHLD A34 P1-64					.25 .15	NO NO		 5	
A 34L			P1-62 P2-H9					.15 .18	NO NO		5 8	
A 34R			P1-6U P2-K9					.15 .18	NO NO		5 8	
A 35	1				5.30 5.30	5.00 5.00				A,6B B,7	10, 13 13	
A 35A	2		SHLD A35 P1-60					.25 .15	NO NO		 5	
A 35L			P1-59 P2-G16					.15 .18	NO NO		5 8	
A 35R			P1-58 P2-G15					.15 .18	NO NO		5 8	
A 36	1				5.30 5.30	5.00 5.00				A,6B B,7	10, 13 13	
A 36A	2		SHLD A36 P1-57					.25 .15	NO NO		 5	
A 36L			P1-56 P2-H15					.15 .18	NO NO		5 8	
A 36R			P1-55 P2-H16					.15 .18	NO NO		5 8	

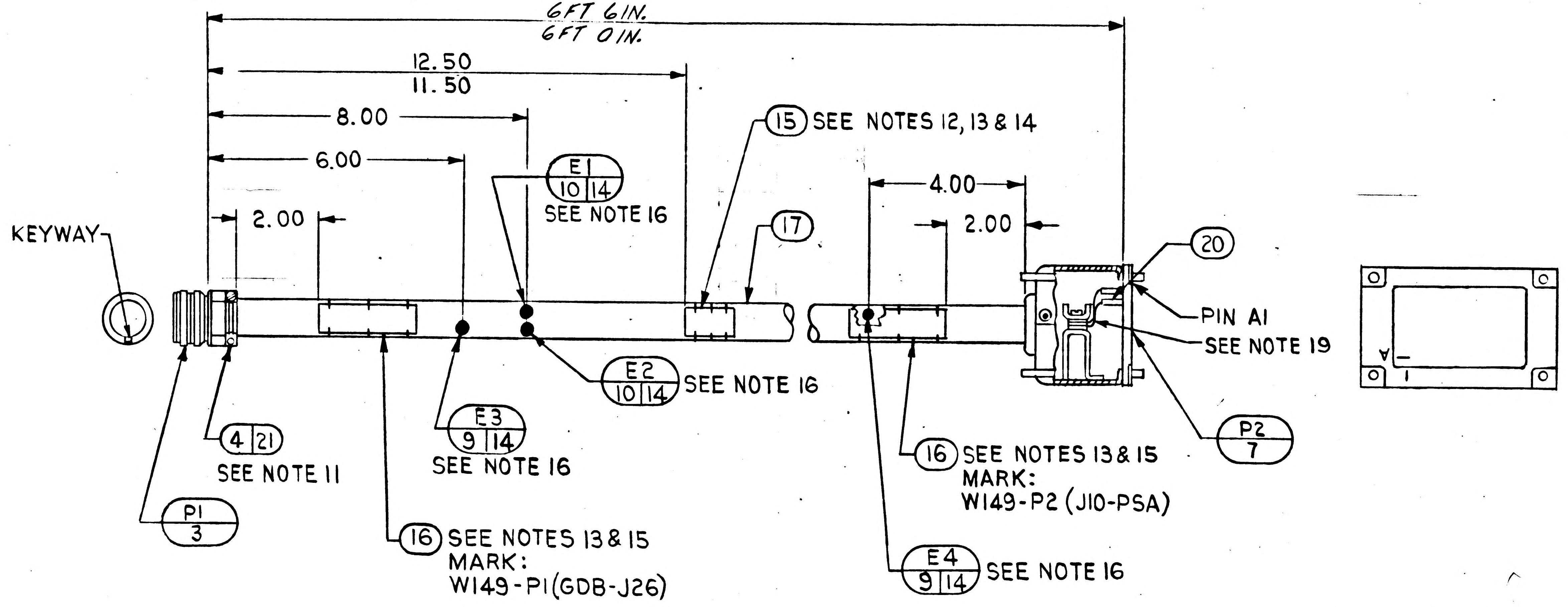
SIZE	CODE IDENT NO.	
A	99974	2901596
SCALE-NONE	REV LTR NA	SHEET 13

FORM 2084 9-65

2901596

REVISIONS TDM 33572

ZONE	LTR	DESCRIPTION		DATE	APPROVED
		SEE SHEET 1 FOR REVISION RECORD	CHG. NO.		



6FT 6IN.
6FT 0IN.
12.50
11.50
8.00
6.00
2.00
4.00
2.00
KEYWAY
15 SEE NOTES 12, 13 & 14
E1 10 14 SEE NOTE 16
17
20
PIN A1
SEE NOTE 19
A
1
E2 10 14 SEE NOTE 16
E3 9 14 SEE NOTE 16
4 21 SEE NOTE 11
P1 3
16 SEE NOTES 13 & 15 MARK: W149-P1(GDB-J26)
16 SEE NOTES 13 & 15 MARK: W149-P2 (J10-PSA)
E4 9 14 SEE NOTE 16
P2 7

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± .50 3 PLACE DECIMALS ± — ANGLES ± —	**AC ELECTRONICS DIVISION** GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DO NOT SCALE THIS DRAWING	DRAWN J. Graff DATE 2 MAR. '67 CHECKED Ed Foster 2 MAR 67 APPROVAL J. M. Walton 4-6-67 CONTRACT NAS 9-497	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL-W149
MATERIAL	NASA APPROVAL	SIZE C · CODE IDENT NO. 99974 · 2901596
APPROVAL	APPROVAL	SCALE — · SHEET 14 OF 14

MIL-1082D D

APPLICATION	
NEXT ASSY	USED ON
2900712-051	2900712-051
2900712-061	2900712-061

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 33572	13 APR 67	16 MAR 67

REV	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	24	25	26	27	28	29	30	31	32	33	34	35

REV STATUS OF SHEETS																								
	REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
2900659

AC ELECTRONICS DIV.
GM CORP. MILW. WIS.

DRAFTSMAN J. Graff 2 MAR '67
DAY MO YR
CHECKER Ed Foster 2 MAR 67
ENGINEER C.W. Wis 2 MAR
APPROVAL W. Watson 3-6-67
CONTR NO. NAS 9-497

NASA APPROVAL
CCB APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY,
SPECIAL PURPOSE,
ELECTRICAL, BRANCHED W152

SIZE A
CODE IDENT. NO 99974
2901597
SCALE NONE
SHEET 1 OF 35

MIL 1377A6 12-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	SHIELD TERMINATION FIGURES ARE PER- A - ND1002071 B - ND1002032
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	APPLY LEAD IDENTIFICATIONS PER ND1002019. OMIT ALL SUFFIX LETTERS EXCEPT A AND B.
4	APPLY LEAD IDENTIFICATIONS PER ND1002019.
5	APPLY REFERENCE DESIGNATIONS TO SLEEVES PER ND1002019 USING .12 INCH HIGH CHARACTERS.
6	ITEMS 13 AND 26 FURNISHED WITH ITEMS 7, 8 AND 9
7	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
8	APPLY LEAD IDENTIFICATION TO SLEEVES PER ND1002019
9	FILL THE SPACE BETWEEN WIRE BUNDLE AND GROMMET OR CLAMP,AS REQUIRED,USING ITEM 25 TO SECURE WIRE BUNDLE IN THE STRAIN RELIEF CLAMP
10	THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER. A - FROM END SHIELD B - TO END SHIELD E - GRAY L - WHITE WITH BLUE TRACER R - WHITE WITH RED TRACER. W - WHITE X - COAX OUTER CONDUCTOR Y - WHITE WITH YELLOW TRACER.

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR A A
SHEET 2 OF 35

NOTE NUMBER	GENERAL NOTES DESCRIPTION
11	SECURE TO CABLE USING ITEM 24. MARKING TO READ AWAY FROM CONNECTOR
12	IDENTIFY PER MIL-STD-130 (ES267) USING PART NUMBER.
13	SERIALIZE PER ND1002023
14	MARK IDENTIFICATION BAND WITH REFERENCE DESIGNATION AS NOTED .12 HIGH, COLOR BLACK, HOT IMPRESSION STAMPING PER ND1002019, CENTRALIZE.
15	LOCATE IDENTIFICATION SLEEVING ADJACENT TO SOLDER SLEEVES
16	ASSEMBLE CONTACTS IN SPARE CONNECTOR INSERT HOLES.
17	ASSEMBLE PER ND1002032
18	SEPARATE ZIPPER TUBING TO TEAR STOP
19	A LETTER WITH AN ASTERISK INDICATES A LOWER CASE LETTER.
20	ZIPPER TUBING SHALL HAVE Z TYPE TRACK.
21	APPLY ITEM 37 TO SURFACES TO BE POTTED. ALLOW 30 TO 40 MINUTES DRYING TIME AT ROOM TEMP. POT PER ND1002009, METHOD B, USING ITEM 36. POTTING MATERIAL TO EXTEND 1/4 INCH ABOVE REAR EDGE OF CONNECTOR.
22	ITEM 38 TO BE FURNISHED WITH ITEMS 7 AND 8
23	WRAP WIRE BUNDLE USING ITEM 40 TO PROTECT WIRES FROM ABRASION.

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR A A
SHEET 3 OF 35

NOTE NUMBER

GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR A A
SHEET 4 OF 35

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	2901597-001	WIRE, ND1002181, TYPE 1, CLASS 1, 22AWG, WHT, 227 FT. TOTAL LENGTH
	2	1	2901597-002	WIRE, ND1002181, TYPE 1, CLASS 1, 20AWG, WHT, 120 FT. TOTAL LENGTH
	3	1	2901597-003	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 20AWG, WHT/BLU, WHT/RED, 392 FT. TOTAL LENGTH
	4	1	2901597-004	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JKT, 20AWG, WHT/BLU, WHT/RED, WHT/YEL, 40 FT. TOTAL
	5	1	2901597-005	WIRE, COAXIAL MIL-C-17/69A RG 188AU, 60 FT. TOTAL LENGTH
	6	1	2901597-006	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 22AWG, WHT/BLU, WHT/RED, 190 FT. TOTAL LENGTH
	7	1	MS3126F-24-61SZ	(1897048-614) CONNECTOR PLUG, ELECT.
	8	1	MS3126F-24-61SY	(1897048-613) CONNECTOR PLUG, ELECT.
7	9	1	1897174- 1	CONNECTOR PLUG, ELECT.
	10	1	2900850-021	CONNECTOR PLUG, ELECT., ASSY
	11	1	2900879-021	CONNECTOR PLUG, ELECT., ASSY
	12	1	2900876-021	CONNECTOR PLUG, ELECT., ASSY
	13		MS3193A-20A	(1896877-020) CONTACT SOCKETS
7	14	79	1897300-001	CONTACT, ELECT. SPRING SOCKET
7	16	34	1010763- 2	SOLDER SLEEVE

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR A A
SHEET 5 OF 35

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
7	17	51	1010763- 3	SOLDER SLEEVE
7	18	8	1010490-226	INSULATION SLEEVING
7	19	111	1010490-228	INSULATION SLEEVING
7	20	12	1010490-232	INSULATION SLEEVING
7	21	185	1015864-232	INSULATION SLEEVING
7	22	1	1016128-011	BAND, IDENTIFICATION
7	23	7	1016128-041	BAND, IDENTIFICATION
	24	AR	MIL-T-713B	LACING TAPE, TYPE P, CLASS 2, BLACK (ES2732-1 NO. 18)
	25	AR	MIL-I-631	FILLER TAPE TYPE F, FORM T, (BLACK), GRADE A CLASS 1, .62 INCH WIDE, .020 INCH THICK.
	26	108	1010738- 5	CONTACT, SOCKET
	27	1	2901597-007	WIRE, ND1002181, TYPE 3, CLASS 4, WHT JKT, 22AWG, WHT/BLU, WHT/RED, WHT/YEL, 10 FT. TOTAL
20	28	1	2901597-008	ZIPPER TUBING PER ND1002155, TYPE IV, 3 CHANNEL, 1.250 IN. DIA, 8 FT. TOTAL LENGTH
20	29	1	2901597-009	ZIPPER TUBING PER ND1002155, TYPE IV, 3 CHANNEL 1.000, 1.000 AND 1.375 IN. DIA, 2 FT.
7	30	100	1897300-002	CONTACT, ELECT. SPRING SOCKET
20	31	1	2901597-010	ZIPPER TUBING PER ND1002155, TYPE I, GRAY 2.250 INCH DIA., 5 FT TOTAL LENGTH

SIZE	CODE IDENT NO.	
A	99974	2901597
SCALE-NONE	REV LTR A	SHEET 6 OF 35

FORM 2084 9-65

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	32	1	2901597-011	WIRE, ND1002181, TYPE 2, CLASS 4, WHT JKT, 16AWG, WHT/BLU, WHT/RED, 10 FT. TOTAL LENGTH
7	33	15	1016006-001	SPLICE REDUCER
7	34	7	1016006-002	SPLICE REDUCER
7	35	7	1010490-258	INSULATION SLEEVING
7	36	AR	1006834	COMPOUND, SILICONE RUBBER
7	37	AR	1016204	PRIMER FOR SILICONE RUBBER ADHESIVE AND POTTING COMPOUND
22	38		1010282- 24	RUBBER GROMMET
7	39	6	1897300-003	CONTACT [illegible]. SPRING SOCKET
	40	AR	MIL-I-15126F	INSULATION TAPE, ELECTRICAL PRESSURE SENSITIVE THERMOSETTING ADHESIVE TYPE ACT, .75 PLUS OR MINUS .03 WIDE (ES2716 TYPE C).

SIZE	CODE IDENT NO.	
A	99974	2901597
SCALE-NONE	REV LTR A	SHEET 7 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	1		P1-W P3-64						NO NO		13	
A 2	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	
A 2A	1		SHLD A2 E1-B					.25 .38	NO NO			
A 2B	1		P4-B10 SHLD A2					.18 .25	NO NO		21, 30	
A 2L			P1-Q* P4-B12					.22 .18	NO NO		13 14, 21	
A 2R			P1-P* P4-B11					.22 .18	NO NO		13 14, 21	
A 3	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	
A 3A	1		SHLD A3 E1-B					.25 .38	NO NO			
A 3B	1		P4-C10 SHLD A3					.18 .25	NO NO		21, 30	
A 3L			P1-Z* P4-L11					.22 .18	NO NO		13 14, 21	
A 3R			P1-Y* P4-C12					.22 .18	NO NO		13 14, 21	
A 4	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	

SIZE	CODE IDENT NO.	
A	99974	2901597
SCALE-NONE	REV LTR A	SHEET 8 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 4A	1		SHLD A4 E1-B					.25 .38	NO NO			
A 4B	1		P4-G7 SHLD A4					.18 .25	NO NO		21, 30	
A 4L			P1-X* P4-H7					.22 .18	NO NO		13 14, 21	
A 4R			P1-W* P4-K7					.22 .18	NO NO		13 14, 21	
A 5	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	
A 5A	1		SHLD A5 E1-B					.25 .38	NO NO			
A 5B	1		P4-G8 SHLD A5					.18 .25	NO NO		21, 30	
A 5L			P1-S* P4-K8					.22 .18	NO NO		13 14, 21	
A 5R			P1-R* P4-H8					.22 .18	NO NO		13 14, 21	
A 6	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	
A 6A	1		SHLD A6 E1-B					.25 .38	NO NO			
A 6B	1		P4-G6 SHLD A6					.18 .25	NO NO		21, 30	

SIZE	CODE IDENT NO.	
A	99974	2901597
SCALE-NONE	REV LTR A	SHEET 9 OF 35

FORM 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	6L			P1-B8 P4-K6					.22 .18	NO NO		13 14, 21	
A	6R			P1-AA P4-H6					.22 .18	NO NO		13 14, 21	
A	7	3				2.80 3.80	2.50 3.50				A,6A A,6B	17, 19 17, 19	
A	7A	1		SHLD A7 E2-B					.25 .38	NO NO			
A	7B	1		P4-G5 SHLD A7					.18 .25	NO NO		21, 30	
A	7L			P1-Z P4-H5					.22 .18	NO NO		13 14, 21	
A	7R			P1-Y P4-K5					.22 .18	NO NO		13 14, 21	
A	8	5				3.30 3.30	3.00 3.00				A,6B A,6B	16, 20 16, 20	
A	8A	1		SHLD A8 P1-U*					.25 .22	NO NO		 13	
A	8B	1		P4-B15 SHLD A8					.18 .25	NO NO		21, 30	
A	8E			P1-T* P4-B14					.22 .18	NO NO		13 21, 39	
A	9	2		P1-V* P4-B13					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR A | SHEET 10 OF 35

FORM 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10	3				3.30 4.30	3.00 4.00				A,6B A,6B	17, 19 17, 19	
A	10A	1		SHLD A10 P1-HH					.25 .22	NO NO		 13	
A	10B	1		P4-D10 SHLD A10					.18 .25	NO NO		21, 30	
A	10L			P1-GG P4-D11					.22 .18	NO NO		13 14, 21	
A	10R			P1-FF P4-D12					.22 .18	NO NO		13 14, 21	
A	11	4				3.30 4.30	3.00 4.00				A,6A B,7	17, 18 18	
A	11A	1		SHLD A11 E2-B					.25 .38	NO NO			
A	11L			P1-E P5-B4					.22 .18	NO NO		13 14, 21	
A	11R			P1-D P5-A4					.22 .18	NO NO		13 14, 21	
A	11Y			P1-F P5-A3					.22 .18	NO NO		13 14, 21	
A	12	3				3.30 4.30	3.00 4.00				A,6A A,6B	17, 19 17, 19	
A	12A	1		SHLD A12 E2-B					.25 .38	NO NO			

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR A | SHEET 11 OF 35

FORM 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	12B	1		P5-F3 SHLD A12					.18 .25	NO NO		21, 30	
A	12L			P1-H P5-F1					.22 .18	NO NO		13 14, 21	
A	12R			P1-G P5-F2					.22 .18	NO NO		13 14, 21	
A	13	3				3.30 4.30	3.00 4.00				A,6A A,6B	17, 19 17, 19	
A	13A	1		SHLD A13 E2-B					.25 .38	NO NO			
A	13B	1		P5-D3 SHLD A13					.18 .25	NO NO		21, 30	
A	13L			P1-K P5-D2					.22 .18	NO NO		13 14, 21	
A	13R			P1-J P5-D1					.22 .18	NO NO		13 14, 21	
A	14	3				3.30 4.30	3.00 4.00				A,6B A,6B	17, 19 17, 19	
A	14A	1		SHLD A14 P1-P					.25 .22	NO NO		 13	
A	14B	1		P5-C3 SHLD A14					.18 .25	NO NO		21, 30	
A	14L			P1-M P5-C1					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR A | SHEET 12 OF 35

FORM 2084 9-65

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	14R			P1-L P5-C2					.22 .18	NO NO		13 14, 21	
A	15	4				5.80 4.30	5.50 4.00				A,6A B,7	17, 18 18	
A	15A	1		SHLD A15 E2-B					.25 .38	NO NO			
A	15L			P1-U P5-B7					.22 .18	NO NO		13 14, 21	
A	15R			P1-T P5-A7					.22 .18	NO NO		13 14, 21	
A	15Y			F4-B8 P5-B8				3.00	.38 .18	NO NO		 14, 21	
A	16	2		P1-V E4-B					.22 .38	NO NO		13	
A	17	2		P1-X E4-B					.22 .38	NO NO		13	
A	18	3				3.80 4.80	3.50 4.50				A,6B A,6B	17, 19 17, 19	
A	18A	1		SHLD A18 P1-F*					.25 .22	NO NO		 13	
A	18B	1		P5-D7 SHLD A18					.18 .25	NO NO		21, 30	
A	18L			P1-E* P5-D9					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR A | SHEET 13 OF 35

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 18R			P1-D* P5-D8					.22 .18	NO NO		13 14, 21	
A 19	3				3.80 1.80	3.50 1.50				A,6A B,7	17, 19 19	
A 19A	1		SHLD A19 E19-BB					.25 .38	NO NO			
A 19L			P1-I* E5-BB					.22 .38	NO NO		13	
A 19R			P1-H* E6-BB					.22 .38	NO NO		13	
A 20	2	4.00	E5-B P5-A6					.38 .18	NO NO		14, 21	
A 21	2	4.00	E6-B P5-A5					.38 .18	NO NO		14, 21	
A 22	2	4.00	E5-B P5-B6					.38 .18	NO NO		14, 21	
A 23	2	4.00	E6-B P5-B5					.38 .18	NO NO		14, 21	
A 24	3				3.80 1.80	3.50 1.50				A,6A B,7	17, 19 19	
A 24A	1		SHLD A24 E19-BB					.25 .38	NO NO			
A 24L			P1-K* E7-BB					.22 .38	NO NO		13	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 14 OF 35

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 24R			P1-J* E8-BB					.22 .38	NO NO		13	
A 25	2	4.00	E7-B P5-K6					.38 .18	NO NO		14, 21	
A 26	2	4.00	E8-B P5-H6					.38 .18	NO NO		14, 21	
A 27	2	4.00	E7-B P5-K7					.38 .18	NO NO		14, 21	
A 28	2	4.00	E8-B P5-H7					.38 .18	NO NO		14, 21	
A 29	3				3.80 1.80	3.50 1.50				A,6A A,6B	17, 19 19, 17	
A 29A	1		SHLD A29 P12-BB					.25 .38	NO NO		13	
A 29B	1		P1-MM SHLD A29									
A 29L			E9-BB P1-N*					.38 .22	NO NO		13	
A 29R			E10-BB P1-N*					.38 .22	NO NO		13	
A 30	2	4.00	E-9-B P5-F9					.38	NO NO		14, 21	
A 31	2	4.00	E10-B P5-G9					.38 .18	NO NO		14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 15 OF 35

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 32	2	4.00	E9-B P5-F8					.38 .18	NO NO		14, 21	
A 33	2	4.00	E10-B P5-G8					.38 .18	NO NO		14, 21	
A 34	5				3.30 3.30	3.00 3.00				A,6B A,6B	16, 20 16, 20	
A 34A	1		SHLD A34 P1-S					.25 .22	NO NO		13	
A 34B	1		P5-B2 SHLD A34					.18 .25	NO NO		21, 30	
A 34E			P1-R P5-B1					.22 .18	NO NO		13 39, 21	
A 35	2		P1-EE E11-BB					.22 .38	NO NO		13	
A 36	2	6.00	E11-B P5-B3					.38 .18	NO NO		14, 21	
A 37	2	6.00	E11-B P5-C8					.38 .18	NO NO		14, 21	
A 38	5				3.30 3.30	3.00 3.00				A,6B A,6B	16, 20 16, 20	
A 38A	1		SHLD A38 P1-C*					.25 .22	NO NO		13	
A 38B	1		P5-C9 SHLD A38					.18 .25	NO NO		21, 30	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 16 OF 35

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 38E			P1-B* P5-B9					.22 .18	NO NO		13 21, 39	
A 39	1		P3-1 P6-A6					.10 .18	NO NO		26 21, 30	
A 40	1		P3-2 P6-B6					.10 .18	NO NO		26 21, 30	
A 41	1		P3-3 P6-C6					.10 .18	NO NO		26 21, 30	
A 42	1		P3-4 P6-A8					.10 .18	NO NO		26 21, 30	
A 43	1		P3-5 P6-B8					.10 .18	NO NO		26 21, 30	
A 44	1		P3-30 P6-A7					.10 .18	NO NO		26 21, 30	
A 45	1		P3-31 P6-B7					.10 .18	NO NO		26 21, 30	
A 46	1		P3-32 P6-C7					.10 .18	NO NO		26 21, 30	
A 47	1		P3-105 P6-D10					.10 .18	NO NO		26 21, 30	
A 48	1		P3-106 P6-D9					.10 .18	NO NO		26 21, 30	
A 49	1		P3-35 P6-F10					.10 .18	NO NO		26 21, 30	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 17 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 50	1		P3-37 P6-F9					.10 .18	NO NO		26 21, 30	
A 51	6				2.80 3.80	2.50 3.50				A,6B A,6A	16, 19 19, 16	
A 51A	1		SHLD A51 P3-98					.25 .10	NO NO		 26	
A 51B	1		E12-BB SHLD A51					.38 .25	NO NO			
A 51L			P3-97 P6-K11					.10 .18	NO NO		26 21, 30	
A 51R			P3-96 P6-K10					.10 .18	NO NO		26 21, 30	
A 52	6				2.80 3.80	2.50 3.50				B,7 B,7	19 19	
A 52L			P3-59 P6-C13					.10 .18	NO NO		26 21, 30	
A 52R			P3-57 P6-H13					.10 .18	NO NO		26 21, 30	
A 53	6				2.80 3.80	2.50 3.50				A,6B A,6B	16, 19 16, 19	
A 53A	1		SHLD A53 P3-33					.25 .10	NO NO		 26	
A 53B	1		P6-D3 SHLD A53					.18 .25	NO NO		21, 30	

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR N A
SHEET 18 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 53L			P3-23 P6-D2					.10 .18	NO NO		26 21, 30	
A 53R			P3-21 P6-D1					.10 .18	NO NO		26 21, 30	
A 54	27				2.80 3.80	2.50 3.50				B,7 B,7	19 19	
A 54L			P3-15 P6-B13					.10 .18	NO NO		26 21, 30	
A 54R			P3-16 P6-A12					.10 .18	NO NO		26 21, 30	
A 54Y			P3-14 P6-A13					.10 .18	NO NO		26 21, 30	
A 55	6				2.80 3.80	2.50 3.50				B,7 B,7	19 19	
A 55L			P3-67 P6-B9					.10 .18	NO NO		26 21, 30	
A 55R			P3-66 P6-A9					.10 .18	NO NO		26 21, 30	
A 56	6				2.80 3.80	2.50 3.50				B,7 B,7	19 19	
A 56L			P3-69 P6-B10					.10 .18	NO NO		26 21, 30	
A 56R			P3-68 P6-A10					.10 .18	NO NO		26 21, 30	

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR # A
SHEET 19 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57	6				3.30 4.30	3.00 4.00				B,7 B,7	19 19	
A 57L			P3-71 P6-D5					.10 .18	NO NO		26 21, 30	
A 57R			P3-70 P6-D4					.10 .18	NO NO		26 21, 30	
A 58	6				3.30 4.30	3.00 4.00				B,7 B,7	19 19	
A 58L			P3-74 P6-C15					.10 .18	NO NO		26 21, 30	
A 58R			P3-73 P6-B15					.10 .18	NO NO		26 21, 30	
A 59	6				3.30 4.30	3.00 4.00				A,6B A,6B	16, 19 16, 19	
A 59A	1		SHLD A59 P3-63					.25 .10	NO NO		 26	
A 59B	1		P6-F3 SHLD A59					.18 .25	NO NO		21, 30	
A 59L			P3-52 P6-F2					.10 .18	NO NO		26 21, 30	
A 59R			P3-62 P6-F1					.10 .18	NO NO		26 21, 30	
A 60	6				3.30 4.30	3.00 4.00				B,7 B,7	19 19	

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR # A
SHEET 20 OF 35

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60L			P3-77 P6-B5					.10 .18	NO NO		26 21, 30	
A 60R			P3-76 P6-A5					.10 .18	NO NO		26 21, 30	
A 61	6				3.30 4.30	3.00 4.00				B,7 B,7	19 19	
A 61L			P3-80 P6-B4					.10 .18	NO NO		26 21, 30	
A 61R			P3-79 P6-A4					.10 .18	NO NO		26 21, 30	
A 62	1	6.00	P3-41 E13-B					.10 .38	NO NO		26	
A 63	1	6.00	P3-83 E13-B					.10 .38	NO NO		26	
A 64	1		E13-BB P6-D15					.38 .18	NO NO		 21, 30	
A 65	6				3.30 4.30	3.00 4.00				B,7 B,7	19 19	
A 65L			P3-85 P6-C14					.10 .18	NO NO		26 21, 30	
A 65R			P3-84 P6-B14					.10 .18	NO NO		26 21, 30	
A 66	6				3.80 4.80	3.50 4.50				A,6B A,6A	16, 19 16, 19	

SIZE A
CODE IDENT NO. 99974
2901597
SCALE-NONE
REV LTR // A
SHEET 21 OF 35

FORM 2084 9-65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 80	2	6.00	E16-B P4-C8					.38 .18	NO NO		 21, 30	
A 81	3				3.30 4.30	3.00 4.00				A,6A B,7	17, 19 19	
A 81A	1		SHLD A81 E19-B					.25 .38	NO NO			
A 81L			P2-R* P4-H14					.22 .18	NO NO		13 14, 21	
A 81R			P2-Q* P4-H15					.22 .18	NO NO		13 14, 21	
A 82	3				3.30 4.30	3.00 4.00				A,6B B,7	17, 19 19	
A 82A	1		SHLD A82 P2-PP					.25 .22	NO NO		 13	
A 82L			P2-T* P4-G15					.22 .18	NO NO		13 14, 21	
A 82R			P2-S* P4-G14					.22 .18	NO NO		13 14, 21	
A 83	3				5.80 4.30	5.50 4.00				B,7 B,7	19 19	
A 83L			E17-BB P4-F13				4.00	.38 .18	NO NO		 14, 21	
A 83R			P2-b* P4-F15					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 26 OF 35

FORM 2084 9.65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 84	2	4.00	P2-X* E17-B					.22 .38	NO NO		13	
A 85	2	4.00	P2-CC E17-B					.22 .38	NO NO		13	
A 86	5				3.30 3.30	3.00 3.00				A,6B A,6B	16, 20 16, 20	
A 86A	1		SHLD A86 P2-LL					.25 .22	NO NO		 13	
A 86B	1		P4-C14 SHLD A86					.18 .25	NO NO		21, 30	
A 86E			P2-KK P4-C15					.22 .18	NO NO		13 39, 21	
A 87	3				3.30 4.30	3.00 4.00				B,7 B,7	19 19	
A 87L			P2-NN P4-D15					.22 .18	NO NO		13 14, 21	
A 87R			P2-MM P4-D14					.22 .18	NO NO		13 14, 21	
A 88	4				3.30 4.30	3.00 4.00				A,6A B,7	17, 18 18	
A 88A	1		SHLD A88 E18-B					.25 .38	NO NO			
A 88L			P2-E P4-K13					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 27 OF 35

FORM 2084 9.65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 88R			P2-D P4-K12					.22 .18	NO NO		13 14, 21	
A 88Y			P2-F P4-H13					.22 .18	NO NO		13 14, 21	
A 89	3				3.80 4.80	3.50 4.50				A,6B A,6B	17, 19 17, 19	
A 89A	1		SHLD A89 P2-Z*					.25 .22	NO NO		 13	
A 89B	1		P4-G1 SHLD A89					.18 .25	NO NO		21, 30	
A 89L			P2-L P4-F1					.22 .18	NO NO		13 14, 21	
A 89R			P2-K P4-F2					.22 .18	NO NO		13 14, 21	
A 90	3				3.80 4.80	3.50 4.50				A,6A A,6B	17, 19 17, 19	
A 90A	1		SHLD A90 E18-B					.25 .38	NO NO			
A 90B	1		P4-A6 SHLD A90					.18 .25	NO NO		21, 30	
A 90L			P2-N P4-C6					.22 .18	NO NO		13 14, 21	
A 90R			P2-M P4-B6					.22 .18	NO NO		13 14, 21	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 28 OF 35

FORM 2084 9.65

FOSTER 030267 CABLE ASSEMBLY W152 2901597

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91	3				3.80 4.80	3.50 4.50				A,6A A,6B	17, 19 17, 19	
A 91A	1		SHLD A91 E18-B					.25 .38	NO NO			
A 91B	1		P4-G2 SHLD A91					.18 .25	NO NO		21, 30	
A 91L			P2-R P4-H2					.22 .18	NO NO		13 14, 21	
A 91R			P2-P P4-H1					.22 .18	NO NO		13 14, 21	
A 92	4				3.80 4.80	3.50 4.50				A,6A B,7	17, 18 18	
A 92A	1		SHLD A92 E18-B					.25 .38	NO NO			
A 92L			P2-V P4-G13					.22 .18	NO NO		13 14, 21	
A 92R			P2-U P4-G12					.22 .18	NO NO		13 14, 21	
A 92Y			P2-W P4-H12					.22 .18	NO NO		13 14, 21	
A 93	5				3.30 3.30	3.00 3.00				A,6B A,6B	16, 20 16, 20	
A 93A	1		SHLD A93 P2-C*					.25 .22	NO NO		 13	

SIZE A | CODE IDENT NO. 99974 | 2901597

SCALE-NONE | REV LTR #A | SHEET 29 OF 35

FORM 2064 9.65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 93B	1		P4-K10					.18	NO		21, 30	
			SHLD A93					.25	NO			
A 93E			P2-B*					.22	NO		13	
			P4-H10					.18	NO		21, 39	
A 94	2		P2-A*					.22	NO		13	
			P4-G10					.18	NO		14	
A 95	2		P2-D*					.22	NO		13	
			P4-F3					.18	NO		14	
A 96	3				4.30	4.00				A,6B	17, 19	
					5.30	5.00				A,6B	17, 19	
A 96A	1		SHLD A96					.25	NO			
			P2-Y*					.22	NO		13	
A 96B	1		P4-B3					.18	NO		21, 30	
			SHLD A96					.25	NO			
A 96L			P2-F*					.22	NO		13	
			P4-B1					.18	NO		14, 21	
A 96R			P2-F*					.22	NO		13	
			P4-B2					.18	NO		14, 21	
A 97	3				4.30	4.00				A,6A	17, 19	
					5.30	5.00				A,6B	17, 19	
A 97A	1		SHLD A97					.25	NO			
			E20-B					.38	NO			
A 97B	1		P4-A5					.18	NO		21, 30	
			SHLD A97					.25	NO			

SIZE	CODE IDENT NO.		
A	99974	2901597	
SCALE-NONE	REV LTR	A	SHEET 30 OF 35

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 97L			P2-H*						NO		13	
			P4-A3					.18	NO		14, 21	
A 97R			P2-G*						NO		13	
			P4-A4					.18	NO		14, 21	
A 98	3				4.30	4.00				A,6A	17, 19	
					5.30	5.00				A,6B	17, 19	
A 98A	1		SHLD A98					.25	NO			
			E20-B					.38	NO			
A 98B	1		P4-C5					.18	NO		21, 30	
			SHLD A98					.25	NO			
A 98L			P2-J*					.22	NO		13	
			P4-D5					.18	NO		14, 21	
A 98R			P2-I*					.22	NO		13	
			P4-F5					.18	NO		14, 21	
A 99	3				4.30	4.00				A,6A	17, 19	
					5.30	5.00				A,6B	17, 19	
A 99A	1		SHLD A99					.25	NO			
			E20-B					.38	NO			
A 99B	1		P4-C4					.18	NO		21, 30	
			SHLD A99					.25	NO			
A 99L			P2-M*					.22	NO		13	
			P4-F4					.18	NO		14, 21	
A 99R			P2-K*					.22	NO		13	
			P4-D4					.18	NO		14, 21	

SIZE	CODE IDENT NO.		
A	99974	2901597	
SCALE-NONE	REV LTR	A	SHEET 31 OF 35

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100	3				4.30	4.00				A,6A	17, 19	
					5.30	5.00				A,6B	17, 19	
A 100A	1		SHLD A100					.25	NO			
			E20-B					.38	NO			
A 100B	1		P4-G3					.18	NO		21, 30	
			SHLD A100					.25	NO			
A 100L			P2-EE					.22	NO		13	
			P4-H3					.18	NO		14, 21	
A 100R			P2-DD					.22	NO		13	
			P4-K3					.18	NO		14, 21	
A 101	3				4.30	4.00				A,6A	17, 19	
					5.30	5.00				A,6B	17, 19	
A 101A	1		SHLD A101					.25	NO			
			E20-B					.38	NO			
A 101B	1		P4-G4					.18	NO		21, 30	
			SHLD A101					.25	NO			
A 101L			P2-HH					.22	NO		13	
			P4-K4					.18	NO		14, 21	
A 101R			P2-GG					.22	NO		13	
			P4-H4					.18	NO		14, 21	
A 102	2		P2-B					.22	NO		13	
			E19-B					.38	NO			
A 103	1		P2-AA					.22	NO		13	
			P3-11					.10	NO		26	

SIZE	CODE IDENT NO.		
A	99974	2901597	
SCALE-NONE	REV LTR	A	SHEET 32 OF 35

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 104	1		P2-BB					.22	NO		13	
			P3-10					.10	NO		26	
A 105	1		P2-V*					.22	NO		13	
			P3-29					.10	NO		26	
A 106	1		P2-FF					.22	NO		13	
			P3-91					.18	NO		14, 21	
A 107	5				3.30	3.00				A,6B	16, 20	
					3.30	3.00				A,6B	16, 20	
A 107A	1		SHLD A107					.25	NO			
			P2-J					.22	NO		13	
A 107B	1		P4-H9					.18	NO		21, 30	
			SHLD A107					.25	NO			
A 107E			P2-H					.22	NO		13	
			P4-K9					.18	NO		21, 39	
A 108	2		E20-BB					.38	NO			
			P4-G9					.18	NO		14, 21	
A 109	2		E1-BB					.38	NO			
			E3-B					.38	NO			
A 110	2		E2-BB					.38	NO			
			E3-B					.38	NO			
A 111	2		P1-B					.22	NO		13	
			E3-B					.38	NO			
A 112	2		E18-BB					.38	NO			
			E3-BB					.38	NO			

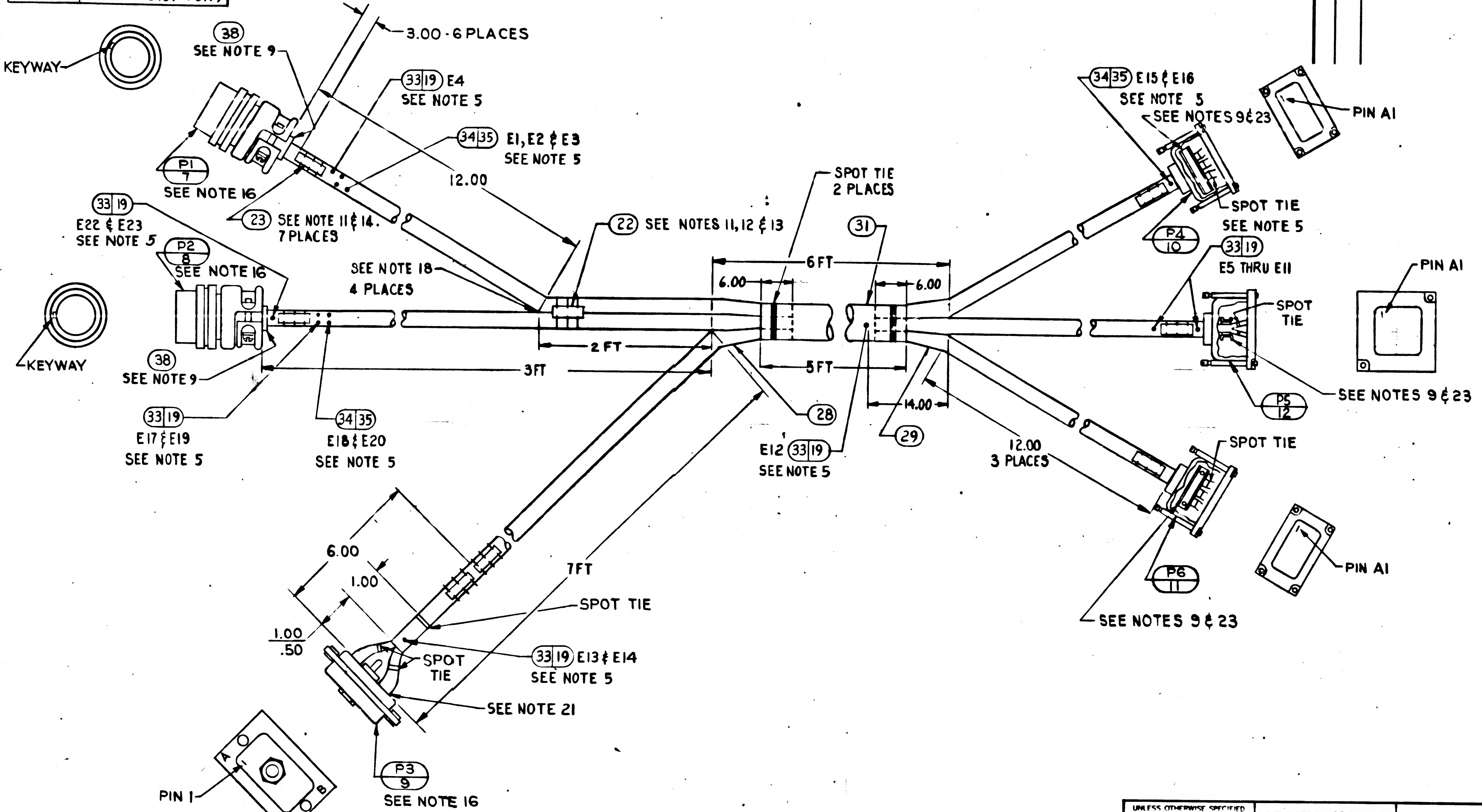
SIZE	CODE IDENT NO.		
A	99974	2901597	
SCALE-NONE	REV LTR	A	SHEET 33 OF 35

PLUG NO.	MARKING
P1	W152-P1(J1-TJB)
P2	W152-P2(J2-TJB)
P3	W152-P3(W153-P2)
P3	W152-P3(J2-ROC)
P4	W152-P4(J5-PSA)
P5	W152-P5(J9-PSA)
P6	W152-P6(J7-PSA)

A 2901597 2

REVISIONS TDM 33572

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		See Sht 1 for Rev Status			

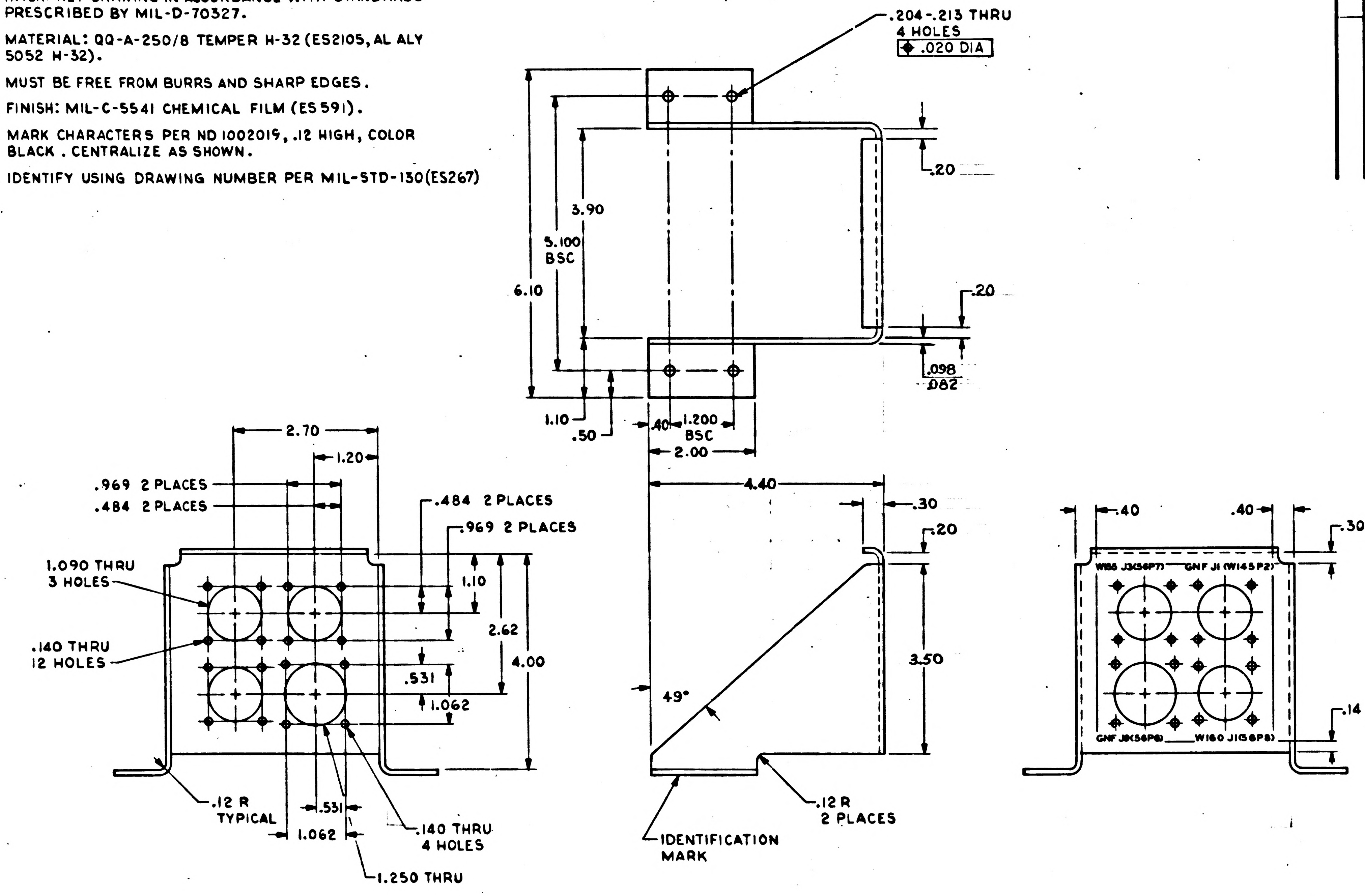

3.00-6 PLACES
38
SEE NOTE 9
KEYWAY
33 19 E4
SEE NOTE 5
34 35 E1, E2 & E3
SEE NOTE 5
12.00
P1
7
SEE NOTE 16
23 SEE NOTE 11 & 14.
7 PLACES
33 19
E22 & E23
SEE NOTE 5
P2
8
SEE NOTE 16
SEE NOTE 18
4 PLACES
22 SEE NOTES 11, 12 & 13
SPOT TIE
2 PLACES
31
6 FT
6.00
6.00
2 FT
3FT
5 FT
KEYWAY
38
SEE NOTE 9
33 19
E17 & E19
SEE NOTE 5
34 35
E18 & E20
SEE NOTE 5
28
E12 33 19
SEE NOTE 5
29
14.00
12.00
3 PLACES
34 35 E15 & E16
SEE NOTE 5
SEE NOTES 9 & 23
PIN A1
SPOT TIE
SEE NOTE 5
P4
10
33 19
E5 THRU E11
PIN A1
SPOT
TIE
SEE NOTES 9 & 23
P5
12
SPOT TIE
PIN A1
P6
11
SEE NOTES 9 & 23
6.00
1.00
1.00
.50
7FT
SPOT TIE
SPOT
TIE
33 19 E13 & E14
SEE NOTE 5
SEE NOTE 21
PIN 1
A
B
P3
9
SEE NOTE 16

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC ELECTRONICS DIVISION GENERAL MOTORS CORP MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
FRACTIONS + — − DECIMALS + — − ANGLES + — −	DRAWN J. Graff DATE 2 MAR 67 CHECKED Ed Foster 2 MAR 67 APPROVAL 6-67	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL, BRANCHED, W 152
DO NOT SCALE THIS DRAWING	CONTRACT NAS9-497	
MATERIAL —	NASA APPROVAL	CODE IDENT NO. 99974 · SIZE D · 2901597
CONTRACT NAS 9-497	APPROVAL	SCALE NONE · SHEET 35 OF 35

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-A-250/8 TEMPER H-32 (ES2105, AL ALY 5052 H-32).
3. MUST BE FREE FROM BURRS AND SHARP EDGES.
4. FINISH: MIL-C-5541 CHEMICAL FILM (ES591).
5. MARK CHARACTERS PER ND 1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
6. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130(ES267)

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 35627		15 FEB 68	27 NOV 67


.204-.213 THRU
4 HOLES
.020 DIA
3.90
5.100
BSC
6.10
.20
.20
.098
.082
1.10
.50
.40
1.200
BSC
2.00
2.70
1.20
.969 2 PLACES
.484 2 PLACES
.484 2 PLACES
.969 2 PLACES
1.090 THRU
3 HOLES
.140 THRU
12 HOLES
1.10
2.62
4.00
.531
1.062
.12 R
TYPICAL
.531
1.062
.140 THRU
4 HOLES
1.250 THRU
4.40
.30
.20
3.50
49°
IDENTIFICATION
MARK
.12 R
2 PLACES
.40
.40
.30
W155 J3(56P7)
GNF J1 (W145P2)
GNF J8(56P6)
W150 J1(56P8)
.14

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± .02 3 PLACE DECIMALS ± .005 ANGLES ± 2° DO NOT SCALE THIS DRAWING	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
			DRAWN G. Leonard DATE 27 SEP 67 CHECKED L. Tanko 3 Oct 67 APPROVAL R. Pierini 4 Oct 67 J. M. Watson 1-3-68 CONTRACT NAS 9-497	BRACKET, MOUNTING, ELECTRICAL CONNECTOR
2900673-031	2900067-051	MATERIAL SEE NOTE 2	NASA APPROVAL	SIZE D CODE IDENT NO. 99974 2901618
NEXT ASSY	USED ON	APPROVAL	MIT APPROVAL	SCALE 1:1 SHEET 1 OF 1
APPLICATION				

2901618

A 2901626

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MYLAR TAPE 1.000 ±.003 WIDE BY 3.5 ±.3 MILS THICK.
3. * REFER TO JDC REVISION.

DASH NO.	JDC NO. AND REVISION	TITLE	PROCUREMENT SPEC AND REVISION	EFF *
-001	12206-M	SYSTEM OPERATIONAL TEST	P52015000-REV J ON	REV M ON

REVISIONS

SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	INITIAL RELEASE CLASS A PER TDRR 36275		29 MAY 68	24 MAY 68

THE PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
±	±	±

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.

DRAWN J. REPINSKI DATE 22MAY68
CHECKED P. L. Novotek
APPROVAL Harold A. Cork
CONTRACT NAS 9-497
NASA APPROVAL
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CTS UPLINK TAPE
ASSEMBLY
SYSTEM OPERATIONAL TEST

SIZE	CODE IDENT NO.	
B	99974	2901626

SCALE —

SHEET 1 OF 1

MIL 10778-D 11 16 64

B | 2901626

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MYLAR TAPE 1.000 ± .003 WIDE BY 3.5 ± .3 MILS THICK.
3. * REFER TO JDC REVISION.

REVISIONS				
SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	INITIAL RELEASE CLASS A PER TDRR 36275		29 MAY 68	~~22~~ 24 MAY 68 GA
B	REVISED PER TDRR 37269		30 JAN	JJJ RWH

DASH NO.	JDC NO. AND REVISION	TITLE	PROCUREMENT SPEC AND REVISION	EFF *
-001	12206-M	SYSTEM OPERATIONAL TEST	PS2015000-REV J ON	REV M AND N
-002	12206-P	SYSTEM OPERATIONAL TEST	PS2015000-REV K ON	REV P ON

THE PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. REPINSKI DATE 22MAY68
CHECKED
APPROVAL Harold A Cork
CONTRACT NAS 9-497
NASA APPROVAL
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CTS UPLINK TAPE
ASSEMBLY
SYSTEM OPERATIONAL TEST

SIZE B
CODE IDENT NO. 99974
2901626
SCALE ——
SHEET 1 OF 1

MIL 10778 D 11 16 64

2901626 C

REVISIONS				
SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	INITIAL RELEASE CLASS A PER TDRR 30275		29 MAY 68	~~24 MAY 68~~
B	REVISED PER TDRR 37269		30 JAN 69	JJJ RWH
C	REVISED PER TDRR 37395		10 MAR 69	JJJ

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MYLAR TAPE 1.000 ±.003 WIDE BY 3.5 ±.3 MILS THICK.
3. * REFER TO JDC REVISION.

DASH NO.	JDC NO. AND REVISION	TITLE	PROCUREMENT SPEC AND REVISION	EFF *
-001	12206-M	SYSTEM OPERATIONAL TEST	PS2015000-REV J ON	REV M AND P
-002	12206-P	SYSTEM OPERATIONAL TEST	PS2015000-REV K ON	REV P
-003	12206-R	SYSTEM OPERATIONAL TEST	PS2015000-REV K ON	REV R ON

THE PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. REPINSKI DATE 22MAY68
CHECKED P L Novotek
APPROVAL Harold A Cork
CONTRACT NAS 9-497
NASA APPROVAL
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CTS UPLINK TAPE
ASSEMBLY
SYSTEM OPERATIONAL TEST

SIZE B
CODE IDENT NO. 99974
2901626
SCALE —
SHEET 1 OF 1

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	C	*REVISED -011; REPLACES WORD DRAWING*	CM 234430	29 Jul 68	Ju 1 Aug 68
	D	INITIAL RELEASE CLASS A PER TDRR			
	E	REVISED PER TDRR 37067		3 DEC 68	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. COMPLETE ETHYLENE GLYCOL CLEANING KIT INCLUDES ITEMS 1, 2 & 3 FOR ON SITE CLEANING REQUIREMENTS BUT ARE NOT STOWED IN CASE ASSEMBLY (ITEM 23).
3. MADE FROM: PLASTIC FILM (POLYETHYLENE) .004 THK FED SPEC L-P-378, TYPE II, GRADE C, FINISH L
4. INDICATED ITEMS, NOT ILLUSTRATED, ARE TO BE PACKED IN APPROPRIATE CONTAINER AS SHOWN IN TABLE I.
5. INDICATED ITEMS, NOT ILLUSTRATED, ARE TO BE PACKED IN THE KIT IN AREAS WHERE SUITABLE SPACE EXISTS. NO SPECIFIC LOCATION IS REQUIRED.
6. ITEMS 25 & 26 TO BE RINSED INSIDE WITH DISTILLED WATER BEFORE FILLING.
7. MARK LABELS WITH APPROPRIATE LEGEND AS SHOWN. USE DYMO 1/2 VINYL MARKING TAPE OR EQUIVALENT.
8. ITEM 24 PACKAGED ON 2 FT. WIDE ROLL IN CARDBOARD CONTAINER 4 1/2 X 5 X 24. REMOVE PLASTIC FILM FROM CARDBOARD CONTAINER PRIOR TO ASSEMBLY-DISCARD CONTAINER.
9. STENCIL "DRY NITROGEN" ON ITEM 28, USING WHITE, .50 HIGH CHARACTERS PER ND 1002219. CENTRALIZE AS SHOWN.
10. THE FOLLOWING ITEMS ARE OBTAINABLE FROM AC ELECTRONICS GENERAL STORES:

ITEM NO.	STOCK NO.
14	36890
17	53108
20	11534
35	39079

11. ITEM 28, PREPURIFIED NITROGEN CYLINDER IS PURCHASED FROM VENDOR, AND CYLINDER IS NOT RETURNABLE FOR CREDIT.
12. COMMERCIALLY AVAILABLE ITEMS HAVE BEEN PROCURED FROM THE SOURCES INDICATED FOR INITIAL KIT DELIVERY. ALTERNATE EQUIVALENT ITEM MAY BE USED FOR REPLACEMENT PURPOSES.

A.	18121	WILSHIRE FOAM PRODUCTS, INC. 2665 COLUMBIA ST. TORRANCE, CALIFORNIA 90503
B.	83217	MILWAUKEE BRUSH CO. 2236 N. 30TH ST. MILWAUKEE, WIS 53208
C.	11273	CENTRAL SCIENTIFIC CO. DIVISION OF CENCO INSTRUMENTS CORP CHICAGO, ILL.
D.	27097	KERN CHEMICAL CORP. 854-56 S. ROBERTSON BLVD. LOS ANGELES, CALIF 90035
E.	30646	BECKMAN INSTRUMENTS INC CEDAR GROVE OPERATION CEDAR GROVE, N.J. 07009
F.	27901	UNITED STATES PLASTIC CORP. 1550 ELIDA ROAD LIMA, OHIO 45805
G.	59728	ARTHUR H. THOMAS CO. 3RD & VINE ST PHILADELPHIA, PA.
H.	88301	MYSTIC TAPE INC. 1700 WINNETKA, AVE NORTHFIELD, ILL. 60094
J.	94480	FISHER SCIENTIFIC CO. NEW YORK, N.Y.
K.	22353	SCIENTIFIC PRODUCTS DIV AMERICAN HOSPITAL SUPPLY CORP 1210 LEON PLACE EVANSTON, ILL.
L.	96355	THE MATHESON CO. 932 PATTERSON PLANK RD. EAST RUTHERFORD, N.J. 07073
M.		
N.		TEXTILE PRODUCTS 205 W. VOGEL AVE. MILWAUKEE, WIS.

13. REMOVE GLOVES FROM CARDBOARD CONTAINER AND PACK GLOVES IN PLASTIC BOX (ITEM 36).
14. REMOVE SYRINGE FROM PAPER CONTAINER AND PLACE IN PLASTIC BAG (ITEM 35). TRIM OPEN END OF PLASTIC BAG AND HEAT SEAL.
15. MARK LABEL WITH APPROPRIATE LEGEND AS SHOWN. USE TYPEWRITER AND GUMMED LABEL (APPROX. 4 X 2 1/2).
16. ASSEMBLE THREE BRUSHES IN A PLASTIC BAG (ITEM 35 - 2 REQUIRED). TRIM OPEN END OF PLASTIC BAG AND HEAT SEAL.
17. REMOVE PAPER LABEL FROM PLASTIC TOOTH BRUSH CASE - DISCARD LABEL
18. REMOVE AND DISCARD WRAPPING PAPER AND/OR CARDBOARD CONTAINER, IF APPLICABLE, FROM THIS ITEM.

0.5 GALLONS
ISOPROPYL ALCOHOL

WARNING

FLAMMABLE
KEEP AWAY FROM HEAT AND OPEN FLAME.
KEEP CONTAINER CLOSED.
AVOID PROLONGED BREATHING OF VAPORS.
USE WITH ADEQUATE VENTILATION.

RED MARKING SEE NOTE 15

ATTACH TO ITEM 25

FREON

SEE NOTE 7

ATTACH TO ITEM 25

DISTILLED WATER

SEE NOTE 7

ATTACH TO ITEM 26

TABLE I (SEE NOTE 4)

CONTAINER ITEM NO.	CONTENTS ITEM NO.
25	29
25	30
26	32
33	7, 17 & 34 (20 PCS.)
33	20, 21 & 34 (20 PCS.)
33	6 & 14

011	ITEM NO.	CODE IDENT NO.	PART OR IDENTIFYING NO.	DRAWING OR SPECIFICATION NO.	NOMENCLATURE OR DESCRIPTION	NOTES OR REMARKS
1	36	27901	94037	10 1/2 X 6 X 2	C5-501 PLASTIC STORAGE BOX	
22	35		PM11725-012	2" X 12" (.003)	POLY BAG	14/16
40	34	18121		6 X 9	FOAM CLEANROOM "Z" WIPER	4
3	33	27901	81012	10 1/2 X 7 3/4 X 2 3/4	POLYETHYLENE PAN WITH COVER	
1	32			ASTM-P-1193 OR MSC-SPEC-C20	DISTILLED WATER 1 1/2 GAL	4
	31					
1	30			TT-I-735 GRADE B	ISOPROPYL ALCOHOL, 1/2 GALLON	4
1	29			BB-F-671 GR TF OR PCA OR MSC-SPEC-237	FREON 1/2 GALLON	4
1	28	96355	SIZE 4		CYLINDER, NITROGEN PREPURIFIED GRADE	9 11
	27					
1	26	22353	B7562-1		JERRICAN	6
2	25	22353	B7555-128		JUG, DISPENSING	6
1	24	NOTE 12 N			FILM, CLEAR PLASTIC .004 THICK. 4 FT X 100 FT	8
1	23		2901645-011		CASE ASSY	
1	22		1022889		FILLING FIXTURE NITROGEN CYLINDER	
6	21	83217			BRUSH, ACID-FLAT #1 BRISTLES	4/16
6	20				TOOTHBRUSH, DR WEST ADULT REGULAR, NYLON	4/17
24	19			28 X 32	BAG, PLASTIC	3/5
24	18			11 X 14	BAG, PLASTIC	3/5
1	17	88301	6407		TAPE, ELECTRICAL	4/18
	16					
	15					
1	14	94480	19300		THERMOMETER - 6"	4/18
1	13		2901636		HOSE & BLOWGUN ASSY	
1	12	96355	8-580		REGULATOR, 2 STAGE	
3	11	27097	F-14790		FUNNEL, STRAINING	5 18
6	10	59728	9823-E	16 OZ	BOTTLE, WASH	18
16	9	59728	2128-E15	400 ml	BEAKER, GRADUATED	18
1	8	59728	4408	200 ml	CYLINDER, GRADUATED	18
1	7	11273	19590		TONGS, FLASK & TEST TUBE	4
20	6	94480	14-823-120	10 CC	SYRINGE, DISPOSABLE WITH #21 GA NEEDLE	4
1	5	94480	11-394-110	LARGE	GLOVE, PLASTIC DISPOSABLE 100/PKG	3
1	4	94480	1-002-20		PUMP, ACID & CHEMICAL	5 18
1	3	30646	CEL-S01		CELL, DIP-POLYSTYRENE	2
1	2	30646	RD-B331		CONDUCTIVITY BRIDGE	2
1	1	30646	RD-200		CASE, CARRYING	2

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	1900030	1000000
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± 3 PLACE DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN J. Hayes DATE 23 JUL 68
CHECKED
APPROVAL 3-8-68
CONTRACT NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ETHYLENE GLYCOL
CLEANING KIT

SIZE E
CODE IDENT NO. 99974
2901630
SCALE NONE
SHEET 1 OF 2

6ϕ910621

REVISIONS TDRR 36712

SYM	DESCRIPTION	CHG NO.	DATE	APPD.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MYLAR TAPE 1.000 ±.003 WIDE BY 3.5 ±.3 MILS THICK.
3. * REFER TO JDC REVISION.

DASH NO.	JDC NO. AND REVISION	TITLE	PROCUREMENT SPEC AND REVISION	EFF *
001	12216-K	SEMI AUTOMATIC MODE TEST	PS2015000-REV J ON	REV K ON

THE PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − —
DECIMALS + — − —
ANGLES + — − —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN SANDERSON DATE 2 AUG 68
CHECKED P. Novshek 6 AUG 68
APPROVAL [illegible] 8/6/68
CONTRACT NAS 9-497
NASA APPROVAL
~~MIT~~ APPROVAL 26 Aug 68

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CTS UPLINK TAPE
ASSEMBLY
SEMI AUTOMATIC MODE TEST

SIZE B
CODE IDENT NO. 99974
2901649
SCALE ——
SHEET 1 OF 1

2901655

REVISIONS TDRR 36956

SYM	DESCRIPTION	CHG NO.	DATE	APPD.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MYLAR TAPE 1.000 ±.003 WIDE BY 3.5 ±.3 MILS THICK.
3. * REFER TO JDC REVISION.

DASH NO.	JDC NO. AND REVISION	TITLE	PROCUREMENT SPEC AND REVISION	EFF *
001	12617-L	G&N SYSTEM OPERATIONAL TEST	PS6015000-REV K ON	REV L ON

THE PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES.

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	+ −	+ −

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS

DRAWN L. Tanko DATE 5 SEP 68
CHECKED P Novotek 6 SEP 68
APPROVAL [illegible]
CONTRACT NAS 9-497
NASA APPROVAL [illegible]
APPROVAL [illegible] 10/24/68

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CTS UPLINK TAPE
ASSEMBLY –
G&N SYSTEM OPERATIONAL TEST

SIZE	CODE IDENT NO.	
B	99974	2901655

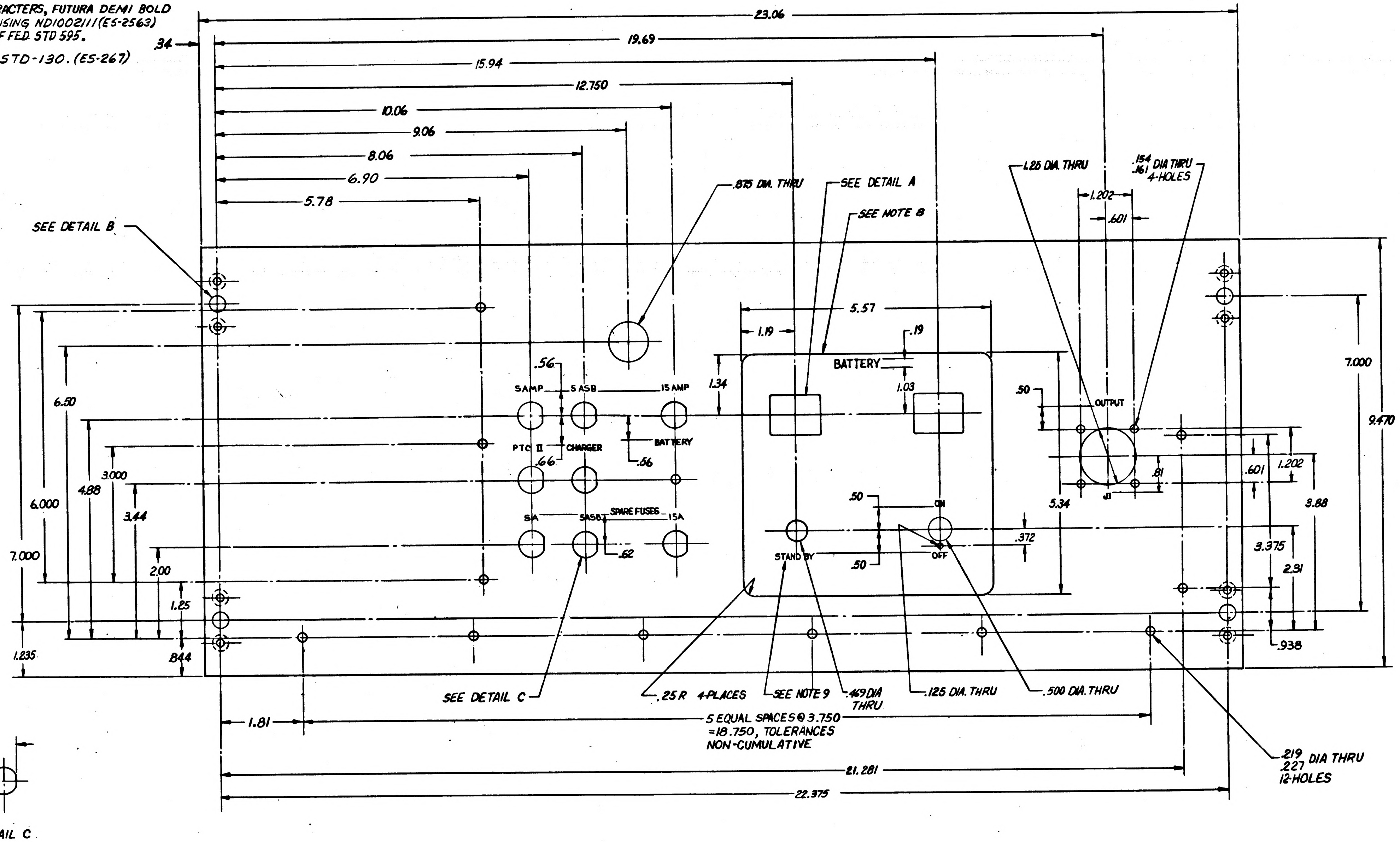
SCALE ——

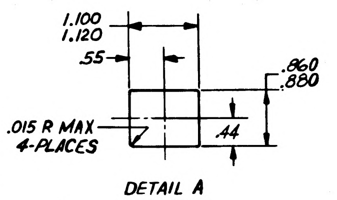
SHEET 1 OF 1

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR		5-26	

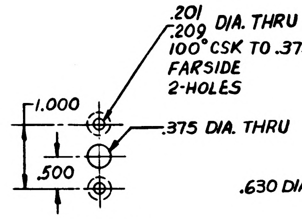
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM ALLOY, QQ-A-250/8, TEMPER H34 (5052 ES-2105).
3. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt[125]{}$.
   B. ALL CORNERS TO HAVE .005 TO .015 R. OR CHAMFER.
4. MUST BE FREE FROM BURRS.
5. PRIOR TO PLATING, PART SHALL BE TREATED WITH SODIUM ZINCATE PER AMS 2420 OR EQUIVALENT. CADMIUM PLATE PER QQ-P-416, TYPE II, .001 THICK MINIMUM.
6. APPLY FINISH P513 OF MIL-F-14072. APPLY MIL-P-8585, PRIMER, AND TWO COATS OF TT-E-529 CLASS B SEMI-GLOSS ENAMEL, LIGHT GRAY, COLOR 26440 OF FED. STD. 595 TO FRONT AND EDGES OF PANEL.
7. UNLESS OTHERWISE SPECIFIED SILK SCREEN CHARACTERS, FUTURA DEMI BOLD PER ND1002122 TYPE I, .12 HIGH PER ND1002112 USING ND1002111 (ES-2563) SEMI-GLOSS ENAMEL, INSTRUMENT BLACK COLOR 514 OF ANA 157.
8. SILK SCREEN AREA INDICATED PER ND1002112 USING SEMI-GLOSS ENAMEL, PER ND1002111 (ES 2563), DARK GRAY, COLOR 26251 OF FED-STD-595.
9. UNLESS OTHERWISE SPECIFIED SILK SCREEN CHARACTERS, FUTURA DEMI BOLD PER ND1002122 TYPE I, .12 HIGH PER ND1002112 USING ND1002111 (ES-2563) SEMI-GLOSS ENAMEL, INSIGNIA WHITE, COLOR 27886 OF FED. STD 595.
10. IDENTIFY USING PART NUMBER PER MIL-STD-130. (ES-267)

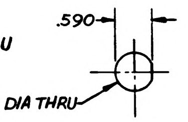

23.06
19.69
15.94
12.750
10.06
9.06
8.06
6.90
5.78
.34
SEE DETAIL B
.875 DIA. THRU
SEE DETAIL A
SEE NOTE 8
1.25 DIA. THRU
.154 .161 DIA THRU 4-HOLES
1.202
.601
5.57
1.19
.19
BATTERY
1.03
1.34
.56
5AMP
5ASB
15AMP
PTC II
CHARGER
BATTERY
.66
.56
5A
5ASB
SPARE FUSES
15A
.62
.50
ON
STAND BY
OFF
.50
.372
OUTPUT
J1
.81
.601
1.202
3.88
3.375
2.31
.938
5.34
7.000
9.470
6.50
6.000
4.88
3.000
3.44
7.000
2.00
1.25
1.235
.844
SEE DETAIL C
.25R 4-PLACES
SEE NOTE 9
.469 DIA THRU
.125 DIA. THRU
.500 DIA. THRU
1.81
5 EQUAL SPACES @ 3.750 =18.750, TOLERANCES NON-CUMULATIVE
21.281
22.375
.219 .227 DIA THRU 12-HOLES


1.100 1.120
.55
.860 .880
.015 R MAX 4-PLACES
.44

DETAIL A
2 PLACES


.201 .209 DIA. THRU
100° CSK TO .375 DIA. FARSIDE 2-HOLES
1.000
.375 DIA. THRU
.500

DETAIL B
4-PLACES

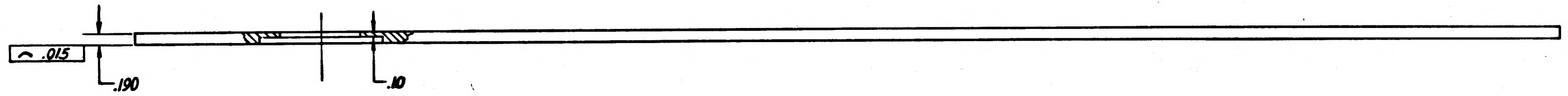

.590
.630 DIA THRU

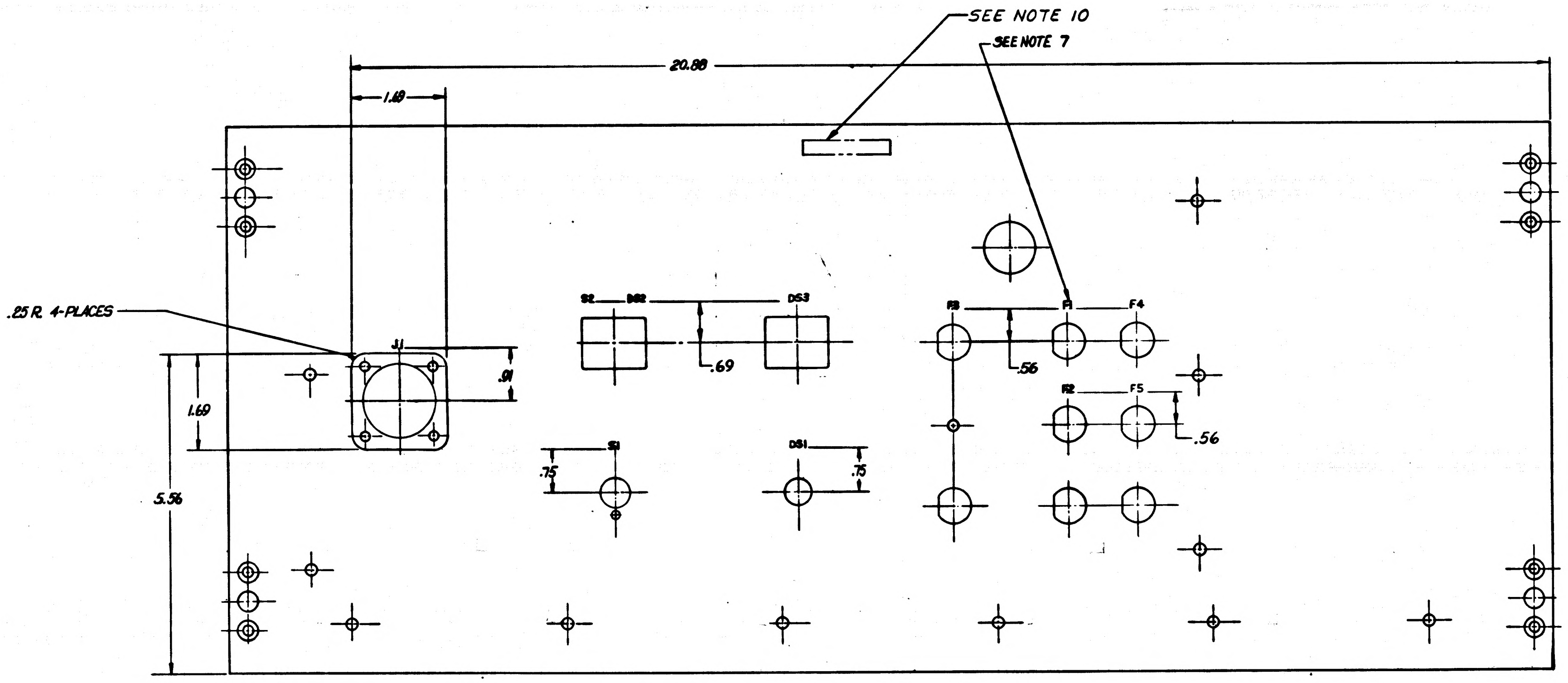
DETAIL C
8 PLACES

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS + − − − DECIMALS ±.02 ±.005 ANGLES +2° −2°	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN DATE 3-DEC-63 CHECKED 3 DEC 63 APPROVAL 13 Dec 63 CONTRACT	PANEL, AUXILIARY BATTERY PACK
		MATERIAL SEE NOTE 2	NASA APPROVAL	CODE IDENT NO. 99974 SIZE E 2901661
		CONTRACT NAS 9-497	MIT APPROVAL	SCALE FULL SHEET 1 OF 2

2901661

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR			





SEE NOTE 10
SEE NOTE 7
20.88
1.18
.25 R. 4-PLACES
J1
.91
1.69
5.56
S2
DS2
DS3
.69
S1
.75
DS1
.75
F3
F1
F4
.56
F2
F5
.56

2901661

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+2°
− —	±.005	−2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS 9-497

NEXT ASSY | USED ON
APPLICATION

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.

DRAWN DATE 13-DEC-68
CHECKED
APPROVAL K. Perini 13 Dec 68
CONTRACT
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

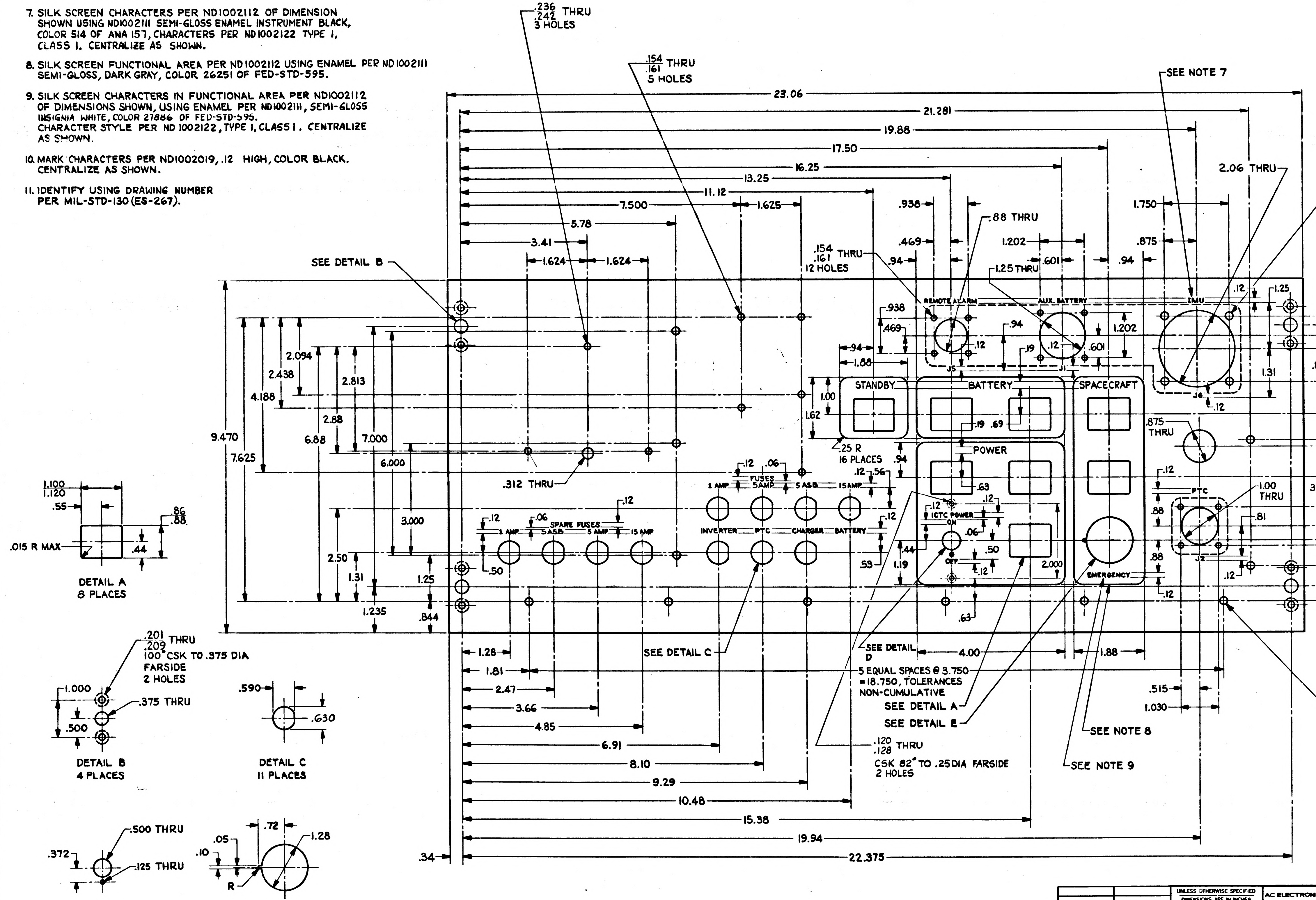
PANEL,
AUXILIARY BATTERY PACK

CODE IDENT NO. 99974
SIZE E
2901661
SCALE FULL
SHEET 2 OF 2

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: ALUMINUM ALLOY, QQ-A-250/8 TEMPER H-34 (ES-2105, 5052-H34).
3. UNLESS OTHERWISE SPECIFIED:
   A. SURFACE ROUGHNESS MUST NOT EXCEED 125/.
   B. ALL CORNERS TO HAVE .005 TO .015 R OR CHAMFER.
4. MUST BE FREE FROM BURRS.
5. PRIOR TO PLATING, PART SHALL BE TREATED WITH SODIUM ZINCATE PER AMS 2420 OR EQUIVALENT. CADMIUM PLATE PER QQ-P-416, TYPE II, .001 THICK MINIMUM.
6. TO FRONT AND EDGES OF PART, APPLY MIL-P-8585 PRIMER (ES 2589) AND TWO COATS OF TT-E-529, CLASS B, SEMI-GLOSS ENAMEL, LIGHT GRAY, COLOR 26440 OF FED-STD-595.
7. SILK SCREEN CHARACTERS PER ND1002112 OF DIMENSION SHOWN USING ND1002111 SEMI-GLOSS ENAMEL INSTRUMENT BLACK, COLOR 514 OF ANA 157, CHARACTERS PER ND1002122 TYPE I, CLASS I. CENTRALIZE AS SHOWN.
8. SILK SCREEN FUNCTIONAL AREA PER ND1002112 USING ENAMEL PER ND1002111 SEMI-GLOSS, DARK GRAY, COLOR 26251 OF FED-STD-595.
9. SILK SCREEN CHARACTERS IN FUNCTIONAL AREA PER ND1002112 OF DIMENSIONS SHOWN, USING ENAMEL PER ND1002111, SEMI-GLOSS INSIGNIA WHITE, COLOR 27886 OF FED-STD-595. CHARACTER STYLE PER ND 1002122, TYPE I, CLASS I. CENTRALIZE AS SHOWN.
10. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK. CENTRALIZE AS SHOWN.
11. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES-267).

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 37299		5 [illegible]	



.236 .242 THRU 3 HOLES
.154 .161 THRU 5 HOLES
SEE NOTE 7
23.06
21.281
19.88
17.50
16.25
13.25
11.12
7.500
1.625
5.78
3.41
1.624
1.624
SEE DETAIL B
.154 .161 THRU 12 HOLES
.938
.469
.94
.88 THRU
1.25 THRU
1.202
.601
.94
1.750
.875
2.06 THRU
.183 .191 THRU 4 HOLES
REMOTE ALARM
AUX. BATTERY
IMU
J5
J1
J6
STANDBY
BATTERY
SPACECRAFT
POWER
.25 R 16 PLACES
1.00
1.62
.19
.69
.63
.875 THRU
PTC
J2
1.00 THRU
.81
.88
.12
1 AMP
FUSES
5 AMP
5 ASB
15 AMP
SPARE FUSES
INVERTER
PTC
CHARGER
BATTERY
ICTC POWER
ON
OFF
EMERGENCY
.44
.50
.06
1.19
.53
2.000
.56
.312 THRU
9.470
7.625
6.88
4.188
2.438
2.094
2.813
2.88
7.000
6.000
3.000
2.50
1.31
1.25
1.235
.844
.50
1.750
.875
1.31
1.25
3.375
.515
1.030
3.31
4.13
2.00
1.63
.938
5.00
6.75
7.12
7.000
SEE DETAIL C
SEE DETAIL D
5 EQUAL SPACES @ 3.750 = 18.750, TOLERANCES NON-CUMULATIVE
SEE DETAIL A
SEE DETAIL E
.120 .128 THRU CSK 82° TO .25 DIA FARSIDE 2 HOLES
SEE NOTE 8
SEE NOTE 9
.219 .227 THRU 11 HOLES
4.00
1.88
.515
1.030
1.28
1.81
2.47
3.66
4.85
6.91
8.10
9.29
10.48
15.38
19.94
22.375
.34
1.100 1.120
.55
.86 .88
.015 R MAX
.44
DETAIL A 8 PLACES
.201 .209 THRU 100° CSK TO .375 DIA FARSIDE 2 HOLES
1.000
.375 THRU
.500
DETAIL B 4 PLACES
.590
.630
DETAIL C 11 PLACES
.500 THRU
.372
.125 THRU
DETAIL D
.72
1.28
.05
.10
R
DETAIL E

1912,630-021		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ±.005 ±.02 ANGLES ±2° DO NOT SCALE THIS DRAWING	AC ELECTRONICS DIVISION GENERAL MOTORS CORP. MILWAUKEE WIS. DRAWN 13-DEC-68 CHECKED 30 DEC 68 APPROVAL 13 Dec 68 APPROVAL 23 JAN 69
NEXT ASSY	USED ON	MATERIAL SEE NOTE 2	NASA APPROVAL
APPLICATION		CONTRACT NAS 9-497	MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, FRONT —
BATTERY POWER PACK

CODE IDENT NO. 99974 | SIZE E | 2901662

SCALE FULL | SHEET 1 OF 2

2901662

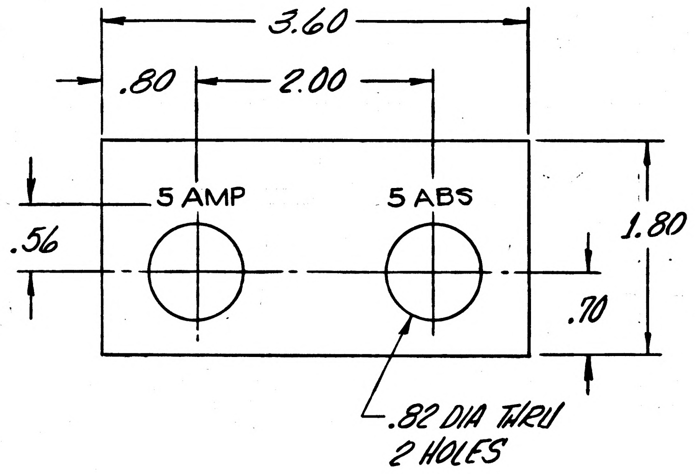
2901663 A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER PER MIL-STD-130 (ES267).
3. CHARACTERS: "SANS-SERIFS GOTHIC", .12 HIGH. LOCATE AND CENTRALIZE AS SHOWN.
4. MUST BE FREE FROM TEARS.

REVISIONS

SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	INITIAL RELEASE CLASS A PER TDRR 37299		5 Feb 69	



NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+.02	+—	+—
-.02	-—	-—

DO NOT SCALE THIS DRAWING

MATERIAL STENCIL PAPER

CONTRACT NAS 9-497

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
ACSP PN

DRAWN Romanoski DATE Dec 68
CHECKED Menkek 13 DEC 68
APPROVAL K Pierini 13 DEC 68
APPROVAL J. M. Watson 23 JAN 69
NASA APPROVAL
MIT APPROVAL 29 JAN 69

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

STENCIL, IDENTIFICATION

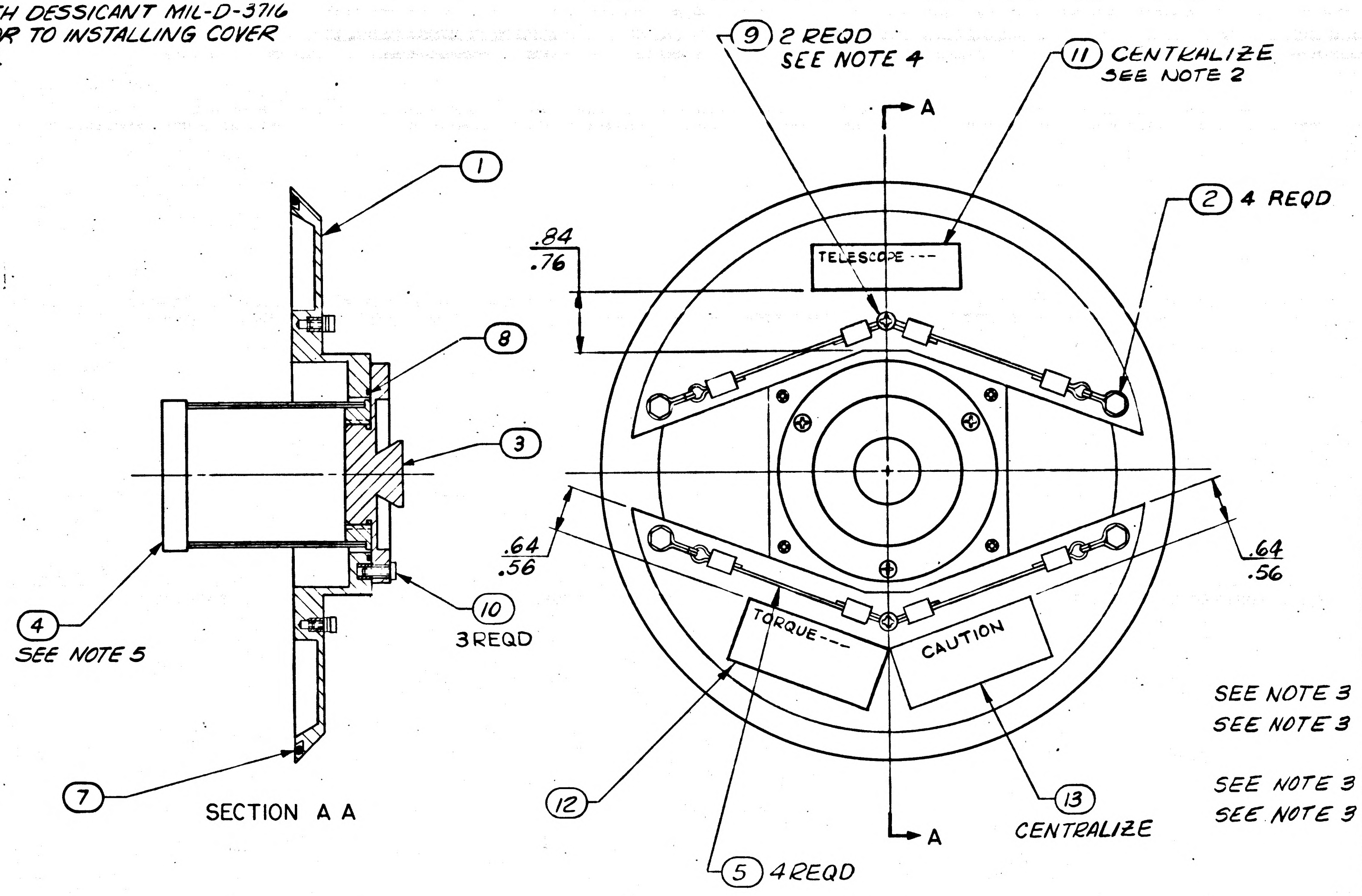
CODE IDENT NO. 99974
SIZE B
2901663
SCALE FULL
SHEET 1 OF 1

MIL 10778-D 11-16-64

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	A	REVISED PER D.O. 66967		24 OCT 68	
	B	REVISED PER DO 66994		12 NOV 68	JCD
	C	REVISED PER DO 69004		4 DEC 68	LGC
	D	INITIAL RELEASE CLASS A PER TDRR 3-1548		1 MAY 69	10 DEC 68

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SERIALIZE PER ND 1002023.
3. VENDOR ITEM: SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING.
4. CABLE MUST BE FREE TO TURN UNDER SCREW HEAD (SCREW TO BE ½ TO 1 TURN LOOSE)
5. ITEM 4 TO BE FILLED WITH DESSICANT MIL-D-3716 TYPE IV GRADE H PRIOR TO INSTALLING COVER ASSEMBLY ON OPTICS.



				1	13	2901672-002	PLATE, INFORMATION	
				1	12	2901672-001	PLATE, INFORMATION	
				1	11	2901671-002	PLATE, IDENTIFICATION	
				3	10	1902668	SCREW PAN HEAD	
				2	9	NAS1635-04LE4	SCREW PAN HEAD	
SEE NOTE 3				1	8	1897430-008	PACKING, PREFORMED 'O' RING	
SEE NOTE 3				1	7	1897430-005	PACKING, PREFORMED 'O' RING	
					6			
SEE NOTE 3				4	5	1897212-11	NYLON ROPE ASSY	
SEE NOTE 3				1	4	1008999	BASKET, DESICCATOR	
				1	3	2901668	CAP, DESICCATOR	
				4	2	2901664	SCREW, MACH. CAPTIVATED	
				1	1	2901667-011	COVER, TELESCOPE (INSEP ASSY)	
				011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
	QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS			

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − | 3 PLACE DECIMALS + — − | ANGLES + — −
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS
DRAWN Bender DATE 13-MAY-68
CHECKED 14 MAY 68
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

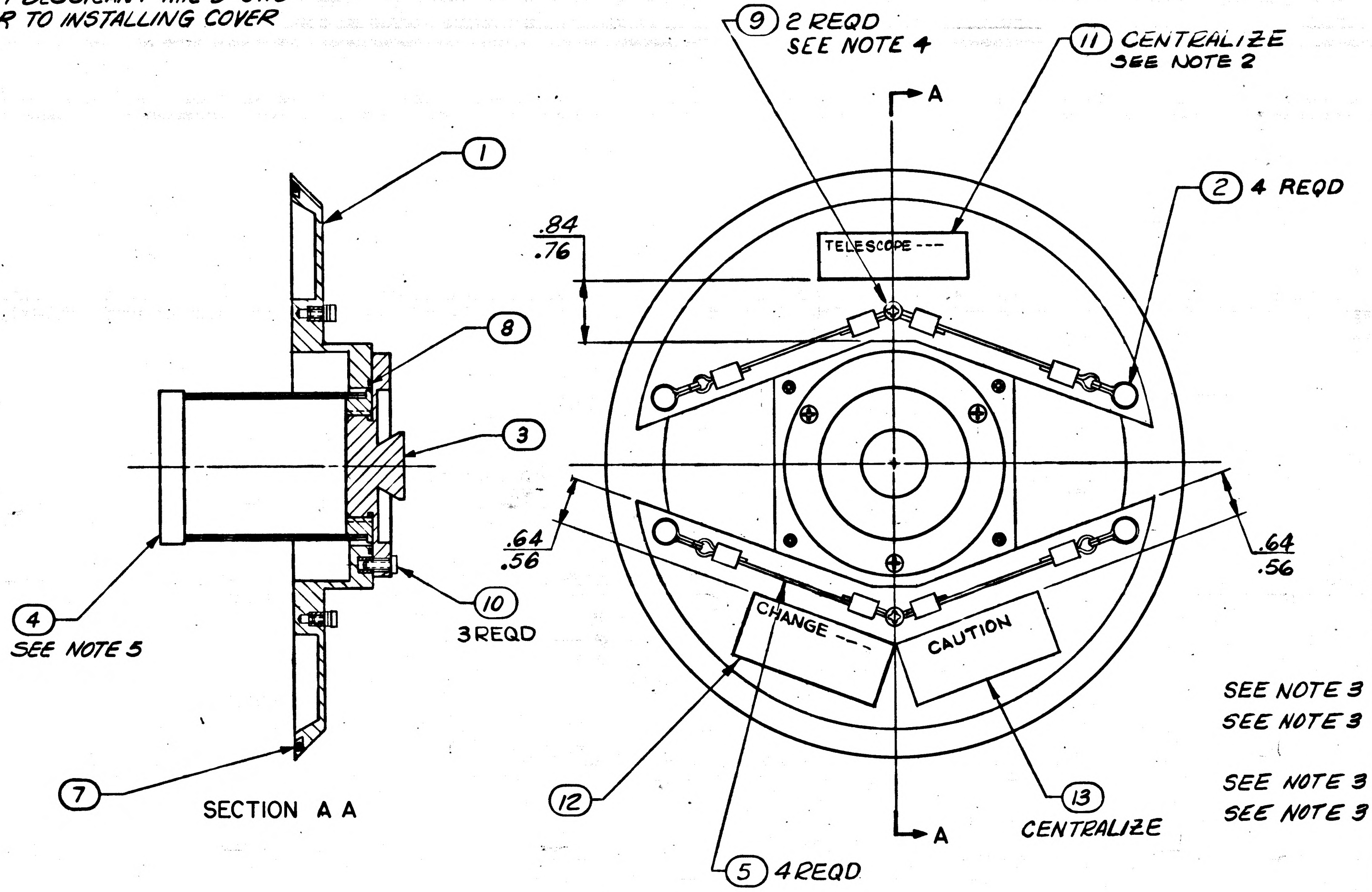
COVER ASSEMBLY, TELESCOPE

SIZE D
CODE IDENT NO. 99974
2901666
SCALE FULL
SHEET 1 OF 1

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	A	REVISED PER D.O. 66967		24 OCT 68	
	B	REVISED PER DO 66994		12 NOV 68	JCD
	C	REVISED PER DO 69004		4 DEC 68	LGC
	D	INITIAL RELEASE CLASS A PER TDRR 37548		1 MAY 69	10 DEC 68
	E	REVISED PER TDRR 37554		2 MAY 69	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SERIALIZE PER ND 1002023.
3. VENDOR ITEM: SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING.
4. CABLE MUST BE FREE TO TURN UNDER SCREW HEAD (SCREW TO BE ½ TO 1 TURN LOOSE)
5. ITEM 4 TO BE FILLED WITH DESSICANT MIL-D-3716 TYPE IV GRADE H PRIOR TO INSTALLING COVER ASSEMBLY ON OPTICS.



SECTION A A

				ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
			1	13	2901672-002	PLATE, INFORMATION	
			1	12	2901672-001	PLATE, INFORMATION	
			1	11	2901671-002	PLATE, IDENTIFICATION	
			3	10	1902668	SCREW PAN HEAD	
			2	9	NAS 1635-04LE4	SCREW PAN HEAD	
SEE NOTE 3			1	8	1897430-008	PACKING, PREFORMED 'O' RING	
SEE NOTE 3			1	7	1897430-005	PACKING, PREFORMED 'O' RING	
				6			
SEE NOTE 3			4	5	1897212-11	NYLON ROPE ASSY	
SEE NOTE 3			1	4	1008999	BASKET, DESICCATOR	
			1	3	2901668	CAP, DESICCATOR	
			4	2	2901664	SCREW, MACH. CAPTIVATED	
			1	1	2901667-011	COVER, TELESCOPE (INSEP ASSY)	
			011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
QUANTITY REQUIRED				LIST OF PARTS AND MATERIALS			

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2901666

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	APPLICATION	

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2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Bender DATE 13-MAY-68
CHECKED LIMA 14 MAY 68
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, TELESCOPE

SIZE D
CODE IDENT NO. 99974
2901666
SCALE FULL
SHEET 1 OF 1

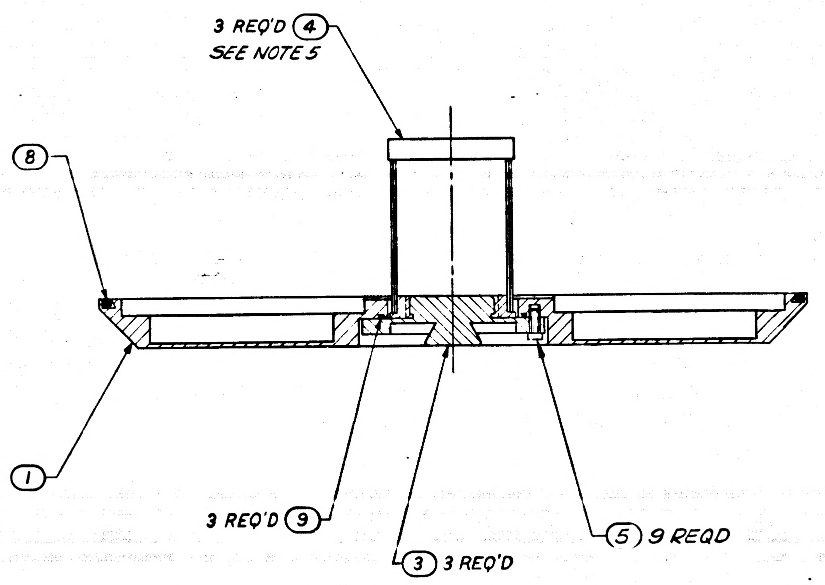
MIL-10520 K

NOTES:

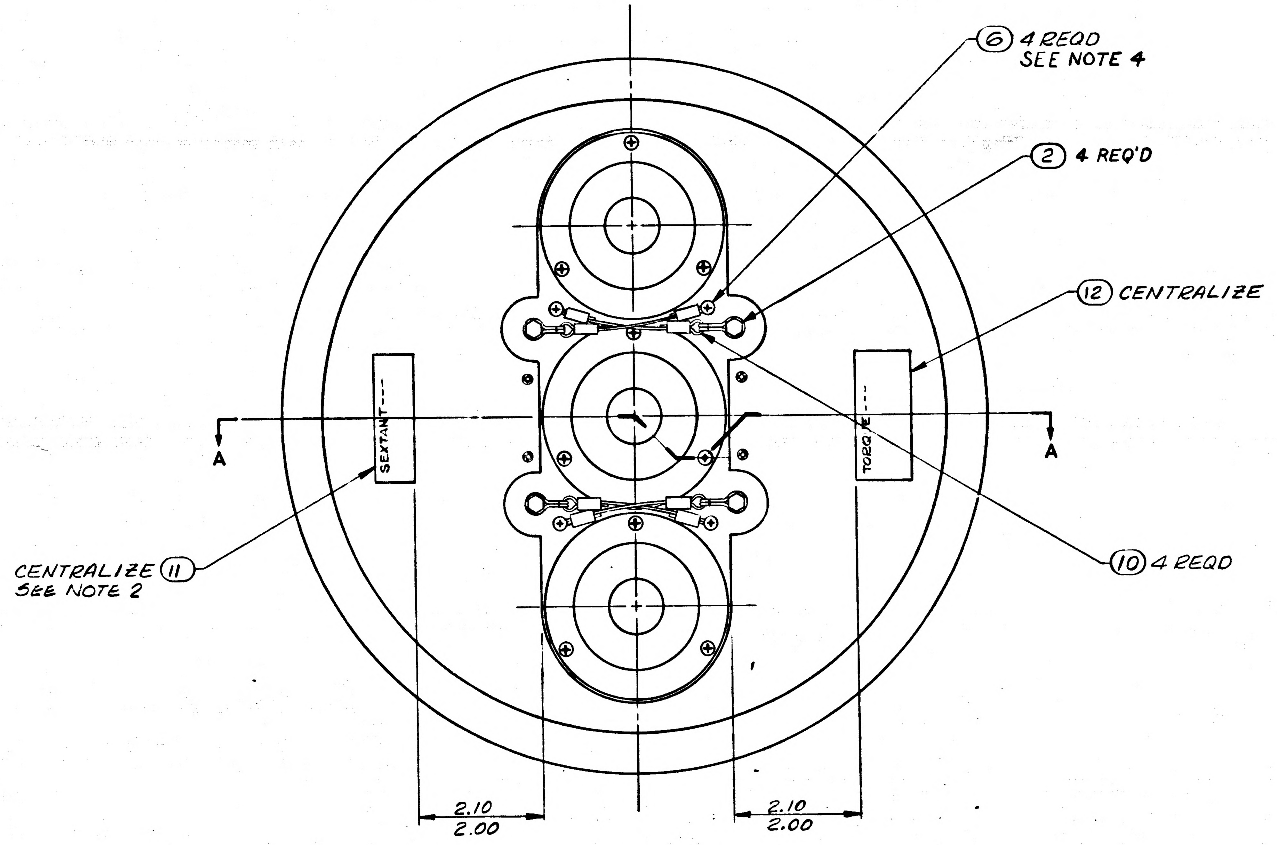
1. INTERPRET DRAWING IN ACCORANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SERIALIZE PER ND 1002023.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING.
4. CABLE MUST BE FREE TO TURN UNDER SCREW HEAD. (SCREW TO BE ½ TO 1 TURN LOOSE)
5. ITEM 4 TO BE FILLED WITH DESSICANT MIL-D-3716 TYPE IV GRADE H PRIOR TO INSTALLING COVER ASSEMBLY ON OPTICS.

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	A	REVISED PER D.O. 56967		24 OCT 68	
	B	REVISED PER DO 66994		13 NOV 68	JCD
	C	REVISED PER DO 69004		4 DEC 68	LGC
	i	INITIAL RELEASE CLASS A PER TDRR 1544		1 MAY 69	



SECTION A-A



	011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
	1	12	2901672-001	PLATE, INSTRUCTION.	
	1	11	2901671-001	PLATE, IDENTIFICATION	
SEE NOTE 3	4	10	1897212-10	NYLON ROPE ASSY	
SEE NOTE 3	3	9	1897430-008	PACKING, PREFORMED "O" RING	
SEE NOTE 3	1	8	1897430-007	PACKING, PREFORMED "O" RING	
		7			
	4	6	NAS1635-04LE4	SCREW, PAN HEAD	
	9	5	1902668	SCREW	
SEE NOTE 3	3	4	1008999	BASKET, DESICCATOR	
	3	3	2901668	CAP, DESICCATOR	
	4	2	2901664	SCREW, MACH. CAPTIVATED	
	1	1	2901670-011	COVER, SEXTANT (INSEP ASSY)	

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

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DO NOT SCALE THIS DRAWING
MATERIAL ——
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP MILWAUKEE WIS.
DRAWN Bender DATE 8-MAY-68
CHECKED 14 MAY 68
APPROVAL 31
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, SEXTANT

SIZE E
CODE IDENT NO. 99974
2901669
SCALE FULL
SHEET 1 OF 1

NOTES:

1. INTERPRET DRAWING IN ACCORANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SERIALIZE PER ND 1002023.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL OR SOURCE CONTROL DRAWING.
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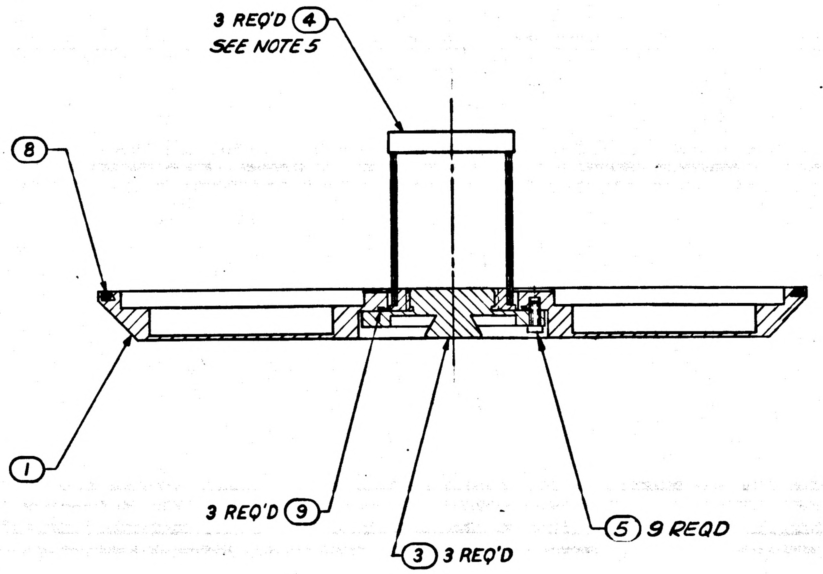
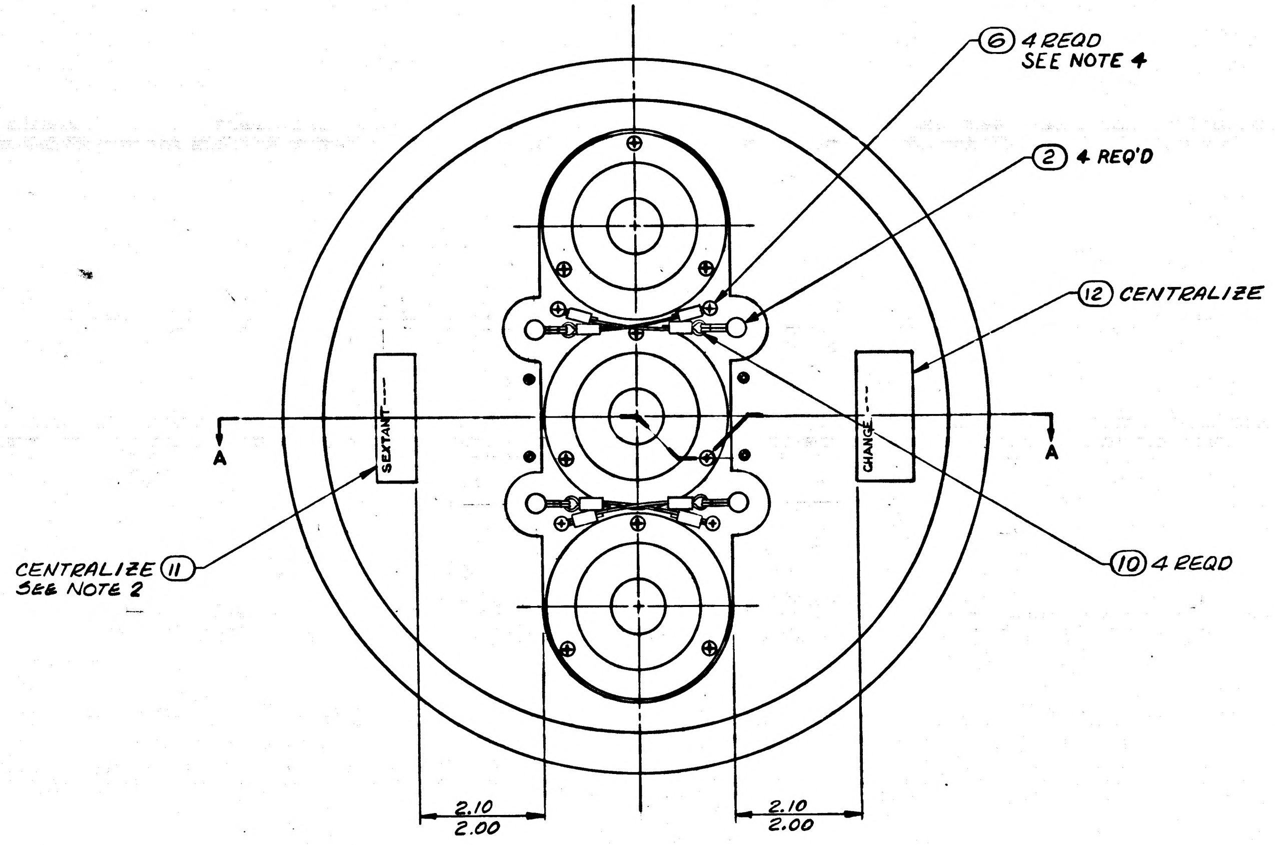


SECTION A-A



REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPD
	A	REVISED PER D.O. 66967		24 OCT 68	
	B	REVISED PER DO 66994		13 NOV 68	JCD
	C	REVISED PER DO 69004		6 DEC 68	GC
	D	INITIAL RELEASE CLASS A PER TDRR 37549		1 MAY 69	
	E	REVISED PER TDRR 37555		2-MAY-69	J.B.

	QUANTITY REQUIRED 011	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	CODE IDENT
	1	12	2901672-001	PLATE, INSTRUCTION	
	1	11	2901671-001	PLATE, IDENTIFICATION	
SEE NOTE 3	4	10	1897212-10	NYLON ROPE ASSY	
SEE NOTE 3	3	9	1897430-008	PACKING, PREFORMED "O" RING	
SEE NOTE 3	1	8	1897430-007	PACKING, PREFORMED "O" RING	
		7			
	4	6	NAS1635-04LE4	SCREW, PAN HEAD	
	9	5	1902668	SCREW	
SEE NOTE 3	3	4	1008999	BASKET, DESICCATOR	
	3	3	2901668	CAP, DESICCATOR	
	4	2	2901664	SCREW, MACH. CAPTIVATED	
	1	1	2901670-011	COVER, SEXTANT (INSEP ASSY)	

LIST OF PARTS AND MATERIALS

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DO NOT SCALE THIS DRAWING
MATERIAL ——
APPROVAL M. Eugene 30 ...

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN Bender DATE 8-MAY-68
CHECKED Lima 14 MAY 68
APPROVAL Smith 31 OCT 68
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, SEXTANT

SIZE E | CODE IDENT NO. 99974 | 2901669
SCALE FULL | SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21248

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 27778				

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4		COLUMN 5		COLUMN 6		COLUMN 7		COLUMN 8		COLUMN 9	
AGC SUB SYSTEM	AGC SUB SYSTEM (NO. REF)	AGC	AGC BRACKET SCR RET.	QTY	BRACKET MOUNTING SCREW	QTY	AGC BOLT, CAP, SOCKET HD	QTY	AGC WASHER FLAT	QTY	MAIN DSKY	QTY	NAME PLATE INFORMATION (SEE NOTE 2) SERIAL NO.	PART DASH NO.
6003001 -011		2003100-011	2004149-003	14	1001489-3	28	2004147-004	14	2004148-001	28	2003985-031	1		6003001-011
6003001-021		2003100-021	2004149-003	14	1001489-3	28	2004147-004	14	2004148-001	28	2003985-031	1		6003001-021

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. STAMP NAME PLATE ON AGC AND MAIN DSKY WITH PART NO. AND SERIAL NO. PER COLUMN 9

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. Romey 22 Jul 65
CHECKED 22 Jul 65
APPROVED
APPROVED Eldon C. Hall
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

APOLLO GUIDANCE
COMPUTER GROUP

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6003001
SCALE NONE
SHEET 1 OF 1

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REVISIONS 21248

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22778	LAK	BK	30 Sep 65	WK
B		REVISED PER TDRR 25803	LAK	BK	3 Feb 66	WK

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4		COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8
AGC SUB SYSTEM	G&N SUB SYSTEM (NO. REF)	AGC	MAIN DSKY	QTY	P.S. NO. AGC SUB-SYSTEM	AGC RAY SER. NO. REFERENCE	DSKY RAY SER. NO. REFERENCE	INSTALLATION KIT NO.
6003001-011		2003100-011	2003985-031	1				600400
6003001-021	601	2003100-021	2003985-051	1	6003001			600400

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. Romey 22 Jul 65
CHECKED 22 Jul 65
APPROVED
APPROVED Eldon C. Hall
APPROVED MIT W. Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

APOLLO GUIDANCE COMPUTER GROUP

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6003001
SCALE NONE
SHEET 1 OF 1

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REVISIONS 2/248

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22778	[illegible]	[illegible]	[illegible]	WR
B		REVISED PER TDRR 25803	[illegible]	[illegible]	[illegible]	WR
C		REVISED PER TDRR 27685	SPJ	[illegible]	[illegible]	[illegible]

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4		COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8
AGC SUB SYSTEM	G & N SUB SYSTEM (NO. REF)	AGC	MAIN DSKY	QTY	PS. NO. AGC SUB SYSTEM	AGC RAY SER. NO. REFERENCE	DSKY RAY SER. NO. REFERENCE	INSTALLATION KIT NO.
6003001-011		2003100-011	2003985-031	1				6004000-000
6003001-021	601	2003100-021	2003985-051	1	6003001	7	8	6004000-000
6003001-021	602	2003100-021	2003985-051	1	6016260	8	13	6004000-000

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

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LIST OF MATERIALS

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MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN P. Romey 22 Jul 65
CHECKED [illegible] 22 Jul 65
APPROVED
APPROVED [illegible]
APPROVED MIT [illegible] 27 Jul 65
APPROVED MSC [illegible] 1/17/66
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

APOLLO GUIDANCE
COMPUTER GROUP

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6003001
SCALE NONE
SHEET 1 OF 1

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REVISIONS 21248

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4		COLUMN 5		COLUMN 6		COLUMN 7		COLUMN 8		COLUMN 9	
AGC SUB SYSTEM	AGC SUB SYSTEM (NO. REF)	AGC	AGC BRACKET SCR RET.	QTY	BRACKET MOUNTING SCREW	QTY	AGC BOLT, CAP, SOCKET HD	QTY	AGC WASHER FLAT	QTY	MAIN DSKY	QTY	NAME PLATE INFORMATION (SEE NOTE 2)	
													SERIAL NO.	PART DASH NO
6003001 -011		2003100-011	2004149-003	14	1001489-3	28	2004147-004	14	2004148-001	28	2003900-011	1		6003001 -011

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. STAMP NAME PLATE ON AGC AND MAIN DSKY WITH PART NO. AND SERIAL NO. PER COLUMN 9

MASTER

NEXT ASSY	USED ON
APPLICATION	

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RESISTOR VALUES ARE IN OHMS
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QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. Romey 22 Jul 65
CHECKED 22 Jul 65
APPROVED
APPROVED Eldon C Hall
APPROVED MIT W Kupfer
APPROVED MSC 1/17/66
DATE

APOLLO GUIDANCE COMPUTER GROUP

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6003001
SCALE NONE
SHEET 1 OF 1

3. REQUIREMENTS

To be supplied at a later date.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.1.1 Test Conditions

4.1.1.1 Environmental. The assembly shall be tested under the following ambient conditions:

a. Temperature: 25° ± 10°C

b. Relative Humidity: 90% max

c. Barometric Pressure: 28 to 32 inches of Hg

4.1.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and re-examination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.2 TESTS

4.2.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of APOLLO G&N Drawing 6003001. Particular attention shall be given to inspection for damage to surfaces, structure, and equipment, including contaminants, pin misalignment, and legibility and appearance of marking.

4.2.2 Acceptance Tests. All tests shall be performed by using the JDC's listed herein:

JDC 05204	Central Register Test	JDC 05210	Radar Counters Test
05205	Venus Program Test	05211	Uplink And Downlink Test
05206	Continous Signal Characteristics	05212	Programmed Sig Char Test
05207	Channel Inbits Test	05213	Interrupt Test
05208	RDC Output Test	05106	Rope Electronics Test
05209	Input Output Counters Test	05107	DSKY Test

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND 1002214.

6. NOTES. None

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REVISIONS

	SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
Ⓖ	–		INITIAL RELEASE CLASS A PER TDRR 25801				
Ⓜ	A		CHANGED PER TDRR 26195			2/24/66	

DESCRIPTION	PART NO.	QTY
BRACKET, SCREW RETAINER	2004149-001	8
BRACKET, SCREW RETAINER	2004149-003	6
BRACKET, MOUNTING SCREW	1001489-3	28
BOLT, CAP SOCKET HD.	2004147-004	6
BOLT, CAP SOCKET HD.	2004147-003	8
WASHER, FLAT	2004148-003	28

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

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MATERIAL

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DRAWN
CHECKED
APPROVED
APPROVED Eldon C Hall 2 Feb 66
APPROVED MIT W Kupfer 1 Feb 66
A. C. METZGER
APPROVED MSC
DATE

INSTALLATION KIT

COMPUTER GROUP LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6004000
SCALE
SHEET OF

6004000A

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 25801				
A		CHANGED PER TDRR 26195		R.H.E. BM	2/24/66	
B		REVISED PER TDRR 27554	W.D.	R.H.E. BM	4/12/66	

-000

DESCRIPTION	PART NO.		QTY
BRACKET, SCREW RETAINER	2004149-001		8
BRACKET, SCREW RETAINER	2004149-003		6
BRACKET, MOUNTING SCREW	1001489-3		28
BOLT, CAP SOCKET HD.	2004147-004		6
BOLT, CAP SOCKET HD.	2004147-003		8
WASHER, FLAT	2004148-003		28

-011

DESCRIPTION	PART NO.		QTY
BRACKET, SCREW RETAINER	2004149-001		8
BRACKET, SCREW RETAINER	2004149-003		6
BRACKET, MOUNTING SCREW	1001489-3		28
BOLT, CAP SOCKET HD	2004147-006		6
BOLT, CAP SOCKET HD	2004147-004		8
WASHER, FLAT	2004148-003		28

NOTE:

1. THE ORIGINAL CONFIGURATION OF THIS DRAWING IS IDENTIFIED BY THE DRAWING NUMBER AND A -000 SUFFIX.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED Eldon C Hall 2 Feb 66
APPROVED MIT 1 Feb 66
A. C. METZGER
APPROVED MSC
DATE

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6004000
SCALE
SHEET OF

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REVISIONS

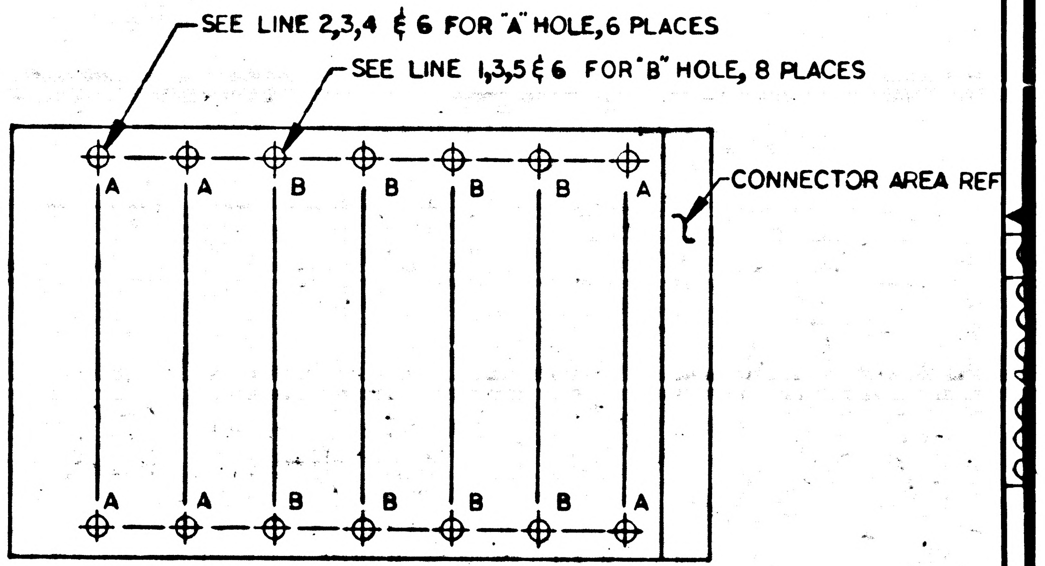
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 25801				
A		CHANGED PER TDRR 26195		R.A.E.	2/24/66	
B		REVISED PER TDRR 27554	W.D.	R.A.E.	4/12/66	
C		REVISED PER TDRR 27912		APB	4/20/66	

-000

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-001		8	1
BRACKET, SCREW RETAINER	2004149-003		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD.	2004147-004		6	4
BOLT, CAP SOCKET HD.	2004147-005		8	5
WASHER, FLAT	2004148-003		28	6

-011

DESCRIPTION	PART NO.		QTY.	LINE IDENT
BRACKET, SCREW RETAINER	2004149-001		8	1
BRACKET, SCREW RETAINER	2004149-003		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD	2004147-006		6	4
BOLT, CAP SOCKET HD	2004147-004		8	5
WASHER, FLAT	2004148-003		28	6


SEE LINE 2,3,4 & 6 FOR "A" HOLE, 6 PLACES
SEE LINE 1,3,5 & 6 FOR "B" HOLE, 8 PLACES
CONNECTOR AREA REF
A
A
B
B
B
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A

NOTE:

1. THE ORIGINAL CONFIGURATION OF THIS DRAWING IS IDENTIFIED BY THE DRAWING NUMBER AND A -000 SUFFIX.

MASTER

NEXT ASSY	USED ON
6003001	
2003101	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED Eldon C. Hall 2 Feb 66
APPROVED MIT 1 Feb 66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6004000
SCALE
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

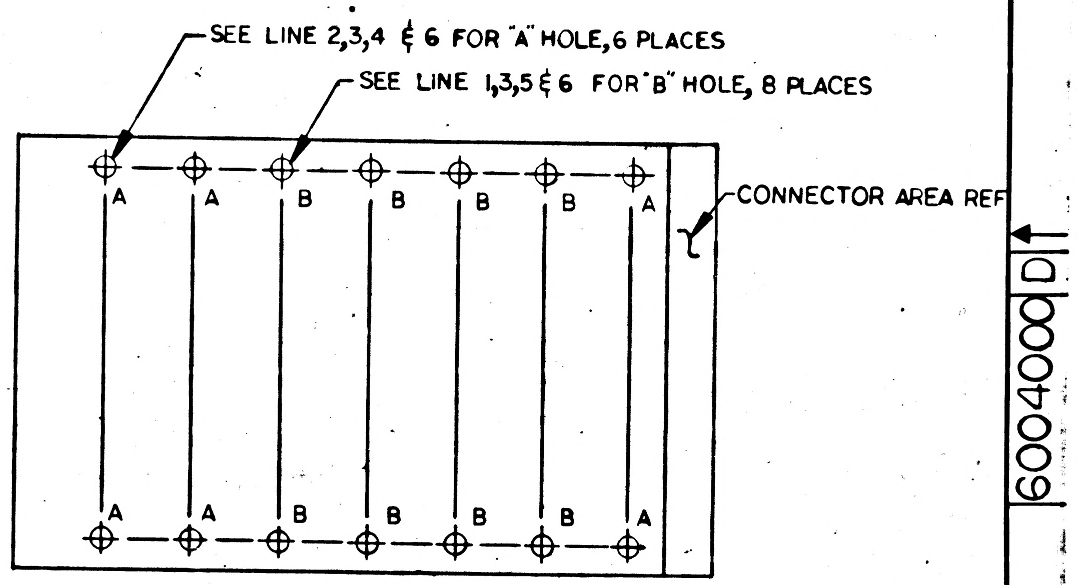
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 25801				
A		CHANGED PER TDRR 26195			2/24/66	
B		REVISED PER TDRR 27554	W.D.	R.P.E. BM	4/12/66	
C		REVISED PER TDRR 27912	R.P.T.	APB	4/20/66	
D		REVISED PER TDRR 28451			5/31/66	

-000

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-001		8	1
BRACKET, SCREW RETAINER	2004149-003		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD.	2004147-004		6	4
BOLT, CAP SOCKET HD.	2004147-003		8	5
WASHER, FLAT	2004148-003		28	6

-011

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-003		8	1
BRACKET, SCREW RETAINER	2004149-002		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD	2004147-006		6	4
BOLT, CAP SOCKET HD	2004147-004		8	5
WASHER, FLAT	2004148-001		28	6



SEE LINE 2,3,4 & 6 FOR "A" HOLE, 6 PLACES
SEE LINE 1,3,5 & 6 FOR "B" HOLE, 8 PLACES
CONNECTOR AREA REF
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NOTE:

1. THE ORIGINAL CONFIGURATION OF THIS DRAWING IS IDENTIFIED BY THE DRAWING NUMBER AND A -000 SUFFIX.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

APPLICATION	
NEXT ASSY	USED ON
6003001	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT A. C. METZGER
APPROVED MSC
DATE

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6004000
SCALE
SHEET 1 OF 1

6004000 D

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

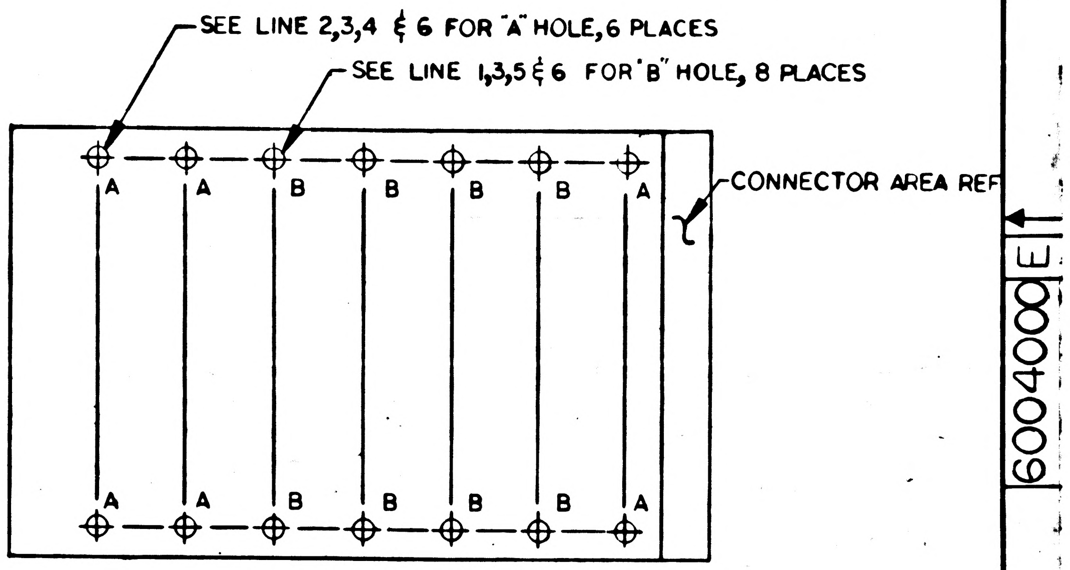
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 25801				
A		CHANGED PER TDRR 26195			2/24/66	
B		REVISED PER TDRR 27554	W.D.		4/12/66	
C		REVISED PER TDRR 27912	A.P.T.	APB	4/20/66	
D		REVISED PER TDRR 28451			5/24/66	
E		REVISED PER TDRR 33676		J.C.		

-000

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-001		8	1
BRACKET, SCREW RETAINER	2004149-003		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD.	2004147-004		6	4
BOLT, CAP SOCKET HD.	2004147-003		8	5
WASHER, FLAT	2004148-0C3		28	6

-011

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-003		8	1
BRACKET, SCREW RETAINER	2004149-002		6	2
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD	2004147-006		6	4
BOLT, CAP SOCKET HD	2004147-004		8	5
WASHER, FLAT	2004148-001		28	6


SEE LINE 2,3,4 & 6 FOR "A" HOLE, 6 PLACES
SEE LINE 1,3,5 & 6 FOR "B" HOLE, 8 PLACES
CONNECTOR AREA REF
A
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6004000 E

NOTE:

1. THE ORIGINAL CONFIGURATION OF THIS DRAWING IS IDENTIFIED BY THE DRAWING NUMBER AND A -000 SUFFIX.

6003001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
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FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED Edw C Hall
APPROVED MIT A. C. METZGER
APPROVED MSC
DATE

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6004000
SCALE		SHEET 1 OF 2

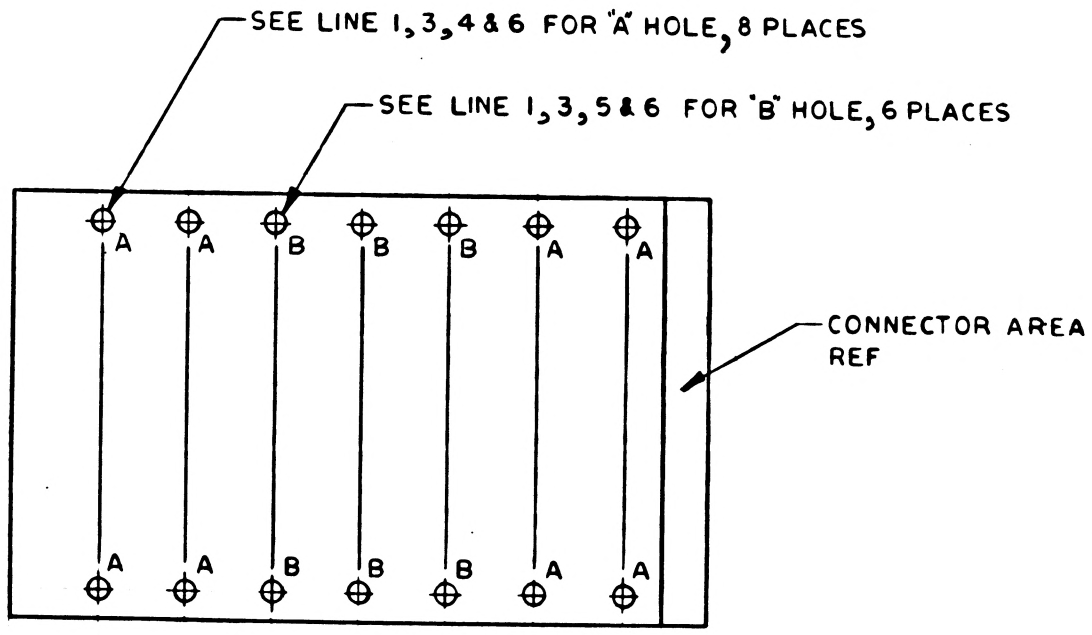
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
E		ADDED SH2 PER TDRR 33676		J.C.		

-021

DESCRIPTION	PART NO.		QTY	LINE IDENT
BRACKET, SCREW RETAINER	2004149-004		14	1
BRACKET, MOUNTING SCREW	1001489-3		28	3
BOLT, CAP SOCKET HD	2004147-008		8	4
BOLT, CAP SOCKET HD	2004147-007		6	5
WASHER, FLAT	2004148-001		14	6


SEE LINE 1, 3, 4 & 6 FOR "A" HOLE, 8 PLACES
SEE LINE 1, 3, 5 & 6 FOR "B" HOLE, 6 PLACES
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CONNECTOR AREA REF
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6003001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

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APPROVED MSC
DATE

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6004000
SCALE
SHEET 2 OF

6004000 E

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
-		INITIAL RELEASE CLASS A PER TDRR 25801				

DESCRIPTION	PART NO.	QTY
BRACKET, SCREW RETAINER	2004149-001	8
BRACKET, SCREW RETAINER	2004149-003	6
BRACKET, MOUNTING SCREW	1001489-3	28
BOLT, CAP SOCKET HD.	2004147-004	6
BOLT, CAP SOCKET HD.	2004147-003	8
WASHER, FLAT	2004148-001	28

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
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TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED Eldon C Hall 2 Feb 66
APPROVED MIT A. C. METZGER 1 Feb 66
APPROVED MSC
DATE

INSTALLATION KIT
COMPUTER GROUP LEM

CODE IDENT NO.
SIZE C
DRAWING NO. 6004000
SCALE
SHEET OF

6007000 A

REVISIONS 13484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 17186	3/9/65	WK

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

		ASS'Y DASH NO. -011
PART NO.	MODULE ASSEMBLY	QTY
2007103-011	BINARY CURRENT SWITCH	4
2007101-011	DC DIFFERENTIAL AMPLIFIER & PVR	4
2007104-011	AC DIFFERENTIAL AMPLIFIER & INTERROGATOR	3
2007102-011	PULSE TORQUE GYRO CALIBRATION	1
2007106-011	PULSE TORQUE POWER SUPPLY	1
6007105-011	PIPA CALIBRATION	3
6007005-011	PULSE TORQUE ISOLATION XFMR.	1
	MODULE TOTAL	17
6007002-011	HEADER ASS'Y, PTA	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
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DRAWN Horan DATE 1/5/65
CHECKED
APPROVAL
APPROVAL D. Setest 1/11/65
NASA APPROVAL W J Rhine 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 6007000
SCALE
WT
SHEET OF

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007000 B

REVISIONS 13484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 17186	4/9/65	WK
B	REPLACED BY CONFIGURATION DWG REV C PER TDRR 22797	9/28/65	WK

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007103-011	BINARY CURRENT SWITCH	4
2007101-011	DC DIFFERENTIAL AMPLIFIER & PVR	4
2007104-011	AC DIFFERENTIAL AMPLIFIER & INTERROGATOR	3
2007102-011	PULSE TORQUE GYRO CALIBRATION	1
2007106-011	PULSE TORQUE POWER SUPPLY	1
6007105-011	PIPA CALIBRATION	3
6007005-011	PULSE TORQUE ISOLATION XFMR.	1
	MODULE TOTAL	17
6007002-011	HEADER ASS'Y, PTA	1

Ⓑ REPLACED BY CONFIGURATION DWG REV C

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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TOLERANCES ON
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
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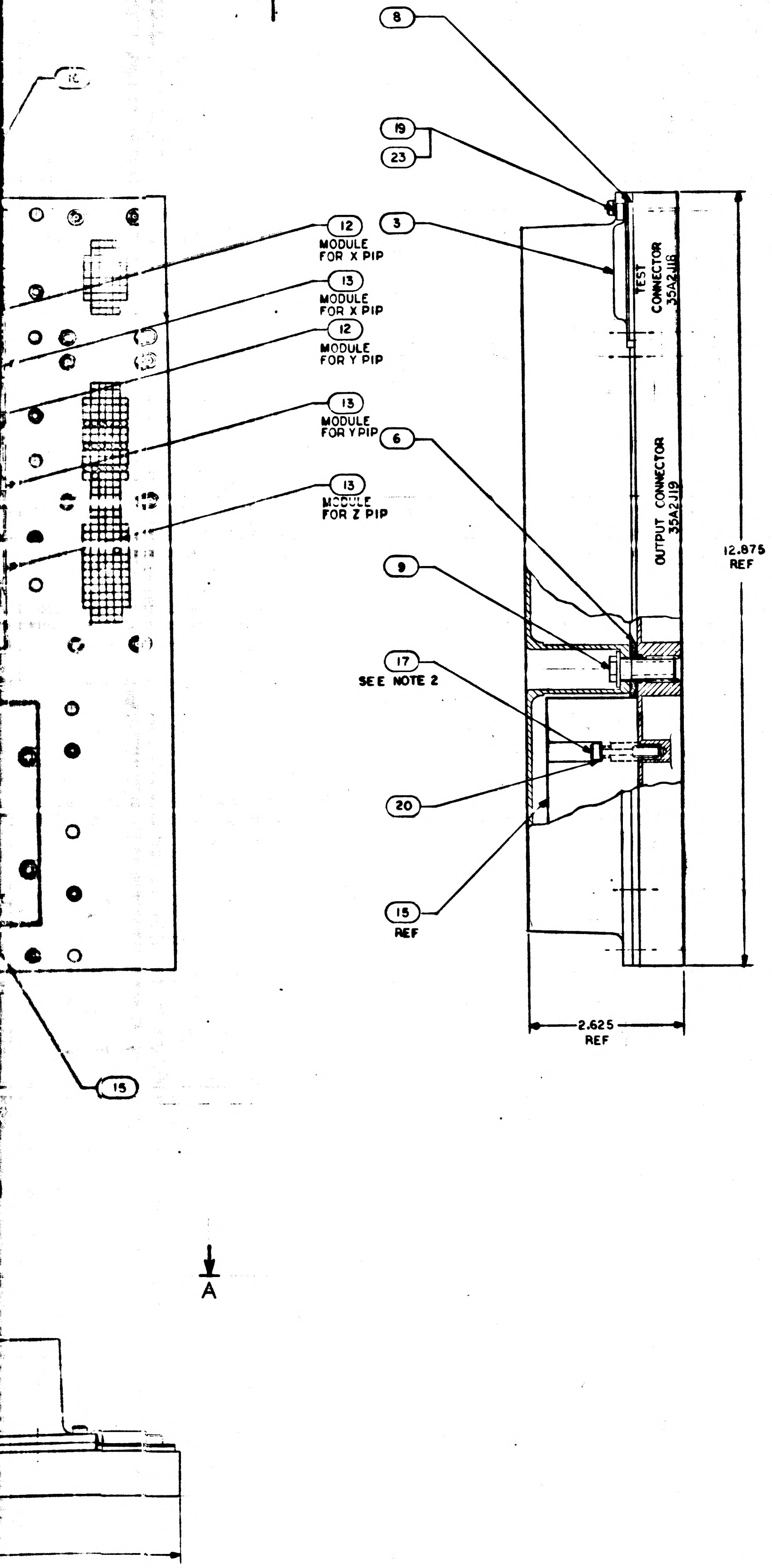
MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN Hansen DATE 4/5/65
CHECKED
APPROVAL
APPROVAL 1/14/65
NASA APPROVAL W.J. Rhine 1-13-65
MIT APPROVAL WK 9/13/65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 6007000
SCALE
WT
SHEET 1 OF 1

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797			3-23-65	



8
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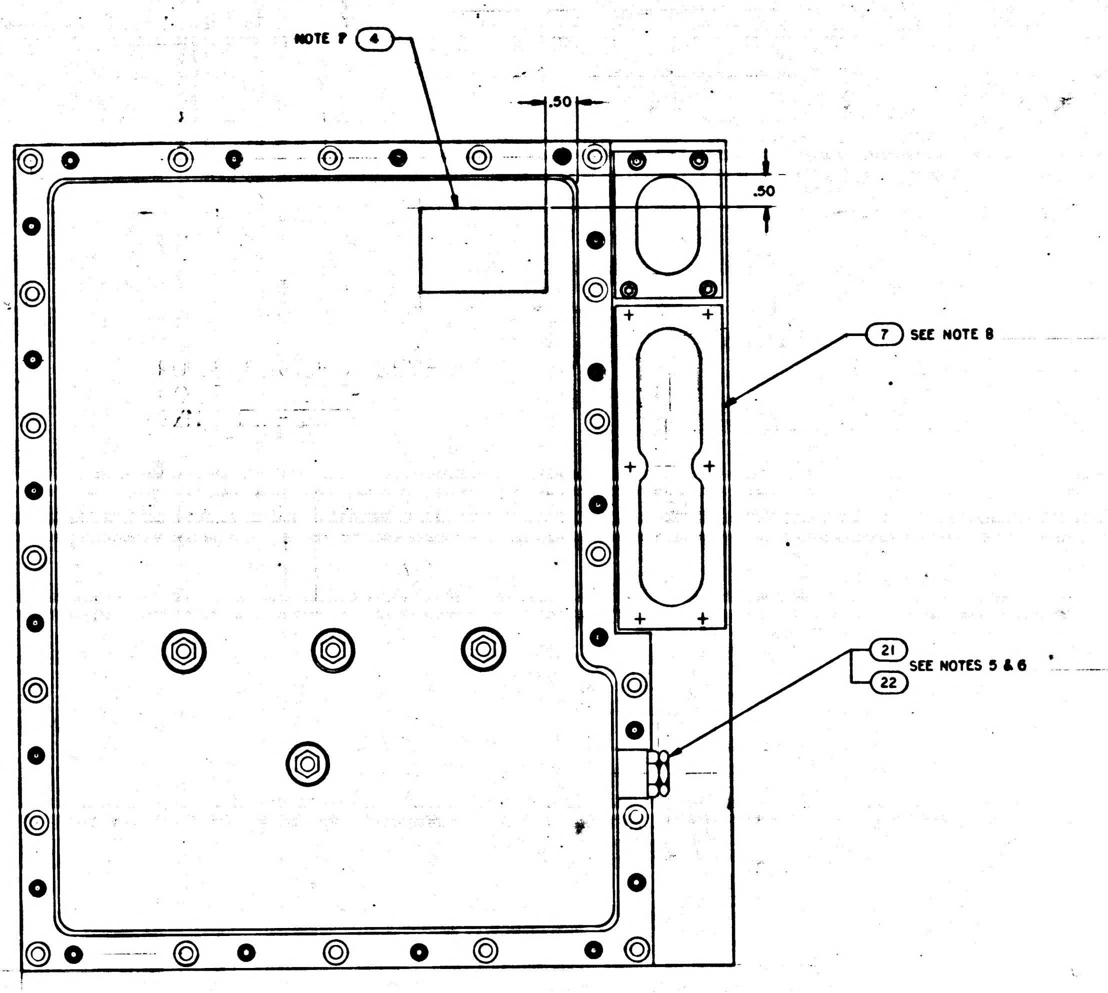
3
12 MODULE FOR X PIP
13 MODULE FOR X PIP
12 MODULE FOR Y PIP
13 MODULE FOR Y PIP
13 MODULE FOR Z PIP
6
9
17 SEE NOTE 2
20
15 REF
15
10
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
12.875 REF
2.625 REF
A



NOTE 7 4
.50
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7 SEE NOTE 8
21
22 SEE NOTES 5 & 6

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
20	2004148-003	WASHER, FLAT	24
4	MS15795-807	WASHER, FLAT	23
1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	2007213-011	VALVE ASSEMBLY	21
36	2008033 -1	WASHER, FLAT	20
4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	1010977-001	SCREW, CAPTIVE	17
1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	6007105-011	LEM PIPA CALIBRATION	14
3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	2007103-011	BINARY CURRENT SWITCH	12
1	2007102-011	GYRO CALIBRATION	11
4	2007101-011	D C DIFF AMPL & PVR	10
4	1008835-002	BUSHING, SEAL	9
1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1010961 -001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	1010975	GASKET, RETAINED	6
1	1010973	GASKET, RETAINED	5
1	1004260-154	NAMEPLATE	4
1	6008010	COVER, JUNCTION TEST CONN	3
1	6008030	COVER	2
1	6007002-~~011~~	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

6007000 C

2H

NEXT ASSY	USED ON
6007001	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER LETTER NASA PP7-65-612
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY
(LEM)

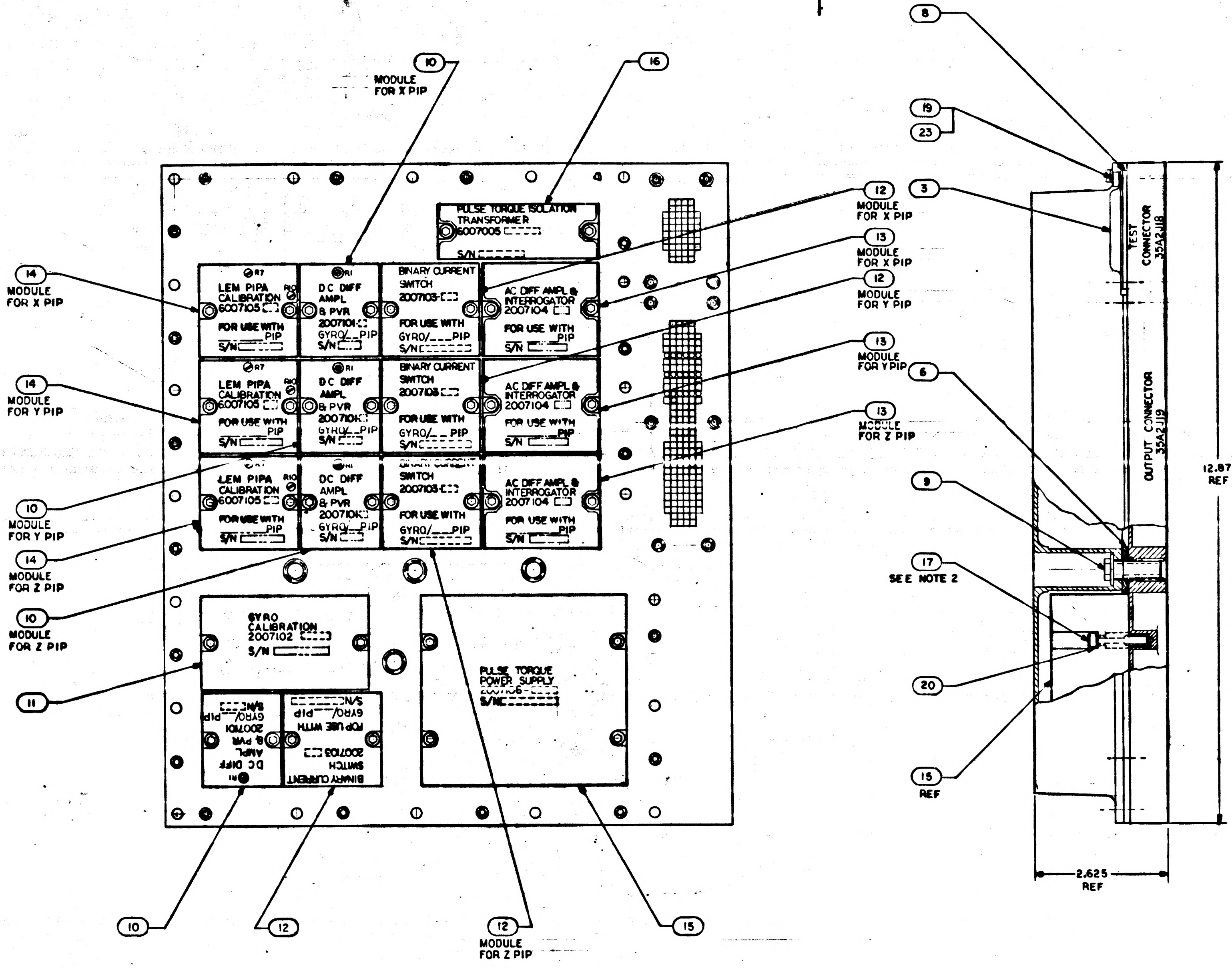
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007000

SCALE 1/1 SHEET 1 OF 1

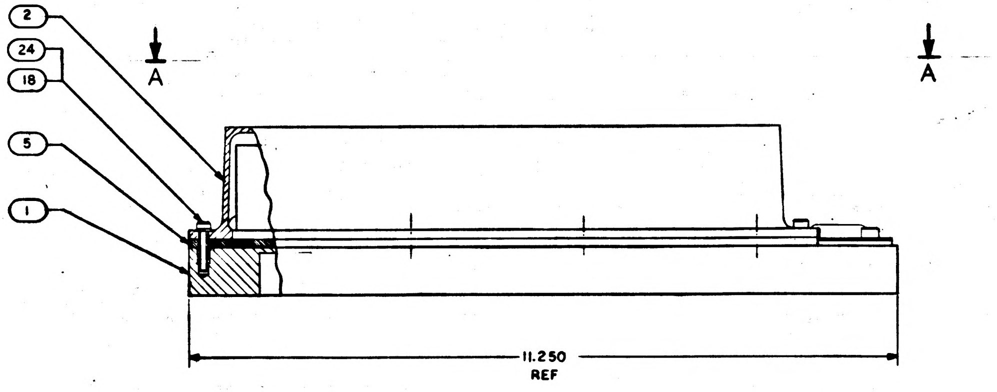
MASTER

6007000 C

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER
6007005
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
D C DIFF AMPL & PVR 2007101
GYRO/__PIP
S/N
R1
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY 2007106
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
9
17
SEE NOTE 2
20
15
REF
12.875
REF
2.625
REF

TOP VIEW WITH COVER REMOVED


2
24
18
5
1
A
A
11.250
REF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, FIND NO. 18 AND FIND NO. 19 TO BE 18–22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14 AND 15. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55–60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22–27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND TYPE

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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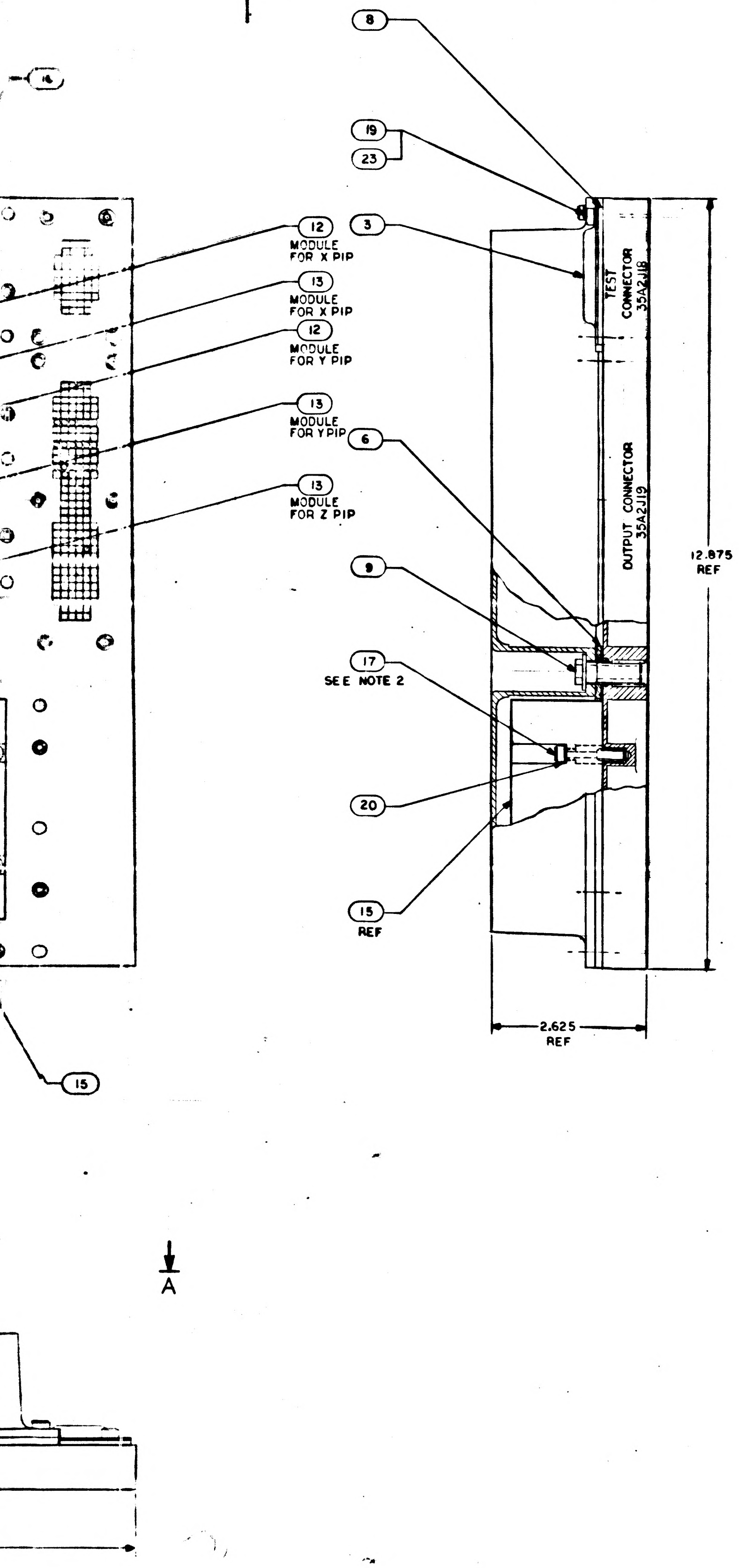
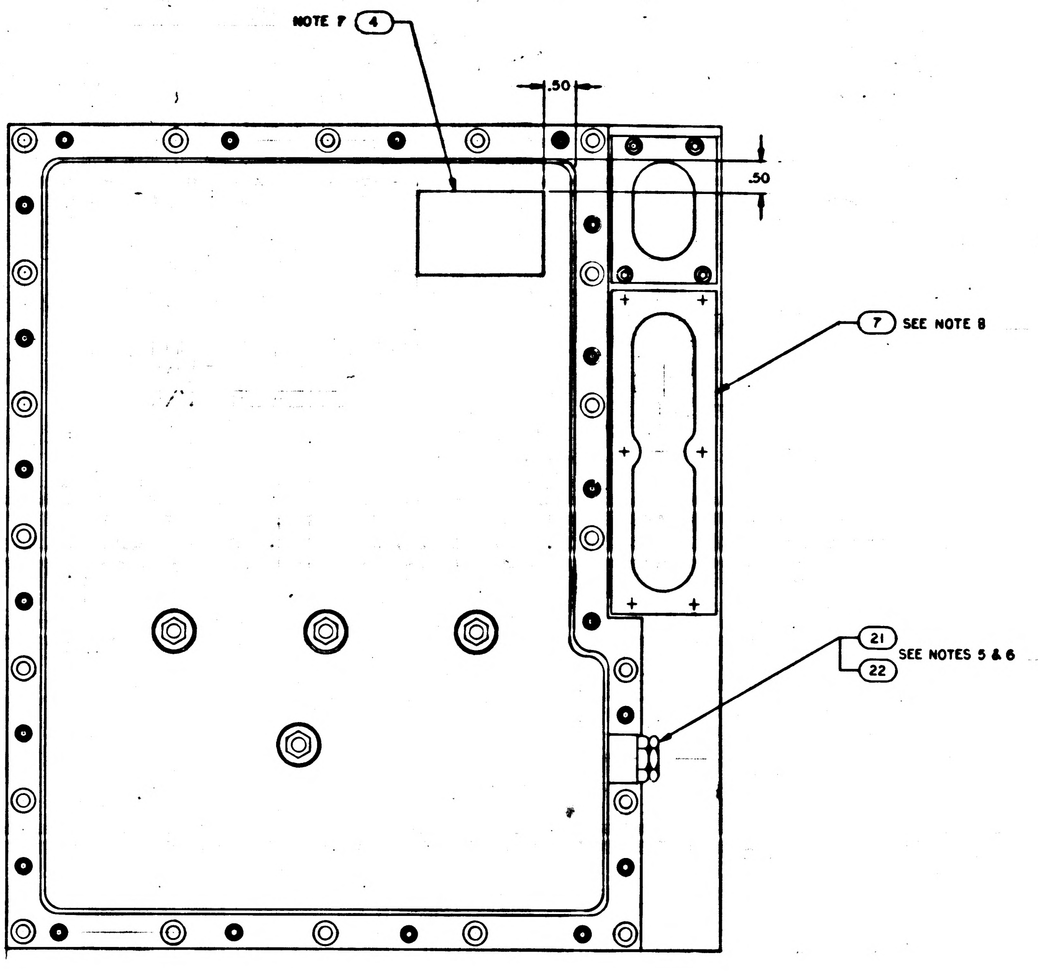
D		REVISED PER TDRR 23690	KCN		Nov 65	WK



8
19
23
3
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
6
9
17
SEE NOTE 2
20
15
REF
15
14
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
12.875 REF
2.625 REF
A



NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5 & 6

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
20	2004148-003	WASHER, FLAT	24
4	1004546-3	WASHER, FLAT	23
1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	2007213-011	VALVE ASSEMBLY	21
36	2008033 -1	WASHER, FLAT	20
4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	1010977-001	SCREW, CAPTIVE	17
1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	6007105-011	LEM PIPA CALIBRATION	14
3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	2007103-011	BINARY CURRENT SWITCH	12
1	2007102-011	GYRO CALIBRATION	11
4	2007101-011	D C DIFF AMPL & PVR	10
4	1008835-002	BUSHING, SEAL	9
1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	1010975	GASKET, RETAINED	6
1	1010973	GASKET, RETAINED	5
1	1004260-154	NAMEPLATE	4
1	6008010	COVER, JUNCTION TEST CONN	3
1	6008030	COVER	2
1	6007002-~~011~~	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

6007000 D

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER LETTER NASA PP7 55-512
MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

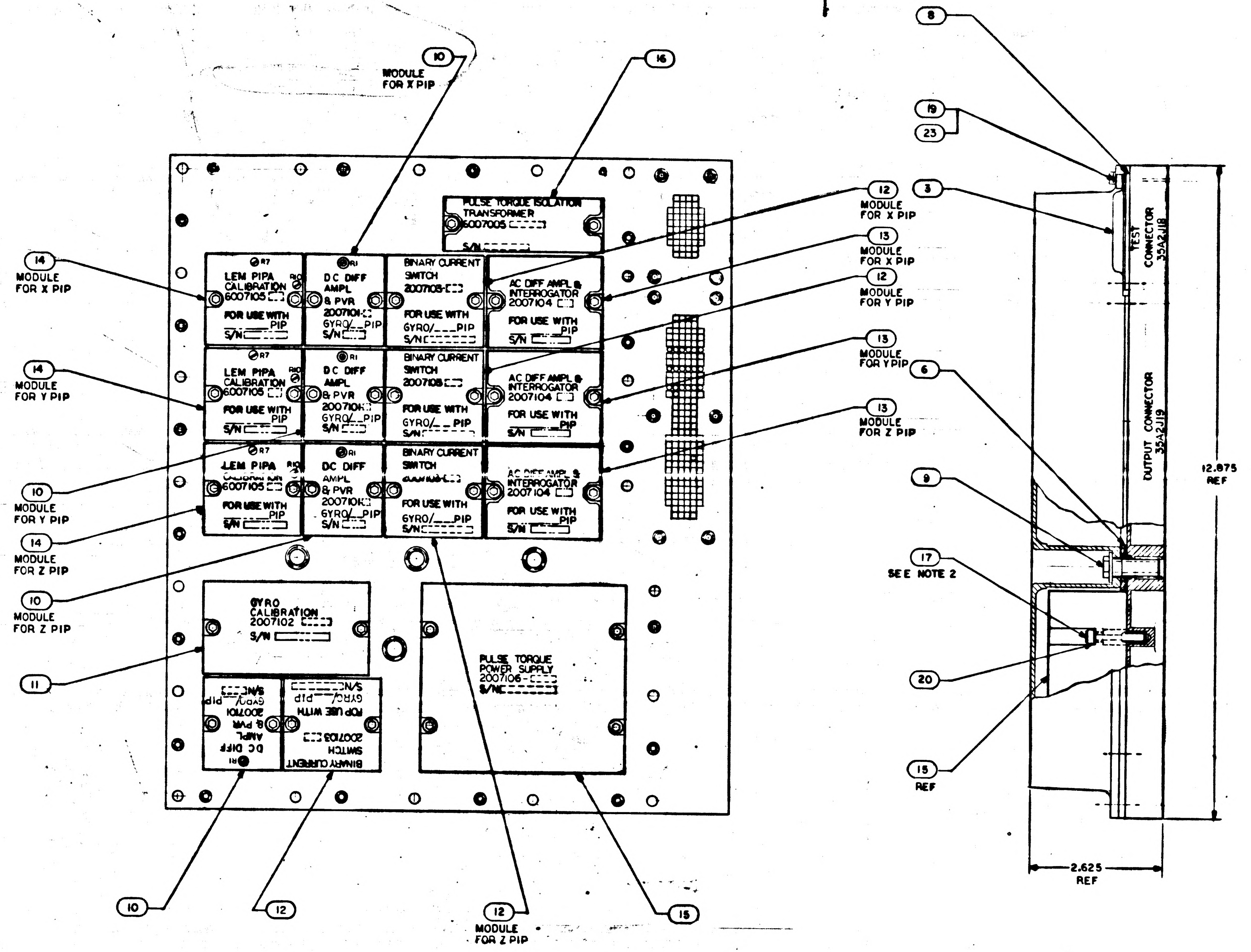
PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
DATE
SCALE 1/1
SHEET 1 OF 1

MASTER

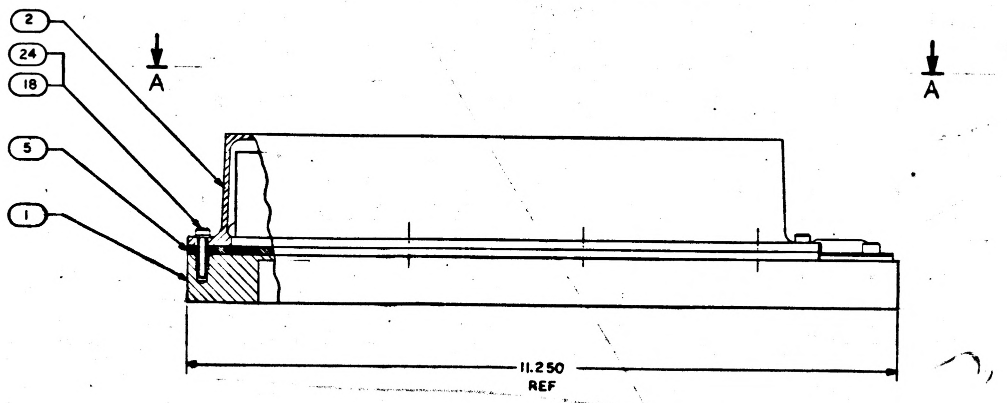
6007000 D

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
LEM PIPA CALIBRATION 6007105
R7
R10
FOR USE WITH ___ PIP
S/N
DC DIFF AMPL & PVR 2007101
R1
GYRO/__PIP
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___ PIP
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
GYRO CALIBRATION 2007102
11
PULSE TORQUE POWER SUPPLY 2007106
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
9
17
SEE NOTE 2
20
15
REF
12.875
REF
2.625
REF

TOP VIEW WITH COVER REMOVED



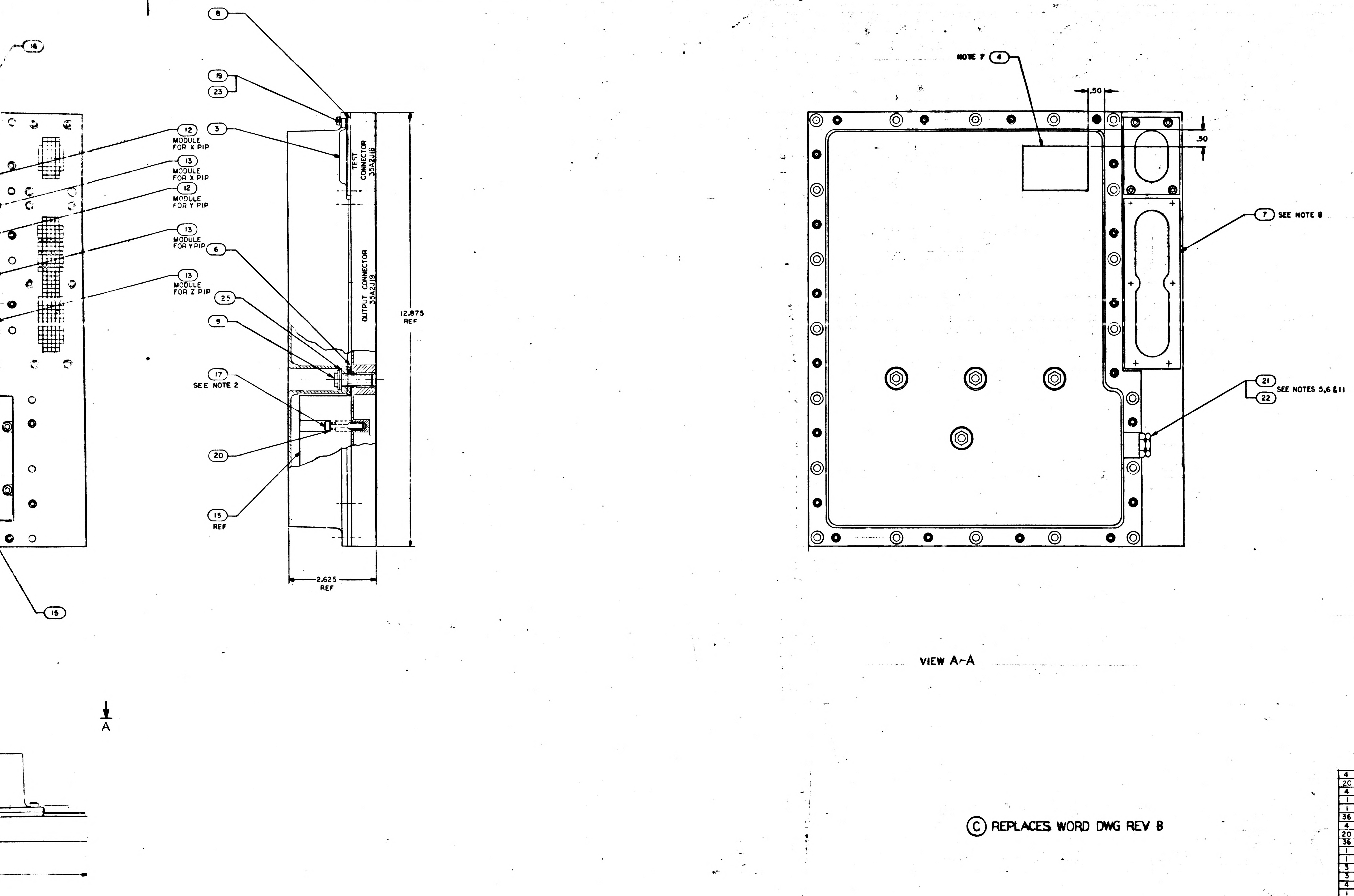
2
24
18
5
1
A
A
11.250
REF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, FIND NO. 18 AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14 AND 15. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND   TYPE

24

6007000 D


8
16
19
23
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
9
17
SEE NOTE 2
20
15
REF
15
12.875 REF
2.625 REF
A
NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11
VIEW A-A
C REPLACES WORD DWG REV B
MASTER

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22777	[illegible]		23 Jul 65	WK
D		REVISED PER TDRR 23690	NCN	[illegible]	3 Nov 65	WK
E		REVISED PER TDRR 24565	[illegible]	[illegible]	[illegible]	WK

Ⓜ

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	2004148-004	WASHER, FLAT	25
20	2004148-003	WASHER, FLAT	24
4	1004546-3	WASHER, FLAT	23
1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	2007213-011	VALVE ASSEMBLY	21
36	2008033 -1	WASHER, FLAT	20
4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	NAS1352-06-8	SCREW, CAP, SOCKET HE	18
36	1010977-001	SCREW, CAPTIVE	17
1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	6007105-011	LEM PIPA CALIBRATION	14
3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	2007103-011	BINARY CURRENT SWITCH	12
1	2007102-011	GYRO CALIBRATION	11
4	2007101-011	D C DIFF AMPL & PVR	10
4	1008835-002	BUSHING, SEAL	9
1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1010961 -001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	1010975	GASKET, RETAINED	6
1	1010973	GASKET, RETAINED	5
1	1004260-154	NAMEPLATE	4
1	6008010	COVER, JUNCTION TEST CONN	3
1	6008030	COVER	2
1	6007002-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007001	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER LETTER NASA-PP7-65-612
APPROVED MSC
DATE

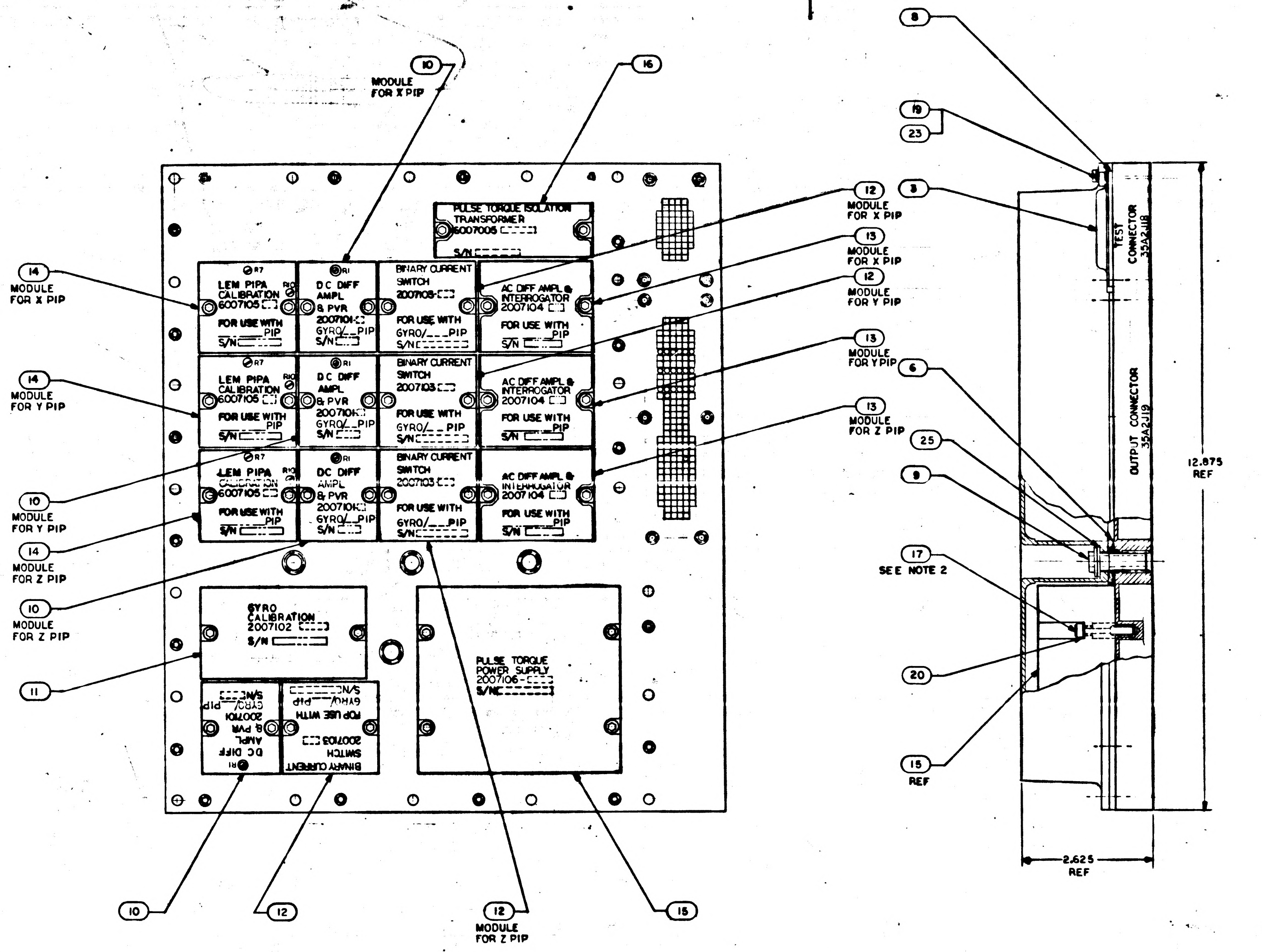
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY (LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

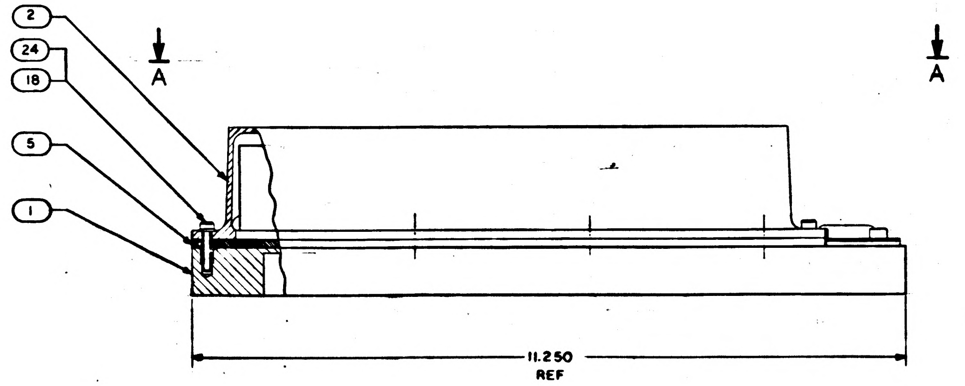
6007000 E

2H



10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
R7
LEM PIPA CALIBRATION 6007105
R10
FOR USE WITH ___PIP
S/N
R1
D C DIFF AMPL & PVR 2007101
GYRO/__PIP
S/N
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY 2007106
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
9
17
SEE NOTE 2
20
15
REF
12.875 REF
2.625 REF

TOP VIEW WITH COVER REMOVED

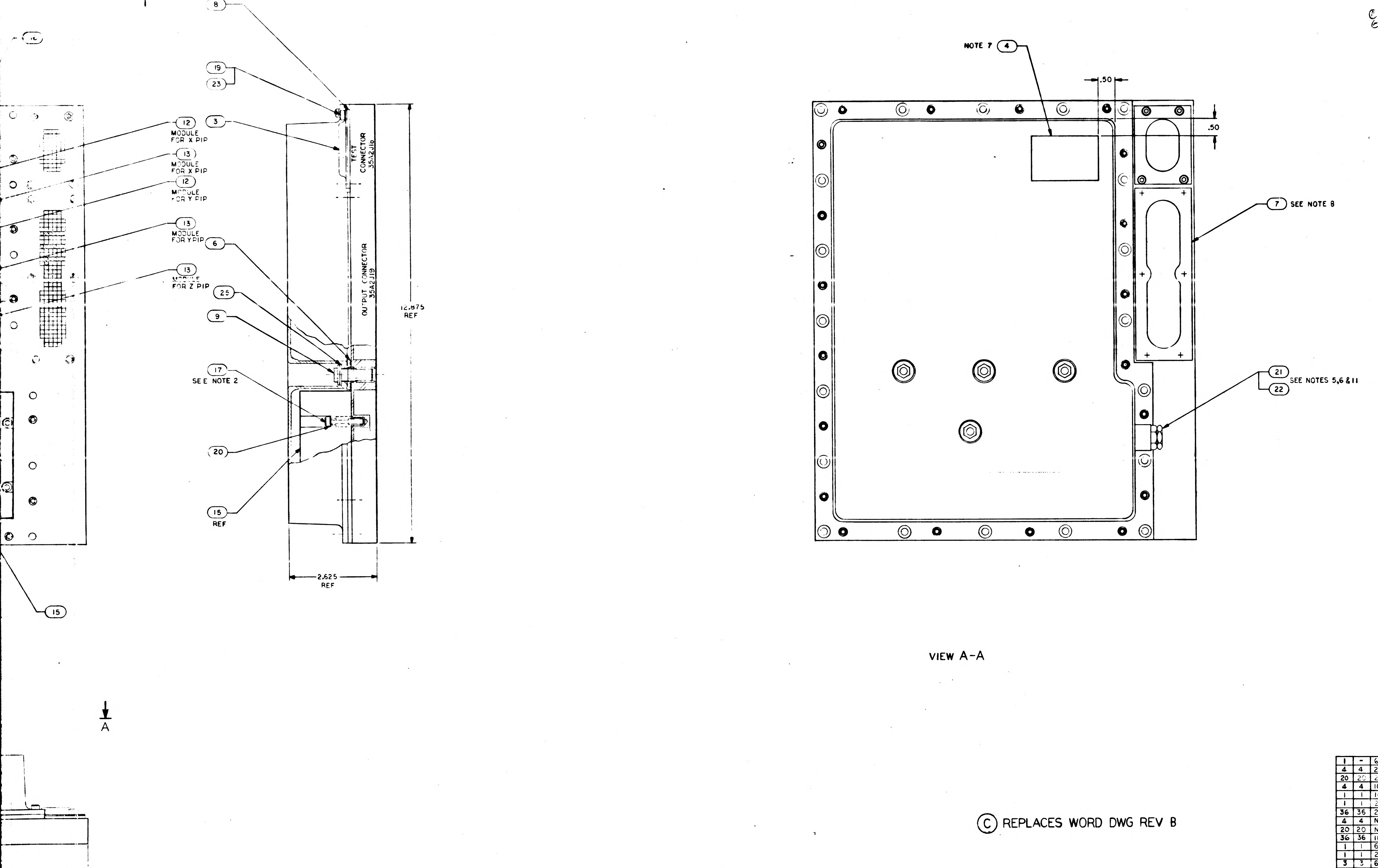


2
24
18
5
1
A
A
11.250 REF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.17, FIND NO.18 AND FIND NO.19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10 11,12,14 AND 15. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND TYPE
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO.21 PRIOR TO INSTALLATION IN FIND NO. 2

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				WK
D		REVISED PER TDRR 23690	NCN		3 Nov 65	WK
E		REVISED PER TDRR 24565				WK
F		REVISED PER TDRR 27603			5 APR 66	



4
3
2
1
8
19
23
3
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
6
25
9
17
SEE NOTE 2
20
15
REF
15
TEST CONNECTOR 35A2J16
OUTPUT CONNECTOR 35A2J19
12.875 REF
2.625 REF
A
NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11
VIEW A-A
D
C
B

Ⓒ REPLACES WORD DWG REV B

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	-	6007102-011	HEADER ASSEMBLY	26
4	4	2004148-004	WASHER, FLAT	25
20	20	2004148-003	WASHER, FLAT	24
4	4	1004546-3	WASHER, FLAT	23
1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	1	2007213-011	VALVE ASSEMBLY	21
36	36	2008033-1	WASHER, FLAT	20
4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	1010977-001	SCREW, CAPTIVE	17
1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	2007102-011	GYRO CALIBRATION	[illegible]
4	4	2007101-011	D C DIFF AMPL & PVR	10
4	4	1008835-002	BUSHING, SEAL	9
1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	1010975	GASKET, RETAINED	6
1	1	1010973	GASKET, RETAINED	5
1	1	1004260-154	NAMEPLATE	4
1	1	6008010	COVER, JUNCTION TEST CONN	3
1	1	6008030	COVER	2
—	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Gary Ball
CHECKED
APPROVED
APPROVED 9/2/65
APPROVED MIT
NOT REQUIRED PER
APPROVED MSC PPZ 65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

6007000 F

6007000 F

2/6007000

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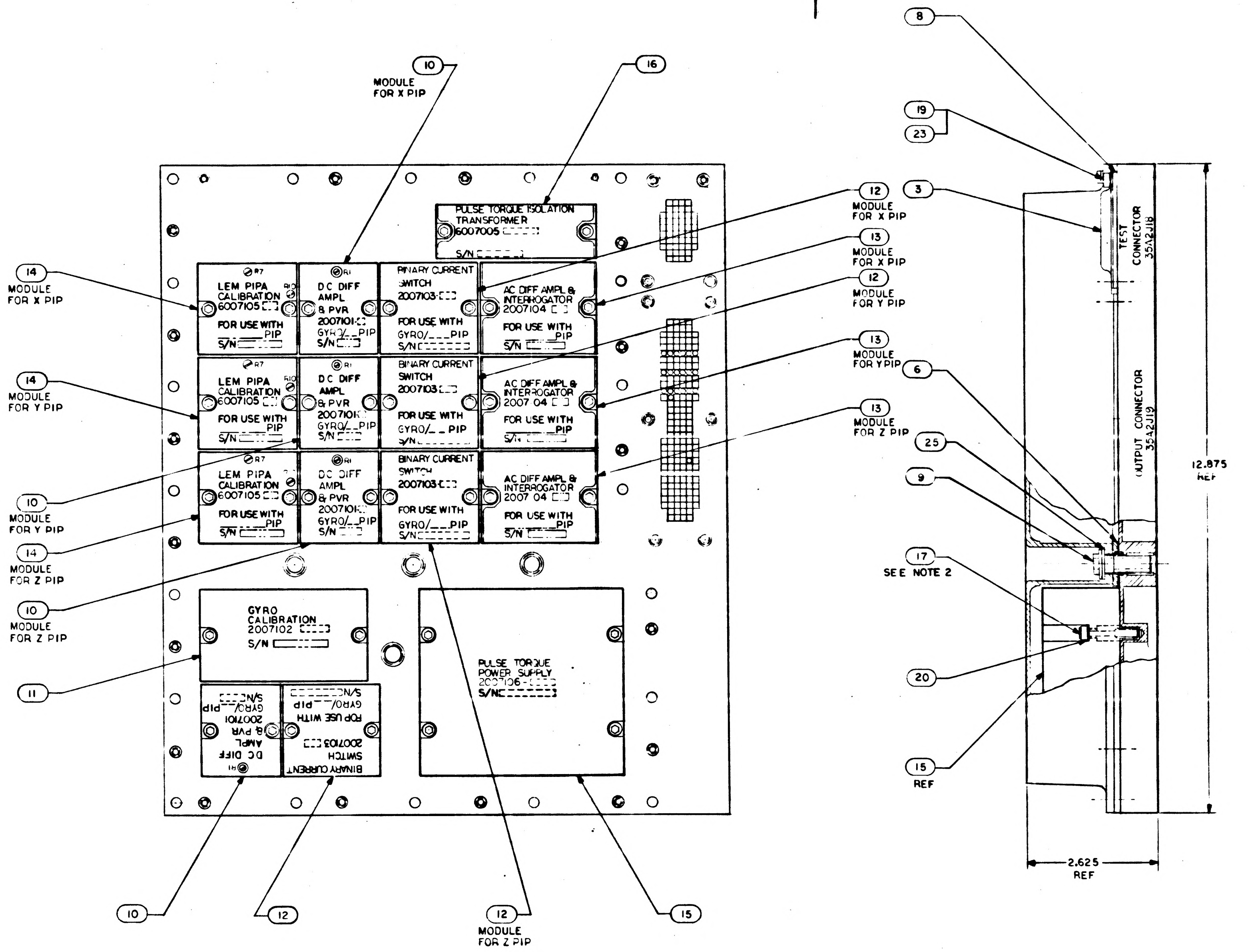
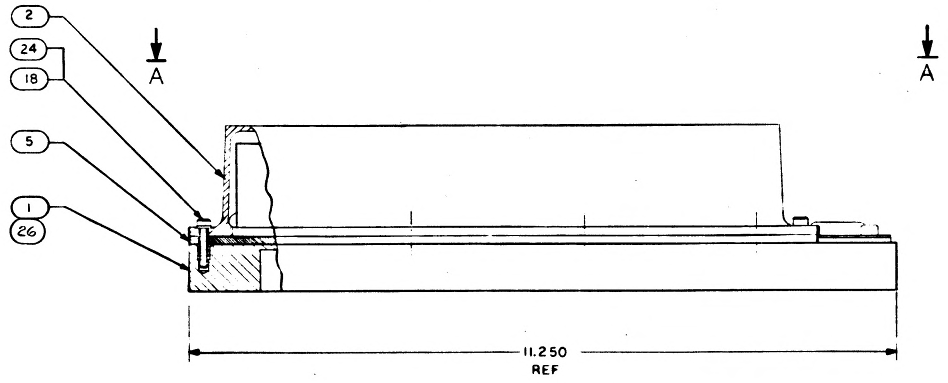

10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
DC DIFF AMPL & PVR 2007101
GYRO/___PIP
S/N
R1
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
GYRO CALIBRATION 2007102
S/N
11
PULSE TORQUE POWER SUPPLY 2007106-
S/N
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
9
17
SEE NOTE 2
20
15
REF
12.875 REF
2.625 REF

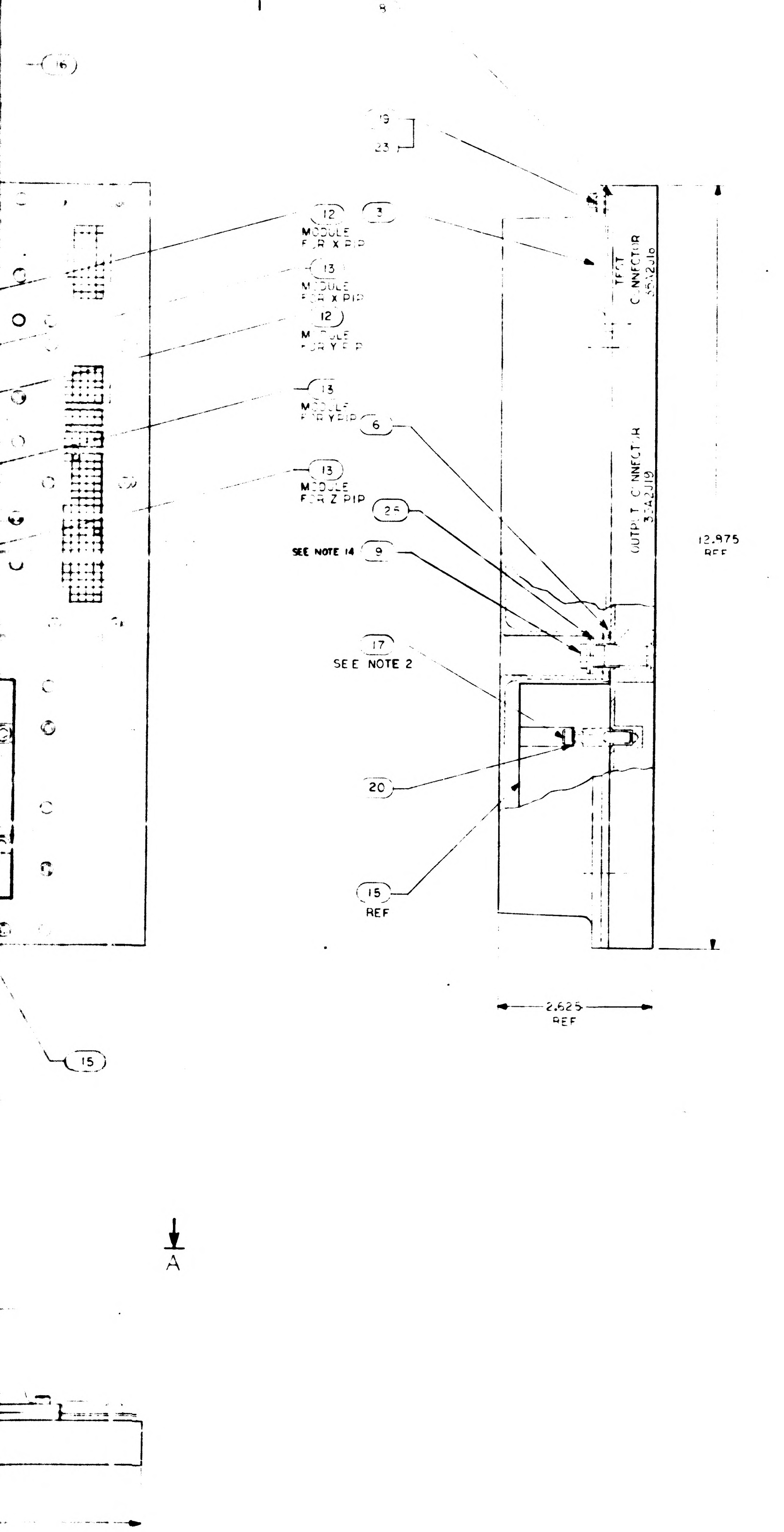
TOP VIEW WITH COVER REMOVED


2
24
18
5
1
26
A
A
11.250 REF

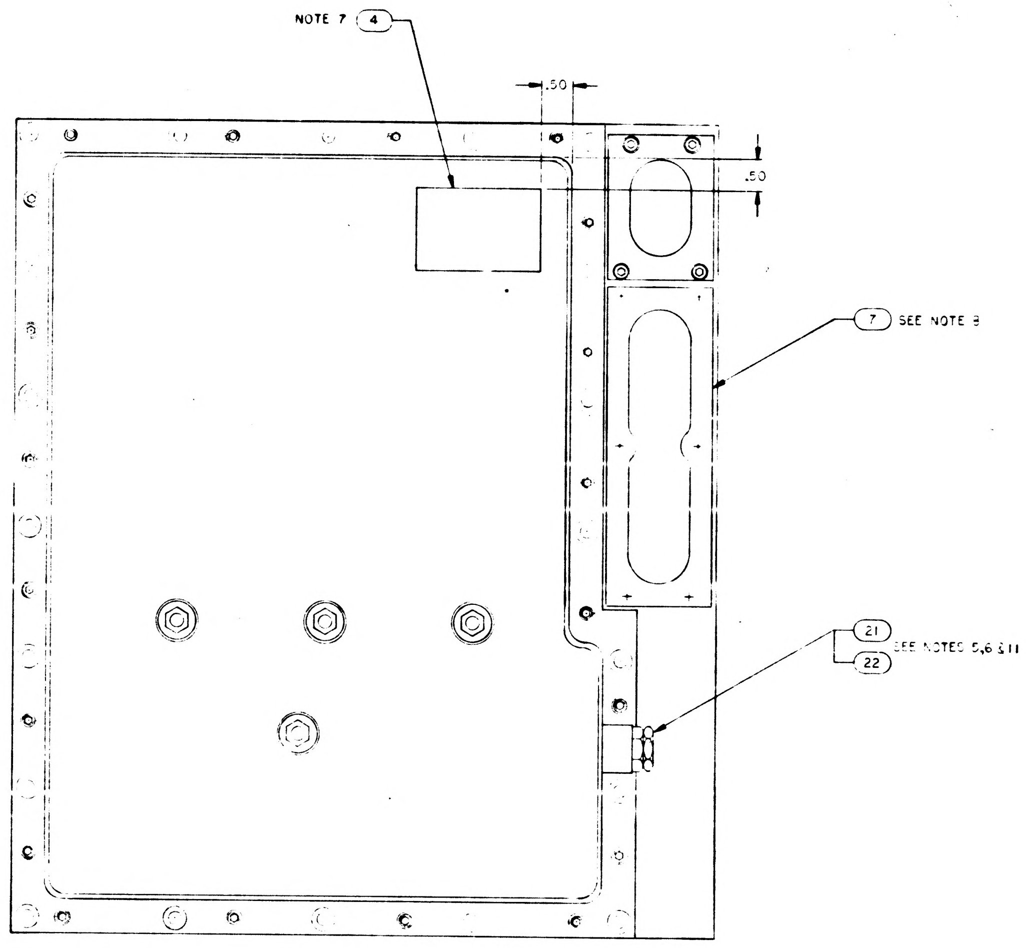
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.17, FIND NO.18 AND FIND NO.15 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14 AND 15. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND TYPE
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO.21 PRIOR TO INSTALLATION IN FIND NO. 2

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	KCH		3 Nov 65	WIC
E		REVISED PER TDRR 24565				
F		REVISED PER TDRR 27503	TK		5 APR 66	
G		REVISED PER TDRR 26521	JK		4 MAY 66	



16
8
19
23
12
3
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
6
13
MODULE FOR Z PIP
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
15
TEST CONNECTOR 35A2J16
OUTPUT CONNECTOR 35A2J19
12.975 REF
2.625 REF
A



NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

1	–	6007102-011	HEADER ASSEMBLY	26
4	4	2004148-004	WASHER, FLAT	25
20	20	2004148-003	WASHER, FLAT	24
4	4	1004546-3	WASHER, FLAT	23
1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	1	[illegible]-011	[illegible] ASSEMBLY	21
36	36	2008033-1	WASHER, FLAT	20
4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	1010977-001	SCREW, CAPTIVE	17
1	1	6007025-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	2007104-011	AC DIFF AMPL & INTERROGATOR	13
4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	2007102-011	GYRO CALIBRATION	11
4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	1008835-002	BUSHING, SEAL	9
1	1	[illegible]-001	GASKET, SEALING PLATE, TEST CONN	8
1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	1010975	GASKET, RETAINED	6
1	1	1010973	GASKET, RETAINED	5
1	1	[illegible]-154	NAMEPLATE	4
1	1	6008[illegible]	COVER, JUNCTION TEST CONN	3
1	1	6008030	COVER	2
–	1	6007002-011	HEADER ASSEMBLY	1
QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-021				

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .02 XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Tony Ball
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

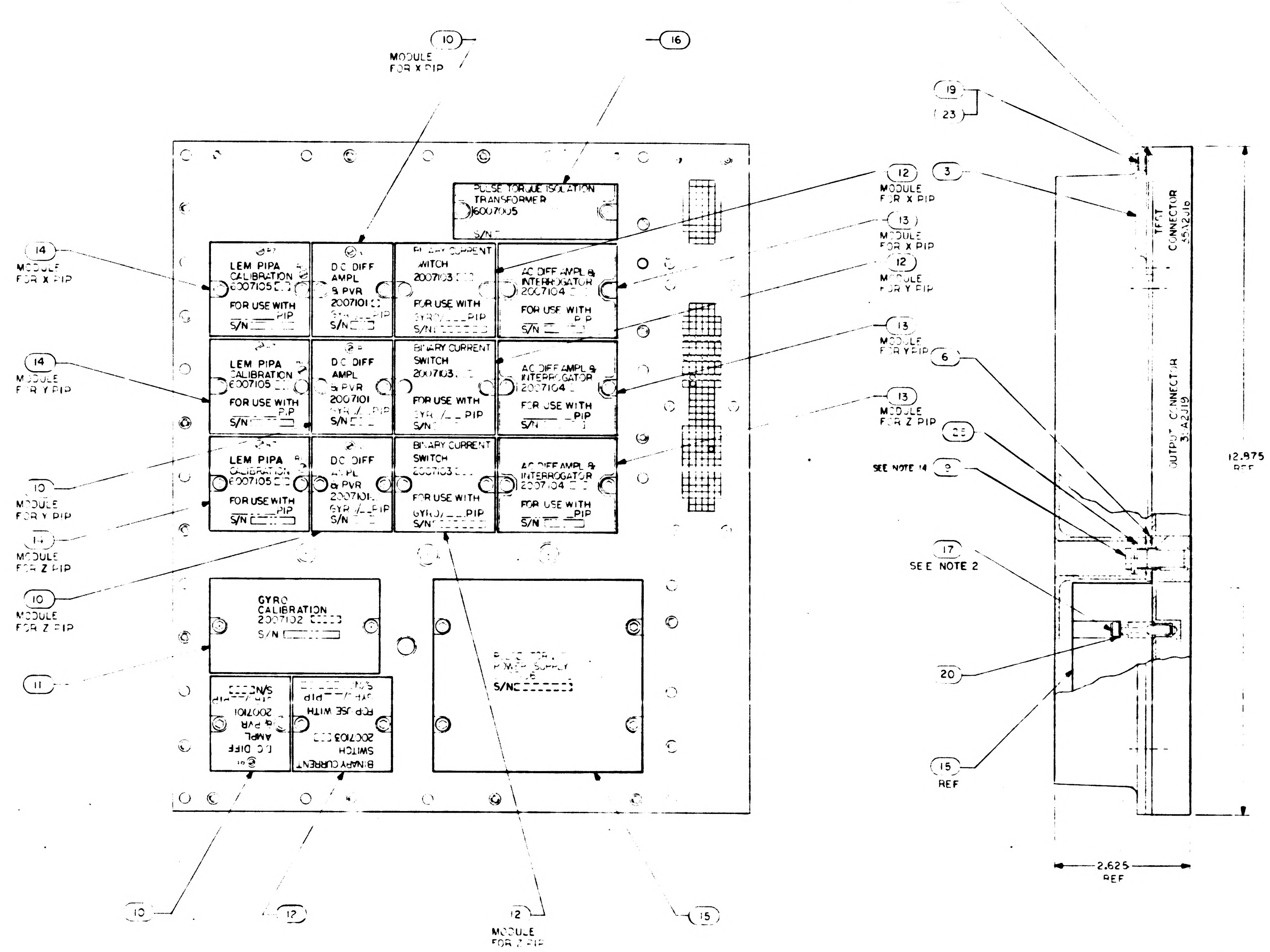
PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

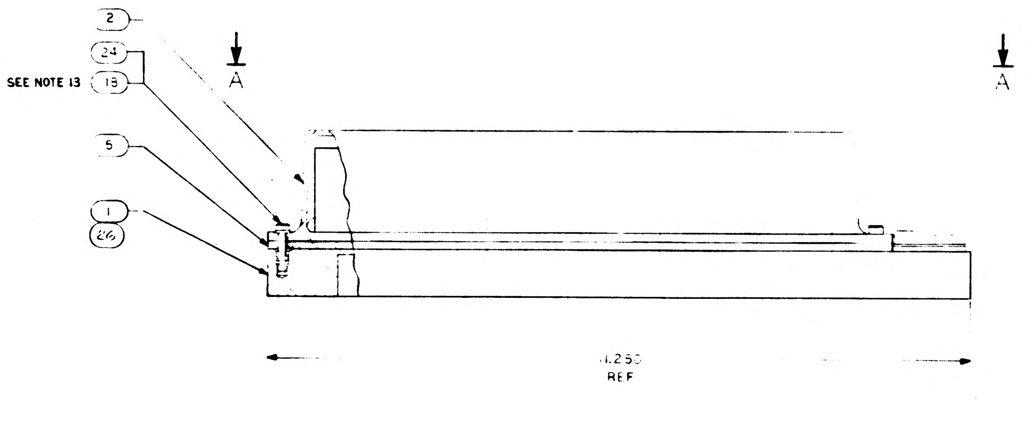
6007000 | G

2/6007000

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
D.C. DIFF AMPL & PVR 2007101
GYR /__PIP
S/N
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 3SA2J16
OUTPUT CONNECTOR 3SA2J19
6
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
12.875
REF
2.625
REF

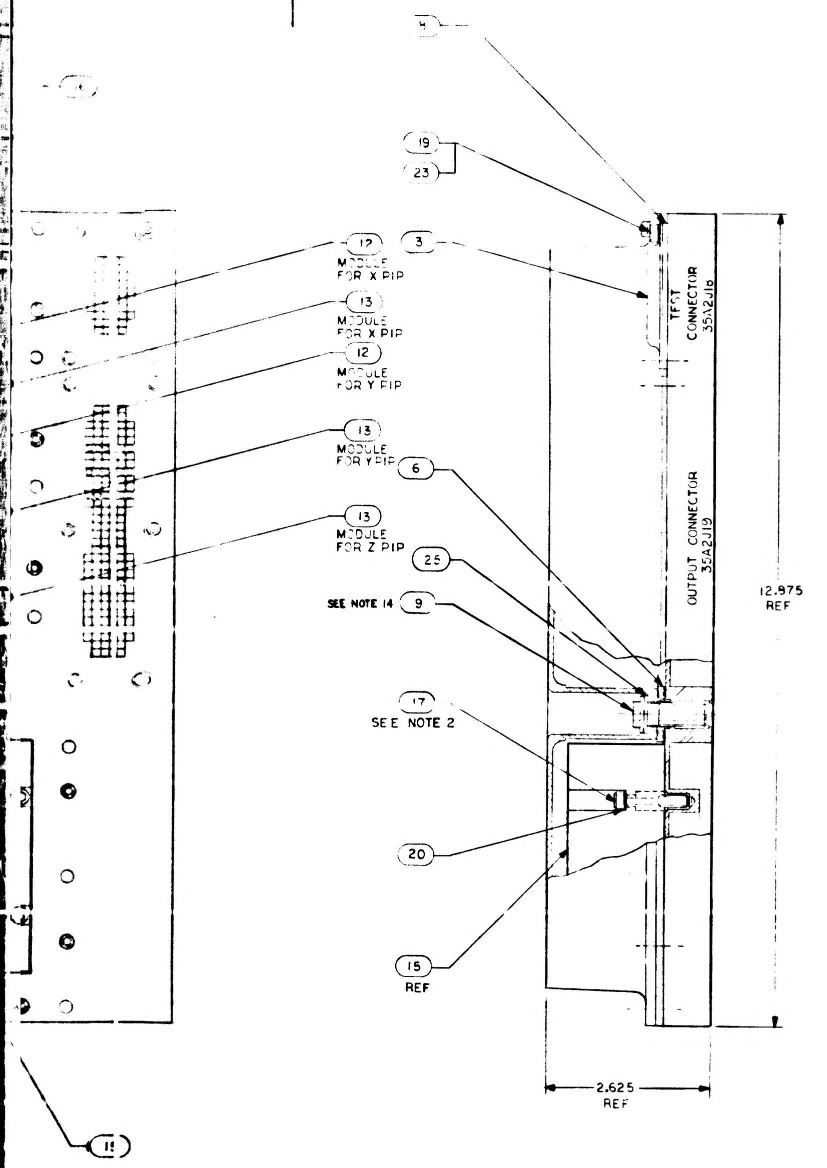
TOP VIEW WITH COVER REMOVED

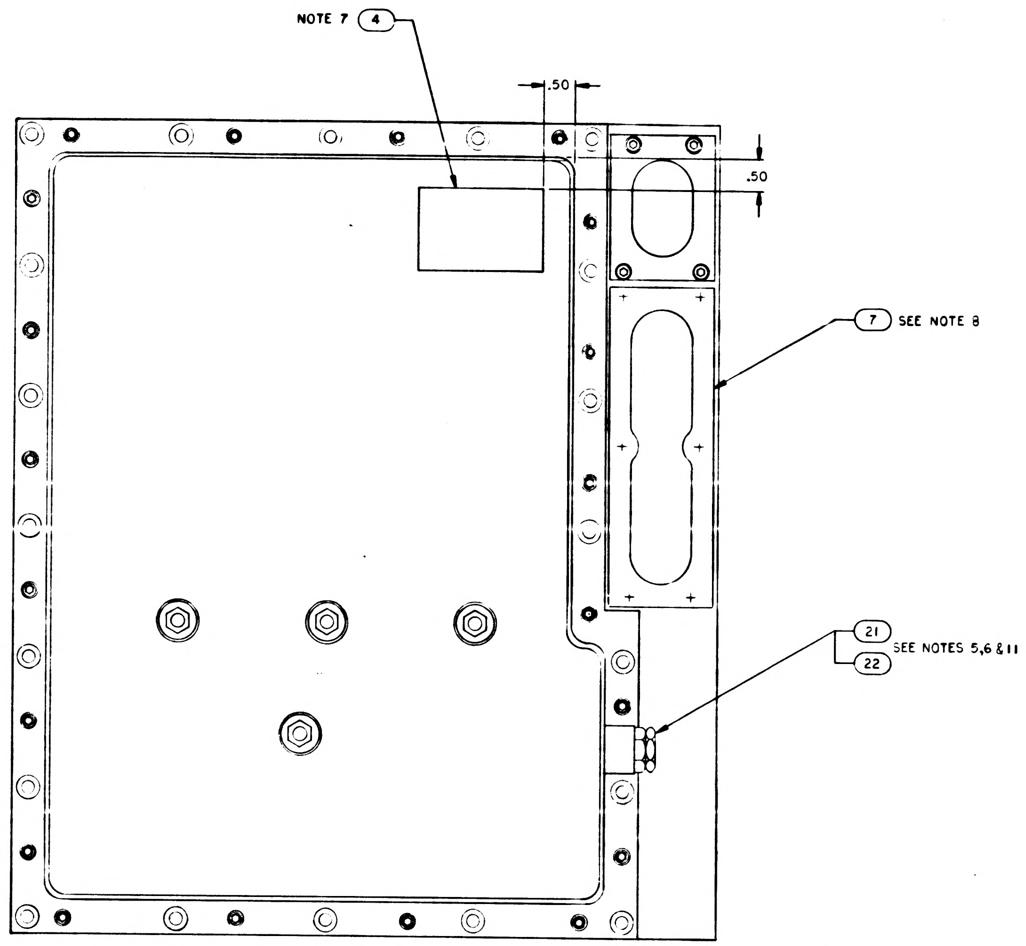

2
24
SEE NOTE 13
18
5
1
26
A
A
11.250
REF

NOTES:

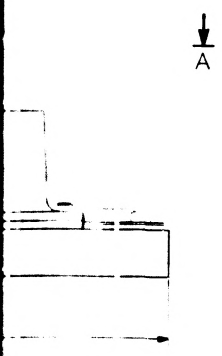
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~[illegible]~~ AND FIND NO. [illegible] TO BE 15-22 INCH POUNDS
3. IDENTIFY WITH PART NO., SERIAL NO. [illegible] AND [illegible]ALIZE PER [illegible]
4. APPLY THIN FILM OF [illegible] TO THE MOUNTING SURFACES OF FIND NO. [illegible] AND [illegible] SHALL [illegible] DRAINING [illegible] PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE [illegible] INCH POUNDS
6. MOUNTING TORQUE FOR [illegible] BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER [illegible]
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER [illegible] PER NOTE [illegible] CONFIRM THAT MODULES LOCATED IN EACH CHANNEL [illegible] REFERENCE THE SAME [illegible] S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 PRIOR TO INSTALLATION IN FIND NO. 2
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 5 & 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	MCH		3 Nov 65	WK
E		REVISED PER TDRR 24565				
F		REVISED PER TDRR 27503			5 APR 66	
G		REVISED PER TDRR 28521				
H		REVISED PER TDRR 28504			66	


4
19
23
12
MODULE FOR X PIP
3
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
6
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
25
SEE NOTE 14
9
12.875 REF
17
SEE NOTE 2
20
15
REF
2.625 REF
15


NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11

VIEW A-A



Ⓒ REPLACES WORD DWG REV B

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	-	6007102-011	HEADER ASSEMBLY	26
4	4	2004148-004	WASHER, FLAT	25
20	20	2004148-003	WASHER, FLAT	24
4	4	1004546-3	WASHER, FLAT	23
1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	1	2007213-011	VALVE ASSEMBLY	21
36	36	2008033-1	WASHER, FLAT	20
4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	1010977-001	SCREW, CAPTIVE	17
1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	1	2007106-021	PULSE TORQUE POWER SUPPLY	15
3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	2007104-011	AC DIFF AMPL & INTERROGATOR	13
4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	2007102-011	GYRO CALIBRATION	11
4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	1008835-002	BUSHING, SEAL	9
1	1	1010962-001	GASKET, SEALING PLATE, TEST. CONN	8
1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	1010975	GASKET, RETAINED	6
1	1	1010973	GASKET, RETAINED	5
1	1	1004260-154	NAMEPLATE	4
1	1	6008010	COVER, JUNCTION TEST CONN	3
1	1	6008030	COVER	2
—	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ± .02 .XXX ± .005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

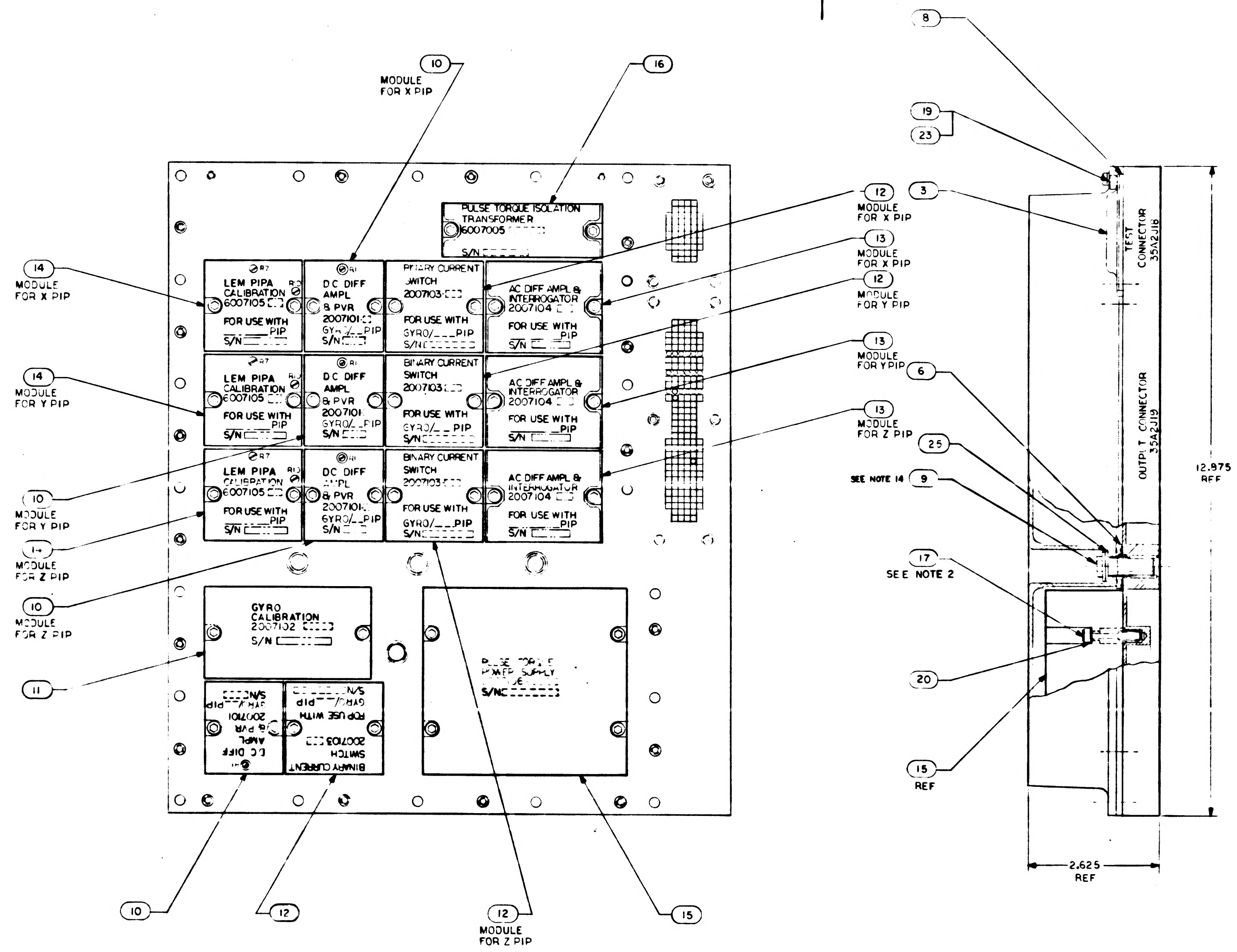
DRAWN Tony Bell
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

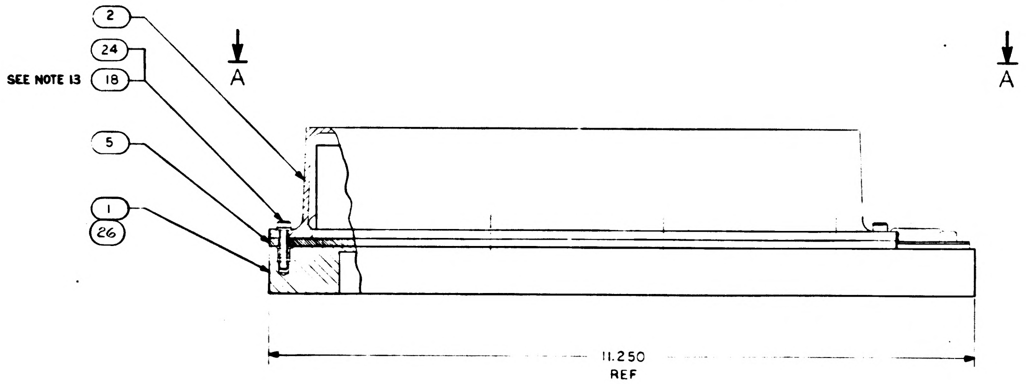
PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 6007000
SCALE 1/1 | SHEET 1 OF 1

NOTICE [illegible] GOVERNMENT [illegible] SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY [illegible] RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY [illegible] AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO


(10) MODULE FOR X PIP
(16)
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
(14) MODULE FOR X PIP
(14) MODULE FOR Y PIP
(10) MODULE FOR Y PIP
(14) MODULE FOR Z PIP
(10) MODULE FOR Z PIP
(11)
LEM PIPA CALIBRATION 6007105
R7
R10
FOR USE WITH ___PIP
S/N
DC DIFF AMPL & PVR 2007101
R1
GYRO/__PIP
S/N
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY
S/N
(12) MODULE FOR X PIP
(13) MODULE FOR X PIP
(12) MODULE FOR Y PIP
(13) MODULE FOR Y PIP
(13) MODULE FOR Z PIP
(10)
(12)
(12) MODULE FOR Z PIP
(15)
(8)
(19)
(23)
(3)
(6)
(25)
SEE NOTE 14 (9)
(17) SEE NOTE 2
(20)
(15) REF
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
12.975 REF
2.625 REF

TOP VIEW WITH COVER REMOVED


(2)
(24)
SEE NOTE 13 (18)
(5)
(1)
(26)
A
A
11.250 REF

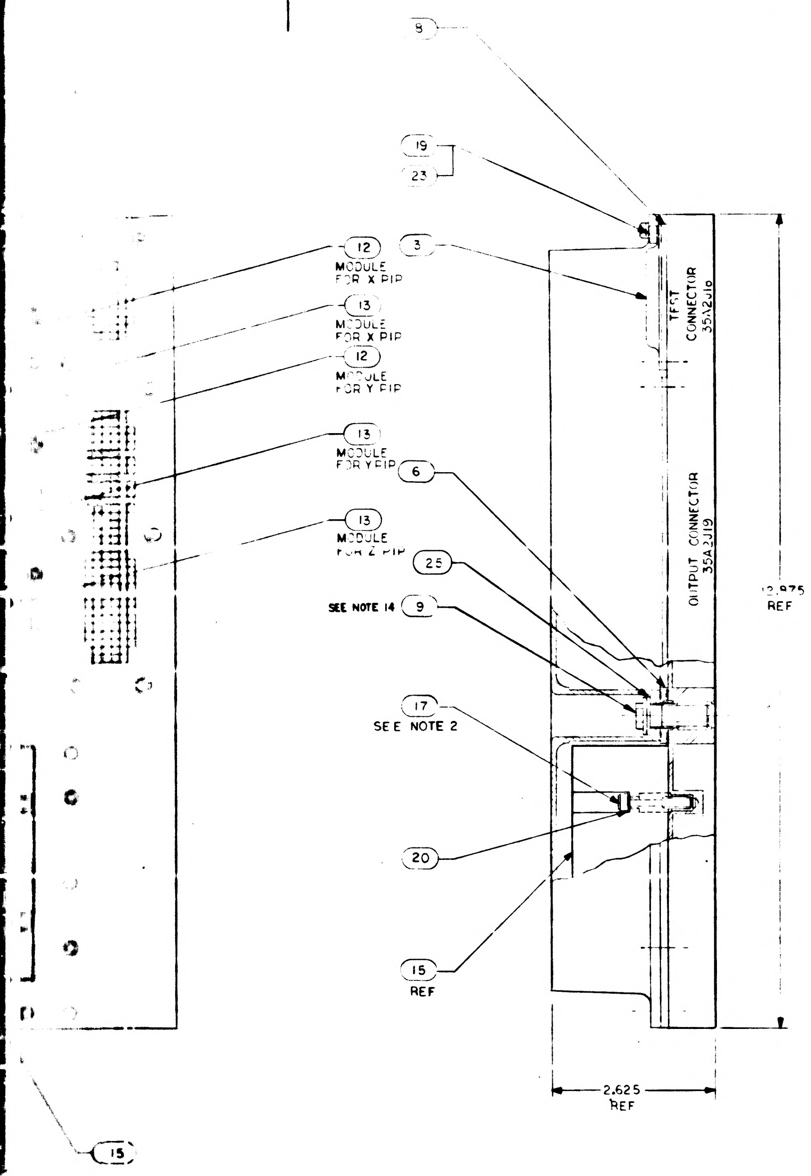
NOTES:

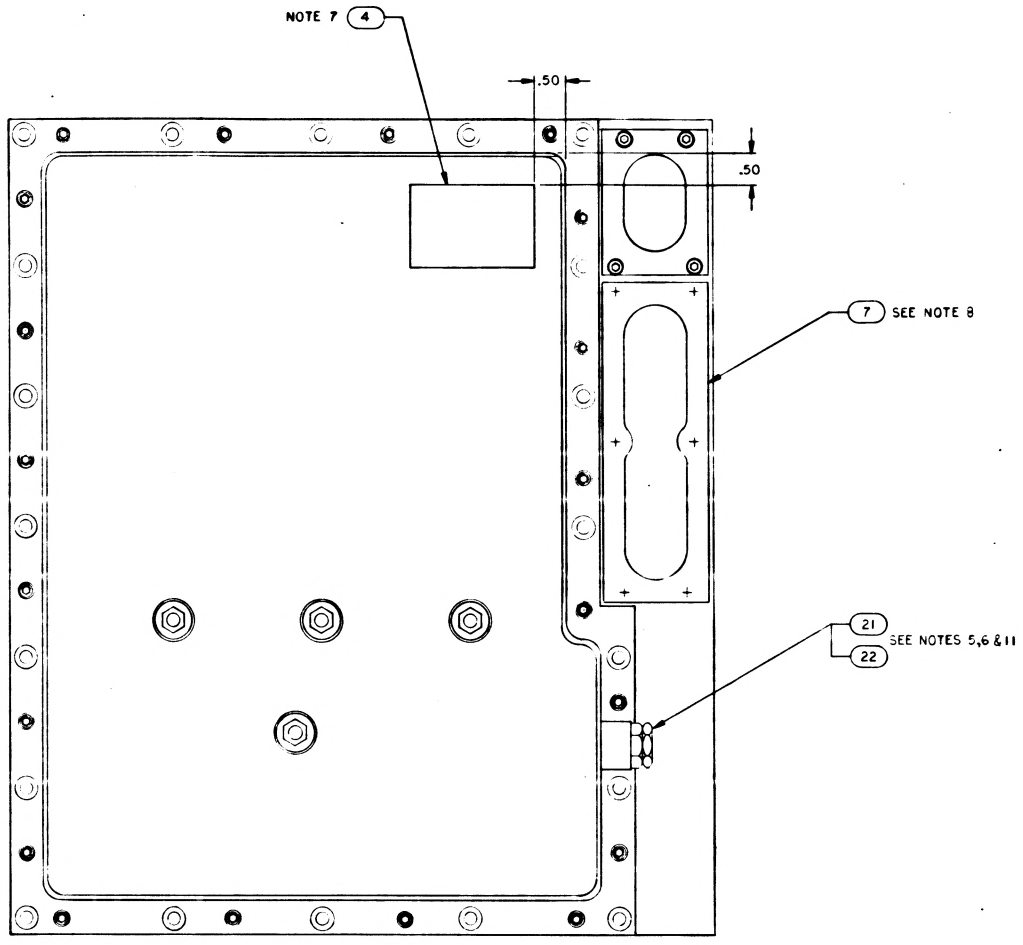
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 1[illegible] 1,12,14 AND 15. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER [illegible] 6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 2 PRIOR TO INSTALLATION IN FIND NO. 2
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 5 & 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

6007000 H

1 / 6007000

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797	[illegible]		[illegible]	[illegible]
D		REVISED PER TDRR 23690	KCN	[illegible]	3 Nov 65	WIC
E		REVISED PER TDRR 24565	[illegible]	[illegible]	[illegible]	[illegible]
F		REVISED PER TDRR 27503	[illegible]	[illegible]	5 APR 66	
G		REVISED PER TDRR 28521	JK	[illegible]	[illegible]	
H		REVISED PER TDRR 28504	JJ	CJP	11 MAY 66	
J		REVISED PER TDRR 29446	[illegible]	CJP	[illegible]	


8
19
23
12 MODULE FOR X PIP
13 MODULE FOR X PIP
12 MODULE FOR Y PIP
13 MODULE FOR Y PIP
13 MODULE FOR Z PIP
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
26
SEE NOTE 14 9
17 SEE NOTE 2
20
15 REF
12.875 REF
2.625 REF
15


NOTE 7 4
.50
.50
7 SEE NOTE 8
21
22
SEE NOTES 5,6 & 11

VIEW A-A

A

Ⓒ REPLACES WORD DWG REV B

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
20	-	1008874-019	SCREW CAP SOCKET HEAD	27
1	-	6007102-011	HEADER ASSEMBLY	26
4	4	2004148-004	WASHER, FLAT	25
20	20	2004148-003	WASHER, FLAT	24
4	4	1004546-3	WASHER, FLAT	23
1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	1	[illegible]-011	VALVE ASSEMBLY	21
36	36	2008033 -1	WASHER, FLAT	20
4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
—	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	1010977-001	SCREW, CAPTIVE	17
1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	1	2007106-021	PULSE TORQUE POWER SUPPLY	15
3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	2007102-011	GYRO CALIBRATION	11
4	4	2007101-011	D C DIFF AMPL & PVR	10
4	4	1008835-002	BUSHING, SEAL	9
1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1	1010961 -001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	1010975	GASKET, RETAINED	6
1	1	1010973	GASKET, RETAINED	5
1	1	1004260 -154	NAMEPLATE	4
1	1	6008010	COVER, JUNCTION TEST CONN	3
1	1	6008030	COVER	2
—	1	6007002-011	HEADER ASSEMBLY	1
-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007001	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Tony Bell
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER
APPROVED MSC PPZ 65-6 2
DATE

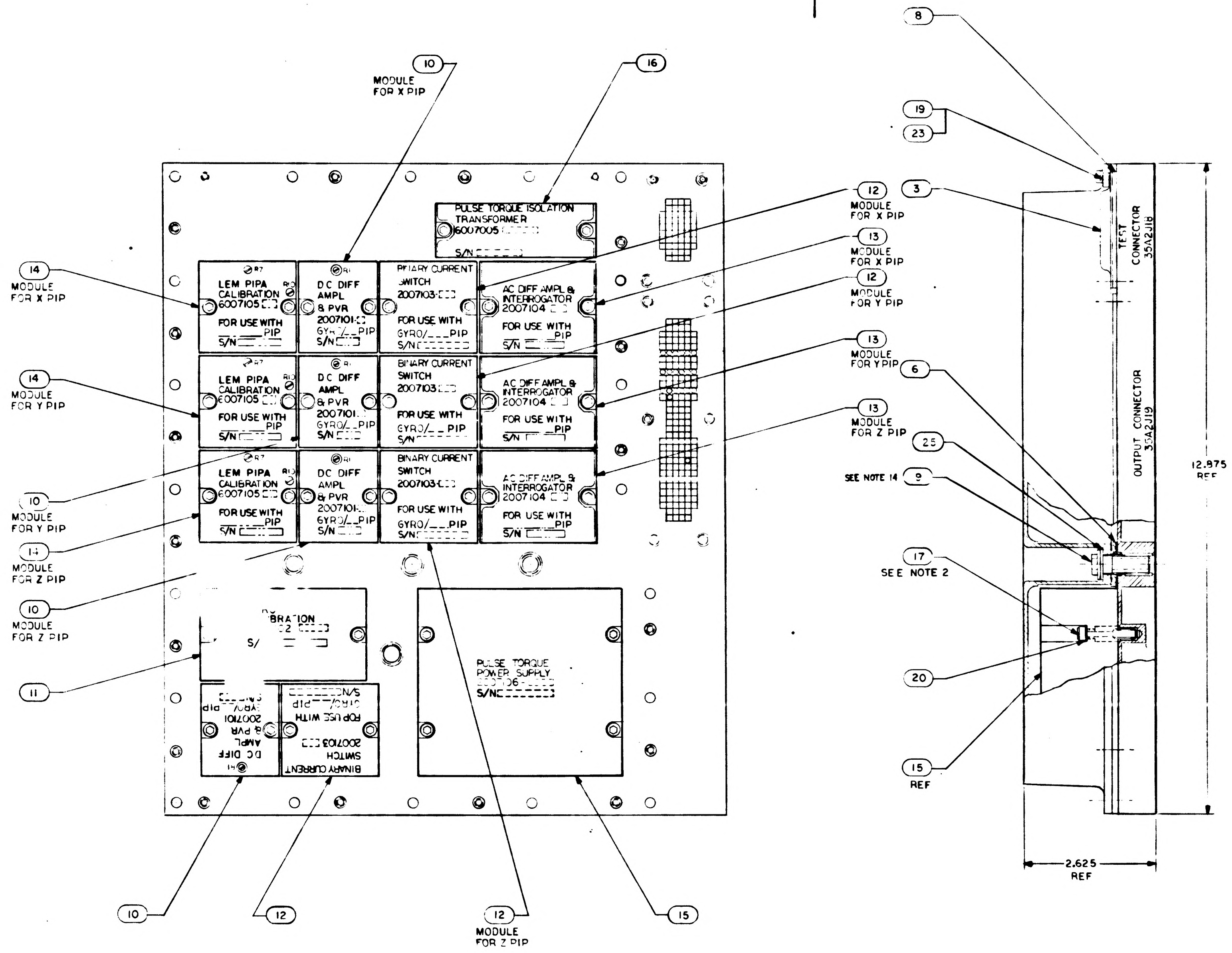
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY
(LEM)

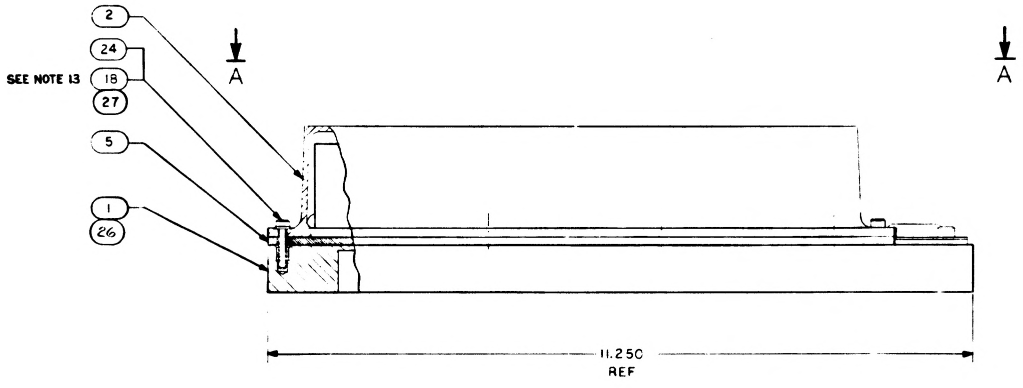
CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

6007 00 J

27-6007000


10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
DC DIFF AMPL & PVR 2007101-
GYRO/__PIP
S/N
BINARY CURRENT SWITCH 2007103-
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
BRATION
S/
PULSE TORQUE POWER SUPPLY 2007106-
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
8
19
23
3
TEST CONNECTOR 35A2J16
OUTPUT CONNECTOR 35A2J19
6
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
12.875 REF
2.625 REF

TOP VIEW WITH COVER REMOVED

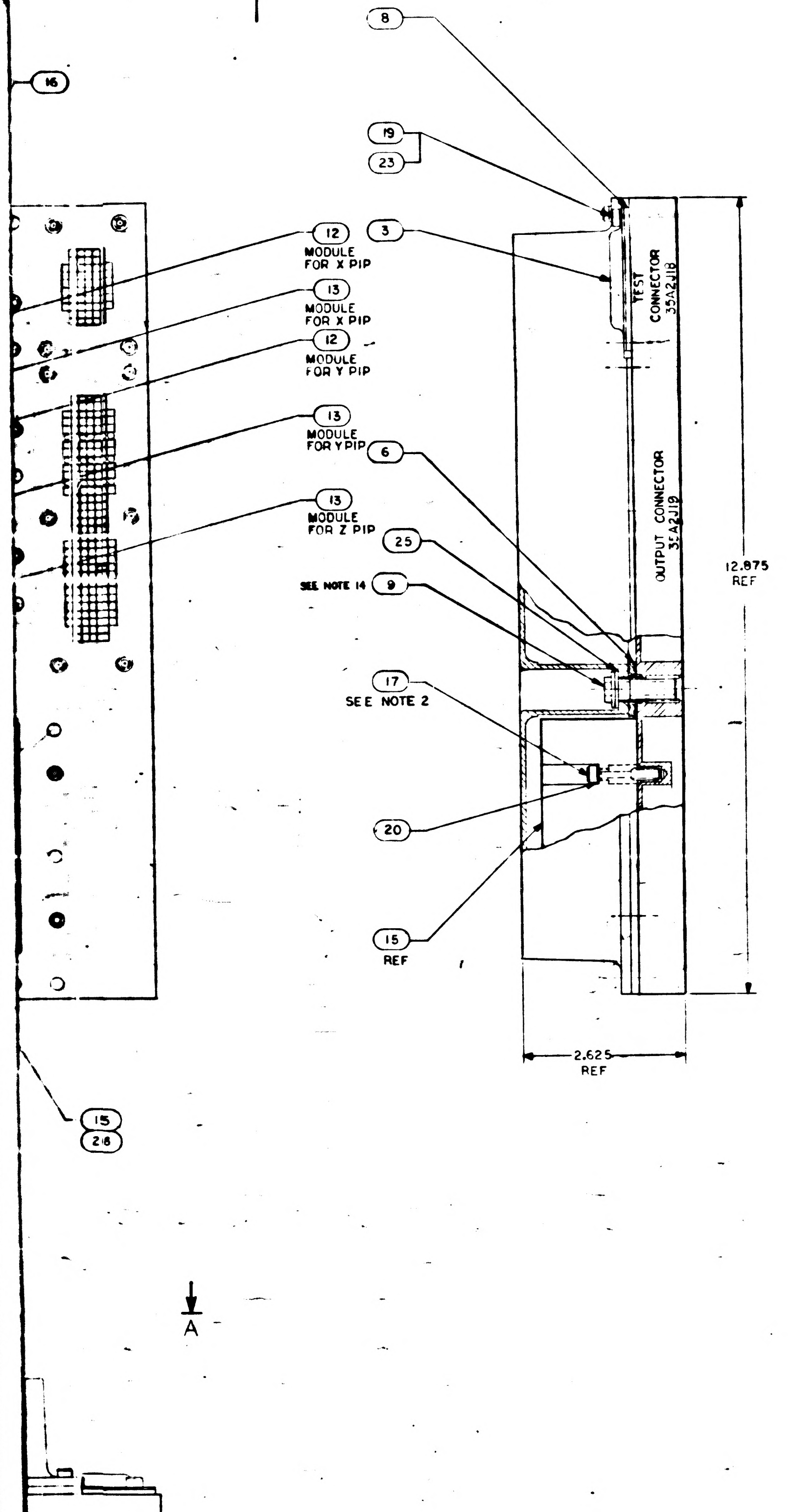

2
24
SEE NOTE 13
18
27
5
1
26
A
A
11.250 REF

NOTES:

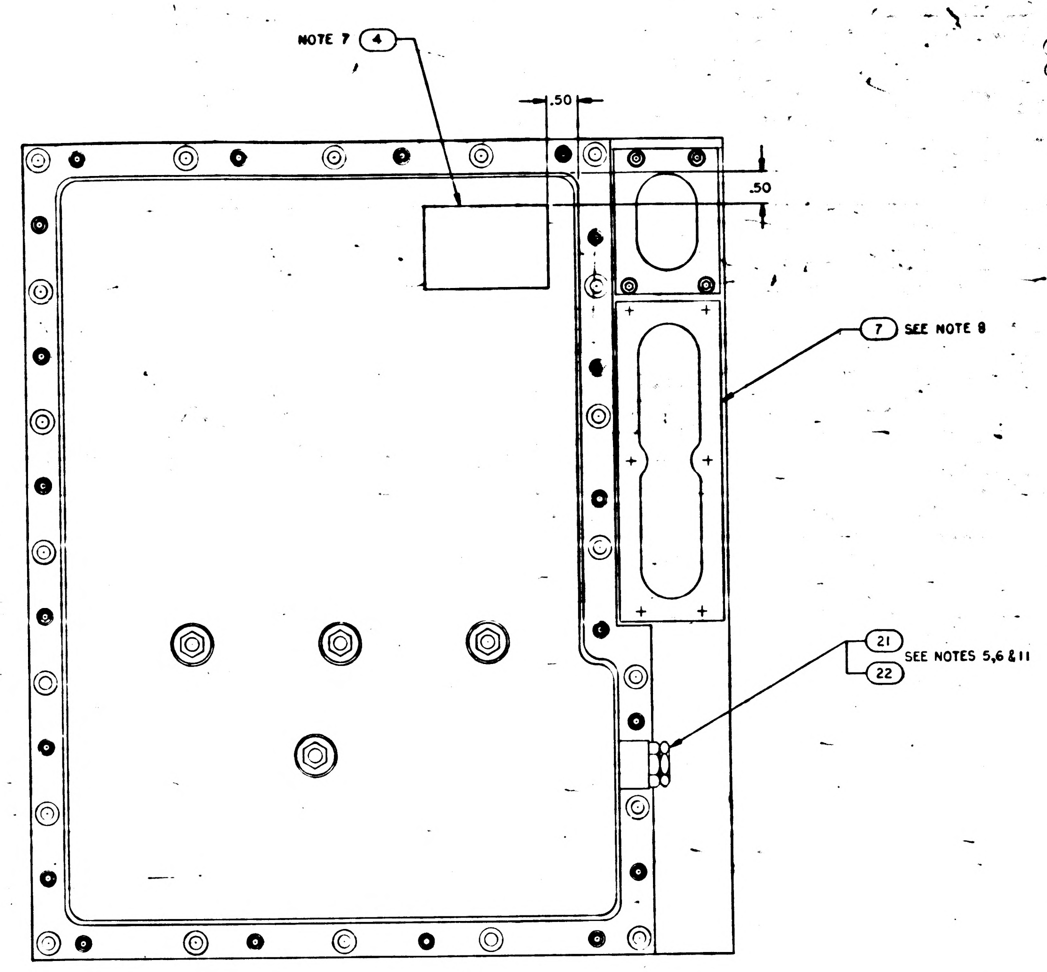
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006875 TO THE MOUNTING SURFACES OF FIND NO. [illegible] 11, 12, 14 AND 16. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER [illegible] 6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 2 PRIOR TO INSTALLATION IN FIND NO. 2
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 5 & 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

6007000	J

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690				WK
E		REVISED PER TDRR 24565			9 DEC 65	WK
F		REVISED PER TDRR 27603			15 APR 66	
G		REVISED PER TDRR 28521	JK		9 MAY 66	
H		REVISED PER TDRR 28504	JJ	CJP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CJP	15 JUN 66	
K		REVISED PER TDRR 29607	JHP	CJP	22 JUN 66	



16
8
19
23
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J18
6
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
12.875 REF
2.625 REF
15
26
A



NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1	–	–	2007166 - 011	PULSE TORQUE POWER SUPPLY	28
20	–	20	–	1008874 - 019	SCREW CAP SOCKET HEAD	27
–	–	1	–	6007102 - 011	HEADER ASSEMBLY	26
4	4	4	4	2004148 - 004	WASHER, FLAT	25
20	20	20	20	2004148 - 003	WASHER, FLAT	24
4	4	4	4	1004546 - 3	WASHER, FLAT	23
1	1	1	1	1000159 - 5	PACKING, PREFORMED, "O" RING	22
1	1	1	1	2007213 - 011	VALVE ASSEMBLY	21
36	36	36	36	2008033 - 1	WASHER, FLAT	20
4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	20	–	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	1010977 - 001	SCREW, CAPTIVE	17
1	1	1	1	6007005 - 011	PULSE TORQUE ISOLATION TRANSFORMER	16
–	–	1	1	2007106 - 021	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	6007105 - 011	LEM PIPA CALIBRATION	14
3	3	3	3	2007104 - 011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	2007103 - 011	BINARY CURRENT SWITCH	12
1	1	1	1	2007102 - 011	GYRO CALIBRATION	11
4	4	4	4	2007101 - 011	D C DIFF AMPL & PVR	10
4	4	4	4	1008835 - 002	BUSHING, SEAL	9
1	1	1	1	1010962 - 001	GASKET, SEALING PLATE, TEST CONN	8
1	1	1	1	1010961 - 001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	1010975	GASKET, RETAINED	6
1	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1004260 - 154	NAMEPLATE	4
1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
1	1	1	1	6008030	COVER	2
1	1	–	1	6007002 - 011	HEADER ASSEMBLY	1

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

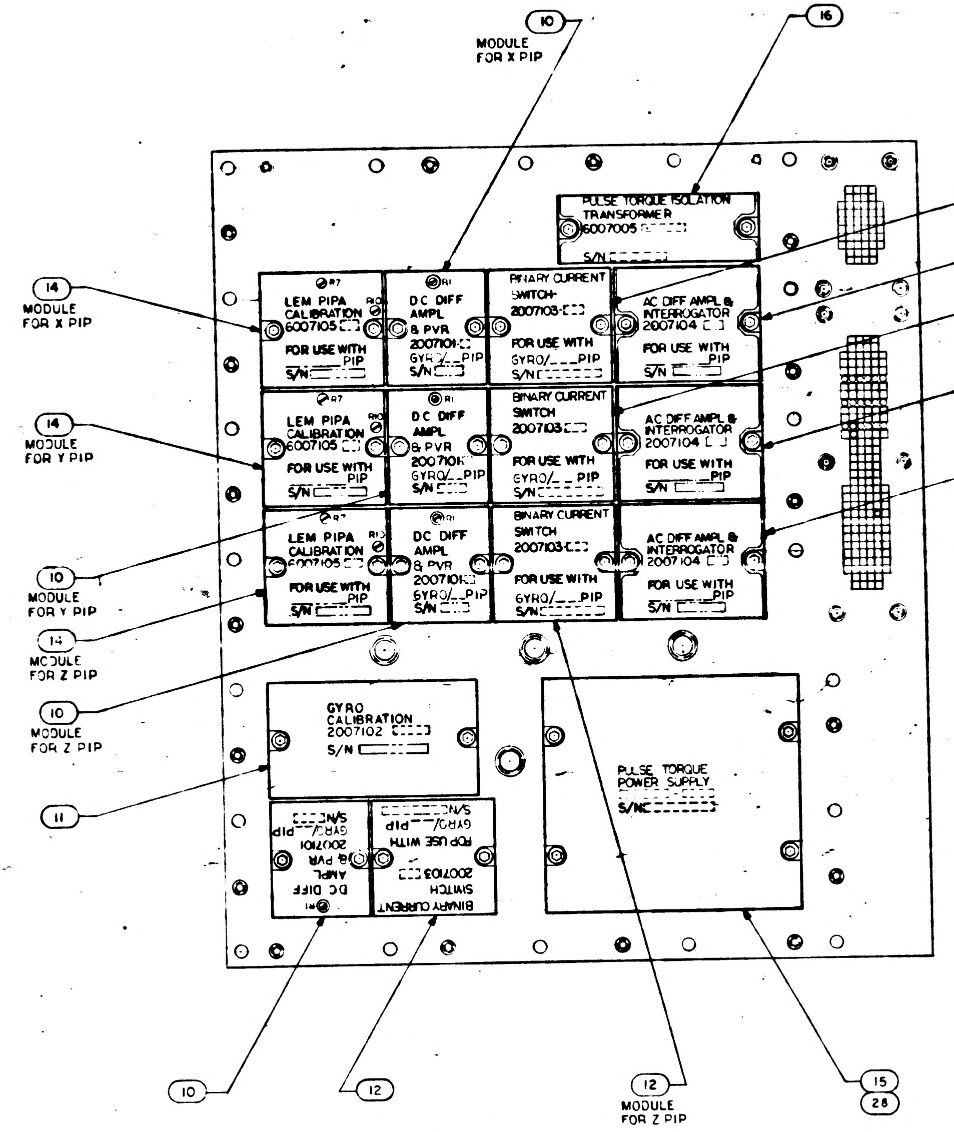
PULSE TORQUE ASSEMBLY (LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

6007000 K

6007000 K

2/6007000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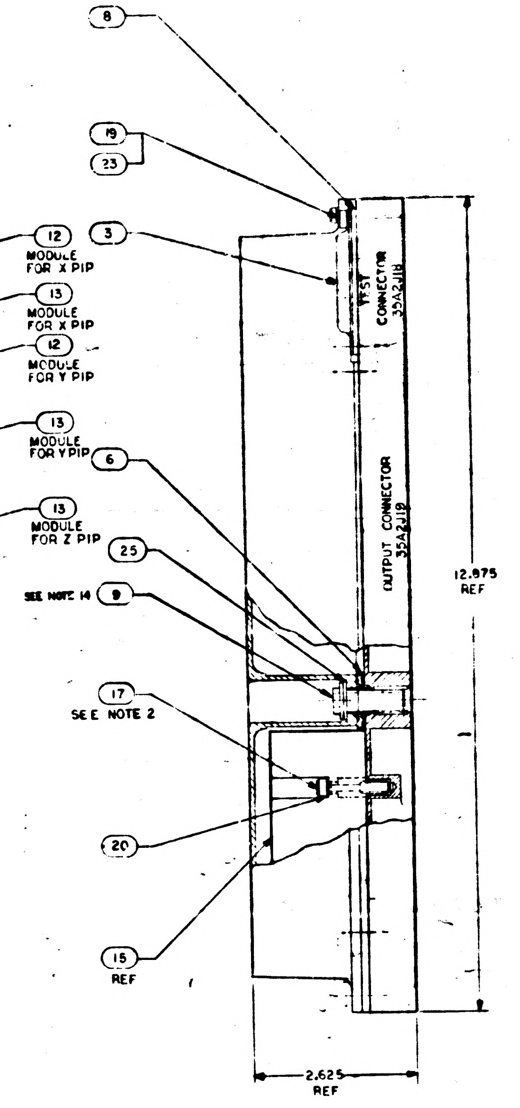
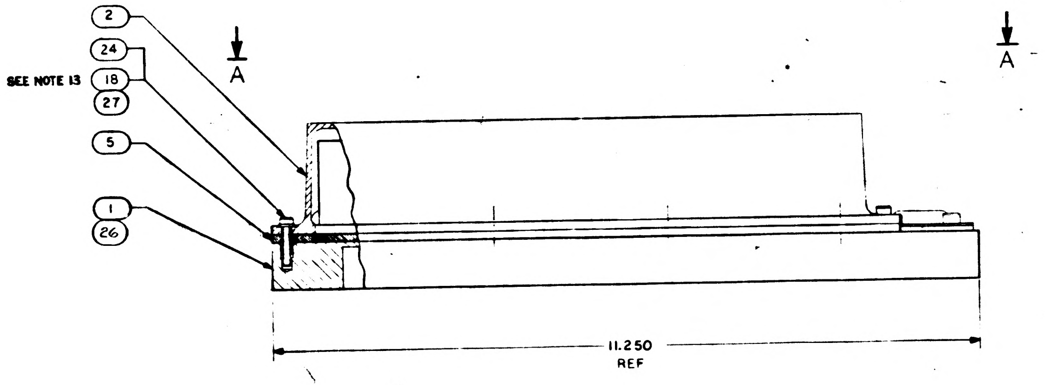
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
DC DIFF AMPL & PVR 2007101
GYRO/__PIP
S/N
R1
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY
S/N
11
10
12
12
MODULE FOR Z PIP
15
28

TOP VIEW WITH COVER REMOVED


8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
12.875
REF
2.625
REF


2
24
SEE NOTE 13
18
27
5
1
26
A
A
11.250
REF

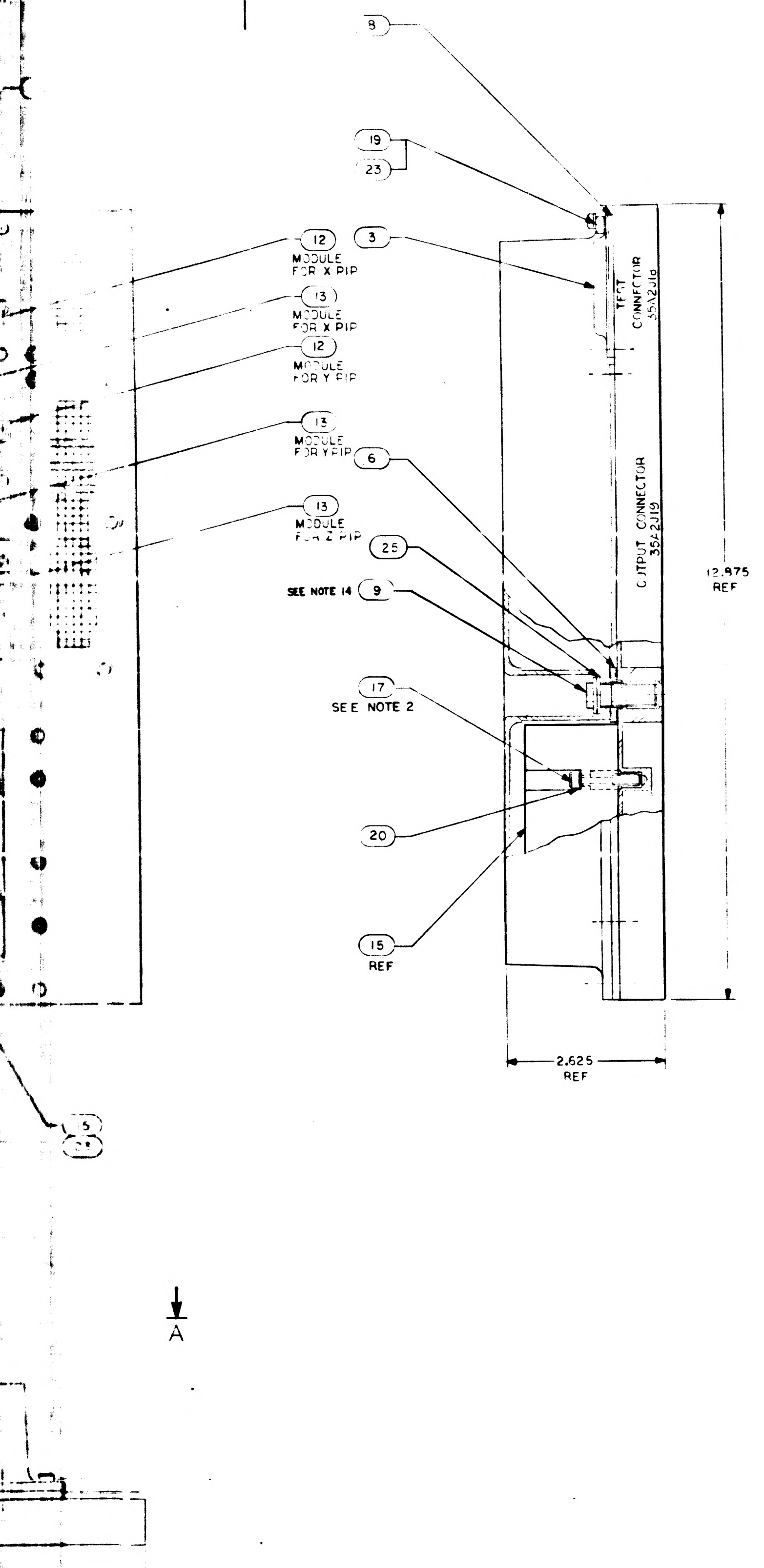
NOTES:

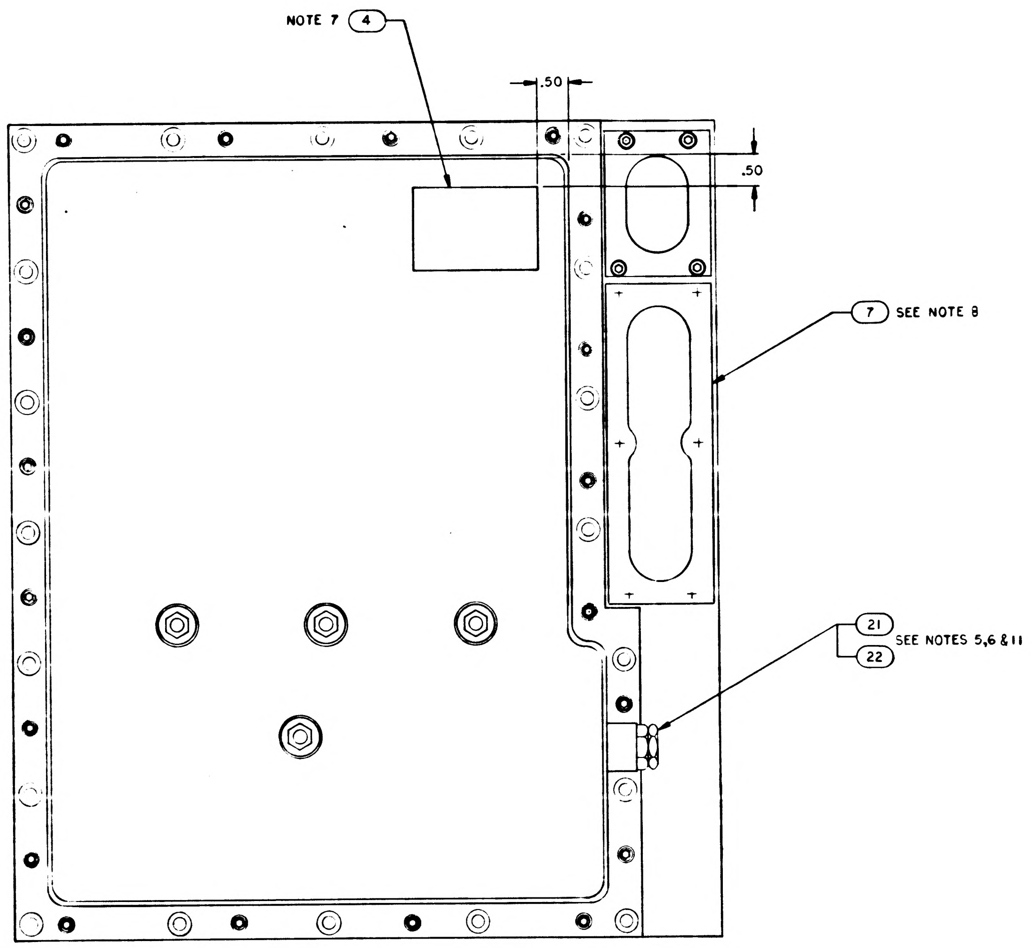
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006875 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DC REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 PRIOR TO INSTALLATION IN FIND NO. 2
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 5 & 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

6007000	K

1760007000

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	MCH		3 Nov 65	WK
E		REVISED PER TDRR 24565				
F		REVISED PER TDRR 27503			15 APR 66	
G		REVISED PER TDRR 28521	JK		9 MAY 66	
H		REVISED PER TDRR 28504	JJ	CJP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CJP	10 JUN 66	
K		REVISED PER TDRR 29607	JHP	CJP	22 JUN 66	
L		REVISED PER TDRR 29592				


8
19
23
12
MODULE FOR X PIP
3
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
6
13
MODULE FOR Z PIP
25
SEE NOTE 14
9
17
SEE NOTE 2
20
15
REF
TEST CONNECTOR 35A2J16
OUTPUT CONNECTOR 35A2J19
12.875 REF
2.625 REF
5
A


NOTE 7
4
.50
.50
7
SEE NOTE 8
21
22
SEE NOTES 5,6 & 11

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1	—	—	2007166-011	PULSE TORQUE POWER SUPPLY	28
20	—	20	—	1008874-019	SCREW CAP SOCKET HEAD	27
—	—	1	—	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	2004148-004	WASHER, FLAT	25
20	20	20	20	2004148-003	WASHER, FLAT	24
4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
1	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
20	20	—	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
—	—	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	4	4	1008835-002	BUSHING, SEAL	9
1	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
1	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	1010975	GASKET, RETAINED	6
1	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1004260-154	NAMEPLATE	4
1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
1	1	1	1	6008030	COVER	2
1	1	—	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007001	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Gary Ball
CHECKED
APPROVED
APPROVED
APPROVED MIT
REQUIRED PER PP7 55-6.2
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

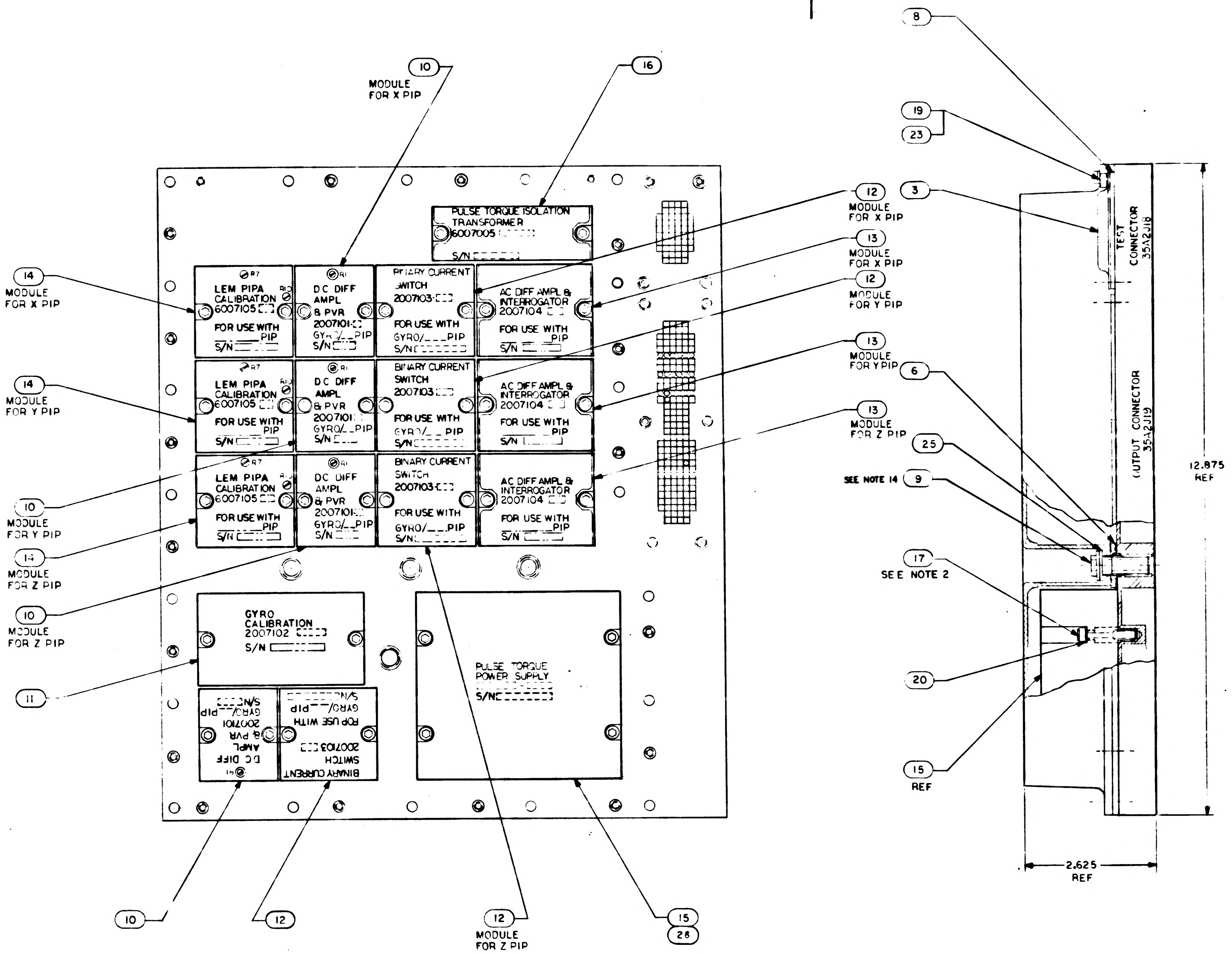
PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6007000

SCALE 1/1 SHEET 1 OF 1

27 6007000

NOTICE [illegible] ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO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MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER
6007005
S/N
14
MODULE FOR X PIP
LEM PIPA CALIBRATION
6007105
FOR USE WITH ___PIP
S/N
R7
R10
R1
DC DIFF AMPL & PVR
2007101
GYRO/__PIP
S/N
BINARY CURRENT SWITCH
2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR
2007104
FOR USE WITH ___PIP
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
GYRO CALIBRATION
2007102
S/N
PULSE TORQUE POWER SUPPLY
S/N
11
10
12
12
MODULE FOR Z PIP
15
28
8
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
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SEE NOTE 14
9
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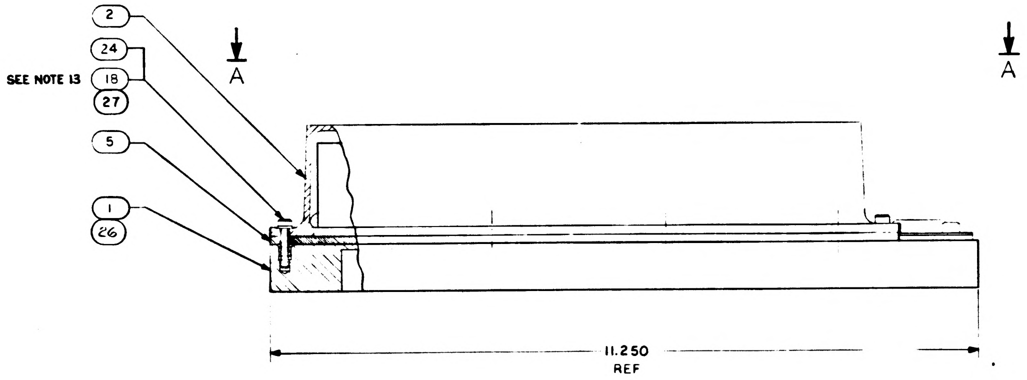
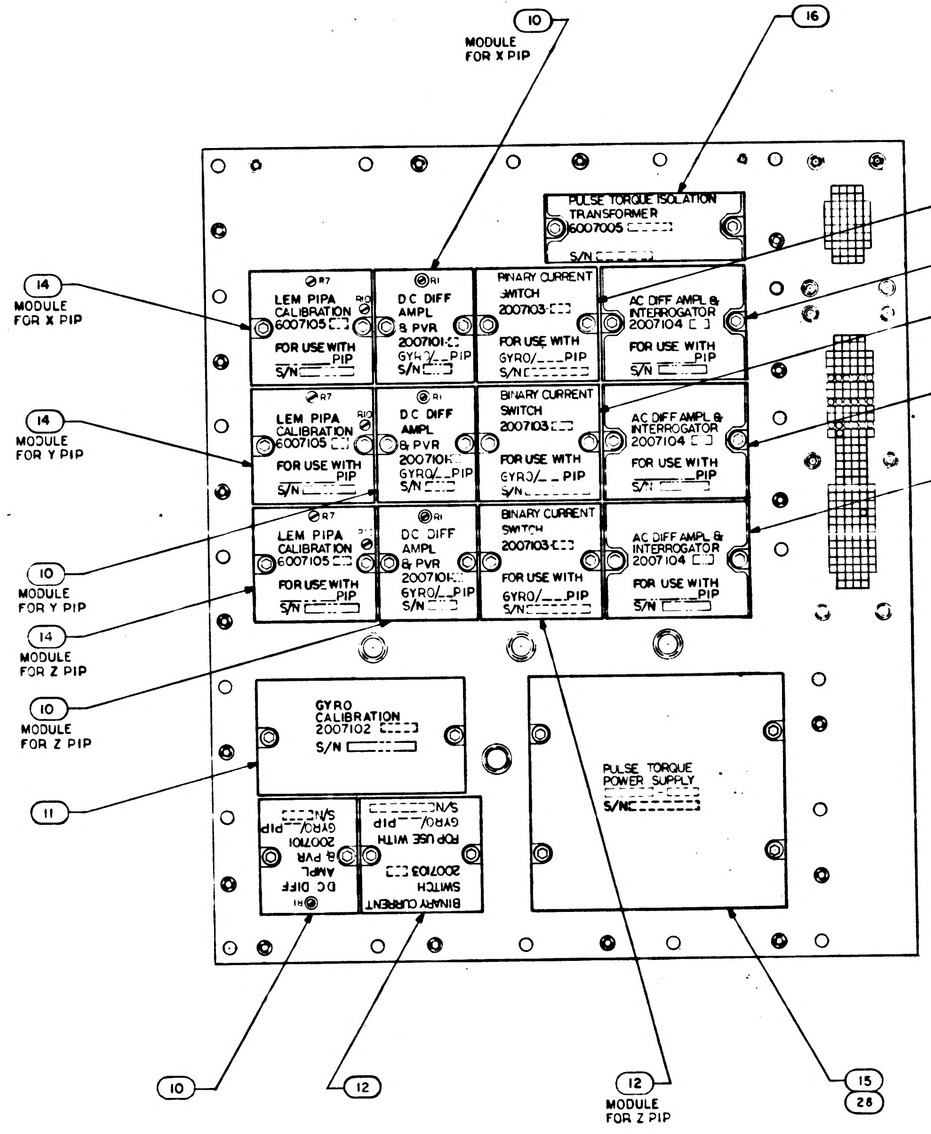
SEE NOTE 2
20
15
REF
12.875
REF
2.625
REF

TOP VIEW WITH COVER REMOVED

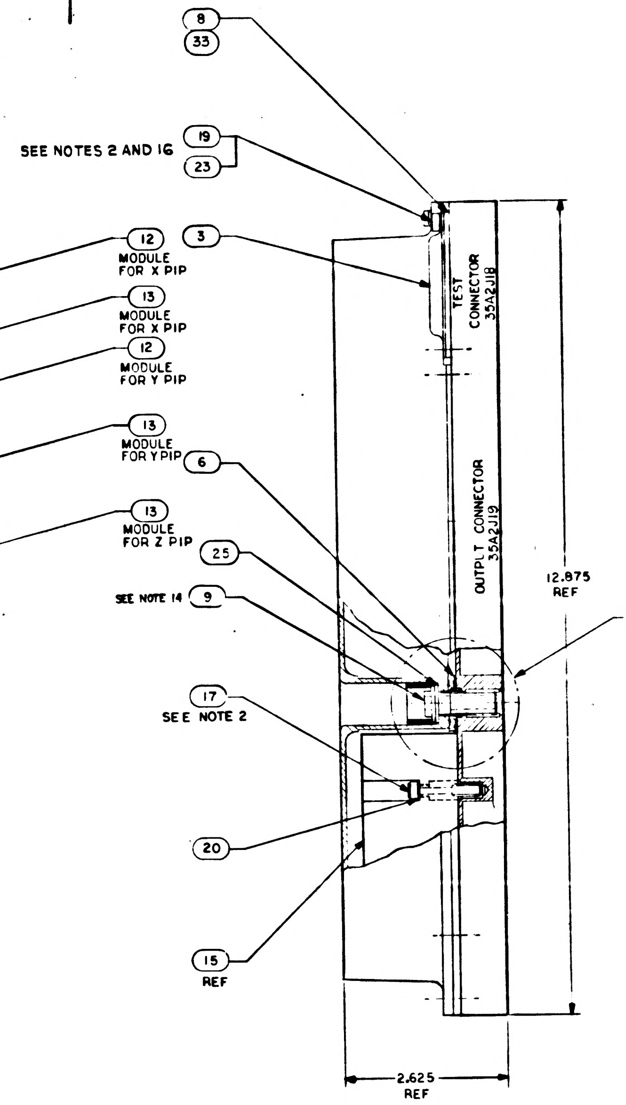

2
24
SEE NOTE 13
18
27
5
1
26
A
A
11.250
REF

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 15 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE NO. 5575 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 TO BE 55-60 INCH POUNDS
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 PER ND1002219
8. FIND NO. 7 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
9. PROCURE PER PC6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 PRIOR TO INSTALLATION IN FIND NO. 2
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 5 & 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.


MODULE FOR X PIP
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
DC DIFF AMPL & PVR 2007101
GYRO/___PIP
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
MODULE FOR Y PIP
MODULE FOR Z PIP
GYRO CALIBRATION 2007102
PULSE TORQUE POWER SUPPLY
10
16
12
13
14
11
15
28

TOP VIEW WITH COVER REMOVED


8
33
SEE NOTES 2 AND 16
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
12.875 REF
SEE DETAIL C
6
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SEE NOTE 14
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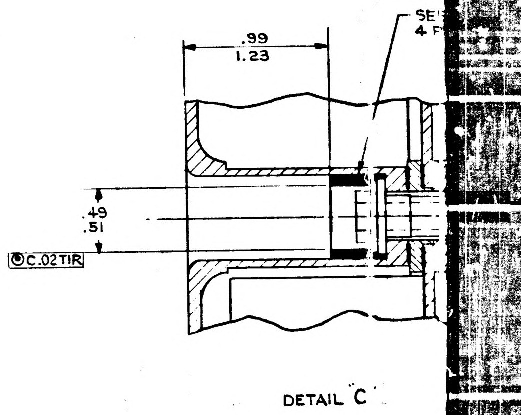
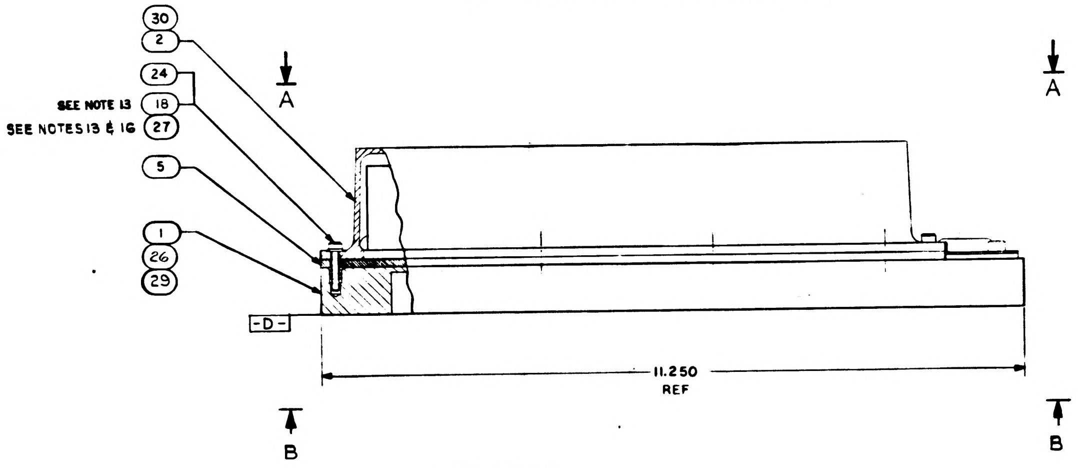
17
SEE NOTE 2
20
15
REF
2.625 REF


.99
1.23
.49
.51
C .02 TIR

DETAIL C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SEE NOTE 13
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SEE NOTES 13 & 16
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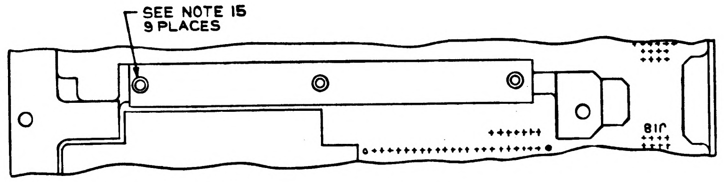
5
1
26
29
A
A
-D-
11.250 REF
B
B


SEE NOTE 15
9 PLACES
81E

PARTIAL VIEW B-B

NOTES:

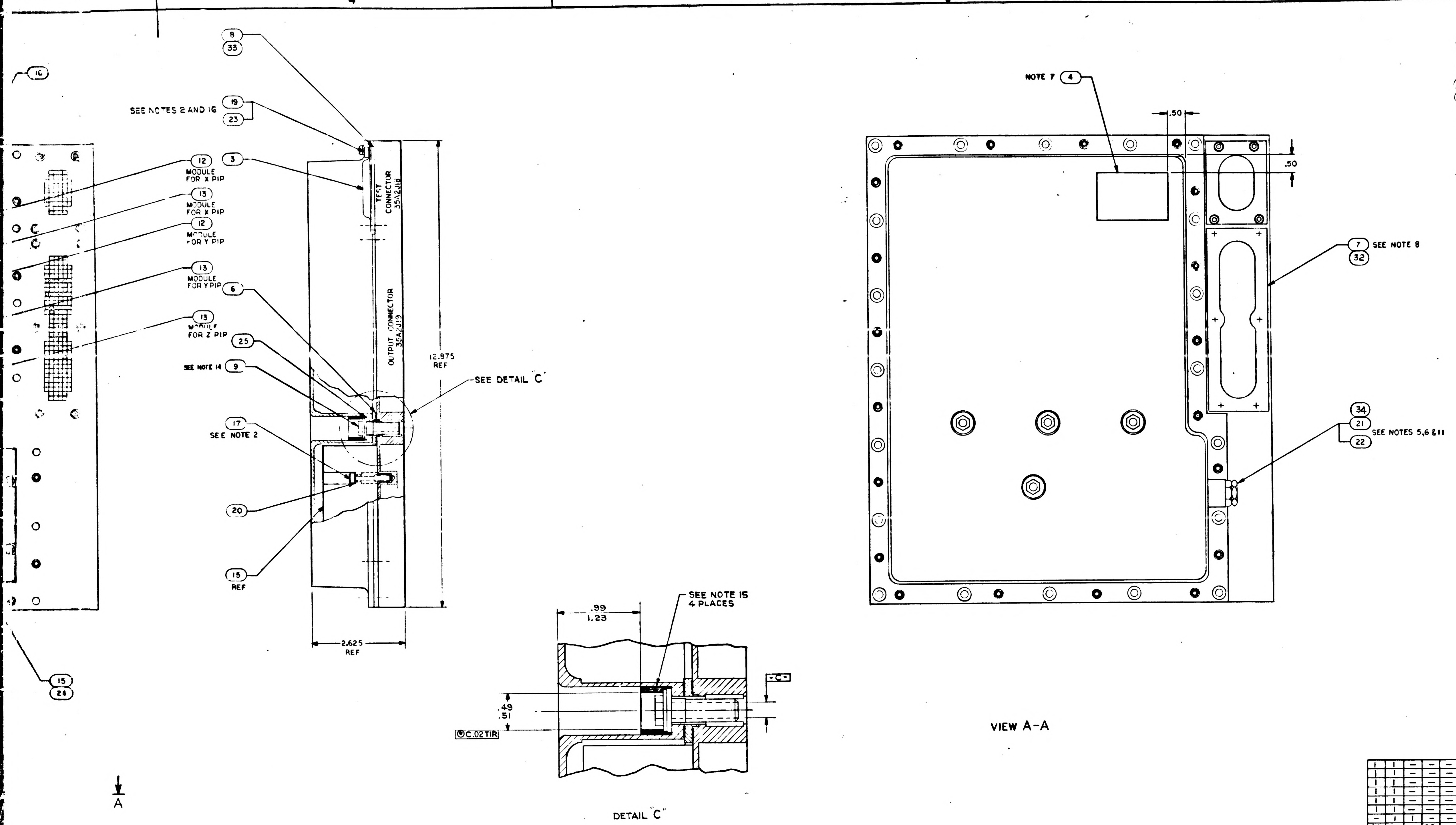
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006875 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 AND 34 TO BE 55-60 INCH POUNDS.
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 AND 34 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 OR 30 PER ND 1002219.
8. FIND NO. 7 OR 32 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER EXTENDING 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D.
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 OR 34 PRIOR TO INSTALLATION IN FIND NO. 2 OR 30 RESPECTIVELY.
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO. 5 OR 31 AND FIND NO. 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

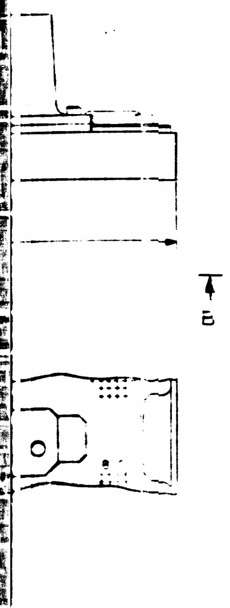
NOTES CONTINUED IN ZONE A4

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009 TYPE D. TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-000 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

6007000	SH 1 OF	M

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	NCN		Nov 65	WK
E		REVISED PER TDRR 24565				WK
F		REVISED PER TDRR 27503			15 APR 66	
G		REVISED PER TDRR 28521	JK		9 MAY 66	
H		REVISED PER TDRR 28504	JJJ	CJP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CJP	10 JUN 66	
K		REVISED PER TDRR 29607	JHP	CJP	22 JUN 66	
L		REVISED PER TDRR 29592		AJ	JUN 66	
M		REVISED PER TDRR 31177	JJJ		11 OCT 66	





Ⓒ REPLACES WORD DWG REV B

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

6. APPLY SEALANT 1006338-000 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

QTY REQD -051	QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1	—	—	—	2007213-021	VALVE, ASSEMBLY	34
1	1	—	—	—	2010784-003	GASKET, SEALING & PLATE TEST CONN.	33
1	1	—	—	—	2010784-002	GASKET, SEALING PLATE, OUTPUT CONN.	32
1	1	—	—	—	2010784-005	GASKET, RETAINED	31
1	1	—	—	—	6010657	COVER, INSEP. ASSEMBLY	30
1	1	—	—	—	6007102-021	HEADER ASSEMBLY	29
—	1	1	—	—	2007166-011	PULSE TORQUE POWER SUPPLY	28
20	20	—	20	—	1008874-019	SCREW CAP SOCKET HEAD	27
—	—	—	1	—	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	4	2004148-004	WASHER, FLAT	25
20	20	20	20	20	2004148-003	WASHER, FLAT	24
4	4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
—	—	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
—	—	20	—	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	—	—	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	4	4	4	1008835-002	BUSHING, SEAL	9
—	—	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
—	—	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	4	1010975	GASKET, RETAINED	6
—	—	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1	1004260-154	NAMEPLATE	4
1	1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
—	—	1	1	1	6008030	COVER	2
—	—	1	—	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007001	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Tony Ball
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER
APPROVAL PP7-65-612
MSC
DATE

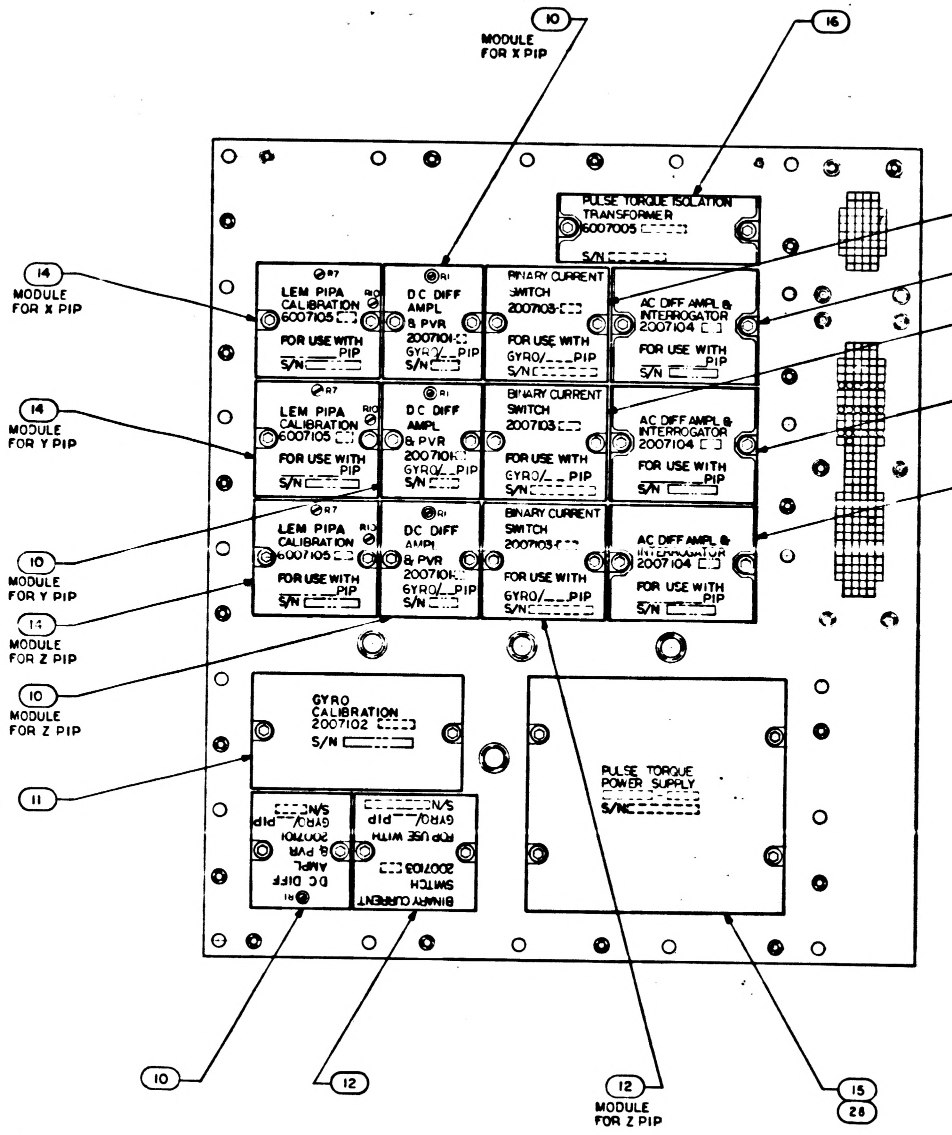
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY (LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

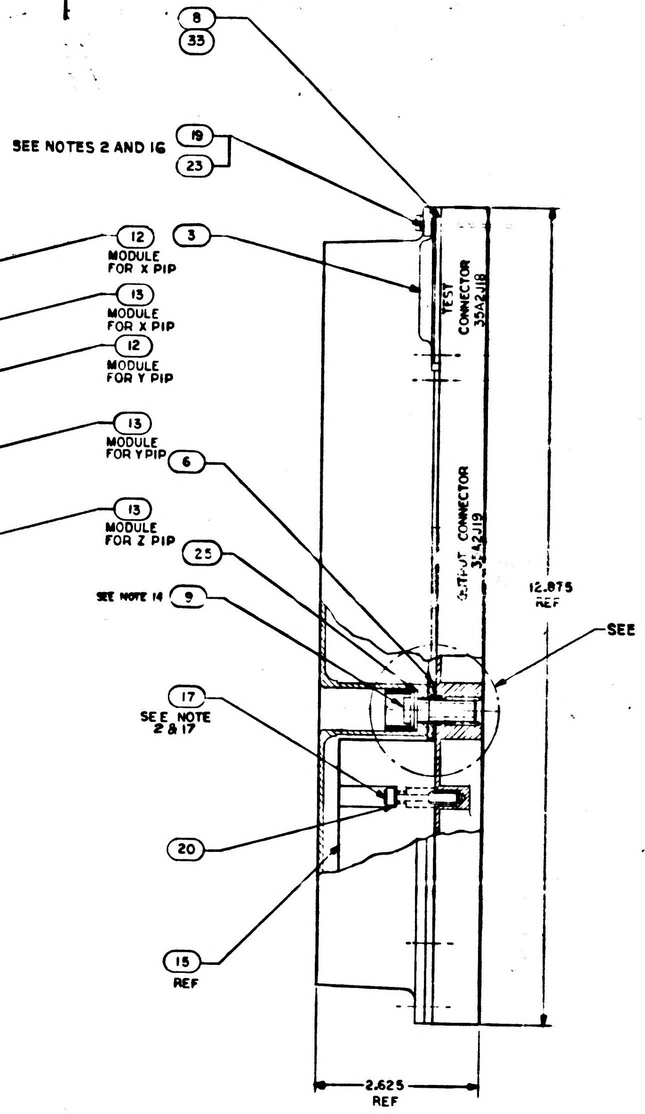
6007000 SH M

2/6007000

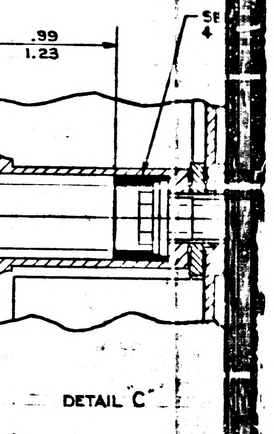


10 MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
12 MODULE FOR X PIP
13 MODULE FOR X PIP
12 MODULE FOR Y PIP
13 MODULE FOR Y PIP
13 MODULE FOR Z PIP
14 MODULE FOR X PIP
14 MODULE FOR Y PIP
10 MODULE FOR Y PIP
14 MODULE FOR Z PIP
10 MODULE FOR Z PIP
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
R1
DC DIFF AMPL & PVR 2007101
GYRO/__PIP
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
AC DIFF AMPL & INTERROGATOR 2007104
GYRO CALIBRATION 2007102
PULSE TORQUE POWER SUPPLY
11
10
12
12 MODULE FOR Z PIP
15
28

TOP VIEW WITH COVER REMOVED

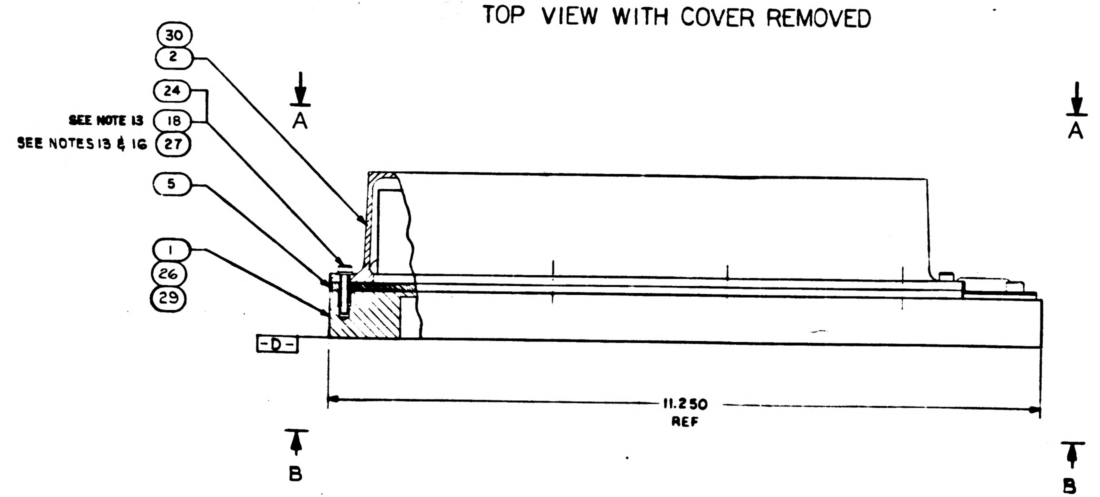


8
33
SEE NOTES 2 AND 16
19
23
3
TEST CONNECTOR 3542118
OUTPUT CONNECTOR 3542119
6
25
SEE NOTE 14
9
17
SEE NOTE 2 & 17
20
15 REF
12.875 REF
SEE DETAIL C
2.625 REF

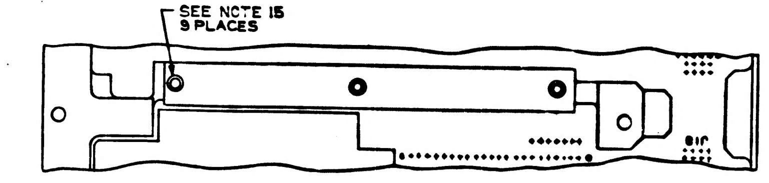


.99
1.23
.49
.51
C .02 TIR

DETAIL C



30
2
24
SEE NOTE 13
18
SEE NOTES 13 & 16
27
5
1
26
29
A
A
-D-
11.250 REF
B
B



SEE NOTE 15 9 PLACES

PARTIAL VIEW B-B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 AND 34 TO BE 55-60 INCH POUNDS.
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 AND 34 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 OR 30 PER ND 1002219.
8. FIND NO. 7 OR 32 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER EXTENDING 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D.
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 OR 34 PRIOR TO INSTALLATION IN FIND NO. 2 OR 30 RESPECTIVELY.
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO. 5 OR 31 AND FIND NO. 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

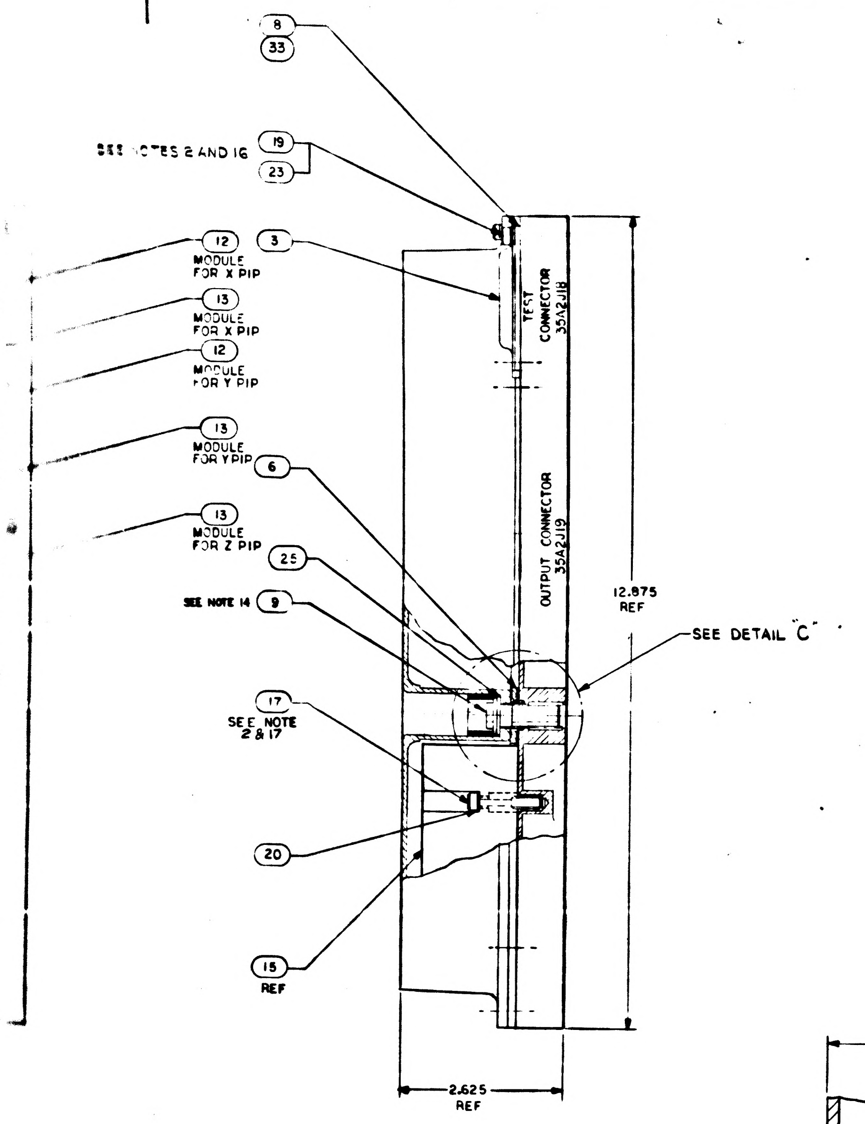
NOTES CONTINUED IN ZONE A4

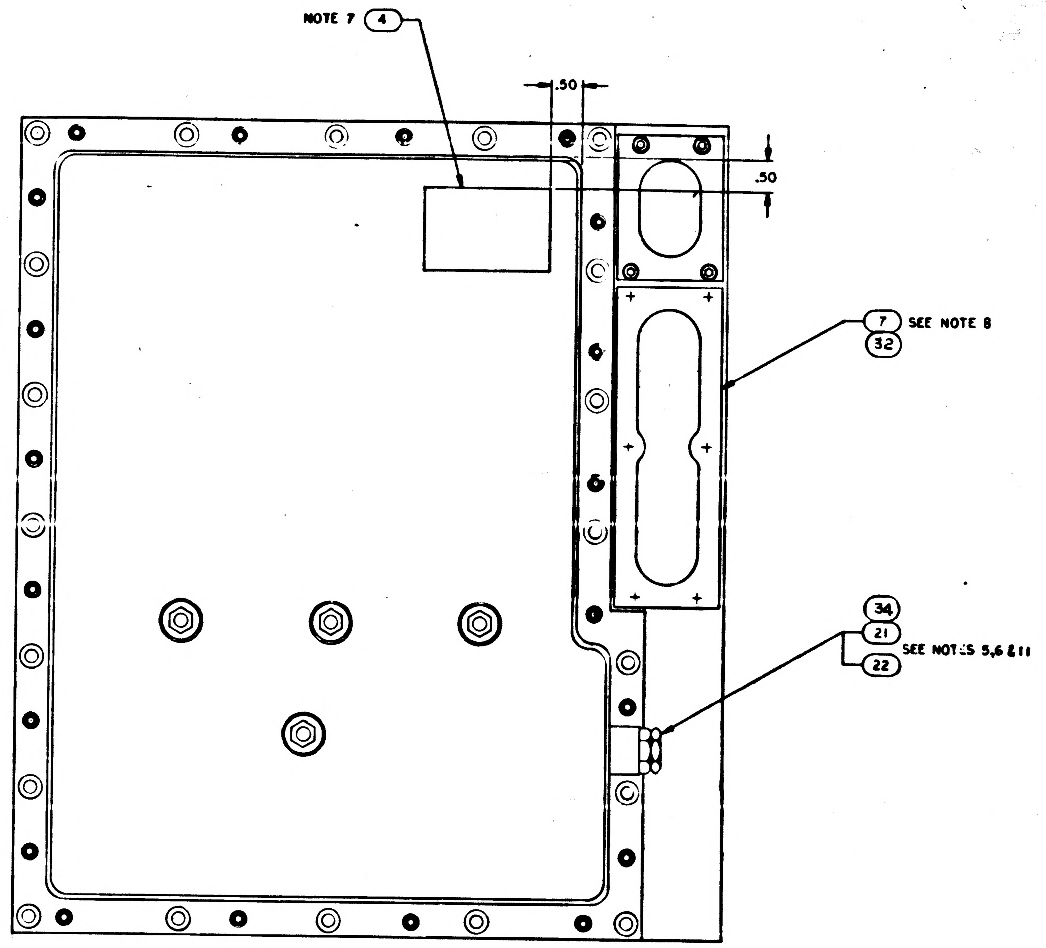
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-000 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

24

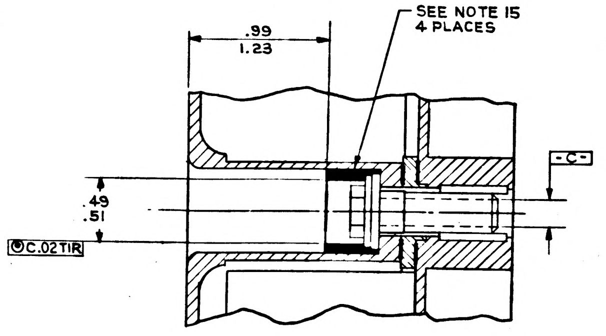
6007000	SH 1 OF 1	N

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPD
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690			65	WK
E		REVISED PER TDRR 24565				WK
F		REVISED PER TDRR 27803			15 APR 66	
G		REVISED PER TDRR 28521	JK		5 MAY 66	
H		REVISED PER TDRR 28504	JJJ	CHP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CJP	16 JUN 66	
K		REVISED PER TDRR 29607	JHP	CJP	22 JUN 66	
L		REVISED PER TDRR 29592		AU	27 JUL 66	
M		REVISED PER TDRR 31177			11 OCT 66	
N		REVISED PER TDRR 33520	RAR		2 APR	





VIEW A-A



DETAIL "C"

Ⓒ REPLACES WORD DWG REV B

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

16. APPLY SEALANT 1006338-000 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

7. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

QTY REQD -051	QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM, DISULFIDE	35
1	1	—	—	—	2007213-021	VALVE ASSEMBLY	34
1	1	—	—	—	2010784-003	GASKET, SEALING PLATE TEST CONN.	33
1	1	—	—	—	2010784-002	GASKET, SEALING PLATE, OUTPUT CONN.	32
1	1	—	—	—	2010784-005	GASKET, RETAINED	31
1	1	—	—	—	6010657	COVER, INSLP. ASSEMBLY	30
1	1	—	—	—	6007102-021	HEADER ASSEMBLY	29
—	1	1	—	—	2007 66-011	PULSE TORQUE POWER SUPPLY	28
20	20	—	20	—	1008876-019	SCREW CAP SOCKET HEAD	27
—	—	—	1	—	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	4	2004141-004	WASHER, FLAT	25
20	20	20	20	20	2004141-005	WASHER, FLAT	24
4	4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
—	—	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
—	—	20	—	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	—	—	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	3	2007134-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	4	2007133-011	BINARY CURRENT SWITCH	12
1	1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	4	2007131-011	DC DIFF AMPL & PVR	10
4	4	4	4	4	1008835-002	BUSHING, SEAL	9
—	—	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
—	—	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	4	1010975	GASKET, RETAINED	6
—	—	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1	1004260-134	NAMEPLATE	4
1	1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
—	—	1	1	1	6008030	COVER	2
—	—	1	—	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

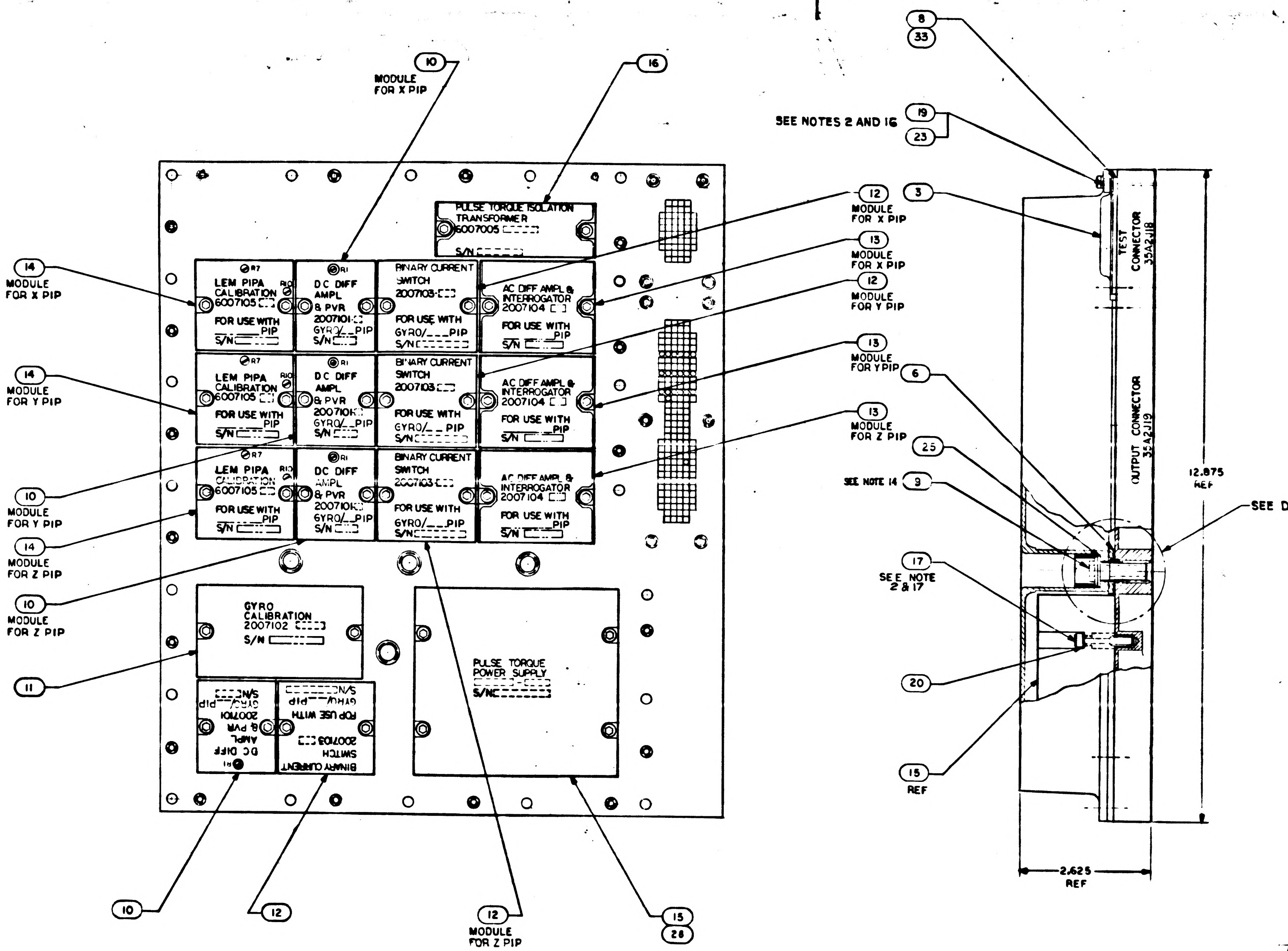
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
T REQUIRED PER LETTER AGMAA-PP7-65-612
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

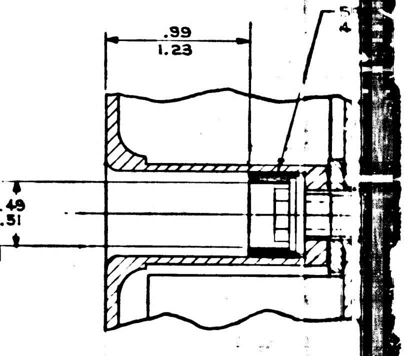
PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

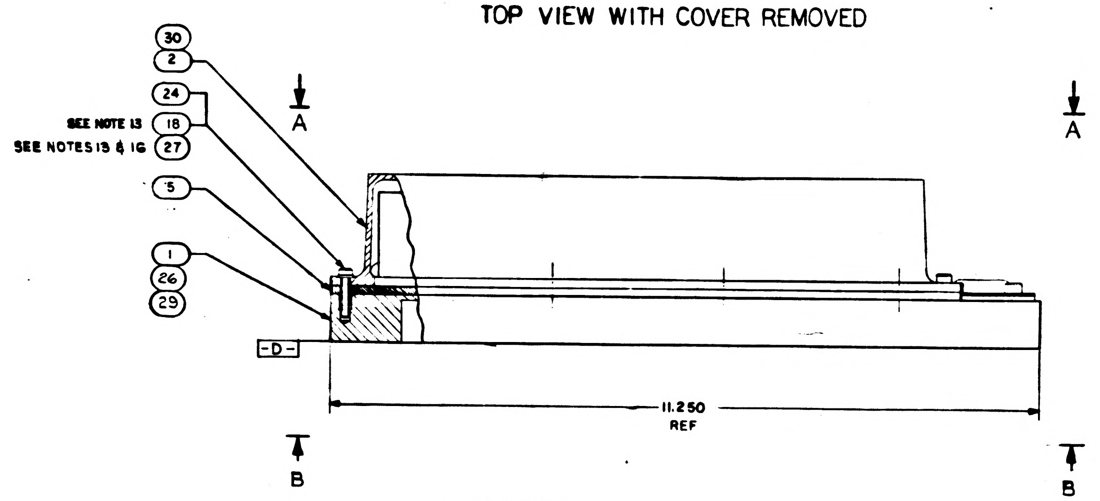
27/6007000

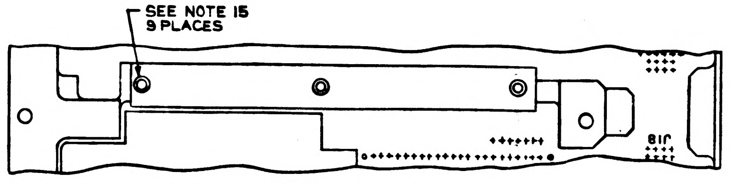

MODULE FOR X PIP
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
DC DIFF AMPL & PVR 2007101
GYRO/___PIP
BINARY CURRENT SWITCH 2007103
AC DIFF AMPL & INTERROGATOR 2007104
MODULE FOR Y PIP
MODULE FOR Z PIP
GYRO CALIBRATION 2007102
PULSE TORQUE POWER SUPPLY
SEE NOTES 2 AND 16
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
SEE NOTE 14
SEE NOTE 2 & 17
SEE DETAIL "C"
12.875 REF
2.625 REF
REF
8 33 19 23 3 12 13 6 25 9 17 20 15 10 14 11 28

TOP VIEW WITH COVER REMOVED


.99
1.23
.49
.51
C .02 TIR
5
4

DETAIL "C"


30 2 24 18 27 3 1 26 29
SEE NOTE 13
SEE NOTES 13 & 16
A
A
-D-
11.250 REF
B
B


SEE NOTE 15
9 PLACES

PARTIAL VIEW B-B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 AND 34 TO BE 55-60 INCH POUNDS.
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 AND 34 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 OR 30 PER ND 1002219.
8. FIND NO. 7 OR 32 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER.
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 OR 34 PRIOR TO INSTALLATION IN FIND NO. 2 OR 30 RESPECTIVELY.
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO. 5 OR 31 AND FIND NO. 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

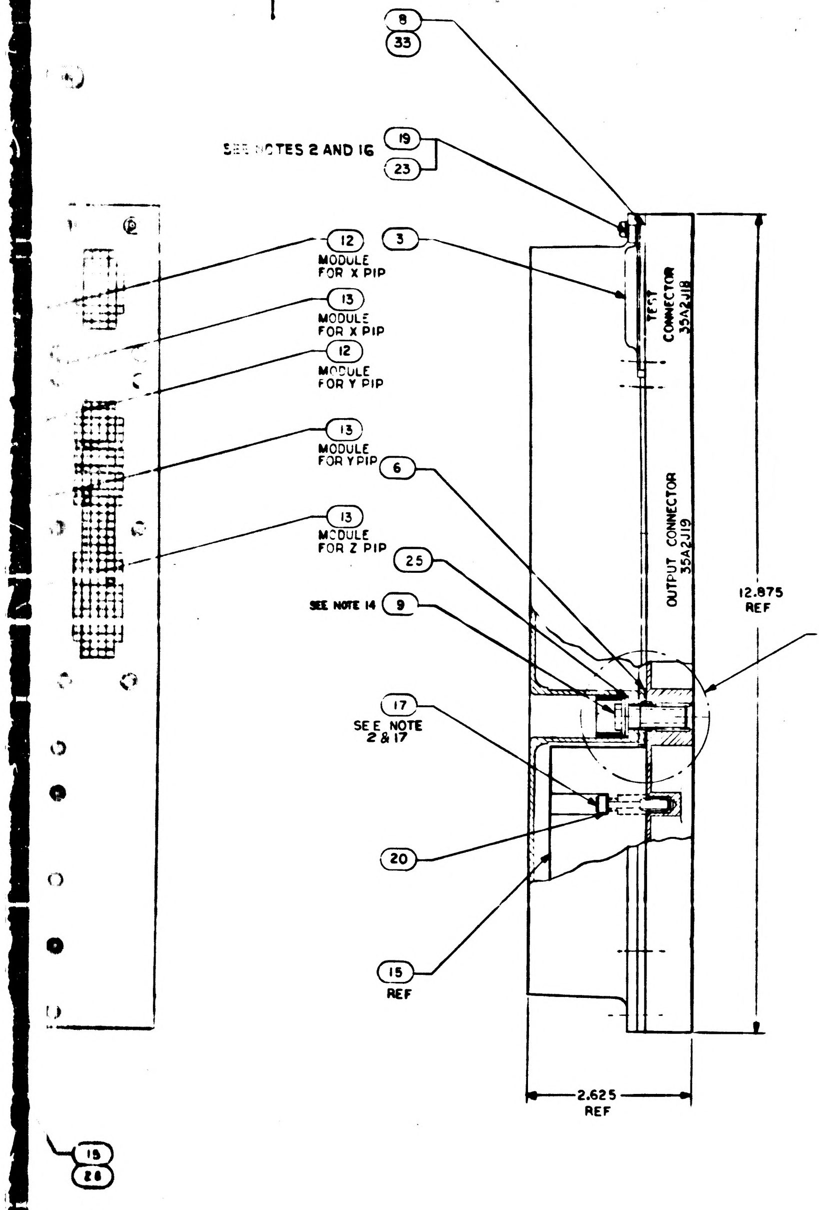
NOTES CONTINUED IN ZONE A4

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

6007000	SH 1 OF	P

1/6007000

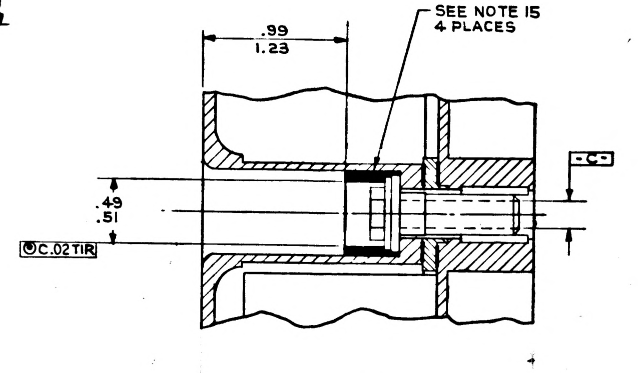
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPD
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	ACN		Nov 65	WK
E		REVISED PER TDRR 24565			Dec	WK
F		REVISED PER TDRR 27603	TR		15 APR 66	
G		REVISED PER TDRR 28521	JK		9 MAY 66	
H		REVISED PER TDRR 28504	JJJ	CAP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CAP	10 JUN 66	
K		REVISED PER TDRR 29607	JHP	CAP	22 JUN 66	
L		REVISED PER TDRR 29592	TR	AU	JUN 66	
M		REVISED PER TDRR 31177	JJJ		11 OCT 66	
N		REVISED PER TDRR 33520	RAK	2CB	12 APR 67	
P		REVISED PER TDRR 33729	A.N.		7 AUG 67	



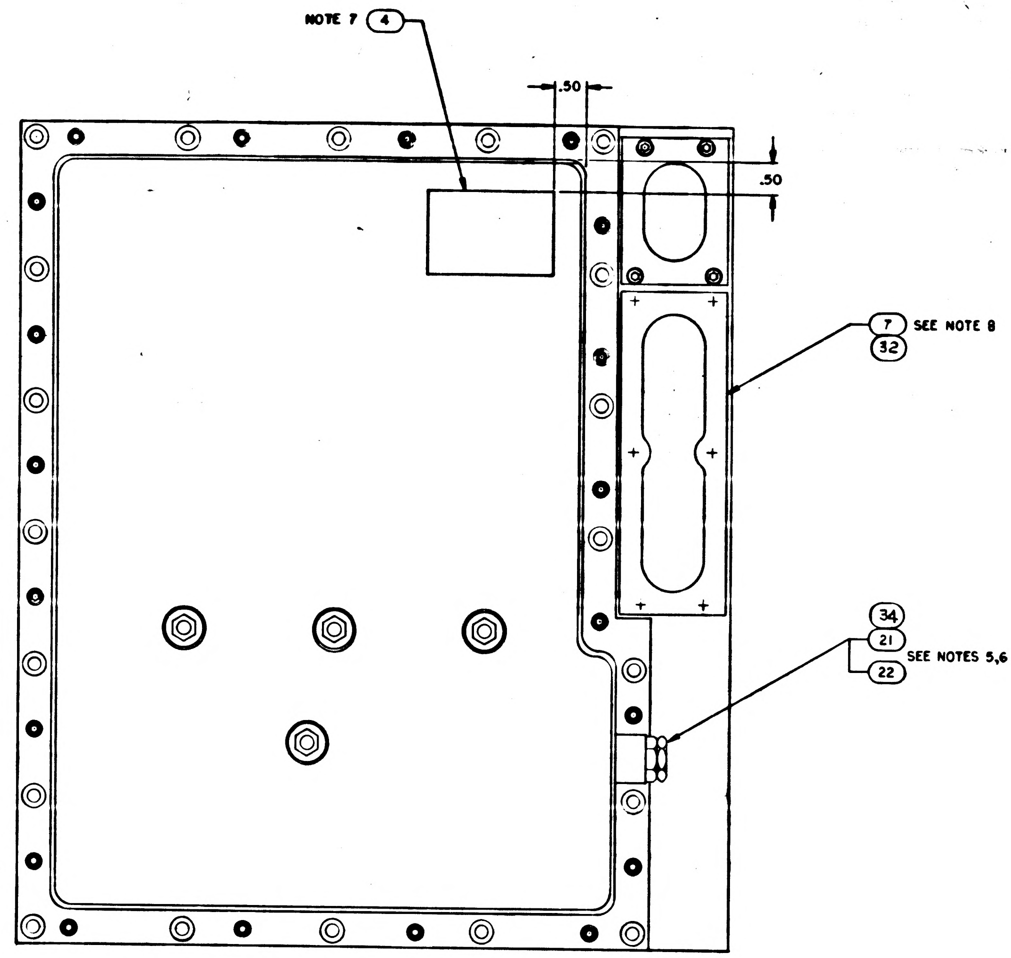
SEE DETAIL C

A

B



DETAIL C



VIEW A-A

Ⓒ REPLACES WORD DWG REV B

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

7. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

QTY REQD -051	QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM, DISULFIDE	35
1	1	–	–	–	2007213-021	VALVE ASSEMBLY	34
1	1	–	–	–	2010784-003	GASKET, SEALING & PLATE TEST CONN.	33
1	1	–	–	–	2010784-002	GASKET, SEALING PLATE, OUTPUT CONN.	32
1	1	–	–	–	2010784-005	GASKET, RETAINED	31
1	1	–	–	–	6010657	COVER, INSEP. ASSEMBLY	30
1	1	–	–	–	6007102-021	HEADER ASSEMBLY	29
–	1	1	–	–	2007166-011	PULSE TORQUE POWER SUPPLY	28
20	20	–	20	–	1008874-019	SCREW CAP SOCKET HEAD	27
–	–	–	1	–	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	4	2004148-004	WASHER, FLAT	25
20	20	20	20	20	2004148-003	WASHER, FLAT	24
4	4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
–	–	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
–	–	20	–	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	–	–	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	4	4	4	1008835-002	BUSHING, SEAL	9
–	–	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
–	–	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	4	1010975	GASKET, RETAINED	6
–	–	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1	1004260-154	NAMEPLATE	4
1	1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
–	–	1	1	1	6008030	COVER	2
–	–	1	–	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007001	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 9/22/65
APPROVED MIT
NOT REQUIRED PER LETTER
PP7-65-612
MSC
DATE

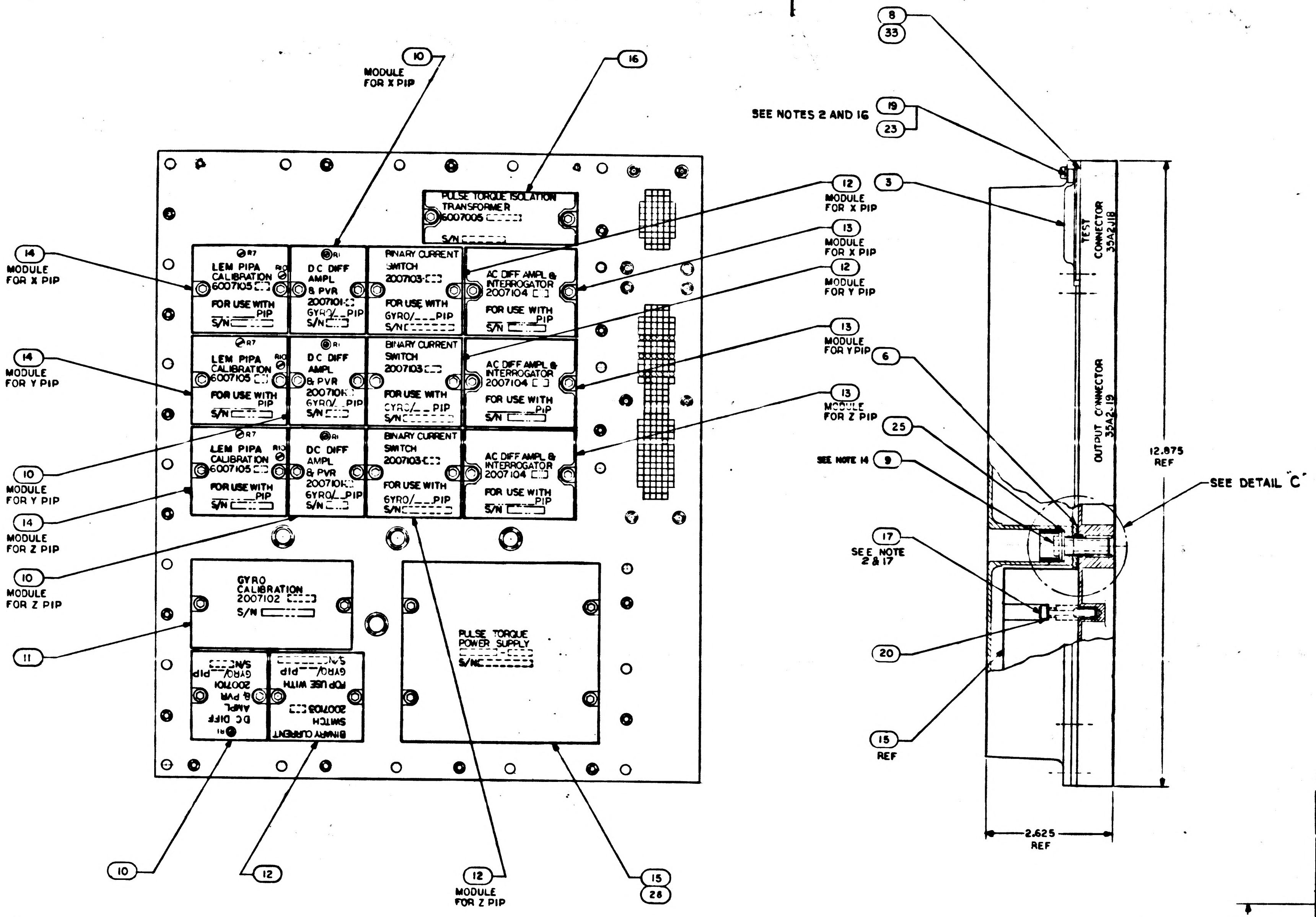
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY
(LEM)

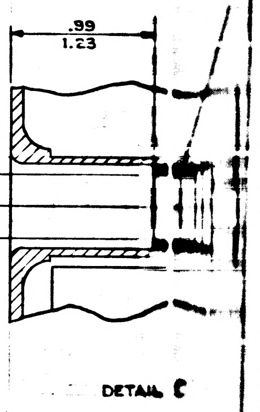
CODE IDENT NO 80230 SIZE J DRAWING NO. 6007000
SCALE 1/1 SHEET 1 OF 1

6007000 SH OF F

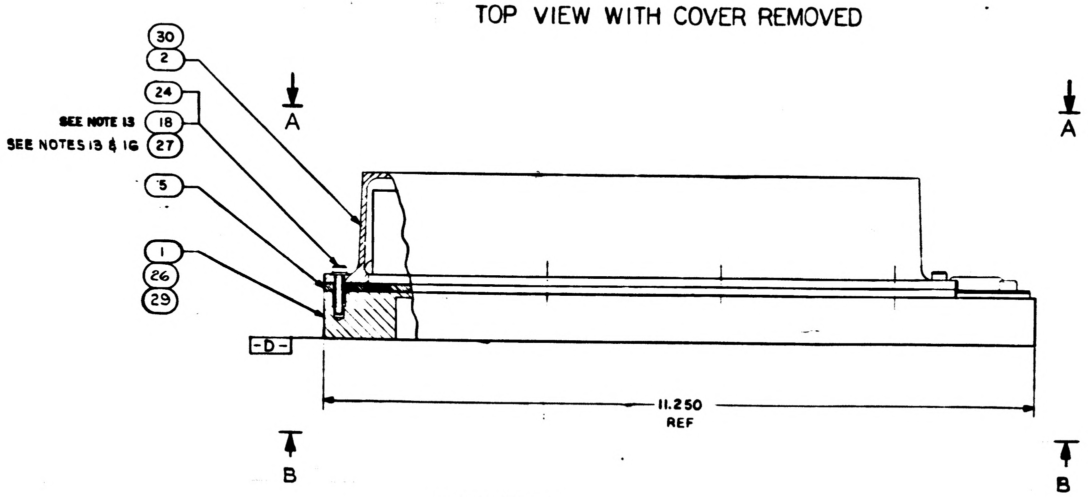
2/6007000

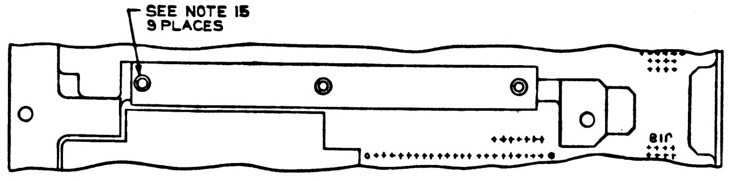

MODULE FOR X PIP
10
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
DC DIFF AMPL & PVR 2007101
GYRO/__PIP
S/N
R1
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
10
12
12
MODULE FOR Z PIP
15
28
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
8
33
SEE NOTES 2 AND 16
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
SEE NOTE 14
9
17
SEE NOTE 2 & 17
20
15
REF
12.875 REF
SEE DETAIL C
2.625 REF

TOP VIEW WITH COVER REMOVED


.99
1.23
.49
.51
⊚C.02TIR

DETAIL C


30
2
24
SEE NOTE 13
18
SEE NOTES 13 & 16
27
5
1
26
29
A
A
-D-
11.250 REF
B
B


SEE NOTE 15
9 PLACES
81P

PARTIAL VIEW B-B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 AND 34 TO BE 55-60 INCH POUNDS.
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 AND 34 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 OR 30 PER ND 1002219.
8. FIND NO. 7 OR 32 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER.
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 OR 34 PRIOR TO INSTALLATION IN FIND NO. 2 OR 30 RESPECTIVELY.
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO. 5 OR 31 AND FIND NO. 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

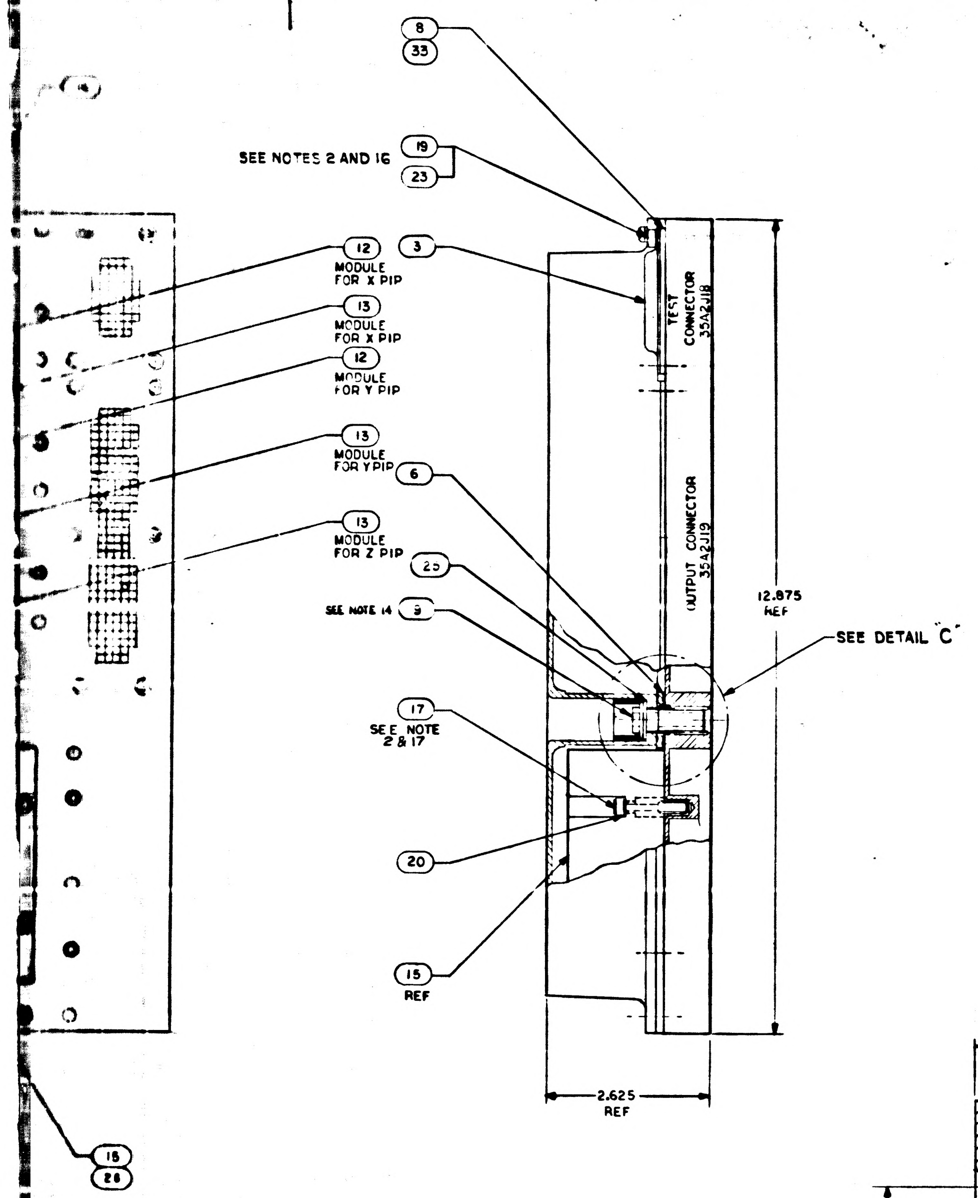
NOTES CONTINUED IN ZONE A4

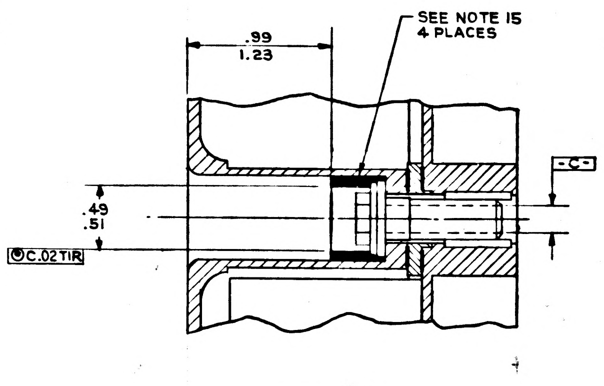
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

6007000 SH 1 OF R

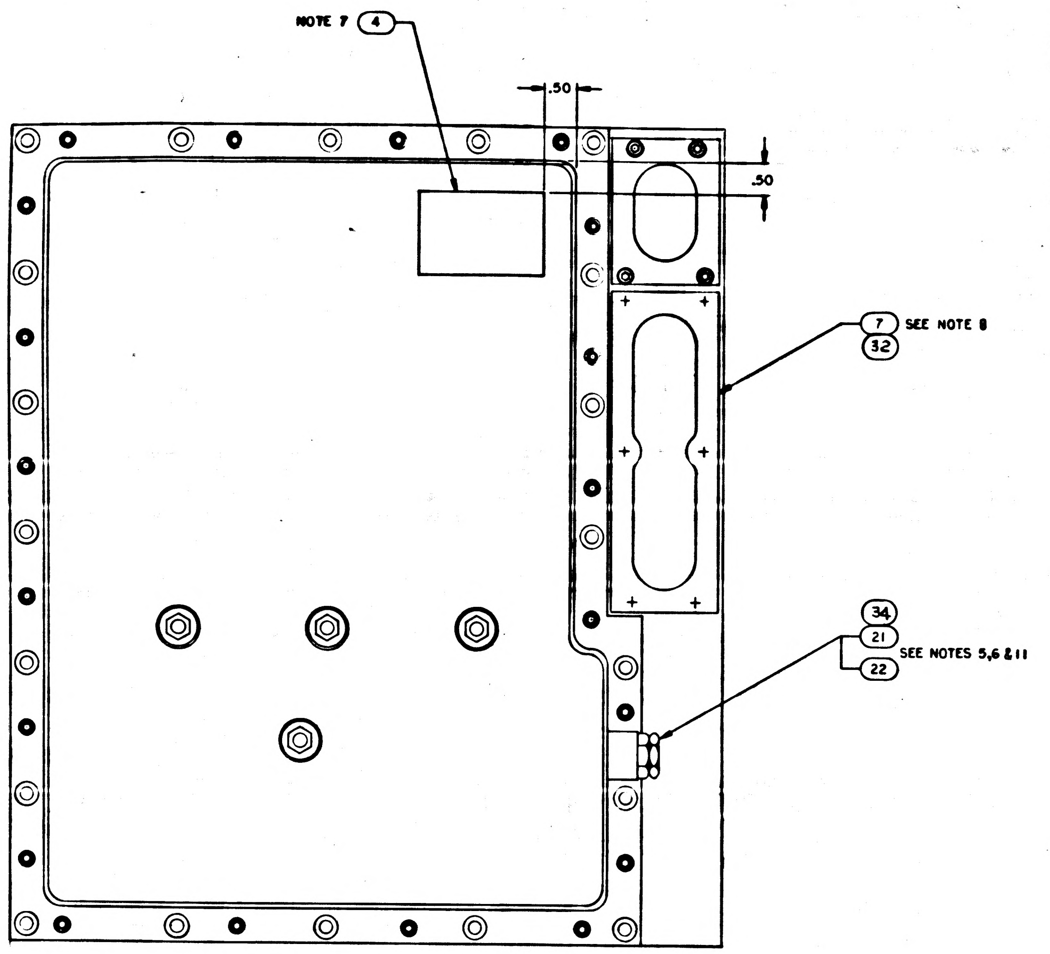
1/6007000

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPD
REVISIONS						
C		REPLACES WORD DWG REV B PER TDRR 22797	SJP		23 Jul 65	WK
D		REVISED PER TDRR 23690	ACM		Nov 65	WK
E		REVISED PER TDRR 24565				WK
F		REVISED PER TDRR 27603	R		5 APR 66	
G		REVISED PER TDRR 28521	J.K.		9 MAY 66	
H		REVISED PER TDRR 28504	JJ	CJP	11 MAY 66	
J		REVISED PER TDRR 29446	JHP	CJP	10 JUN 66	
K		REVISED PER TDRR 29607	JHP	CJP	22 JUN 66	
L		REVISED PER TDRR 29592	R	AU	66	
M		REVISED PER TDRR 31177	JJJ		66	
N		REVISED PER TDRR 33520	RAL	RCP	APR 67	
P		REVISED PER TDRR 33729	A.N		AUG 67	
R		REVISED PER TDRR 34878	LJT		NOV 67	





DETAIL C



VIEW A-A

Ⓒ REPLACES WORD DWG REV B

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.

QTY REQD -051	QTY REQD -041	QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM, DISULFIDE	35
1	1	–	–	–	2018773	VALVE, ASSEMBLY	34
1	1	–	–	–	2010784-003	GASKET, SEALING & PLATE TEST CONN.	33
1	1	–	–	–	2010784-002	GASKET, SEALING PLATE, OUTPUT CONN.	32
1	1	–	–	–	2010784-005	GASKET, RETAINED	31
1	1	–	–	–	6010657	COVER, INSEP. ASSEMBLY	30
1	1	–	–	–	6007102-021	HEADER ASSEMBLY	29
–	1	1	–	–	2007166-011	PULSE TORQUE POWER SUPPLY	28
20	20	–	20	–	1008874-019	SCREW CAP SOCKET HEAD	27
–	–	–	1	–	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	4	2004148-004	WASHER, FLAT	25
20	20	20	20	20	2004148-003	WASHER, FLAT	24
4	4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
–	–	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
–	–	20	–	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	–	–	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	4	4	4	1008835-002	BUSHING, SEAL	9
–	–	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
–	–	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	4	1010975	GASKET, RETAINED	6
–	–	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1	1004260-154	NAMEPLATE	4
1	1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
–	–	1	1	1	6008030	COVER	2
–	–	1	–	1	6007002-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

6007001	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Gary Ball
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER
APPROVED MSC PP7-65-612
DATE

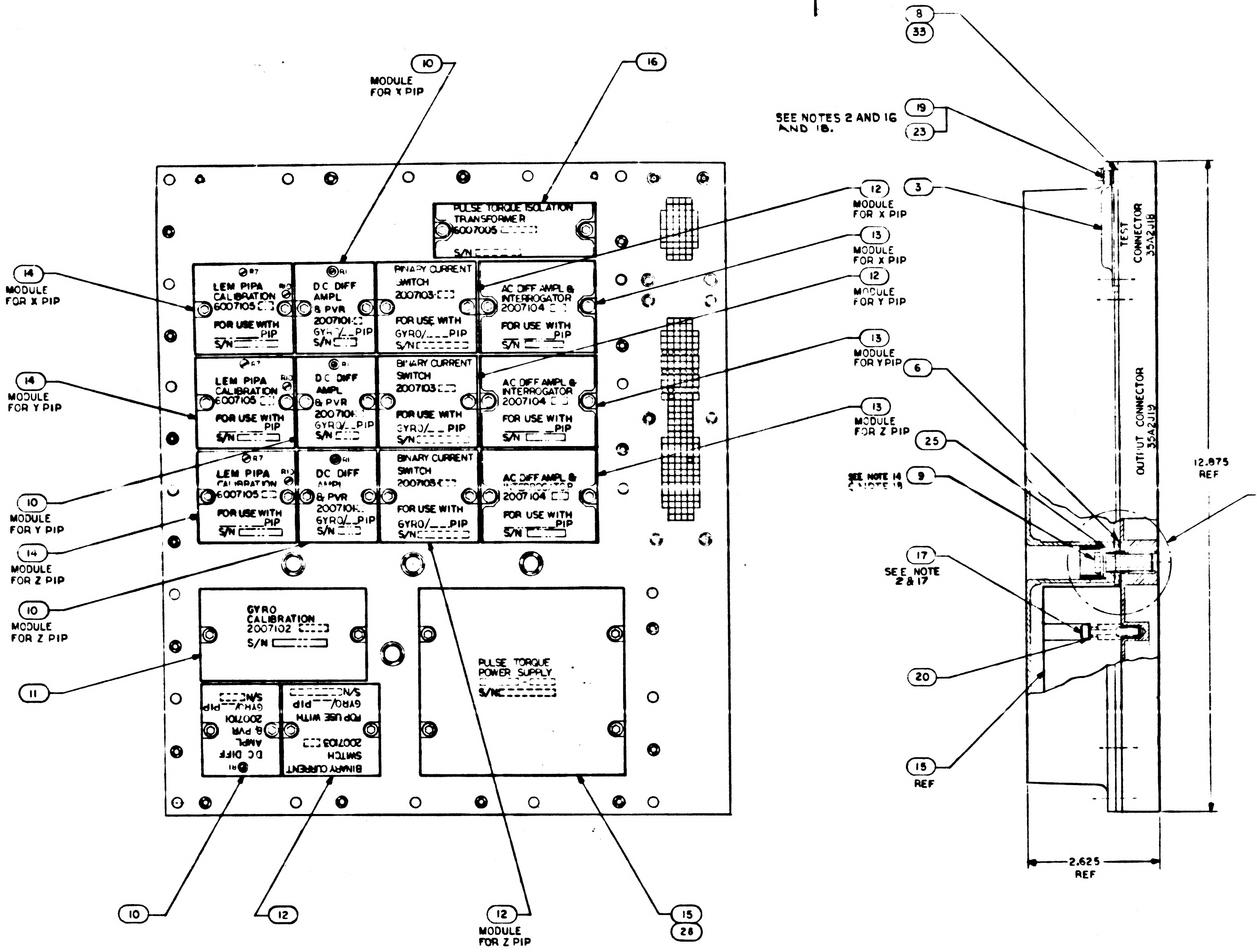
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PULSE TORQUE ASSEMBLY
(LEM)

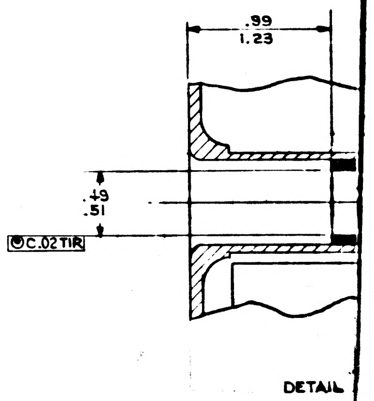
CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
SHEET 1 OF 1

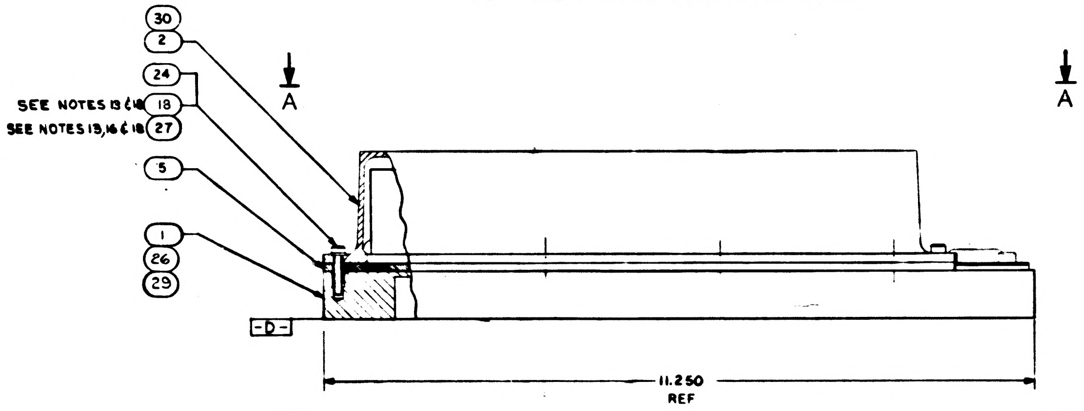
2/6007000

[illegible]


10
MODULE FOR X PIP
16
PULSE TORQUE ISOLATION TRANSFORMER 6007005
S/N
14
MODULE FOR X PIP
14
MODULE FOR Y PIP
10
MODULE FOR Y PIP
14
MODULE FOR Z PIP
10
MODULE FOR Z PIP
11
LEM PIPA CALIBRATION 6007105
FOR USE WITH ___PIP
S/N
R7
R10
DC DIFF AMPL & PVR 2007101
GYRO/__PIP
S/N
R1
BINARY CURRENT SWITCH 2007103
FOR USE WITH GYRO/___PIP
S/N
AC DIFF AMPL & INTERROGATOR 2007104
FOR USE WITH ___PIP
S/N
GYRO CALIBRATION 2007102
S/N
PULSE TORQUE POWER SUPPLY
S/N
12
MODULE FOR X PIP
13
MODULE FOR X PIP
12
MODULE FOR Y PIP
13
MODULE FOR Y PIP
13
MODULE FOR Z PIP
10
12
12
MODULE FOR Z PIP
15
28
8
33
SEE NOTES 2 AND 16 AND 18.
19
23
3
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
6
25
SEE NOTE 14 & NOTE 18
9
12.875 REF
SEE DETAIL C
17
SEE NOTE 2 & 17
20
15
REF
2.625 REF

TOP VIEW WITH COVER REMOVED


.99
1.23
.49
.51
⊚C.02TIR
DETAIL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2
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SEE NOTES 13 & 18
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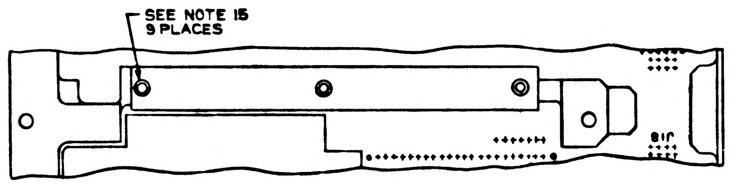
5
1
26
29
A
A
-D-
11.250 REF
B
B


SEE NOTE 15 9 PLACES

PARTIAL VIEW B-B

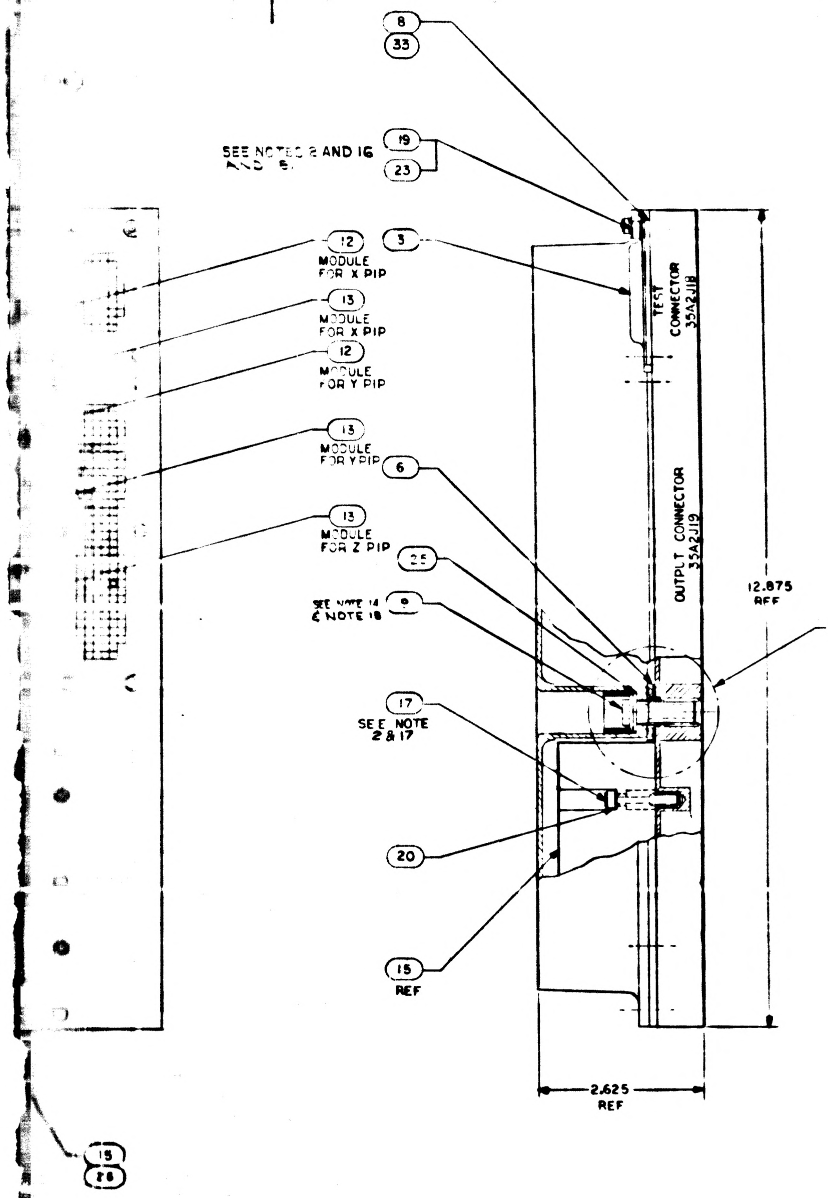
NOTES:

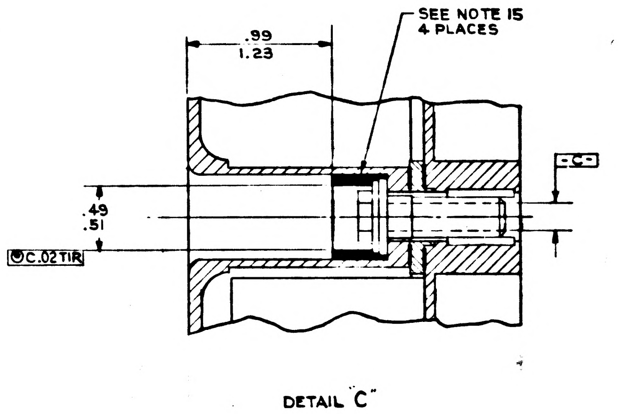
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 17, ~~FIND NO. 18~~ AND FIND NO. 19 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
4. APPLY THIN FILM OF SILICONE GREASE ND1006879 TO THE MOUNTING SURFACES OF FIND NO. 10, 11, 12, 14, 15 AND 28. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
5. MOUNTING TORQUE FOR FIND NO. 21 AND 34 TO BE 55-60 INCH POUNDS.
6. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 21 AND 34 TO BE 22-27 INCH POUNDS
7. BOND FIND NO. 4 TO FIND NO. 2 OR 30 PER ND 1002219.
8. FIND NO. 7 OR 32 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
9. PROCURE PER PS6007001. REF NOTE: VISUALLY INSPECT TO CONFIRM THAT MODULES LOCATED IN EACH CHANNEL DO REFERENCE THE SAME PIP S/N AND ARE ASSEMBLED IN EACH RESPECTIVE CHANNEL ON HEADER.
10. LEAK TEST PER ND1002290 TYPE I
11. APPLY SEALING COMPOUND PER MIL-S-22473 GRADE C TO THREADS OF FIND NO. 21 OF 34 PRIOR TO INSTALLATION IN FIND NO. 2 OR 30 RESPECTIVELY.
12. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD1008855, TO THE RUBBER SEALING SURFACES OF FIND NO. 5 OR 31 AND FIND NO. 6. REMOVE ANY EXCESS GREASE.
13. MOUNTING TORQUE FOR FIND NO. 18 & 27 TO BE 17-19 IN. LBS.
14. MOUNTING TORQUE FOR FIND NO. 9 TO BE 180-200 IN. LBS.

NOTES CONTINUED IN ZONE A4

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.
18. APPLY A UNIFORM THIN FILM OF FIND NO. 36 TO SCREW THREADS OF FIND NOS. 9, 18, AND 27.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPR
C		REPLACES WORD DWG REV B PER TDRR 22797				
D		REVISED PER TDRR 23690	MCN			WK
E		REVISED PER TDRR 24565				
F		REVISED PER TDRR 27803				
G		REVISED PER TDRR 28521	JK			
H		REVISED PER TDRR 28504	JJJ	CHP	66	
J		REVISED PER TDRR 29446	JHP	CHP	10 JUN 66	
K		REVISED PER TDRR 29607	JHP	CHP	22 JUN 66	
L		REVISED PER TDRR 29592		AU	66	
M		REVISED PER TDRR 31177	JJJ		OCT 66	
N		REVISED PER TDRR 33520			APR	
P		REVISED PER TDRR 33729			AUG 67	
R		REVISED PER TDRR 34878	LJT		9 NOV	
S		REVISED PER TDRR 36776	RWX		12 SEP	





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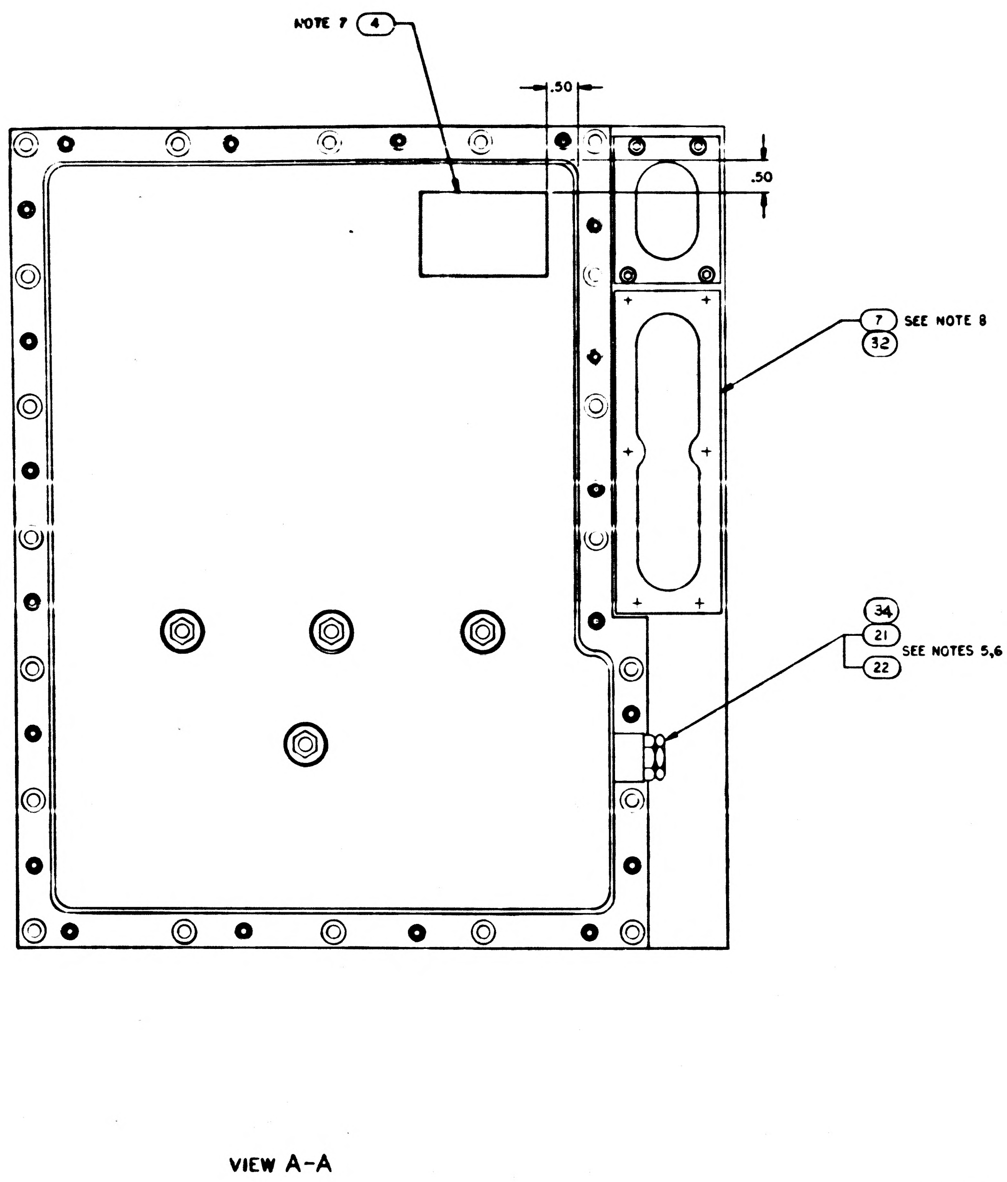

VIEW A-A

Ⓒ REPLACES WORD DWG REV B

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND1002009, TYPE D, TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. SEALANT TO COMPLETELY COVER THE SCREW HEADS, EXTEND 0.18 MAXIMUM RADIALLY BEYOND COUNTERBORE AND MUST BE FLUSH OR BELOW SURFACE D. APPLY SEALANT AS SHOWN FOR DETAIL C. TOP SURFACE OF FIND NO. 9 MUST BE FREE OF SEALANT. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
16. APPLY SEALANT 1006338-003 TO COAT FIND NUMBERS 27, 24, 19 AND 23 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVERS. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 35 TO SCREW THREADS.
18. APPLY A UNIFORM THIN FILM OF FIND NO. 36 TO SCREW THREADS OF FIND NOS. 9, 18, AND 27.

AR	AR	AR	AR	AR	1008985	GREASE, FLUORINATED	36
AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM, DISULFIDE	35
1	1	—	—	—	2018773	VALVE, ASSEMBLY	34
1	1	—	—	—	2010784-003	GASKET, SEALING & PLATE TEST CONN.	33
1	1	—	—	—	2010784-002	GASKET, SEALING PLATE, OUTPUT CONN.	32
1	1	—	—	—	2010784-005	GASKET, RETAINED	31
1	1	—	—	—	6010657	COVER, INSEP. ASSEMBLY	30
1	1	—	—	—	6007102-021	HEADER ASSEMBLY	29
—	1	1	—	—	2007166-011	PULSE TORQUE POWER SUPPLY	28
20	20	—	20	—	1008874-019	SCREW CAP SOCKET HEAD	27
—	—	—	1	—	6007102-011	HEADER ASSEMBLY	26
4	4	4	4	4	2004148-004	WASHER, FLAT	25
20	20	20	20	20	2004148-003	WASHER, FLAT	24
4	4	4	4	4	1004546-3	WASHER, FLAT	23
1	1	1	1	1	1000159-5	PACKING, PREFORMED, "O" RING	22
—	—	1	1	1	2007213-011	VALVE ASSEMBLY	21
36	36	36	36	36	2008033-1	WASHER, FLAT	20
4	4	4	4	4	NAS1352-08-8	SCREW, CAP, SOCKET HEAD	19
—	—	20	—	20	NAS1352-06-8	SCREW, CAP, SOCKET HEAD	18
36	36	36	36	36	1010977-001	SCREW, CAPTIVE	17
1	1	1	1	1	6007005-011	PULSE TORQUE ISOLATION TRANSFORMER	16
1	—	—	1	1	2007106-011	PULSE TORQUE POWER SUPPLY	15
3	3	3	3	3	6007105-011	LEM PIPA CALIBRATION	14
3	3	3	3	3	2007104-011	A C DIFF AMPL & INTERROGATOR	13
4	4	4	4	4	2007103-011	BINARY CURRENT SWITCH	12
1	1	1	1	1	2007102-011	GYRO CALIBRATION	11
4	4	4	4	4	2007101-011	DC DIFF AMPL & PVR	10
4	4	4	4	4	1008835-002	BUSHING, SEAL	9
—	—	1	1	1	1010962-001	GASKET, SEALING PLATE, TEST CONN	8
—	—	1	1	1	1010961-001	GASKET, SEALING PLATE, OUTPUT CONN	7
4	4	4	4	4	1010975	GASKET, RETAINED	6
—	—	1	1	1	1010973	GASKET, RETAINED	5
1	1	1	1	1	1004260-154	NAMEPLATE	4
1	1	1	1	1	6008010	COVER, JUNCTION TEST CONN	3
—	—	1	1	1	6008030	COVER	2
—	—	1	—	1	6007002-011	HEADER ASSEMBLY	1
QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
-051	-041	-031	-021	-011			

LIST OF MATERIALS

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PULSE TORQUE ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007000
SCALE 1/1
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6007000

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007103-011	BINARY CURRENT SWITCH	4
2007101-011	DC DIFFERENTIAL AMPLIFIER & PVR	4
2007104-011	AC DIFFERENTIAL AMPLIFIER & INTERROGATOR	3
2007102-011	PULSE TORQUE GYRO CALIBRATION	1
2007106-011	PULSE TORQUE POWER SUPPLY	1
~~[illegible] ONLY.~~		
6007105-011	PIPA CALIBRATION ~~([illegible])~~	3
	MODULE TOTAL	16

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

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PULSE TORQUE ASSEMBLY

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A | 6007001

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10SEP 65	JWP

QUANTITY REQUIRED				EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		021	011					
		1	-			2018601-021	INERTIAL MEASUREMENT UNIT	
		1	1			6007000-011	PULSE TORQUE ASSY	
		-	1			2018601-011	INERTIAL MEASUREMENT UNIT	

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CODE IDENT NO.	SIZE	NASA DRAWING NO.
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REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21151	10 SEP 65	JWP EF
B	REVISED PER TDRR 26609		WK

		1	–			2018601-041	INERTIAL MEASUREMENT UNIT	
		1	1			6007000-011	PULSE TORQUE ASSY	
		–	1			2018601-031	INERTIAL MEASUREMENT UNIT	
		021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
QUANTITY REQUIRED					LIST OF MATERIALS			

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REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
Ⓜ B	REVISED PER TDRR 26609	24 FEB 66	WK
C	REVISED PER TDRR 27503	15 APR 66	

QUANTITY REQUIRED				EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		1	-			6007000-021	PULSE TORQUE ASSY	
		1	-			2018601-041	INERTIAL MEASUREMENT UNIT	
		-	1			6007000-011	PULSE TORQUE ASSY	
		-	1			2018601-031	INERTIAL MEASUREMENT UNIT	
		021	011					

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SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
Ⓜ B	REVISED PER TDRR 26609	2 FEB 66	WK
C	REVISED PER TDRR 27503	15 APR 66	
D	REVISED PER TDRR 27833	18 APR 66	R.W.T. JAC

LIST OF MATERIALS

041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	–	–	–			2018601-051	INERTIAL MEASUREMENT UNIT	6
–	1	–	–			2018601-031	INERTIAL MEASUREMENT UNIT	5
1	–	1	–			6007000-021	PULSE TORQUE ASSY	4
–	–	1	–			2018601-041	INERTIAL MEASUREMENT UNIT	3
–	1	–	1			6007000-011	PULSE TORQUE ASSY	2
–	–	–	1			2018601-031	INERTIAL MEASUREMENT UNIT	1

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REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
Ⓜ B•	REVISED PER TDRR 26607	[illegible]	WH
C	REVISED PER TDRR 27503	15 APR 66	
Ⓜ D	REVISED PER TDRR 27833	18 APR 66	R.W.T. AC
E	REVISED PER TDRR 29590	22-JUN 66	

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041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	–	–	–			2018601-051	INERTIAL MEASUREMENT UNIT	6
–	1	–	–			2018601-031	INERTIAL MEASUREMENT UNIT	5
1	–	1	–			6007000-021	PULSE TORQUE ASSY	4
–	–	1	–			2018601-041	INERTIAL MEASUREMENT UNIT	3
–	1	–	1			6007000-011	PULSE TORQUE ASSY	2
–	–	–	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

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A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
(M) B	REVISED PER TDRR 26607	[illegible]	WK
C	REVISED PER TDRR 27503	15 APR 66	TK
(M) D	REVISED PER TDRR 27833	18 APR 66	R.W.T. AC
E	REVISED PER TDRR 29590	22-JUN 66	[illegible]
F	REVISED PER TDRR 29606	27 JUN 66	TK / EF

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051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	—	—	—			6007000-041	PULSE TORQUE ASSEMBLY	7
1	1	—	—	—			2018601-051	INERTIAL MEASUREMENT UNIT	6
—	—	1	—	—			2018601-031	INERTIAL MEASUREMENT UNIT	5
—	1	—	1	—			6007000-021	PULSE TORQUE ASSY	4
—	—	—	1	—			2018601-041	INERTIAL MEASUREMENT UNIT	3
—	—	1	—	1			6007000-011	PULSE TORQUE ASSY	2
—	—	—	—	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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DWG. NO. CONTRACT

DRAWN [illegible] DATE 1/5/65
CHECKED
APPROVAL
APPROVAL [illegible] 1/12/65
NASA APPROVAL [illegible] 1-13-65
MIT APPROVAL [illegible] 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO. 80230
SIZE C
NASA DRAWING NO. 6007001
SCALE
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007001 G

REVISIONS 15484

	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 63	JWP EF
Ⓜ	B•	REVISED PER TDRR 26609	24 FEB 66	WK
	C	REVISED PER TDRR 27503	15 APR 66	
Ⓜ	D	REVISED PER TDRR 27833	18 APR 66	R.W.T. JAC
	E	REVISED PER TDRR 29590	22-JUN 66	
Ⓜ	F	REVISED PER TDRR 29606	27 JUN 66	EF
	G	REVISED PER TDRR 31178	29 SEP 66	DBW

6007001

061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	—	—	—	—			6007000-051	PULSE TORQUE ASSEMBLY	8
—	1	—	—	—	—			6007000-041	PULSE TORQUE ASSEMBLY	7
1	1	1	—	—	—			2018601-051	INERTIAL MEASUREMENT UNIT.	6
—	—	—	1	—	—			2018601-031	INERTIAL MEASUREMENT UNIT	5
—	—	1	—	1	—			6007000-021	PULSE TORQUE ASSY	4
—	—	—	—	1	—			2018601-041	INERTIAL MEASUREMENT UNIT	3
—	—	—	1	—	1			6007000-011	PULSE TORQUE ASSY	2
—	—	—	—	—	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

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DWG. NO. CONTRACT
DRAWN Karen DATE 1/5/65
CHECKED
APPROVAL
APPROVAL 1/12/65
NASA APPROVAL W J Rh 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO. 80230
SIZE C
NASA DRAWING NO. 6007001
SCALE
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

H 6007001

REVISIONS 15484

	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
Ⓜ	B	REVISED PER TDRR 26607	[illegible]	WK
	C	REVISED PER TDRR 27503	15 APR 66	
Ⓜ	D	REVISED PER TDRR 27833	18 APR 66	R.W.T. JAC
	E	REVISED PER TDRR 29590	22-JUN 66	
Ⓜ	F	REVISED PER TDRR 29606	27 JUN 66	EF
Ⓜ	G	REVISED PER TDRR 31178	29 SEP 66	DBW
	H	REVISED PER TDRR 33328	3 APRIL 67	JRR

6007001

071	061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	-	-	-	-	-	-			2018601-071	INERTIAL MEASUREMENT UNIT	9
-	1	-	-	-	-	-			6007000-051	PULSE TORQUE ASSEMBLY	8
1	-	1	-	-	-	-			6007000-041	PULSE TORQUE ASSEMBLY	7
-	1	1	1	-	-	-			2018601-051	INERTIAL MEASUREMENT UNIT	6
-	-	-	-	1	-	-			2018601-031	INERTIAL MEASUREMENT UNIT	5
-	-	-	1	-	1	-			6007000-021	PULSE TORQUE ASSY	4
-	-	-	-	-	1	-			2018601-041	INERTIAL MEASUREMENT UNIT	3
-	-	-	-	1	-	1			6007000-011	PULSE TORQUE ASSY	2
-	-	-	-	-	-	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

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DRAWN Bazeau DATE 1/5/65
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APPROVAL
APPROVAL 1/12/65
NASA APPROVAL W J R 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.		
80230	C	6007001		
SCALE	WT		SHEET	OF 1

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J 6007001

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
Ⓜ B'	REVISED PER TDRR 26607	24FEB66	WK
C	REVISED PER TDRR 27523	15 APR 66	
Ⓜ D	REVISED PER TDRR 27833	18 APR 66	R.W.T. AC
E	REVISED PER TDRR 29590	22-JUN 66	
Ⓜ F	REVISED PER TDRR 29606	27 JUN 66	EF
Ⓜ G	REVISED PER TDRR 31178	29 SEP 66	DBW
Ⓜ H	REVISED PER TDRR 33328	3 APRIL 67	JRK
J	REVISED PER TDRR 34728	3 OCT 67	JRK RWH

081	071	061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	-	-	-	-	-	-	-			2018601-111	INERTIAL MEASUREMENT UNIT	10
-	1	-	-	-	-	-	-			2018601-071	INERTIAL MEASUREMENT UNIT	9
-	-	1	—	—	—	—	—			6007000-051	PULSE TORQUE ASSEMBLY	8
1	1	—	1	—	—	—	—			6007000-041	PULSE TORQUE ASSEMBLY	7
-	-	1	1	1	-	-	-			2018601-051	INERTIAL MEASUREMENT UNIT.	6
-	-	—	-	-	1	-	-			2018601-031	INERTIAL MEASUREMENT UNIT	5
-	-	—	—	1	-	1	-			6007000-021	PULSE TORQUE ASSY	4
-	-	—	—	-	-	1	-			2018601-041	INERTIAL MEASUREMENT UNIT	3
-	-	—	—	-	1	-	1			6007000-011	PULSE TORQUE ASSY	2
-	-	—	—	-	—	-	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

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DWG. NO. CONTRACT
DRAWN Karcov DATE 1/5/65
CHECKED
APPROVAL
APPROVAL D. G. Hoag 1/12/65
NASA APPROVAL W J Rhine 1-13-65
MIT APPROVAL W Kupfer 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO. 80230
SIZE C
NASA DRAWING NO. 6007001
SCALE
WT
SHEET OF 1

6007001

NOTICE — WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007001 K

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDRR 21191	10 SEP 65	JWP EF
(M) B•	REVISED PER TDRR 26607	[illegible]	WR
C	REVISED PER TDRR 27503	15 APR 66	[illegible]
(M) D	REVISED PER TDRR 27833	18 APR 66	R.W.T. AC
E	REVISED PER TDRR 29590	22-JUN 66	[illegible]
(M) F	REVISED PER TDRR 29606	27 JUN 66	EF
(M) G	REVISED PER TDRR 31178	29 SEP 66	[illegible]
(M) H	REVISED PER TDRR 33328	3 APRIL 67	JRK
(M) J	REVISED PER TDRR 34728	3 OCT 67	JRK RWH
K	REVISED PER TDRR 35729	28 FEB 68	JJJ

6007001

091	081	071	061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	–	–	–	–	–	–	–	–			2018601-151	INERTIAL MEASUREMEN UNIT	11
–	1	–	–	–	–	–	–	–			2018601-111	INERTIAL MEASUREMENT UNIT	10
–	–	1	–	–	–	–	–	–			2018601-071	INERTIAL MEASUREMENT UNIT	9
–	–	–	1	–	–	–	–	–			6007000-051	PULSE TORQUE ASSEMBLY	8
1	1	1	–	1	–	–	–	–			6007000-041	PULSE TORQUE ASSEMBLY	7
–	–	–	1	1	1	–	–	–			2018601-051	INERTIAL MEASUREMENT UNIT.	6
–	–	–	–	–	–	1	–	–			2018601-031	INERTIAL MEASUREMENT UNIT	5
–	–	–	–	–	1	–	1	–			6007000-021	PULSE TORQUE ASSY	4
–	–	–	–	–	–	–	1	–			2018601-041	INERTIAL MEASUREMENT UNIT	3
–	–	–	–	–	–	1	–	1			6007000-011	PULSE TORQUE ASSY	2
–	–	–	–	–	–	–	–	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

LIST OF MATERIALS

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APPLICATION

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APPROVAL 1/12/65
NASA APPROVAL 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	C	6007001

SCALE
WT
SHEET 1 OF 1

4 3 2 1

NOTICE — WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

7 | 6007001

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDCC 21191	10 SEP 65	JWP. EF
Ⓜ B•	REVISED PER TDRR 26607	[illegible]	[illegible]
C	REVISED PER TDRR 27503	15 APR 66	
Ⓝ D	REVISED PER TDRR 27833	18 APR 66	RWT.
E	REVISED PER TDRR 29590	22-JUN 66	
Ⓜ F	REVISED PER TDRR 29606	27 JUN 66	EF
Ⓝ G	REVISED PER TDRR 31178	29 SEP 66	
Ⓜ H	REVISED PER TDRR 33328	3 APRIL 67	JRK
Ⓝ J	REVISED PER TDRR 34728	3 OCT 67	JRK RWH
K	REVISED PER TDRR 35729	28 FEB 68	JJJ
L	REVISED PER TDRR 35740	1 MAR 68	JRK

111	101	091	081	071	061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
QUANTITY REQUIRED															
1	–	–	–	–	–	–	–	–	–	–			2018601-211	INERTIAL MEASURING UNIT	13
–	1	–	–	–	–	–	–	–	–	–			2018601-191	INERTIAL MEASURING UNIT	12
–	–	1	–	–	–	–	–	–	–	–			2018601-151	INERTIAL MEASUREMEN UNIT	11
–	–	–	1	–	–	–	–	–	–	–			2018601-111	INERTIAL MEASUREMENT UNIT	10
–	–	–	–	1	–	–	–	–	–	–			2018601-071	INERTIAL MEASUREMENT UNIT	9
–	–	–	–	–	1	–	–	–	–	–			6007000-051	PULSE TORQUE ASSEMBLY	8
1	1	1	1	1	–	1	–	–	–	–			6007000-041	PULSE TORQUE ASSEMBLY	7
–	–	–	–	–	1	1	1	–	–	–			2018601-051	INERTIAL MEASUREMENT UNIT	6
–	–	–	–	–	–	–	–	1	–	–			2018601-031	INERTIAL MEASUREMENT UNIT	5
–	–	–	–	–	–	–	1	–	1	–			6007000-021	PULSE TORQUE ASSY	4
–	–	–	–	–	–	–	–	–	1	–			2018601-041	INERTIAL MEASUREMENT UNIT	3
–	–	–	–	–	–	–	–	1	–	1			6007000-011	PULSE TORQUE ASSY	2
–	–	–	–	–	–	–	–	–	–	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

LIST OF MATERIALS

6007001

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DWG NO CONTRACT

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APPROVAL
APPROVAL 1/12/65
NASA APPROVAL WGRh 1-13-65
MIT APPROVAL 13/1/65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	C	6007001

SCALE WT SHEET 1 OF 1

4 3 2 1

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6007001 M

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER CM 204322 IN ACCORDANCE WITH TDCC 21191	10 SEP 65	JWP EF
Ⓜ B	REVISED PER TDRR 26609		WK
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Ⓜ G	REVISED PER TDRR 31178	29 SEP 66	
Ⓜ H	REVISED PER TDRR 33328	3 APRIL 67	JRK
Ⓜ J	REVISED PER TDRR 34728	3 OCT 67	JRK RWH
K	REVISED PER TDRR 35729	28 FEB 68	JJJ
L	REVISED PER TDRR 35740	1 MAR 68	JRK
M	REVISED PER TDRR 35747	5 MAR 68	DL JAC

LIST OF MATERIALS

121	111	101	091	081	071	061	051	041	031	021	011	EFFECTIVITY	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	—	—	—	—	—	—	—	—	—	—			2018601-221	INERTIAL MEASURING UNIT	14
—	1	—	—	—	—	—	—	—	—	—	—			2018601-211	INERTIAL MEASURING UNIT	13
—	—	1	—	—	—	—	—	—	—	—	—			2018601-191	INERTIAL MEASURING UNIT	12
—	—	—	1	—	—	—	—	—	—	—	—			2018601-151	INERTIAL MEASUREMEN UNIT	11
—	—	—	—	1	—	—	—	—	—	—	—			2018601-111	INERTIAL MEASUREMENT UNIT	10
—	—	—	—	—	1	—	—	—	—	—	—			2018601-071	INERTIAL MEASUREMENT UNIT	9
—	—	—	—	—	—	1	—	—	—	—	—			6007000-051	PULSE TORQUE ASSEMBLY	8
1	1	1	1	1	1	—	1	—	—	—	—			6007000-041	PULSE TORQUE ASSEMBLY	7
—	—	—	—	—	—	1	1	1	—	—	—			2018601-051	INERTIAL MEASUREMENT UNIT	6
—	—	—	—	—	—	—	—	—	1	—	—			2018601-031	INERTIAL MEASUREMENT UNIT	5
—	—	—	—	—	—	—	—	1	—	1	—			6007000-021	PULSE TORQUE ASSY	4
—	—	—	—	—	—	—	—	—	—	1	—			2018601-041	INERTIAL MEASUREMENT UNIT	3
—	—	—	—	—	—	—	—	—	1	—	1			6007000-011	PULSE TORQUE ASSY	2
—	—	—	—	—	—	—	—	—	—	—	1			2018601-011	INERTIAL MEASUREMENT UNIT	1

QUANTITY REQUIRED

6007001

NEXT ASSY	USED ON
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DWG. NO. CONTRACT
DRAWN 80230 DATE 1/5/65
CHECKED
APPROVAL
APPROVAL 1/12/65
NASA APPROVAL 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO. 80230
SIZE C
NASA DRAWING NO. 6007001
SCALE
WT
SHEET 1 OF 1

6007001

REVISIONS 1548

SYM	DESCRIPTION	DATE	APPROVAL

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

		ASS'Y DASH NO.
		-011
PART NO.	ITEM	QTY.
2018601-011	INERTIAL MEASUREMENT UNIT	1
6007000-011	PULSE TORQUE ASSEMBLY	1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

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DRAWN Karen DATE 1/5/65
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APPROVAL
APPROVAL D. G. Hoag 1/12/65
NASA APPROVAL W J Rhine 1-13-65
MIT APPROVAL 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INERTIAL MEASUREMENT UNIT
AND
PULSE TORQUE ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.	
	C	6007001	
SCALE	WT		SHEET OF

MASTER

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 17177

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A	–	REVISED PER TDRR 19790		cap	4 JUN 65	

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	565
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	565
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-4	UNSHIELD SGL. #28	100'
1010807-5	UNSHIELD SGL. #24	50'
1010807-6	UNSHIELD PR. #28	8'
1010707-2	SHIELD TRPL. #29	6'
6008001	HEADER, PTA (INSEPARABLE)	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

		DATE
DRAWN		
CHECKED		
APPROVED		
APPROVED	D. R. Test	3/8/65
APPROVED MIT	W. Kupfer	9 Mar 65
APPROVED MSC	W. J. Rhine	3-9-65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
PTA (LEM)

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007002

SCALE

SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 17177

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 19790		CAP	4 JUN 65	
B		REVISED PER CM 201218 TDRR 22804	RTP	MEM	25 JUN 65	
C		REVISED PER CM 201522 TDRR 22804	JCD	MEM	30 JUN 65	
D		REVISED PER CM 202478 TDRR 22804	CMK	RWH	7 Jul 65	
E		REVISED PER CM 203064 TDRR 22804	RLP	RWH	19 Jul 65	
F		REPLACED BY CONFIGURATION DWG REV G PER TDRR 22805			9/28/65	WK.

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	587
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	587
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-4	UNSHIELD SGL. #28	100'
1010807-5	UNSHIELD SGL. #24	50'
1010807-6	UNSHIELD PR. #28	8'
1010707-15	SHIELD TRPL. #29	6'
6008001	HEADER, PTA (INSEPARABLE)	1
1010620-7	PIN, GUIDE	34
1006712-3	THERMISTOR	1
1012507-2	LACING TAPE	AR
MS-16555-27	PIN, STRAIGHT, HEADLESS (DOWEL)	4
MS-16555-617	PIN, STRAIGHT, HEADLESS (DOWEL)	2

Ⓕ REPLACED BY CONFIGURATION
DWG REV G

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 3/8/65
APPROVED MIT 9 Mar 65
APPROVED MSC 3-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

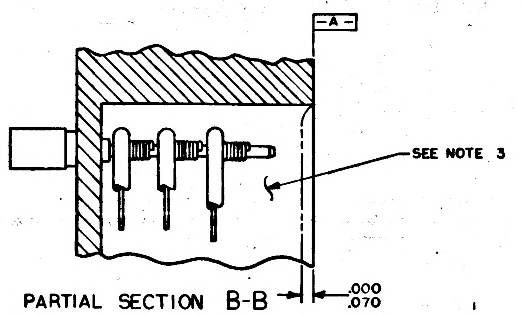
HEADER ASSEMBLY
PTA (LEM)

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007002

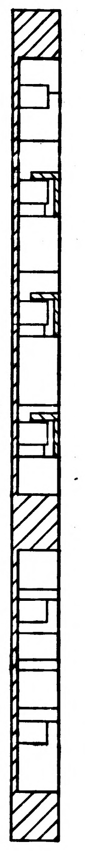
SCALE
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

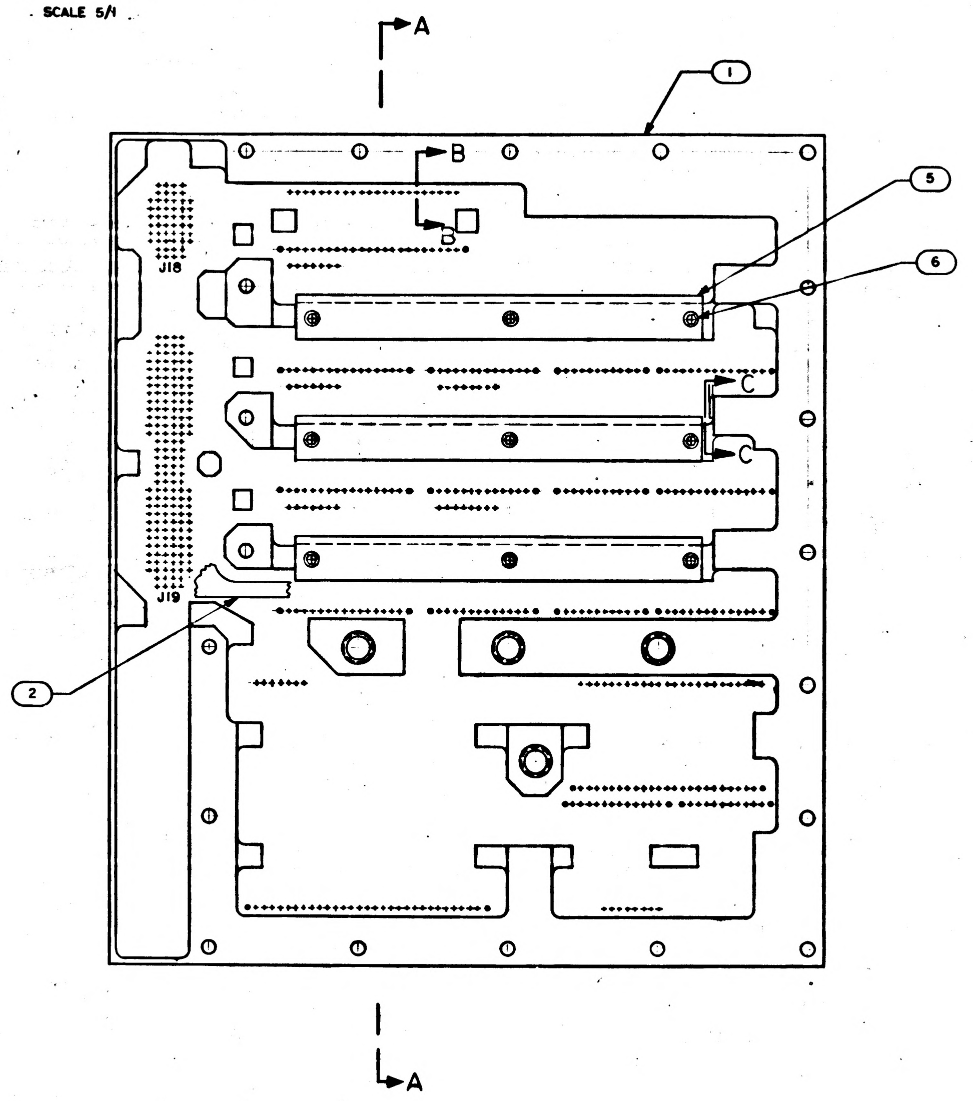
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
G		REPLACES WORD DWG REV F PER TDRR 22805			1965	WK

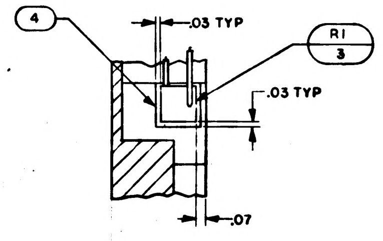


PARTIAL SECTION B-B
SCALE 5/1



SECTION A-A





PARTIAL SECTION C-C
SCALE 2/1

Ⓖ REPLACES WORD DWG
REV F

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SOLDER LEADS OF FIND NO. 3 FROM APPLICABLE CHART PER ND1002071
3. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT
4. ASSEMBLE LEAD SET TO FIND NO. 1
5. SPOT TIE LEAD SET PER ND1002032
6. IDENTIFY WITH PART NO. PER ND1002019
7. PROCURE PER PS6007002
8. BOND FIND NO. 3 TO FIND NO. 1. APPLY A THIN COAT OF ADHESIVE PER ND1002187 OVER FIND NO. 3 AND THE ADJACENT AREA. BOND FIND NO. 3 TO FIND NO. 4 PER ND1002004, TYPE I

FROM	TO
R1-1	J19-A22
R1-2	J19-B22

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
9	NAS 1352-08-6	SCREW, CAP, SOCKET HEAD	6
3	6008032	ANGLE SUPPORT	5
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	4
1	1008833	RESISTOR, TEMP SENSITIVE, WAFER	3
1	6014524	LEAD SET AA ELECTRICAL	2
1	6007007-011	HEADER SUBASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Edw. J. Grow 7 July 65
CHECKED
APPROVED
APPROVED A. B. Fist
APPROVED MIT W. Taylor
MSC NOT REQUIRED PER LETTER 65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PTA HEADER ASSEMBLY

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007002
SCALE 1/1
SHEET 1 OF 1

MASTER

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
		REVISIONS 17177				

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	565
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	565
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-4	UNSHIELD SGL. #28	100'
1010807-5	UNSHIELD SGL. #24	50'
1010807-6	UNSHIELD PR. #28	8'
1010707-2	SHIELD TRPL. #29	6'

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 3/8/65
APPROVED MIT 9/4/65
APPROVED MSC 3-8-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
PTA (LEM)

CODE IDENT NO.
SIZE C
DRAWING NO. 6007002
SCALE
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 17175

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 19791		CAD	4 JUN 65	

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	455
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	455
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-3	SHIELD PR. #24	60'
1010807-4	UNSHIELD SGL. #28	200'
1010807-5	UNSHIELD SGL. #24	100'
1010807-6	UNSHIELD PR. #28	15'
1010807-7	UNSHIELD PR. #24	10'
1010807-8	UNSHIELD TRPL. #28	6'
1010807-10	UNSHIELD QUAD #28	6'
1010807-13	SHIELD TRPL. #24	20'
6008000	HEADER, PSA LEM (INSEPARABLE)	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 3/8/65
APPROVED MIT 9 Mar 65
APPROVED MSC 3-5-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
PSA (LEM)

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007003

SCALE
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 17175

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 19791		CAD	4 JUN 65	
B		REPLACED BY CONFIGURATION DWG REV C PER TDRR 22999			10/19/65	

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	455
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	455
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-3	SHIELD PR. #24	60'
1010807-4	UNSHIELD SGL. #28	200'
1010807-5	UNSHIELD SGL. #24	100'
1010807-6	UNSHIELD PR. #28	15'
1010807-7	UNSHIELD PR. #24	10'
1010807-8	UNSHIELD TRPL. #28	6'
1010807-10	UNSHIELD QUAD #28	6'
1010807-13	SHIELD TRPL. #24	20'
6008000	HEADER, PSA LEM (INSEPARABLE)	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

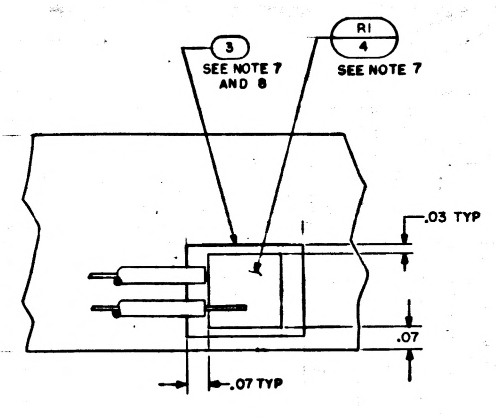
DRAWN
CHECKED
APPROVED
APPROVED D. Ritert 3/5/65
APPROVED MIT 3/10/65
APPROVED MSC 3-5-65
DATE

HEADER ASSEMBLY
PSA (LEM)

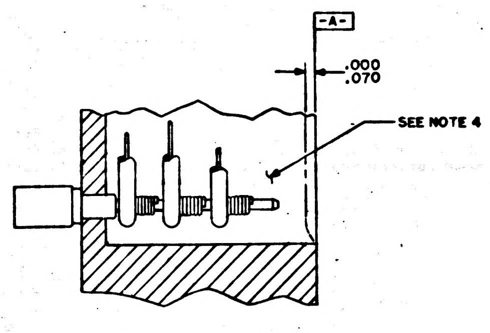
CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6007003
SCALE
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

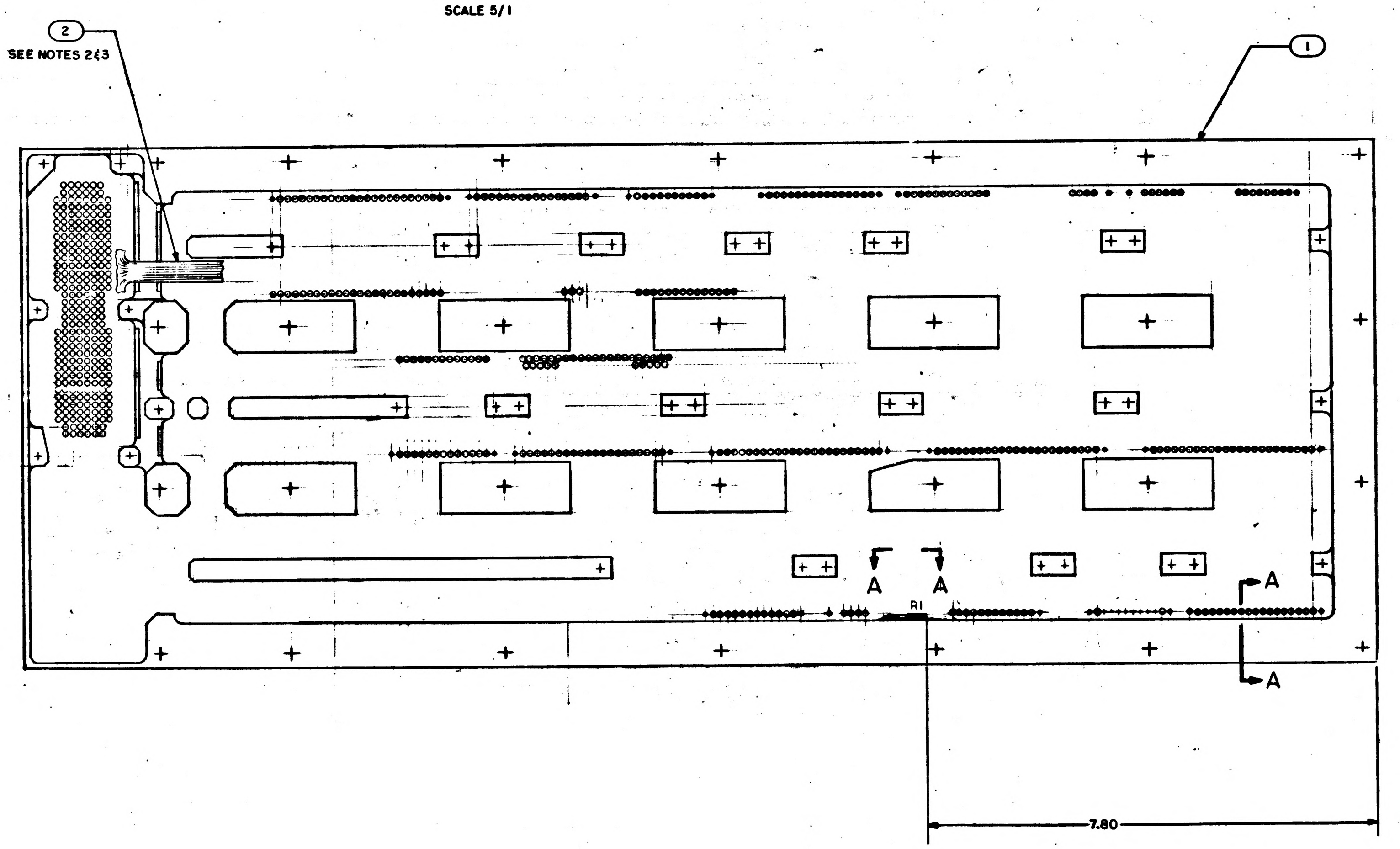
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR ~~2-2~~ 799			9/25/65	



VIEW A-A
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2, TO FIND NO. 1
3. SPOT TIE LEAD SET FIND NO. 2, PER ND1002032
4. ENCAPSULATE PER ND1002236, SURFACES IN PLANE $\boxed{-A-}$ SHALL BE FREE OF ENCAPSULANT
5. IDENTIFY WITH PART NO. PER ND1002019
6. PROCURE PER PS6007003
7. BOND FIND NO.3 TO FIND NO.1, APPLY A THIN COAT OF ADHESIVE PER ND1002187 OVER FIND NO.3 AND THE ADJACENT AREA. BOND FIND NO.4 TO FIND NO.5 PER ND1002004, TYPE I
8. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

MASTER

Ⓒ REPLACES WORD DWG REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	6014523	LEAD SET	2
1	6007006-011	HEADER SUB-ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN W. Horgan
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER ~~ANASA~~ MSC-PP7-65-612
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

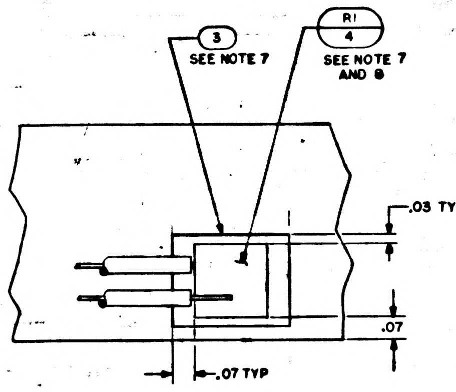
HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007003
SCALE 1/1
SHEET 1 OF 1

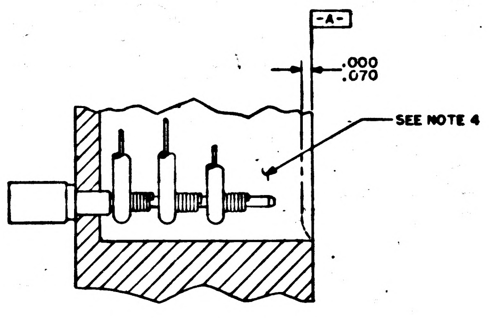
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

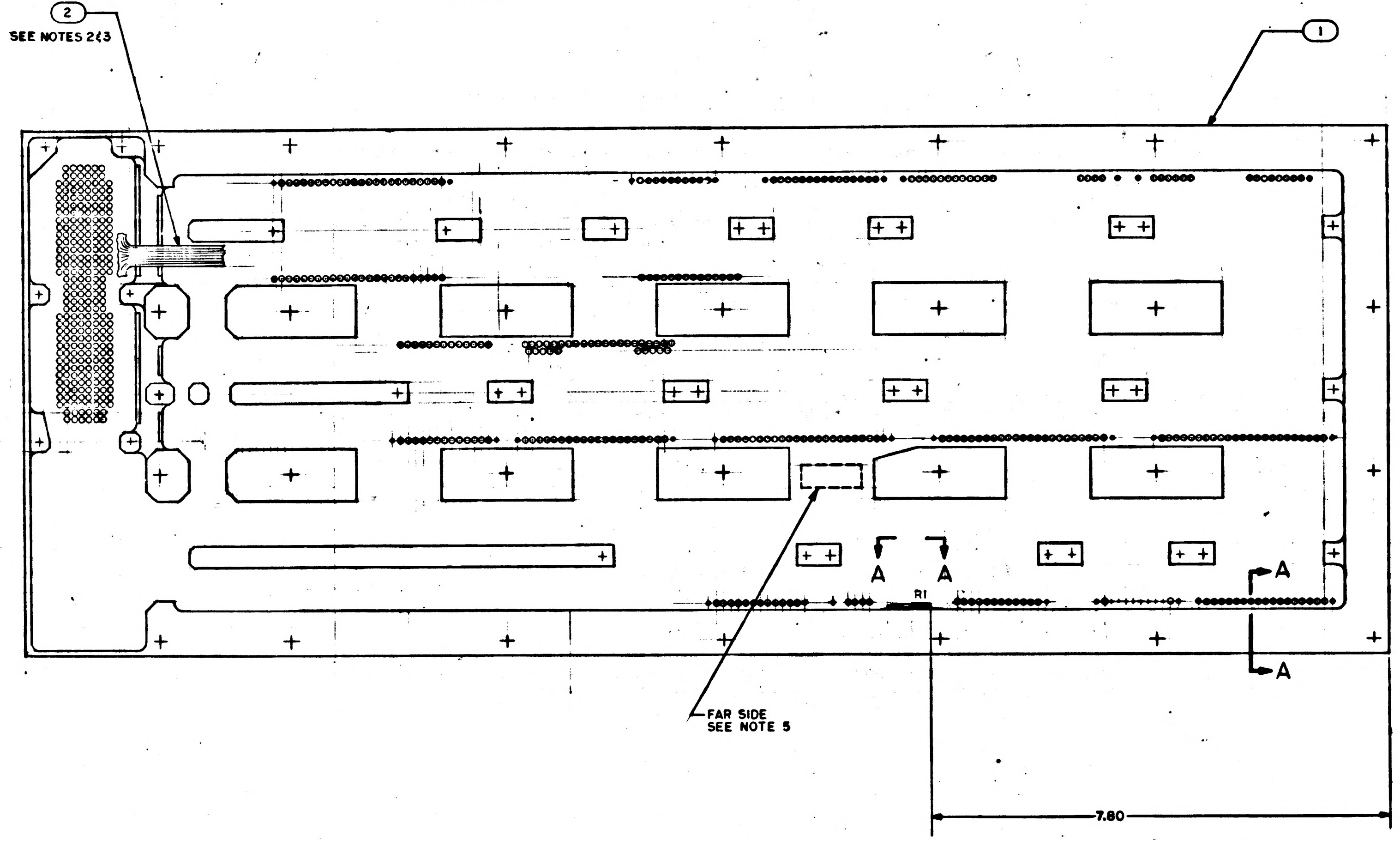
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 22799			4/28/65	
Ⓜ D		REVISED PER TDRR 23753	KCH		5/4/65	



VIEW A-A
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2, TO FIND NO. 1
3. SPOT TIE LEAD SET FIND NO. 2, PER ND1002032
4. ENCAPSULATE PER ND1002236. SURFACES IN PLANE $\boxed{-A-}$ SHALL BE FREE OF ENCAPSULANT
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
6. PROCURE PER PS6007003
7. BOND FIND NO.3 TO FIND NO.1, APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I OVER FIND NO.3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
8. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

Ⓒ REPLACES WORD DWG REV B

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	6014523	LEAD SET	2
1	6007006-011	HEADER SUB-ASSEMBLY	1
-011		LIST OF MATERIALS	

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — XX±.02 ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN W. Hazard
CHECKED R.L. Kongalung 28Sep65
APPROVED
APPROVED D.A. Foot 9/27/65
APPROVED MIT W. Kupfer 29 Sept 65
APPROVED MSC NOT REQUIRED PER LETTER ~~A~~ 7-65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007003
SCALE 1/1
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 17175

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

PART NO.	DESCRIPTION	-011 QTY
1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	455
1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	455
1010807	WIRE SOLID, COPPER ALLOY, SILVER PLATE	
1010807-2	SHIELD PR. #28	40'
1010807-3	SHIELD PR. #24	60'
1010807-4	UNSHIELD SGL. #28	200'
1010807-5	UNSHIELD SGL. #24	100'
1010807-6	UNSHIELD PR. #28	15'
1010807-7	UNSHIELD PR. #24	10'
1010807-8	UNSHIELD TRPL. #28	6'
1010807-10	UNSHIELD QUAD #28	6'
1010807-13	SHIELD TRPL. #24	20'

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 3/4/65
APPROVED MIT 3 Mar 65
APPROVED MSC 3-5-65
DATE

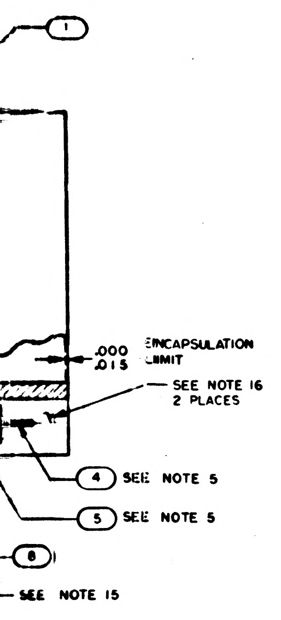
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
PSA (LEM)

CODE IDENT NO.
SIZE C
DRAWING NO. 6007003
SCALE
SHEET 1 OF 1

6007003

REVISIONS 19772						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22997				



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ENCAPSULATION LIMIT
SEE NOTE 16
2 PLACES
4 SEE NOTE 5
5 SEE NOTE 5
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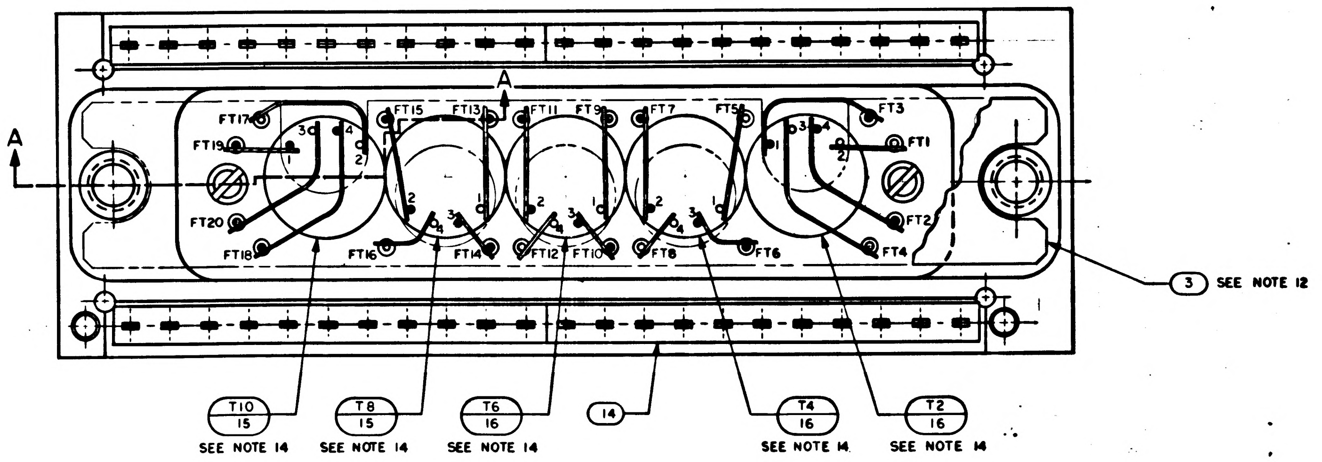
SEE NOTE 15



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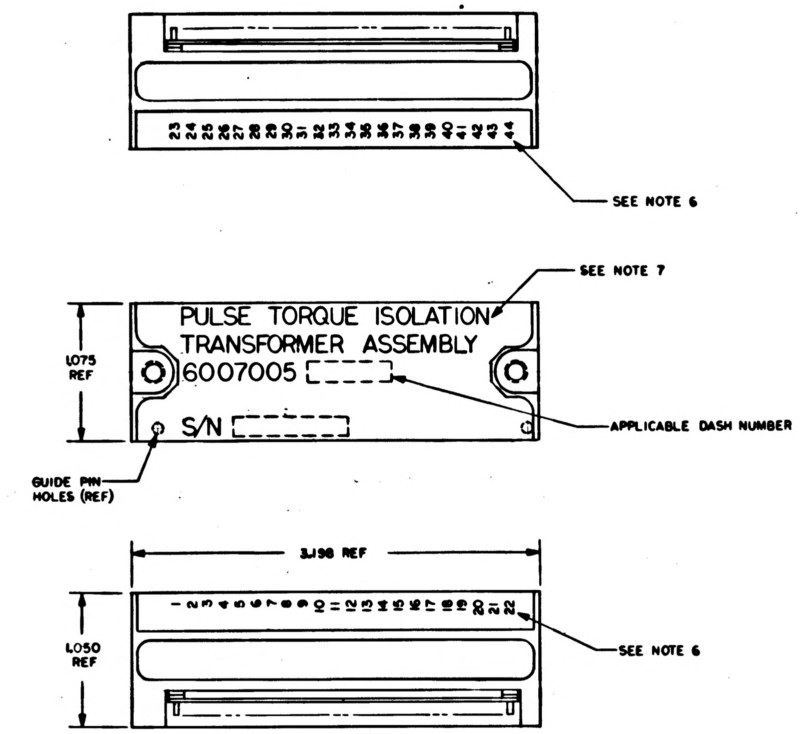
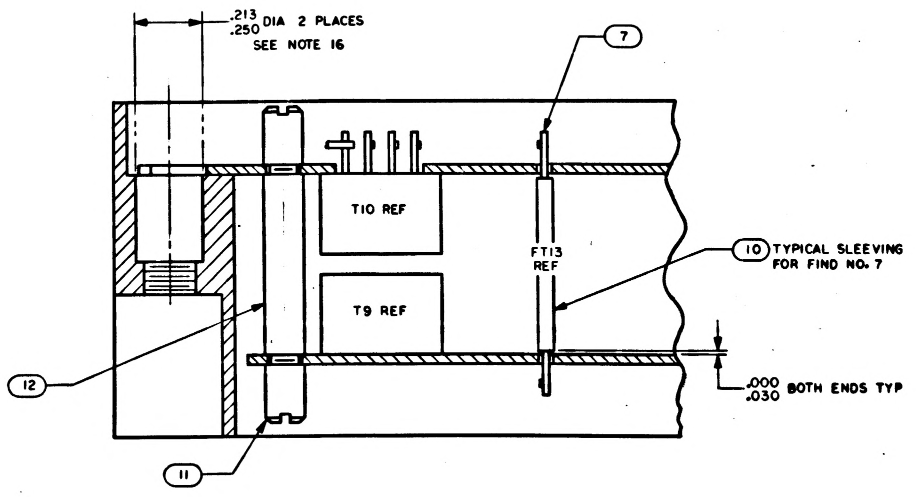
SEE NOTE 14



23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY
6007005
S/N
1.075 REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES (REF)
3.198 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
1.050 REF
SEE NOTE 6

MARKING VIEWS
SCALE 2/1



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.250 DIA 2 PLACES
SEE NOTE 16
7
T10 REF
T9 REF
FT13 REF
10 TYPICAL SLEEVING FOR FIND NO. 7
.000
.030 BOTH ENDS TYP
12
11

PARTIAL SECTION A–A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010002	SCHEMATIC	REF
6	1006319	TRANSFORMER	16
4	1010968	TRANSFORMER	15
4	1008540-11	GASKET, CONNECTOR, MINAT	14
1	2008093-000	TERMINAL, THREADED	13
2	1015135-003	SPACER, NYLON	12
4	1008161-3	SCREW, CAP SLOTTED HEAD, SPECIAL	11
AR	1006776-22	INSULATION, SLEEVING	10
AR	1006776-21	INSULATION, SLEEVING	9
AR	1006776-20	INSULATION, SLEEVING	8
AR	1006757-8	WIRE, ELECTRICAL	7
AR	1006757-1	WIRE, ELECTRICAL	6
44	1006775	INSULATOR, WRAPOST-MALE MINIATURE	5
44	1006782-2	CONTACT, WRAPOST-MALE MINIATURE	4
1	6008004	WIRING BOARD, BOTTOM	3
1	6008006	WIRING BOARD, TOP	2
1	6008002	FRAME	1
-011	LIST OF MATERIALS		

6007005 A 3H

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Eli Jones	10 MAY 65
CHECKED		
APPROVED		
APPROVED		
APPROVED MIT		6-2-65
APPROVED		

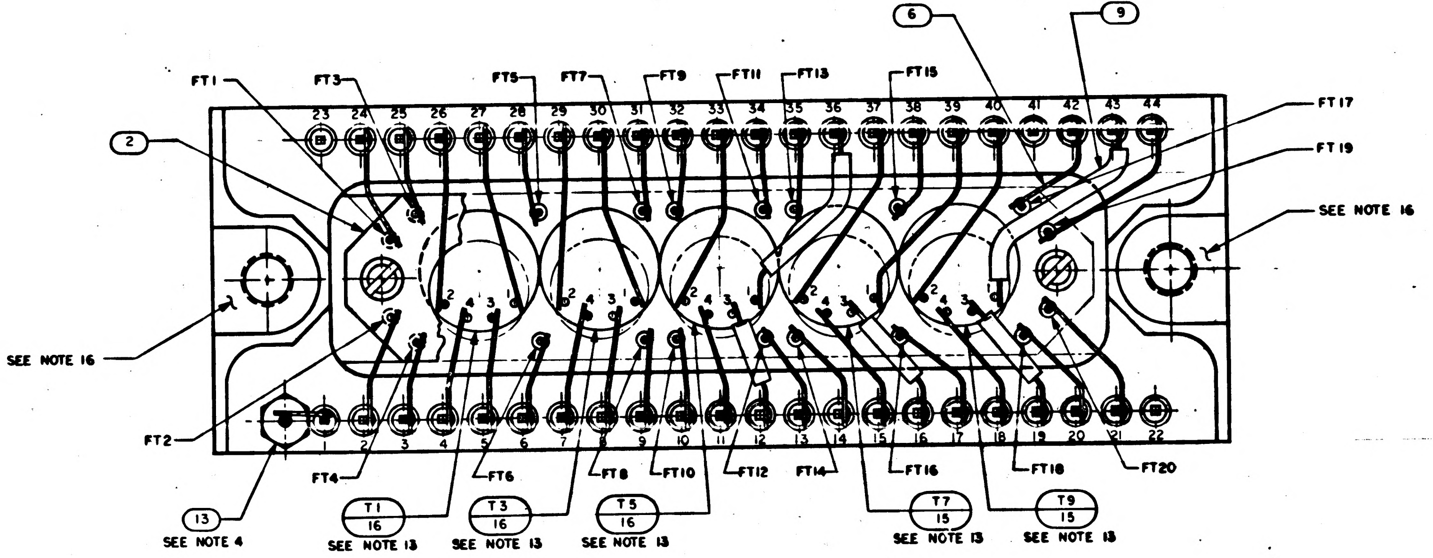
PULSE TORQUE ISOLATION TRANSFORMER ASSEMBLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007005

SCALE 2/1 SHEET 1 OF 1

MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.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SEE NOTE 4
SEE NOTE 16
SEE NOTE 16
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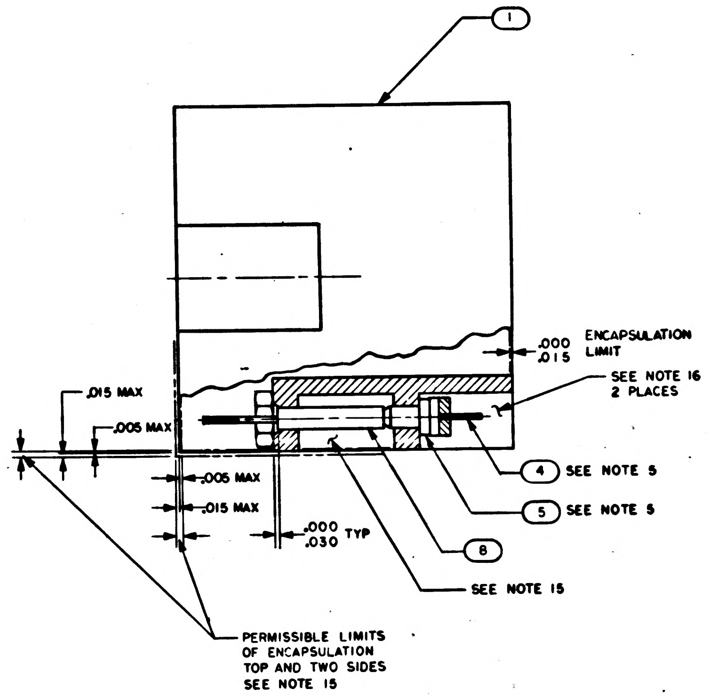
T1 16 SEE NOTE 13
T3 16 SEE NOTE 13
T5 16 SEE NOTE 13
T7 15 SEE NOTE 13
T9 15 SEE NOTE 13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ENCAPSULATION LIMIT
SEE NOTE 16
2 PLACES
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.005 MAX
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4 SEE NOTE 5
5 SEE NOTE 5
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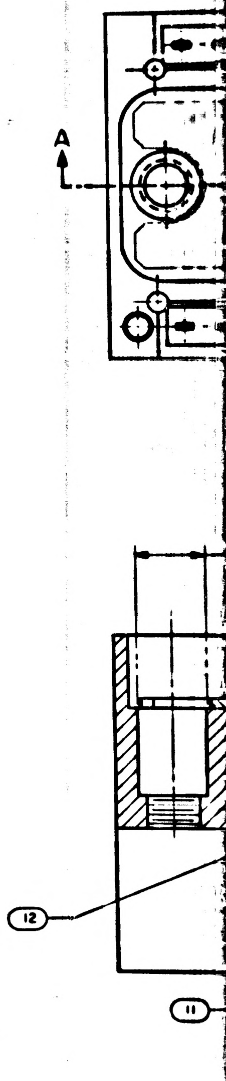
SEE NOTE 15
PERMISSIBLE LIMITS
OF ENCAPSULATION
TOP AND TWO SIDES
SEE NOTE 15

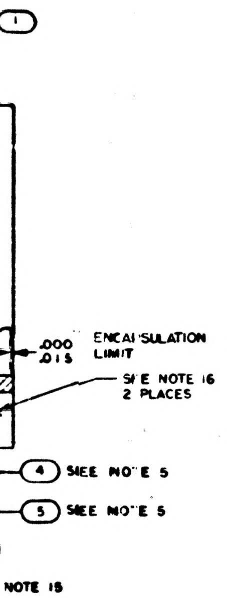


3 H

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. FT DENOTES FEED THRU
4. MOUNTING TORQUE FOR FIND NO. 13 TO BE 15–20 INCH OUNCES
5. ASSEMBLE FIND NO.4 AND FIND NO.5 TO FIND NO.1 PER ND1002136
6. MARK .060/.100 HIGH WHITE CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
7. MARK .100/.140 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
8. WELD PER ND1002005
9. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
10. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
11. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
12. BOND FIND NO.3 TO FIND NO.1 PER ND1002004 TYPE I
13. BOND FIND NO.15(T7, T9) AND FIND NO.16(T1,T3,T5) TO FIND NO.2 PER ND1002004 TYPE I
14. BOND FIND NO.15(T8,T10) AND FIND NO.16(T2,T4,T6) TO FIND NO.3 PER ND1002004 TYPE I
15. ENCAPSULATE PER ND1002002. REMOVE FLASHING
16. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
17. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF P.S. 6007005
18. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
19. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT

REVISIONS		19772				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22997	ADL		13 Oct 65	
B		REVISED PER TDRR 23888			14 Nov 65	



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ENCAPSULATION LIMIT
SEE NOTE 16
2 PLACES
4 SEE NOTE 5
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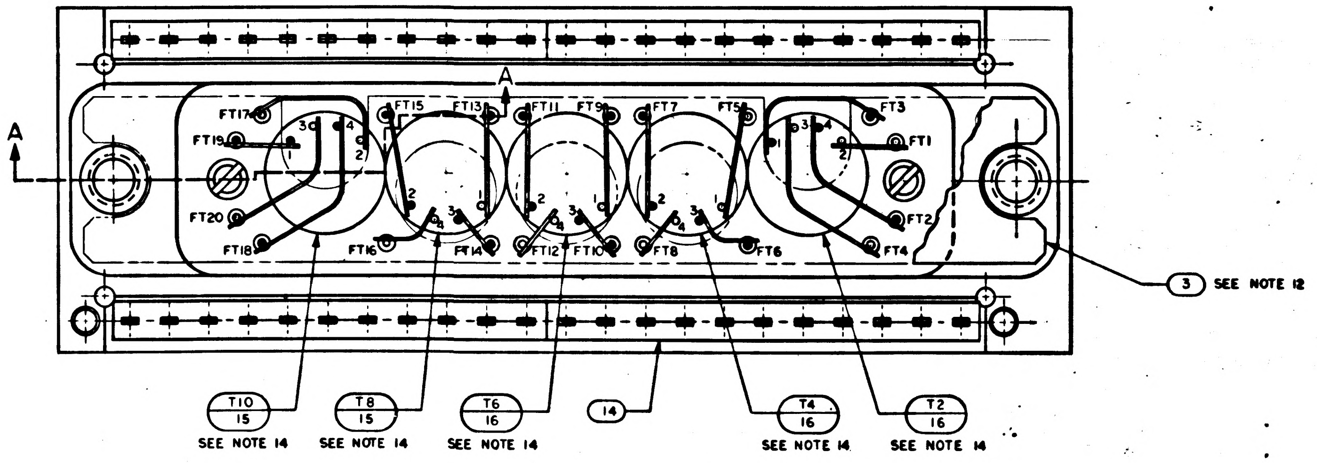
NOTE 15



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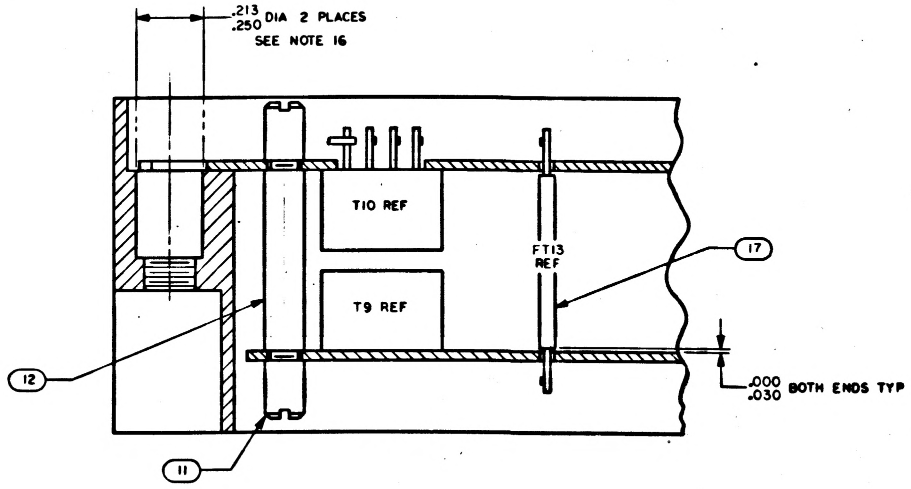
T4 / 16 SEE NOTE 14
T2 / 16 SEE NOTE 14



.213
.250 DIA 2 PLACES
SEE NOTE 16
T10 REF
T9 REF
FT13 REF
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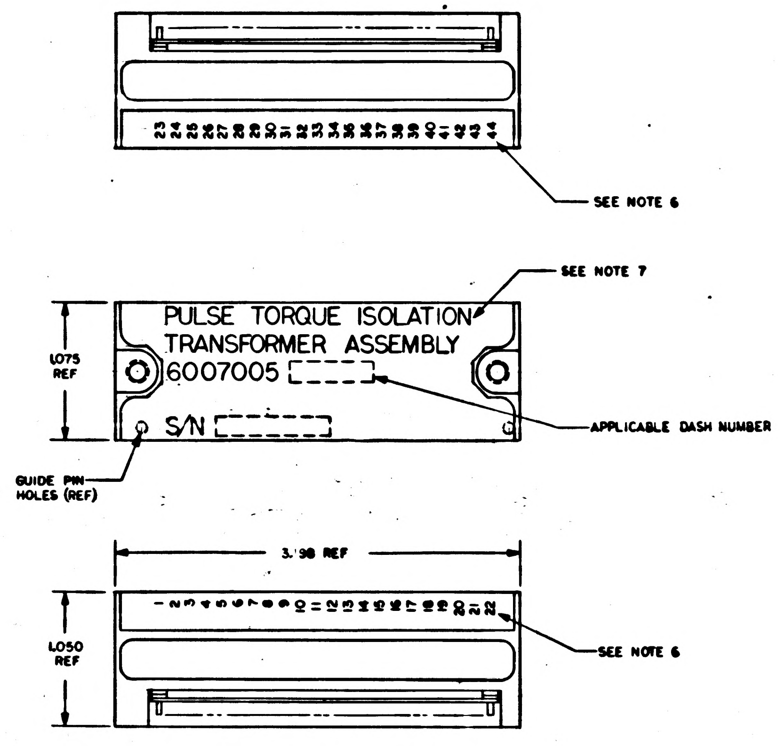
PARTIAL SECTION A–A



23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY
6007005
S/N
APPLICABLE DASH NUMBER
1.075 REF
GUIDE PIN HOLES (REF)
3.198 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
1.050 REF
SEE NOTE 6

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010002	SCHEMATIC	REF
AR	1010848-2	WIRE, ELECTRICAL	17
6	1006319	TRANSFORMER	16
4	1010968	TRANSFORMER	15
4	1008540-11	GASKET, CONNECTOR, MINAT	14
1	2008093-000	TERMINAL, THREADED	13
2	1015135-003	SPACER, NYLON	12
4	1008161-3	SCREW, CAP SLOTTED HEAD, SPECIAL	11
			10
AR	1006776-21	INSULATION, SLEEVING	9
AR	1006776-20	INSULATION, SLEEVING	8
			7
AR	1006757-1	WIRE, ELECTRICAL	6
44	1006775	INSULATOR, WRAPOST-MALE MINIATURE	5
44	1006782-2	CONTACT, WRAPOST-MALE MINIATURE	4
1	6008004	WIRING BOARD, BOTTOM	3
1	6008006	WIRING BOARD, TOP	2
1	6008002	FRAME	1
-011	LIST OF MATERIALS		

B
6007005
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6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
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DO NOT SCALE THIS DRAWING
MATERIAL
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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Eley Jessee 10 Nov 65
CHECKED
APPROVED
APPROVED
APPROVED MIT 6-2-65
APPROVED MSC 6-2-65
DATE

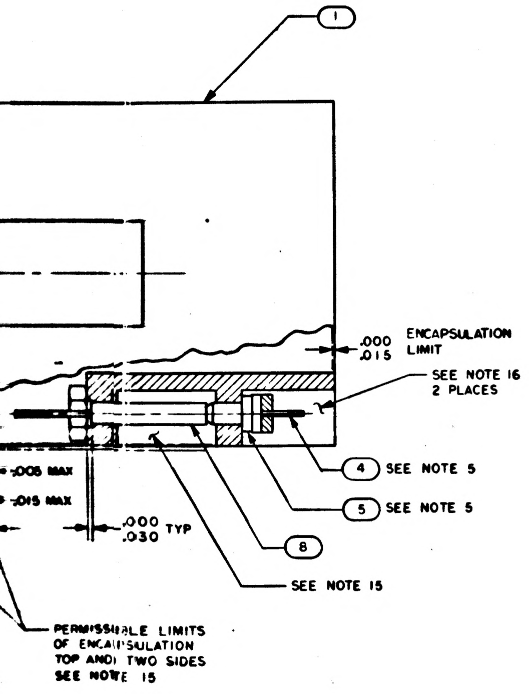
PULSE TORQUE ISOLATION TRANSFORMER ASSEMBLY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007005
SCALE 5/1
SHEET 1 OF 1

MASTER

6007005 B

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DA	APPROVED
A		REVISED PER TDRR 22997				
B		REVISED PER TDRR 23888				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ENCAPSULATION LIMIT
SEE NOTE 16
2 PLACES
4 SEE NOTE 5
5 SEE NOTE 5
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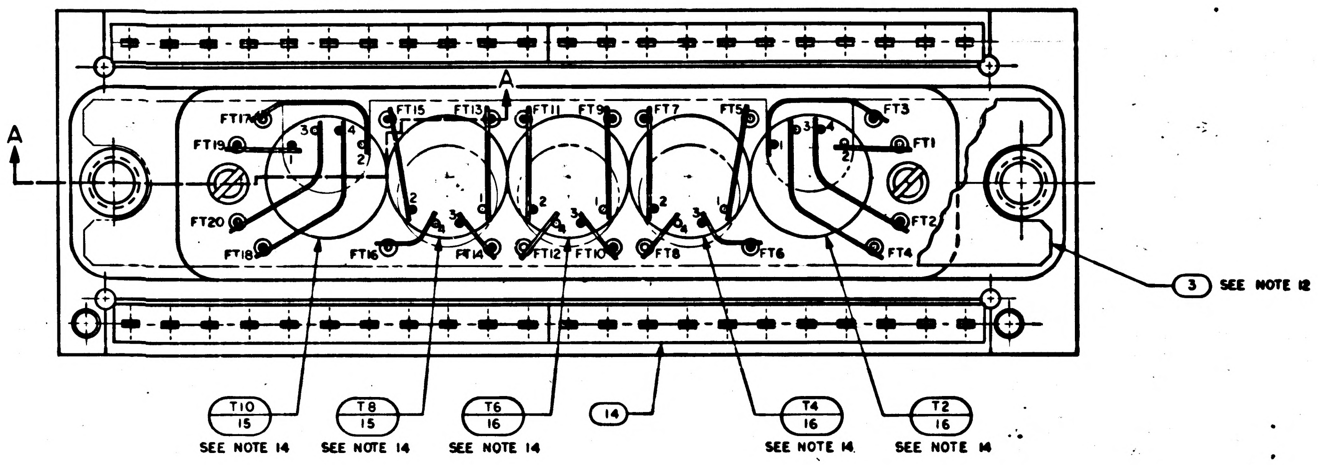
PERMISSIBLE LIMITS OF ENCAPSULATION TOP AND TWO SIDES SEE NOTE 15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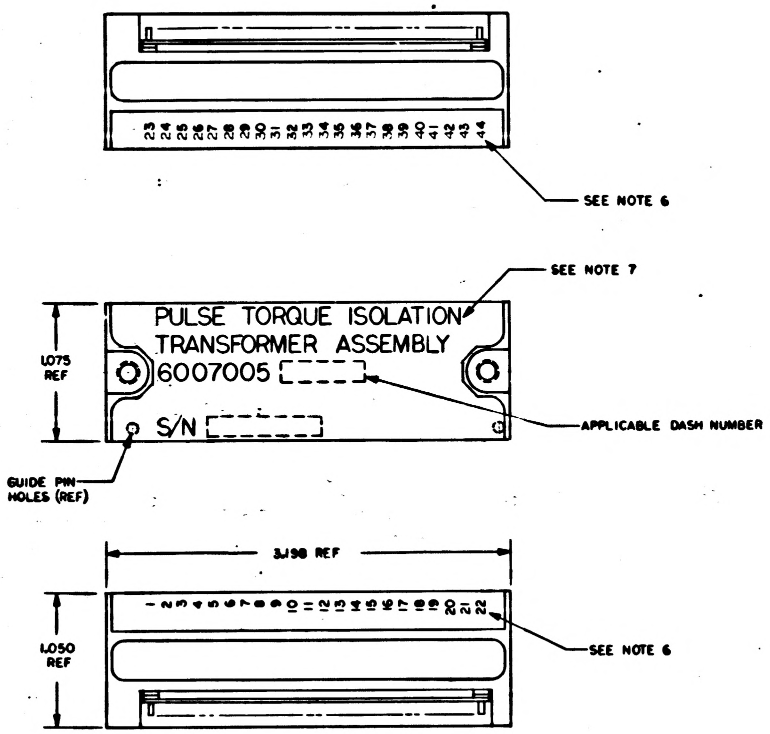
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SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY
6007005
S/N
1.075 REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES (REF)
3.138 REF
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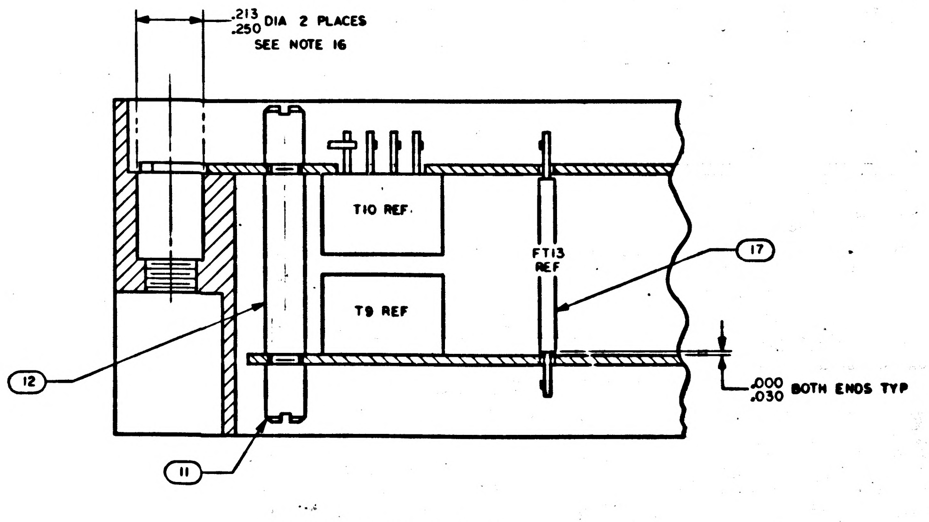
1.050 REF
SEE NOTE 6

MARKING VIEWS
SCALE 2/1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SEE NOTE 16
T10 REF.
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PARTIAL SECTION A–A

☒	6010002	SCHEMATIC	REF
AR	1010848-2	WIRE, ELECTRICAL	17
6	1006319	TRANSFORMER	16
4	1010968	TRANSFORMER	15
4	1008540-11	GASKET, CONNECTOR, MINAT	14
1	2008093-000	TERMINAL, THREADED	13
2	1015135-003	SPACER, NYLON	12
4	1008161-3	SCREW, CAP SLOTTED HEAD, SPECIAL	11
			10
AR	1006776-21	INSULATION, SLEEVING	9
AR	1006776-20	INSULATION, SLEEVING	8
			7
AR	1006757-1	WIRE, ELECTRICAL	6
44	1006775	INSULATOR, WRAPOST-MALE MINIATURE	5
44	1006782-2	CONTACT, WRAPOST-MALE MINIATURE	4
1	6008004	WIRING BOARD, BOTTOM	3
1	6008006	WIRING BOARD, TOP	2
1	6008002	FRAME	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-011	LIST OF MATERIALS		

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
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DO NOT SCALE THIS DRAWING
MATERIAL
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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Eloy Govea 10 ... 65
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC W J Rhine
DATE

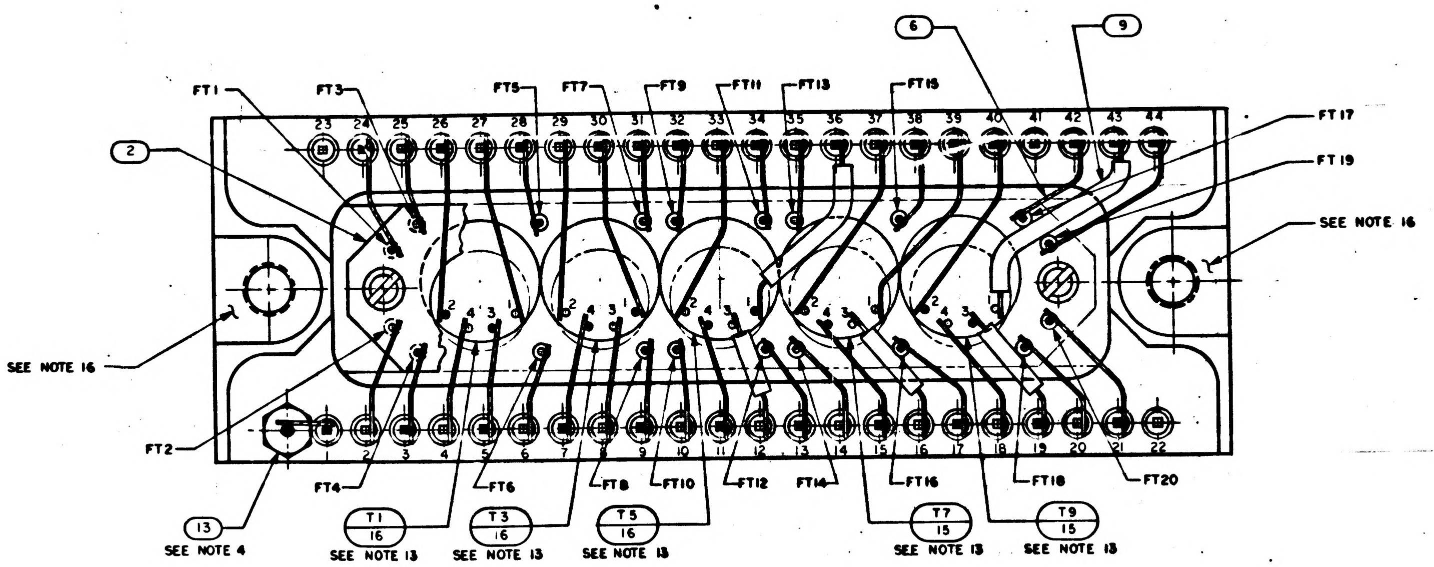
PULSE TORQUE ISOLATION TRANSFORMER ASSEMBLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007005

SCALE 5/1
SHEET OF

MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.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SEE NOTE 16
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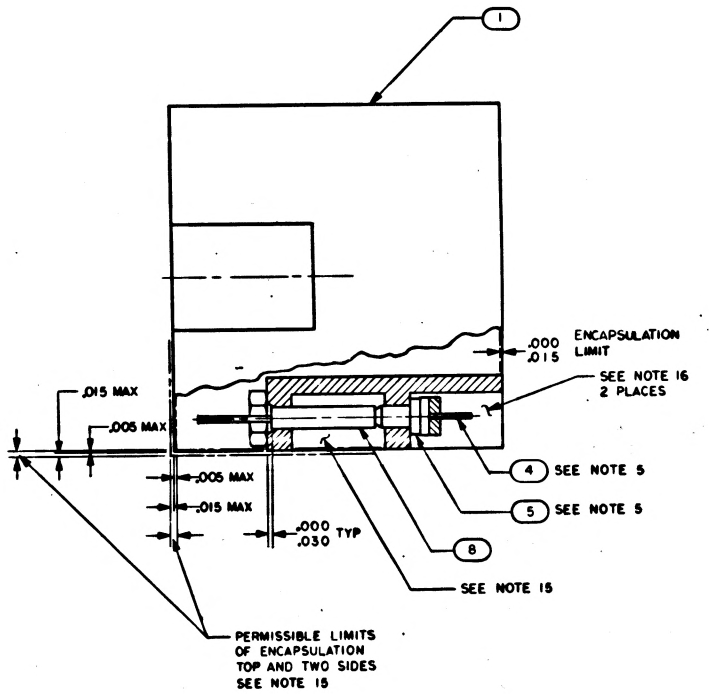
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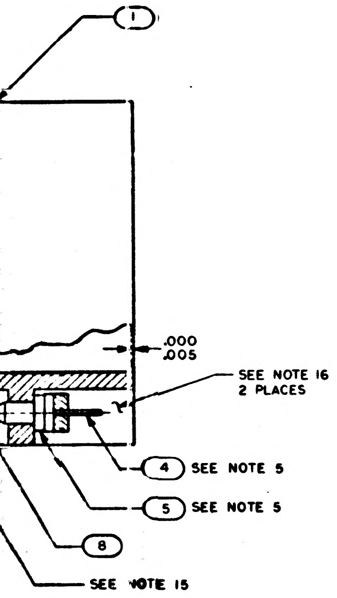
SEE NOTE 5
5
SEE NOTE 5
8
SEE NOTE 15
PERMISSIBLE LIMITS
OF ENCAPSULATION
TOP AND TWO SIDES
SEE NOTE 15

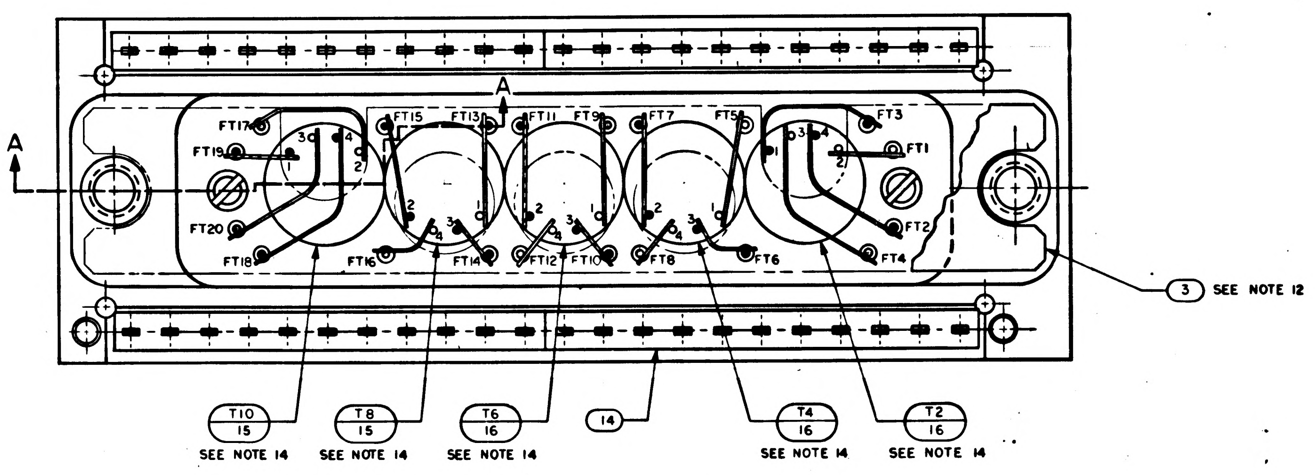
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. FT DENOTES FEED THRU
4. MOUNTING TORQUE FOR FIND NO. 13 TO BE 15–20 INCH OUNCES
5. ASSEMBLE FIND NO. 4 AND FIND NO. 5 TO FIND NO. 1 PER ND1002136
6. MARK .060/.100 HIGH WHITE CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
7. MARK .100/.140 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
8. WELD PER ND1002005
9. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
10. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
11. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
12. BOND FIND NO. 3 TO FIND NO. 1 PER ND1002004 TYPE I
13. BOND FIND NO. 15 (T7, T9) AND FIND NO. 16 (T1, T3, T5) TO FIND NO. 2 PER ND1002004 TYPE I
14. BOND FIND NO. 15 (T8, T10) AND FIND NO. 16 (T2, T4, T6) TO FIND NO. 3 PER ND1002004 TYPE I
15. ENCAPSULATE PER ND1002002. REMOVE FLASHING
16. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
17. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF P.S. 6007005
18. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
19. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT

3H

REVISIONS						
SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED



1
.000
.005
SEE NOTE 16
2 PLACES
4 SEE NOTE 5
5 SEE NOTE 5
8
SEE NOTE 15



A
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FT17
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FT1
3 SEE NOTE 12
T10
15
SEE NOTE 14
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15
SEE NOTE 14
T6
16
SEE NOTE 14
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T4
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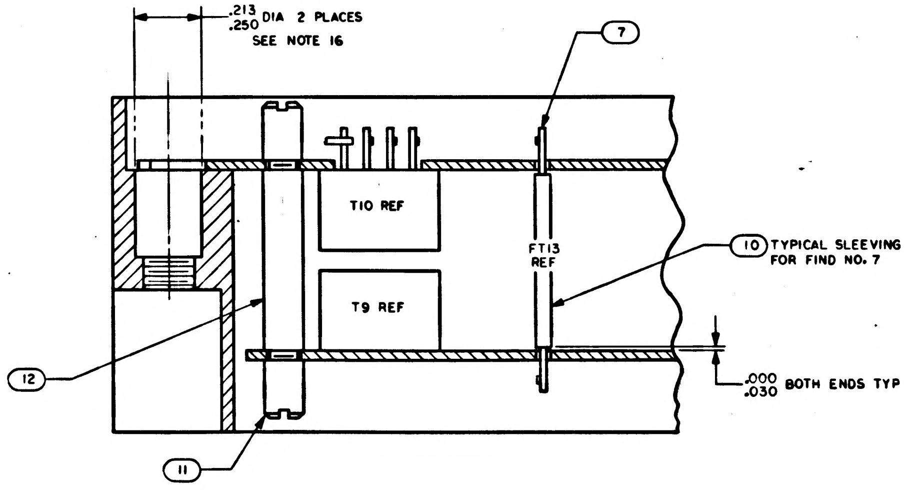
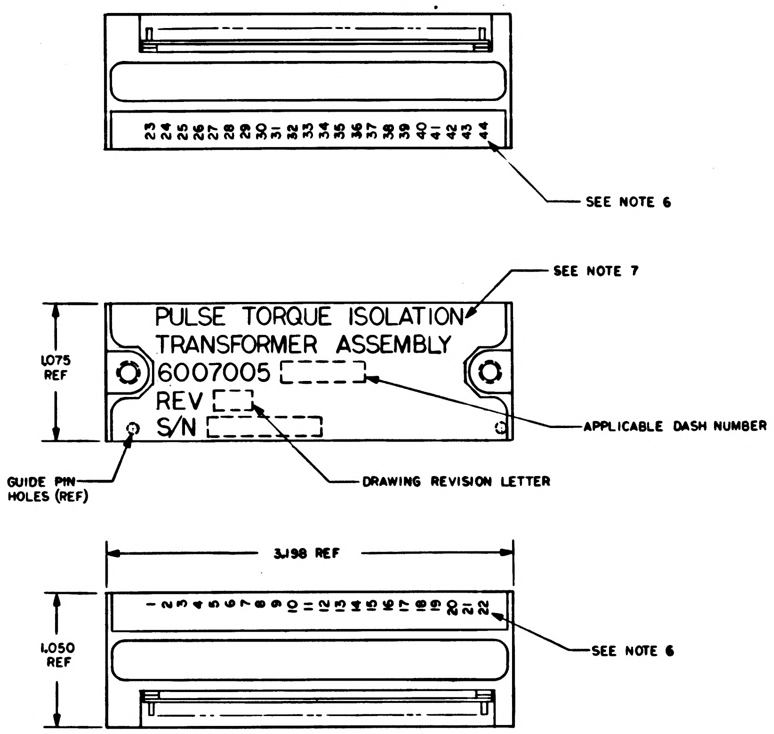
SEE NOTE 14
T2
16
SEE NOTE 14



.213
.250 DIA 2 PLACES
SEE NOTE 16
7
T10 REF
T9 REF
FT13
REF
10 TYPICAL SLEEVING
FOR FIND NO. 7
.000
.030 BOTH ENDS TYP
12
11

PARTIAL SECTION A—A



23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
SEE NOTE 6
SEE NOTE 7
1.075
REF
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY
6007005
REV
S/N
APPLICABLE DASH NUMBER
GUIDE PIN
HOLES (REF)
DRAWING REVISION LETTER
3.198 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
SEE NOTE 6
1.050
REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010002	SCHEMATIC	REF
6	1006319	TRANSFORMER	16
4	1010968	TRANSFORMER	15
4	1008540-11	GASKET, CONNECTOR, MINAT	14
1	2008093-000	TERMINAL, THREADED	13
2	1015135-003	SPACER, NYLON	12
4	1008161-3	SCREW, CAP SLOTTED HEAD, SPECIAL	11
AR	1006776-22	INSULATION, SLEEVING	10
AR	1006776-21	INSULATION, SLEEVING	9
AR	1006776-20	INSULATION, SLEEVING	8
AR	1006757-8	WIRE, ELECTRICAL	7
AR	1006757-1	WIRE, ELECTRICAL	6
44	1006775	INSULATOR, WRAPOST-MALE MINIATURE	5
44	1006782-4	CONTACT, WRAPOST-MALE MINIATURE	4
1	6008004	WIRING BOARD, BOTTOM	3
1	6008006	WIRING BOARD, TOP	2
1	6008002	FRAME	1

-011 LIST OF MATERIALS

3H

6007005

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± —— ± —— ± ——
DO NOT SCALE THIS DRAWING
MATERIAL
——

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

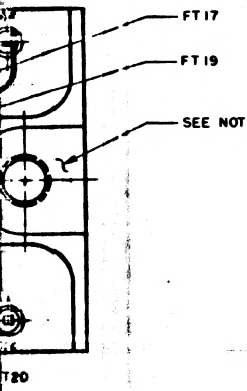
DRAWN Eley Grow 10 MAY 65
CHECKED Bongerrigo 28 ?, 65
APPROVED E. Swiek 28 May 65
APPROVED 6/1/65
APPROVED MIT W. T. Muxley 6-2-65
APPROVED MSC W J Rhine 6-2-65
DATE

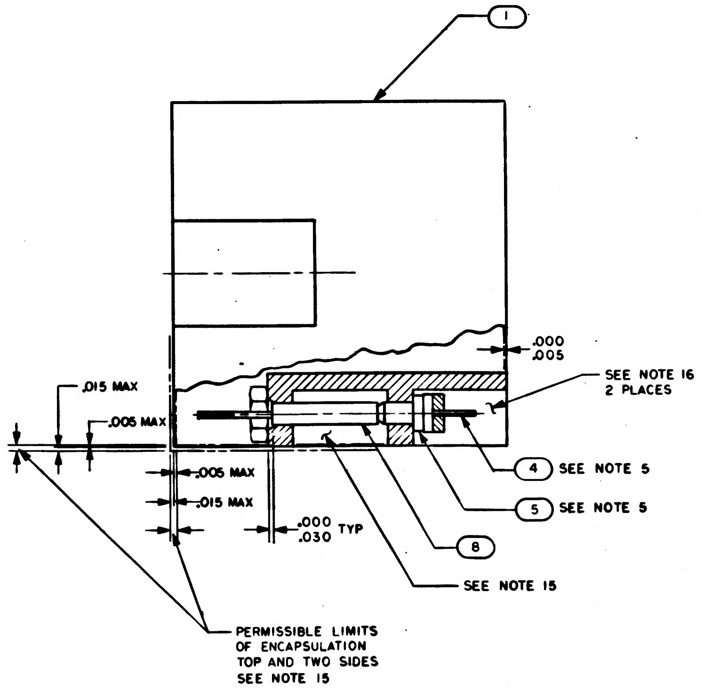
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

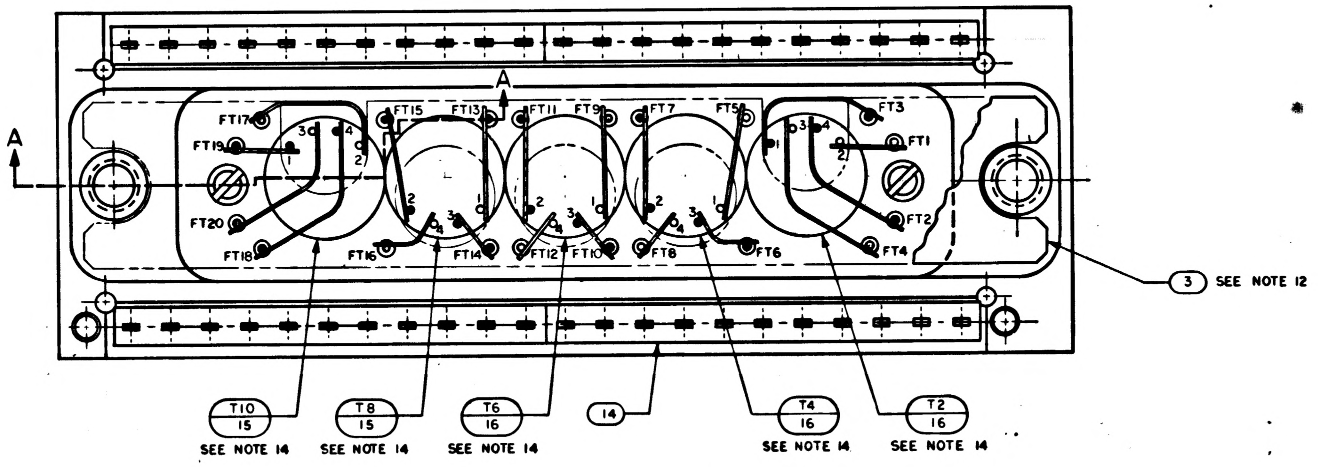
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007005
SCALE 5/1
SHEET 1 OF 1

6007005


FT17
FT19
SEE NOTE 16
T20


1
.000
.005
SEE NOTE 16
2 PLACES
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000
.030 TYP
4 SEE NOTE 5
5 SEE NOTE 5
8
SEE NOTE 15
PERMISSIBLE LIMITS
OF ENCAPSULATION
TOP AND TWO SIDES
SEE NOTE 15


A
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FT4
1
2
3
4
3 SEE NOTE 12
T10
15
SEE NOTE 14
T8
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SEE NOTE 14
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SEE NOTE 14
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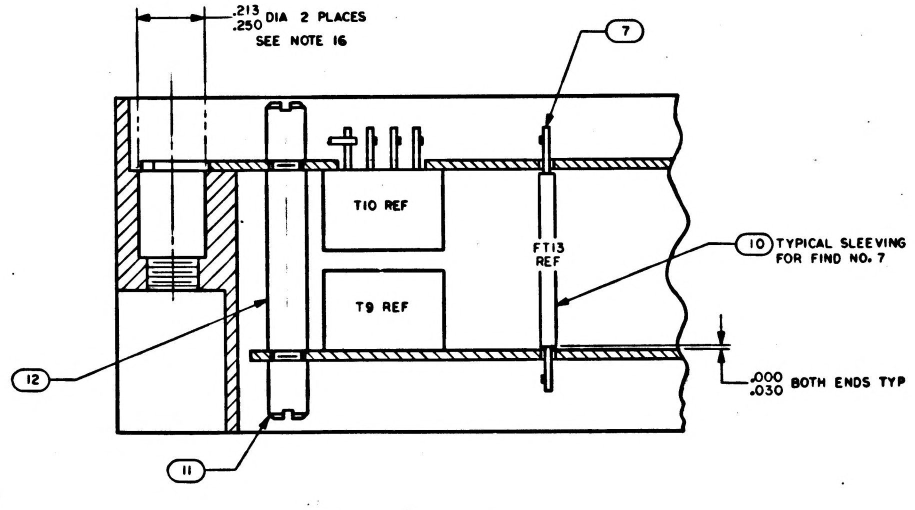
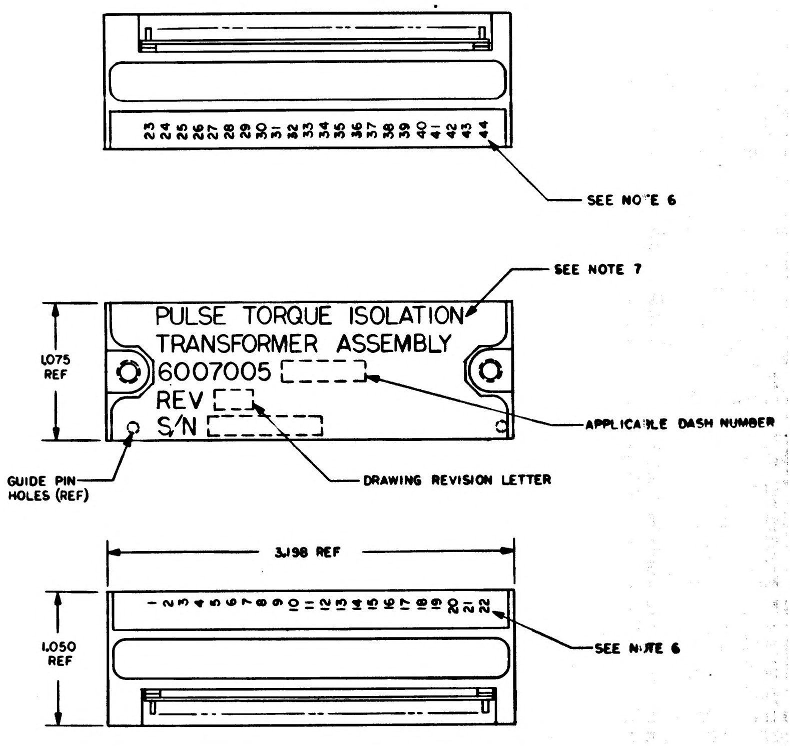
T4
16
SEE NOTE 14
T2
16
SEE NOTE 14


.213
.250 DIA 2 PLACES
SEE NOTE 16
7
T10 REF
T9 REF
FT13
REF
10 TYPICAL SLEEVING
FOR FIND NO. 7
12
11
.000
.030 BOTH ENDS TYP

PARTIAL SECTION A–A


23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION
TRANSFORMER ASSEMBLY
6007005
REV
S/N
1.075
REF
APPLICABLE DASH NUMBER
GUIDE PIN
HOLES (REF)
DRAWING REVISION LETTER
3.198 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
1.050
REF
SEE NOTE 6

MARKING VIEWS
SCALE 2/1

☒	60100
6	10063
4	10109
4	10085
1	2008
2	10151
4	1008
AR	1006
AR	1006
AR	1006
AR	1006
AR	1006
44	1006
44	1006
1	6008
1	6006
1	6005
QTY REQD	IDE
-011	

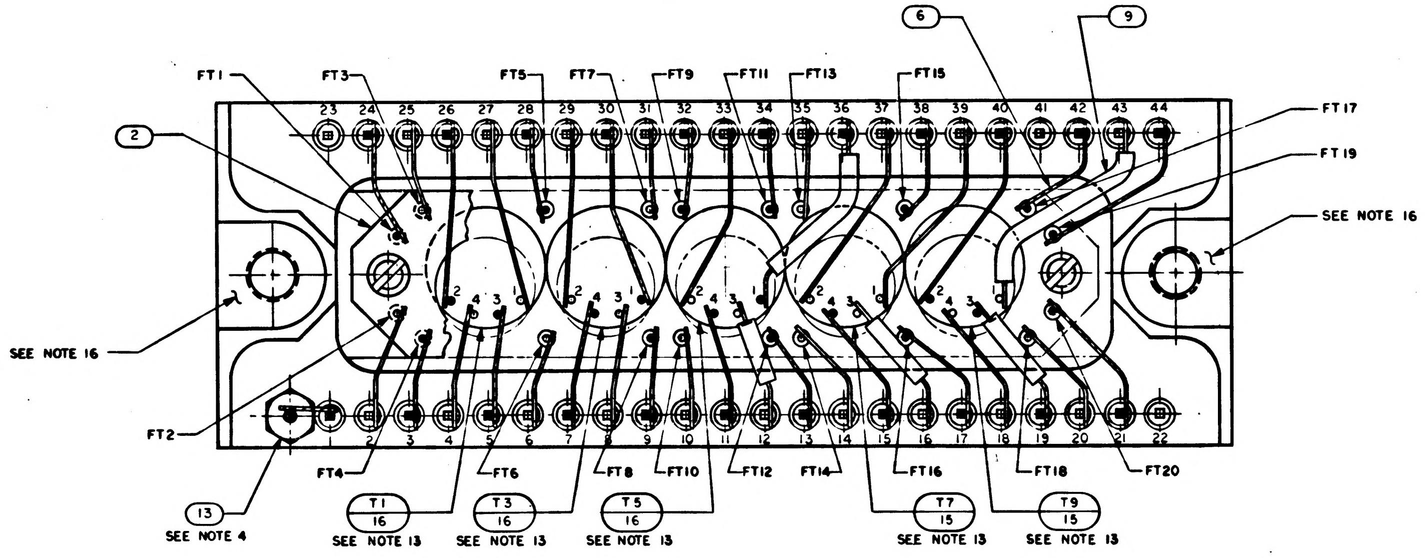
6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

INSTRUME

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


FT1
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FT15
6
9
FT17
FT19
2
23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
SEE NOTE 16
2 4 3 1
SEE NOTE 16
FT2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
FT4
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FT20
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SEE NOTE 4
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SEE NOTE 13
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SEE NOTE 13
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SEE NOTE 13
T7
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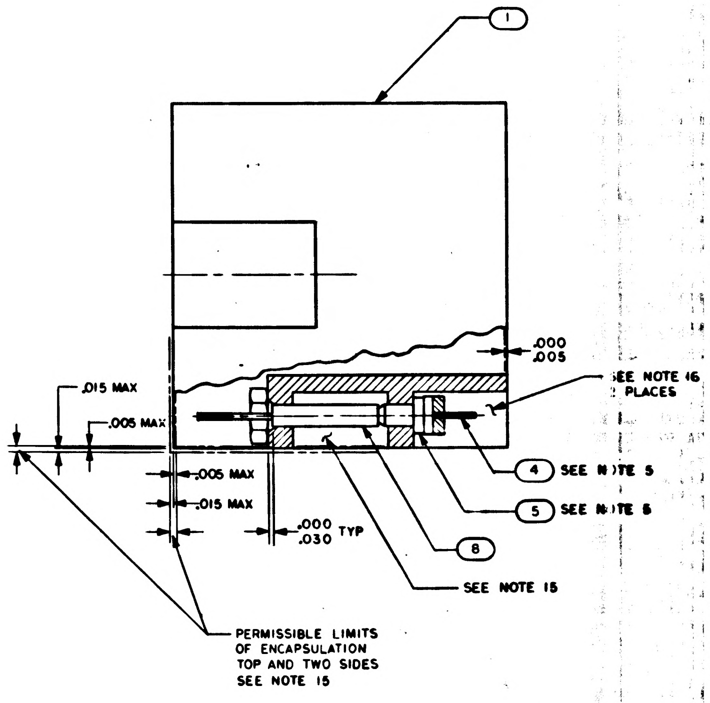
SEE NOTE 13
T9
15
SEE NOTE 13


1
.000
.005
.015 MAX
.005 MAX
SEE NOTE 16
2 PLACES
.005 MAX
.015 MAX
.000
.030 TYP
4 SEE NOTE 5
5 SEE NOTE 5
8
SEE NOTE 15
PERMISSIBLE LIMITS
OF ENCAPSULATION
TOP AND TWO SIDES
SEE NOTE 15

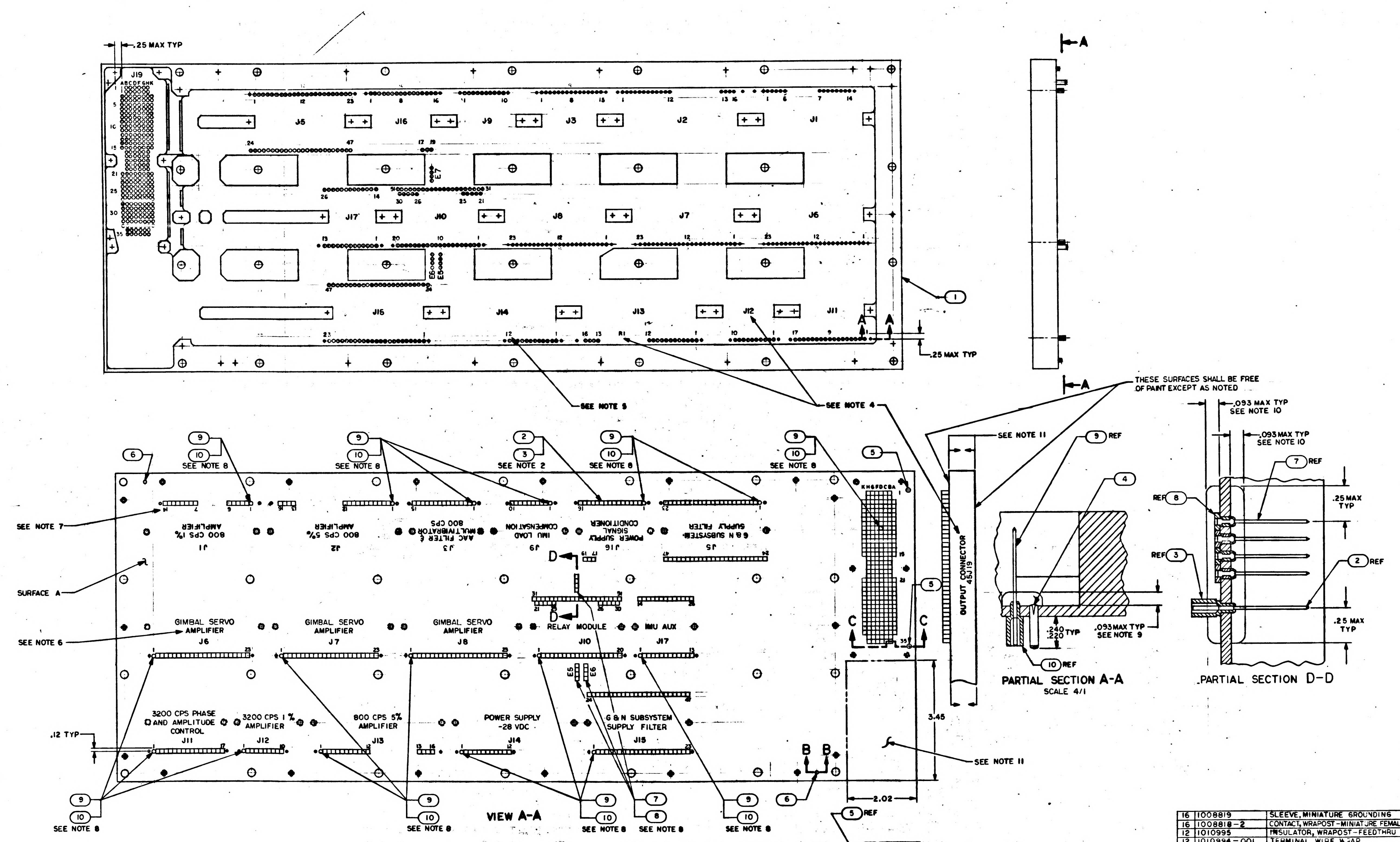
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. FT DENOTES FEED THRU
4. MOUNTING TORQUE FOR FIND NO. 13 TO BE 15-20 INCH OUNCES
5. ASSEMBLE FIND NO.4 AND FIND NO.5 TO FIND NO.1 PER ND1002136
6. MARK .060/.100 HIGH WHITE CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
7. MARK .100/.140 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
8. WELD PER ND1002005
9. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
10. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
11. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
12. BOND FIND NO.3 TO FIND NO.1 PER ND1002004 TYPE I
13. BOND FIND NO. 15 (T7, T9) AND FIND NO. 16 (T1,T3,T5) TO FIND NO. 2 PER ND1002004 TYPE I
14. BOND FIND NO. 15 (T8,T10) AND FIND NO. 16 (T2,T4,T6) TO FIND NO.3 PER ND1002004 TYPE I
15. ENCAPSULATE PER ND1002002. REMOVE FLASHING
16. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
17. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF P.S. 6007005

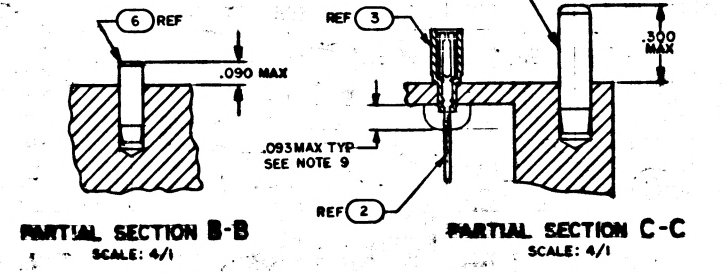
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22612

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806			1 OCT 65	



.25 MAX TYP
J19
J5
J16
J9
J3
J2
J1
J17
J10
J8
J7
J6
J15
J14
J13
J12
J11
E7
E5
E6
A
1
SEE NOTE 5
SEE NOTE 4
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
9 REF
4
OUTPUT CONNECTOR 45J19
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
10 REF
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
7 REF
8 REF
3 REF
2 REF
.25 MAX TYP
PARTIAL SECTION D-D
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SURFACE A
SEE NOTE 6
800 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
AAC FILTER & MULTIVIBRATOR 800 CPS
IMU LOAD COMPENSATION
POWER SUPPLY SIGNAL CONDITIONER
G & N SUBSYSTEM SUPPLY FILTER
D
GIMBAL SERVO AMPLIFIER
RELAY MODULE
IMU AUX
C
3.45
3200 CPS PHASE AND AMPLITUDE CONTROL
3200 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
POWER SUPPLY -28 VDC
G & N SUBSYSTEM SUPPLY FILTER
.12 TYP
B
SEE NOTE 11
2.02
VIEW A-A
5 REF



6 REF
.090 MAX
3 REF
.093 MAX TYP SEE NOTE 9
2 REF
.300 MAX

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO.1 PER ND1002136
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS
10. SEAL FIND NO. 7 & 8 TO FIND NO. 1 ON SIDE INDICATED PER ND1002187 TYPE I
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
16	1008819	SLEEVE, MINIATURE GROUNDING	10
16	1008818-2	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995	INSULATOR, WRAPOST-FEEDTHRU	8
12	1010994-001	TERMINAL WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
32	1010620-7	PIN, GUIDE	4
614	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
614	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Al Maloney 25 Jun 65
CHECKED 16 Jun 65
APPROVED
APPROVED 9/1/65
APPROVED MIT
APPROVED MSC 9/1/65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22612

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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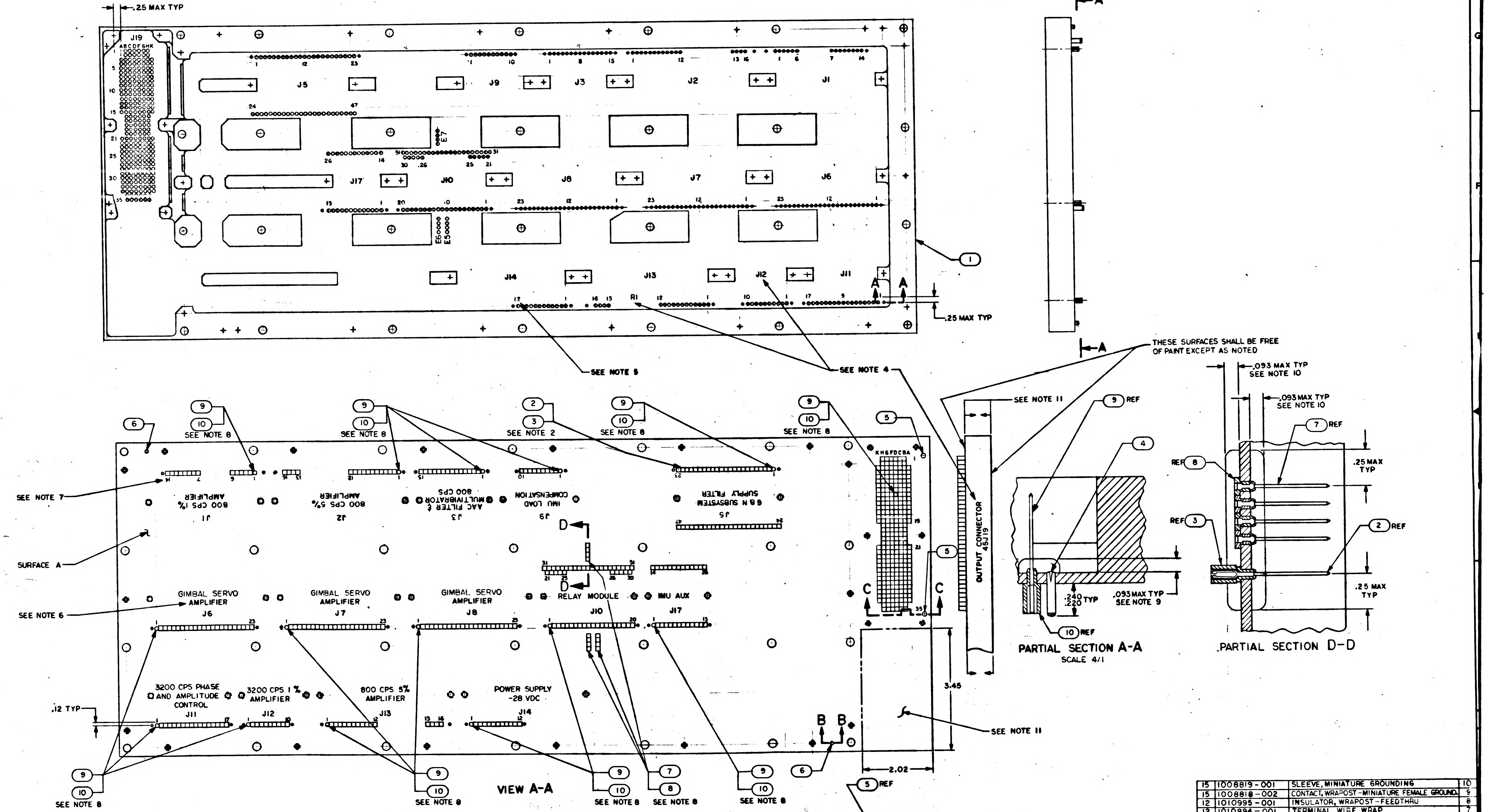
B		REVISED PER TDRR 23754	KCH		4 Nov 65	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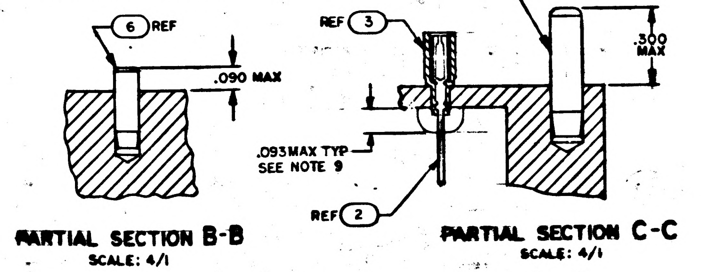
J9
J3
J2
J1
J17
J10
J8
J7
J6
J14
J13
J12
J11
R1
E7
E6
E5
1
A
A
.25 MAX TYP
A
A
SEE NOTE 5
SEE NOTE 4
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
OUTPUT CONNECTOR 45J19
.093 MAX TYP SEE NOTE 10
.093MAX TYP SEE NOTE 10
7 REF
8 REF
3 REF
2 REF
.25 MAX TYP
.25 MAX TYP
9 REF
4
10 REF
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
PARTIAL SECTION D-D
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SURFACE A
SEE NOTE 6
800 CPS 1% AMPLIFIER J1
800 CPS 5% AMPLIFIER J2
AAC FILTER & MULTIVIBRATOR 800 CPS J3
IMU LOAD COMPENSATION J9
6 & N SUBSYSTEM SUPPLY FILTER J5
GIMBAL SERVO AMPLIFIER J6
GIMBAL SERVO AMPLIFIER J7
GIMBAL SERVO AMPLIFIER J8
RELAY MODULE J10
IMU AUX J17
3200 CPS PHASE AND AMPLITUDE CONTROL J11
3200 CPS 1% AMPLIFIER J12
800 CPS 5% AMPLIFIER J13
POWER SUPPLY -28 VDC J14
D
D
C
C
B
B
.12 TYP
3.45
2.02
SEE NOTE 11
VIEW A-A
5 REF


6 REF
.090 MAX
3 REF
.093MAX TYP SEE NOTE 9
2 REF
.300 MAX

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND 1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO. 1 PER ND1002136
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO. 1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS
10. SEAL FIND NO. 7 & 8 TO FIND NO. 1 ON SIDE INDICATED PER ND1002187 TYPE I
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	1010994-001	TERMINAL WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
28	1010620-7	PIN, GUIDE	4
550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007003	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN W. Mahoney 25 Jun 65
CHECKED 16 Jun 65
APPROVED
APPROVED 9/1/65
APPROVED MIT
APPROVED MSC 9/1/65
DATE

HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

MASTER

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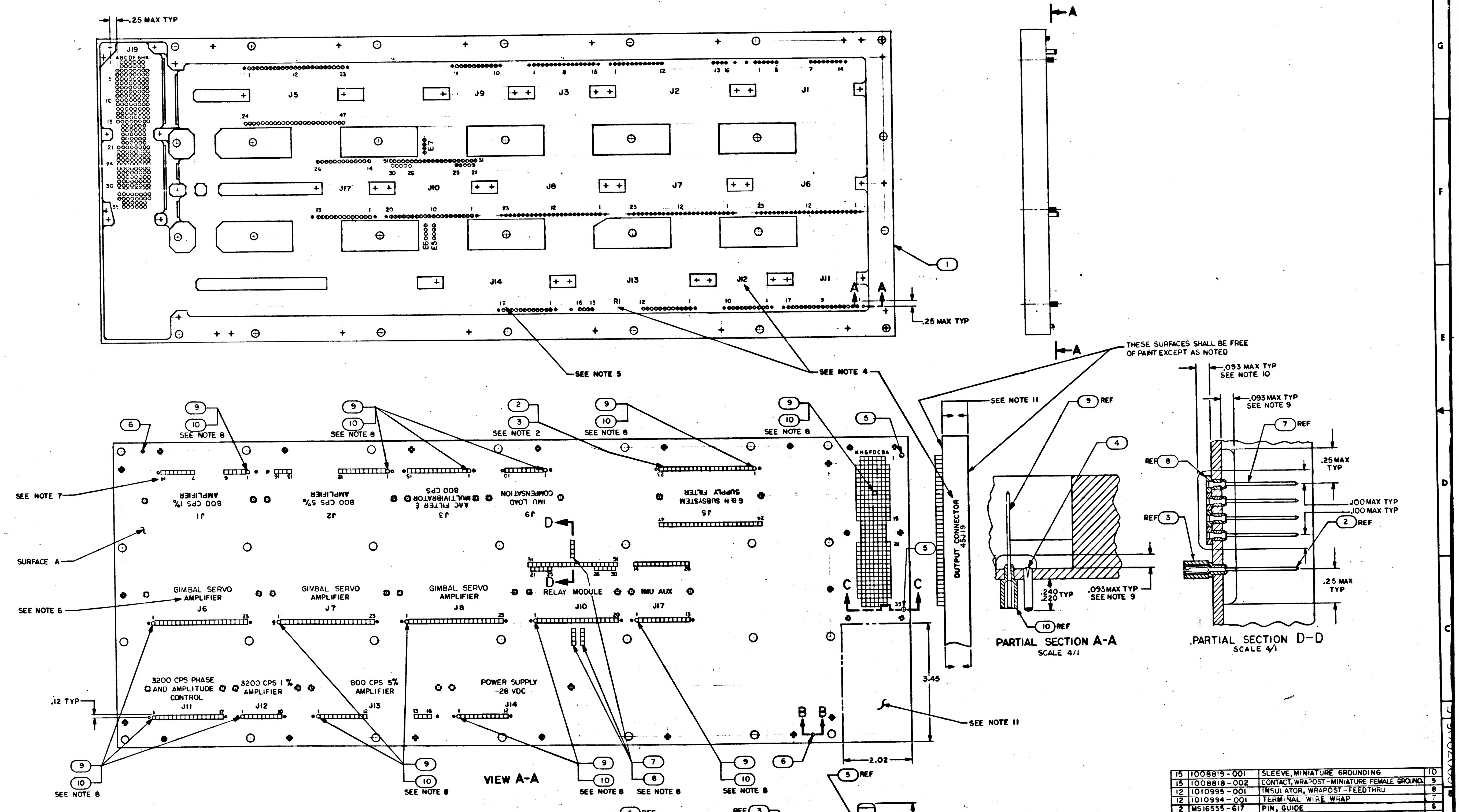
REVISIONS 22612

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806			1 OCT 65	
B		REVISED PER TDRR 23754	KCH		4 NOV 65	GKC
C		REVISED PER TDRR 24317				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J19
ABCDEFGHK
J5
J9
J3
J2
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J17
J10
J8
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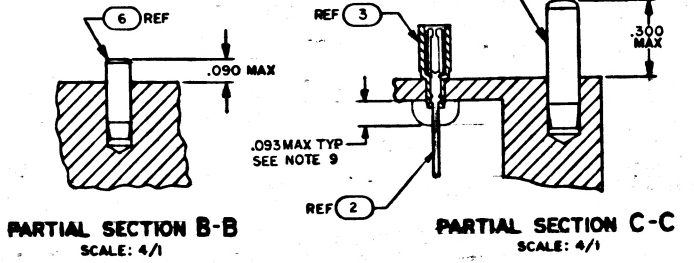
J6
J14
J13
J12
J11
E7
E5
E6
R1
A
A
.25 MAX TYP
SEE NOTE 5
SEE NOTE 4
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SURFACE A
SEE NOTE 6
800 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
AAC FILTER & MULTIVIBRATOR 800 CPS
IMU LOAD COMPENSATION
6 & N SUBSYSTEM SUPPLY FILTER
KH6FDCBA
OUTPUT CONNECTOR 45J19
GIMBAL SERVO AMPLIFIER
RELAY MODULE
IMU AUX
3200 CPS PHASE AND AMPLITUDE CONTROL
3200 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
POWER SUPPLY -28 VDC
.12 TYP
D
C
B
3.45
2.02
VIEW A-A
REF
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
.25 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1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.090 MAX
.093 MAX TYP SEE NOTE 9
REF
.300 MAX
REF

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO.9 AND FIND NO.10 TO FIND NO.1 PER ND1002136
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS
10. SEAL FIND NO. 7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	1010994-001	TERMINAL WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
28	1010620-7	PIN, GUIDE	4
550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1

-011 LIST OF MATERIALS

6007003	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN H. Maloney 25 Aug 65
CHECKED 16 Aug 65
APPROVED
APPROVED LSB 9/1/65
APPROVED MIT
APPROVED MSC 9/1/65
DATE

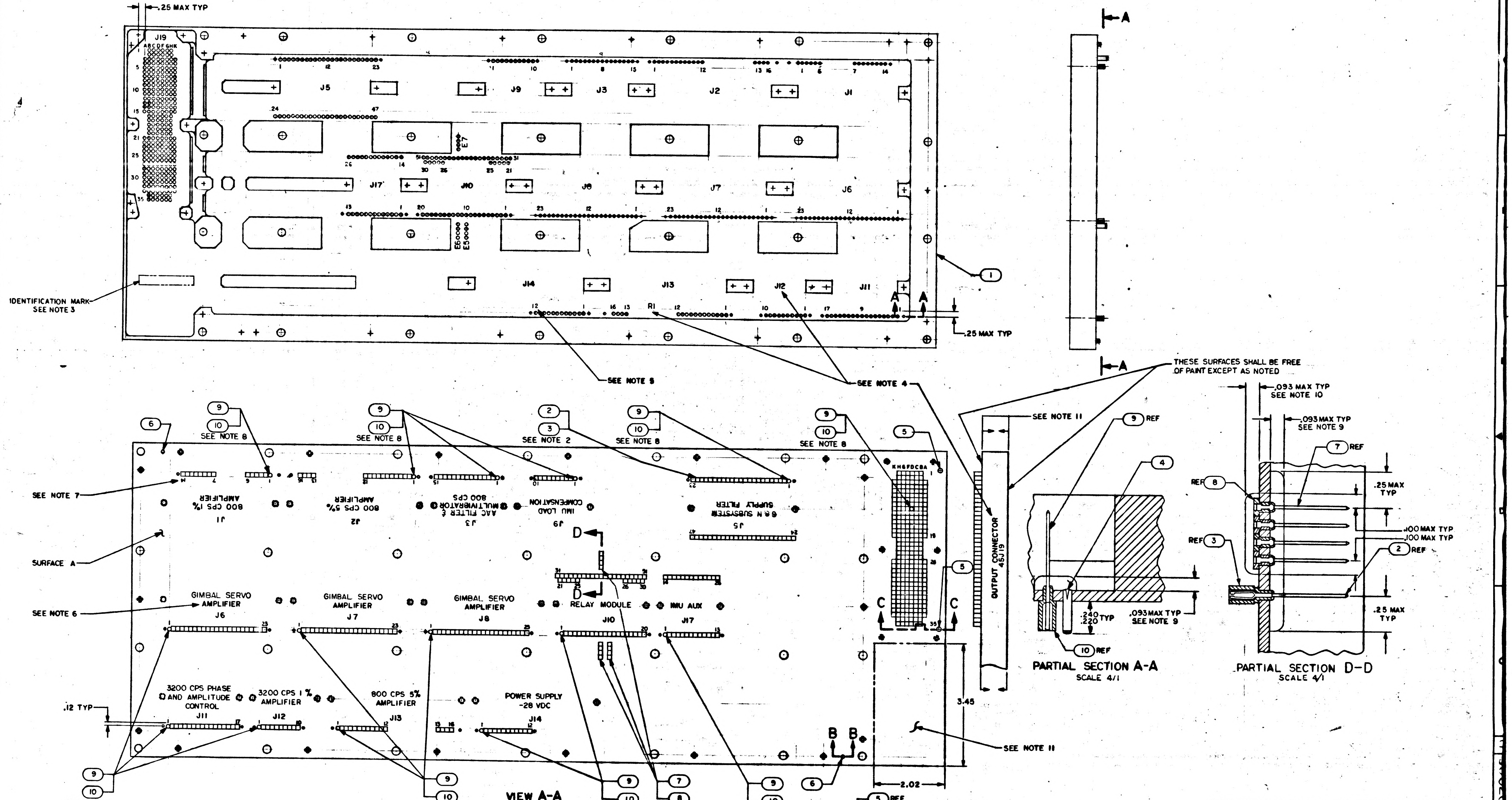
HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

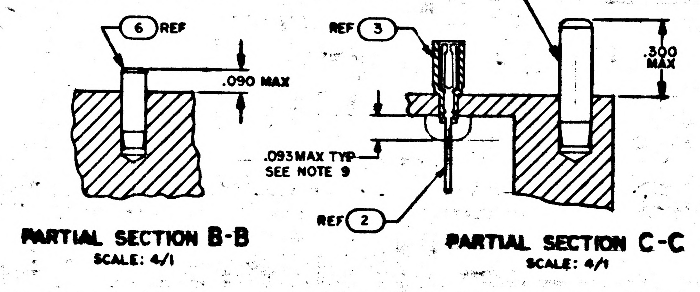
MASTER

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806			1 Oct 65	
B		REVISED PER TDRR 23754	KLH			
C		REVISED PER TDRR 24317				
D		REVISED PER TDRR 27150		TS	3/10/66	

REVISIONS 22612



.25 MAX TYP
J19
ABCDEFGHK
J5
J9
J3
J2
J1
E7
J17
J10
J8
J7
J6
E5
E3
J14
J13
J12
J11
R1
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
A
.25 MAX TYP
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
800 CPS 1% AMPLIFIER J1
800 CPS 5% AMPLIFIER J2
AC FILTER & MULTIVIBRATOR 800 CPS J3
IMU LOAD COMPENSATION J9
6 & N SUBSYSTEM SUPPLY FILTER J5
SURFACE A
D
SEE NOTE 6
GIMBAL SERVO AMPLIFIER J6
GIMBAL SERVO AMPLIFIER J7
GIMBAL SERVO AMPLIFIER J8
RELAY MODULE J10
IMU AUX J17
OUTPUT CONNECTOR 45J19
C
.12 TYP
3200 CPS PHASE AND AMPLITUDE CONTROL J11
3200 CPS 1% AMPLIFIER J12
800 CPS 5% AMPLIFIER J13
POWER SUPPLY -28 VDC J14
B
3.45
2.02
SEE NOTE 11
VIEW A-A
9 REF
4
10 REF
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
7 REF
REF 8
REF 3
2 REF
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1



6 REF
.090 MAX
PARTIAL SECTION B-B
SCALE: 4/1
REF 3
5 REF
.300 MAX
.093 MAX TYP SEE NOTE 9
REF 2
PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY PER ND1002019 WITH PART NUMBER AND SUFFIX "SUB ASSY"
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND 1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING ND1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING ND1006271-10 ON SURFACE A, NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO.7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	1008810-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	1010994-001	TERMINAL WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
28	1010620-7	PIN, GUIDE	4
550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1
-011			

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN H. Maloney 25/4/65
CHECKED 16/4/65
APPROVED
APPROVED 9/1/65
APPROVED MIT
APPROVED MSC 9/1/66
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
PSA LEM

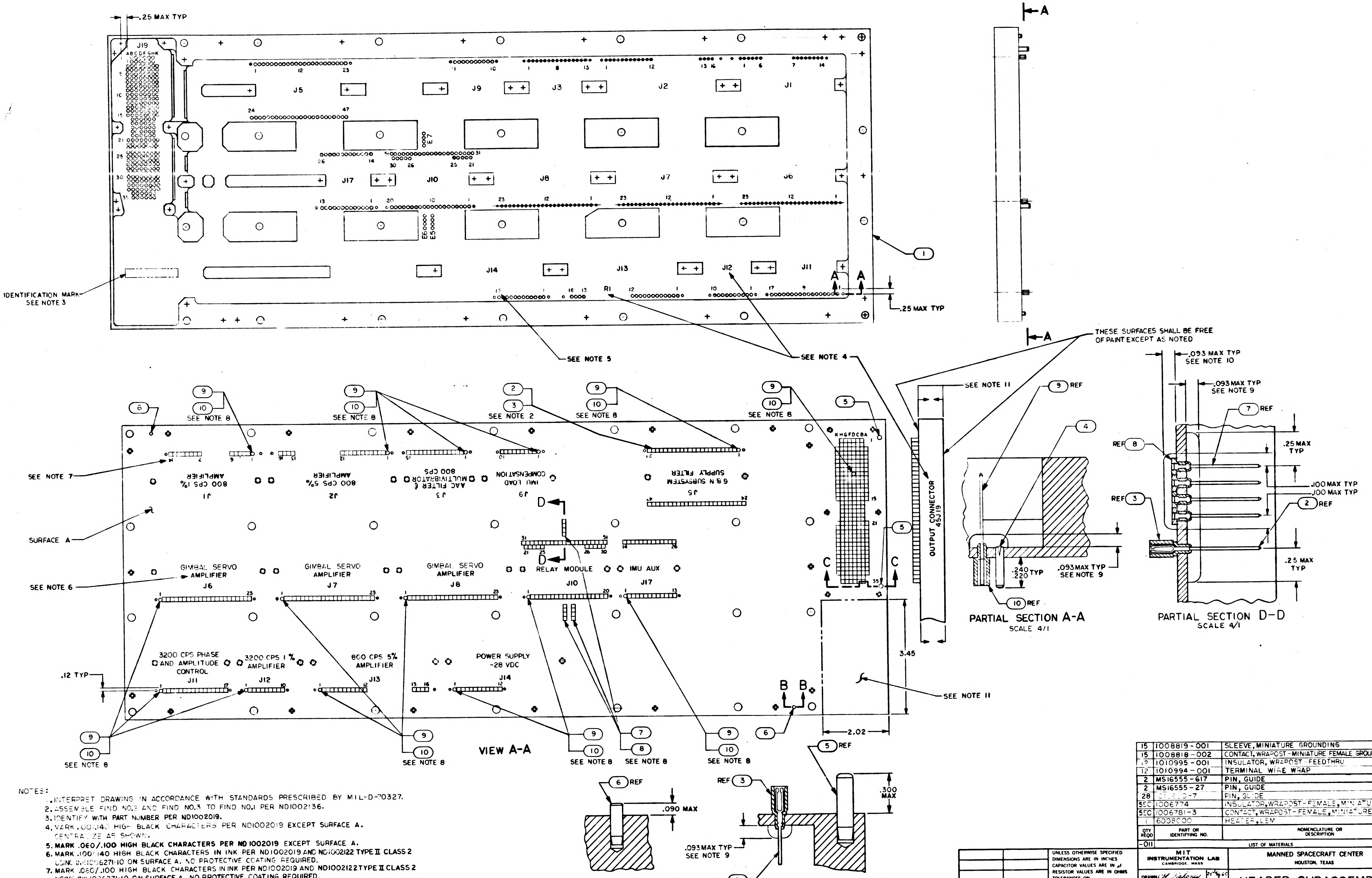
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

MASTER

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22212

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806				
B		REVISED PER TDRR 23754	KCh			
C		REVISED PER TDRR 24317				
D		REVISED PER TDRR 27150				
E		REVISED PER TDRR 27785				



.25 MAX TYP
J19
ABCDEFGHK
J5
J9
J3
J2
J1
J17
J10
J8
J7
J6
J14
J13
J12
J11
R1
E7
E6
E5
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
A
.25 MAX TYP
1
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
OUTPUT CONNECTOR 45J19
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
800 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
AAC FILTER & MULTIVIBRATOR 800 CPS
IMU LOAD COMPENSATION
6.8 N SUBSYSTEM SUPPLY FILTER
SURFACE A
SEE NOTE 6
GIMBAL SERVO AMPLIFIER
RELAY MODULE
IMU AUX
D
C
3200 CPS PHASE AND AMPLITUDE CONTROL
3200 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
POWER SUPPLY -28 VDC
.12 TYP
B
3.45
2.02
VIEW A-A
REF
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
.25 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1
.090 MAX
PARTIAL SECTION B-B
SCALE: 4/1
.300 MAX
PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO. 1 PER ND1002136.
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO. 1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO. 7 & 8 TO FIND NO. 1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	1010994-001	TERMINAL WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
28	[illegible]-7	PIN, GUIDE	4
55C	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
55C	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN H. Mahoney 25 Jun 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED D. Fett 7/1/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

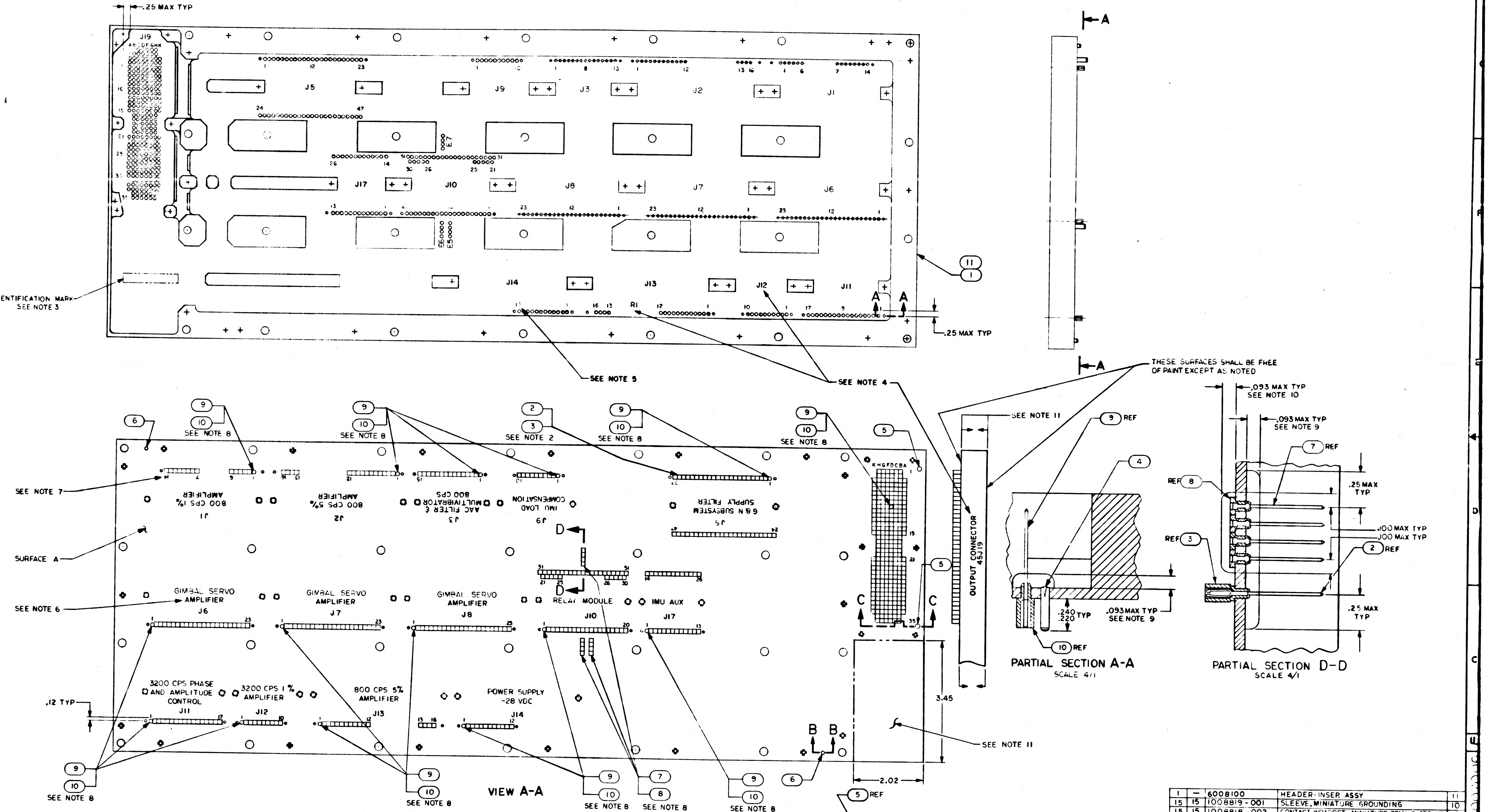
HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 4/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806				
B		REVISED PER TDRR 23754	KCH			
C		REVISED PER TDRR [illegible]17				
D		REVISED PER TDRR 27150				
E		REVISED PER TDRR 27785				
F		REVISED PER TDRR 27993				



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J19
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J2
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J17
J10
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J6
J14
J13
J12
J11
R1
E7
E6
E5
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
A
A
.25 MAX TYP
11
1
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
9 REF
4
OUTPUT CONNECTOR 45J19
10 REF
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
7 REF
REF 8
REF 3
2 REF
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
.25 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1
6
9
10
SEE NOTE 8
2
3
SEE NOTE 2
5
SEE NOTE 7
800 CPS 1% AMPLIFIER
J1
800 CPS 5% AMPLIFIER
J2
800 CPS AAC FILTER & MULTIVIBRATOR
J3
IMU LOAD COMPENSATION
J9
6.8 N SUBSYSTEM SUPPLY FILTER
J5
SURFACE A
D
D
C
C
SEE NOTE 6
GIMBAL SERVO AMPLIFIER
J6
GIMBAL SERVO AMPLIFIER
J7
GIMBAL SERVO AMPLIFIER
J8
RELAY MODULE
J10
IMU AUX
J17
.12 TYP
3200 CPS PHASE AND AMPLITUDE CONTROL
J11
3200 CPS 1% AMPLIFIER
J12
800 CPS 5% AMPLIFIER
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POWER SUPPLY -28 VDC
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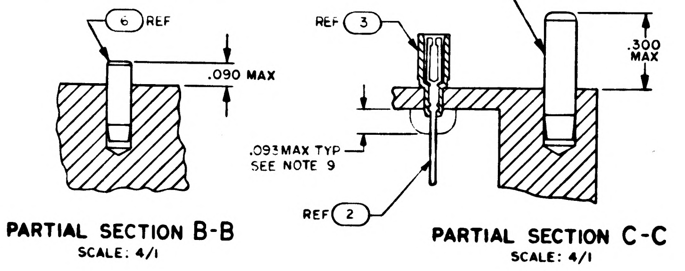
B
B
SEE NOTE 11
VIEW A-A
7
8



6 REF
.090 MAX
PARTIAL SECTION B-B
SCALE: 4/1
REF 3
.093 MAX TYP SEE NOTE 9
REF 2
5 REF
.300 MAX
PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND10020[illegible]9 EXCEPT SURFACE A.
   CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND 1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2
   USING INK1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND CO2019 AND ND1002122 TYPE II CLASS 2
   USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III
   SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO. 7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	6008100	HEADER-INSER ASSY	11
15	15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	12	1010994-001	TERMINAL WIRE WRAP	7
2	2	MS16555-617	PIN, GUIDE	6
2	2	MS16555-27	PIN, GUIDE	5
28	28	[illegible]-7	PIN, GUIDE	4
550	550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
—	1	6008000	HEADER, LEM	1
-021	-011			

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN W Mahoney 25 Jun 65
CHECKED Bonarrigo 16 Jun 65
APPROVED
APPROVED 7/1/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

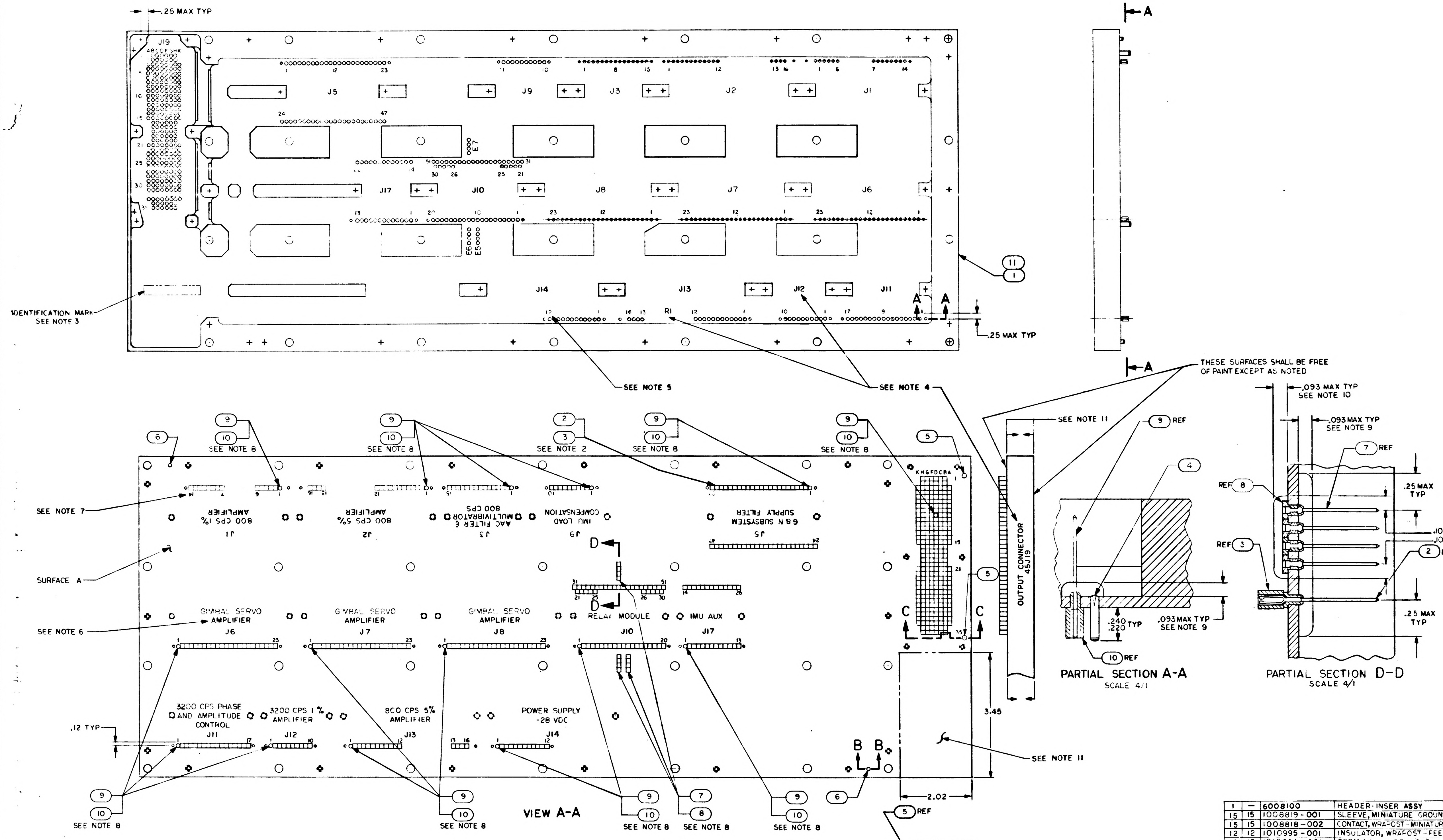
HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET OF

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS [illegible]

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806				
B		REVISED PER TDRR 23754	KCH			
C		REVISED PER TDRR 24317				
D		REVISED PER TDRR 27150				WR
E		REVISED PER TDRR 27785		C7P		
F		REVISED PER TDRR 27933				
G		REVISED PER TDRR 28663		CP		



.25 MAX TYP
J19
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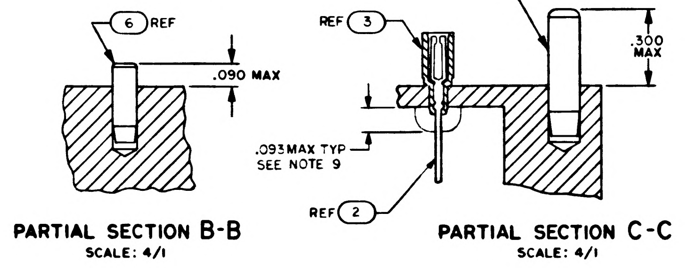
J12
J11
E7
E6
E5
R1
A
A
.25 MAX TYP
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
11
1
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
SEE NOTE 11
9 REF
4
7 REF
REF 8
REF 3
2 REF
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
.25 MAX TYP
.240
.220 TYP
.093 MAX TYP SEE NOTE 9
10 REF
PARTIAL SECTION A-A
SCALE 4/1
PARTIAL SECTION D-D
SCALE 4/1
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SEE NOTE 6
SURFACE A
800 CPS 1% AMPLIFIER J1
800 CPS 5% AMPLIFIER J2
AAC FILTER & MULTIVIBRATOR 800 CPS J3
IMU LOAD COMPENSATION J9
6.8 N SUBSYSTEM SUPPLY FILTER J5
D
D
GIMBAL SERVO AMPLIFIER J6
GIMBAL SERVO AMPLIFIER J7
GIMBAL SERVO AMPLIFIER J8
RELAY MODULE J10
IMU AUX J17
KHGFDCBA
OUTPUT CONNECTOR 45J19
C
C
5
6
3.45
2.02
SEE NOTE 11
.12 TYP
3200 CPS PHASE AND AMPLITUDE CONTROL J11
3200 CPS 1% AMPLIFIER J12
800 CPS 5% AMPLIFIER J13
POWER SUPPLY -28 VDC J14
B
B
VIEW A-A



5 REF
6 REF
.090 MAX
REF 3
.300 MAX
.093 MAX TYP SEE NOTE 9
REF 2

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. PREPARE DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .060/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO. 9 AND FIND NO. 10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO. 2,3,4,7,8 9AND10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO. 7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND1002289 ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	6008100	HEADER-INSER ASSY	11
15	15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	12	1010994-001	TERMINAL WIRE WRAP	7
2	2	MS16555-617	PIN, GUIDE	6
2	2	MS16555-27	PIN, GUIDE	5
28	28	[illegible]-7	PIN, GUIDE	4
550	550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
—	1	6008000	HEADER, LEM	1
-021	-011	LIST OF MATERIALS		

6007C03	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN H. Mahoney 25 June 65
CHECKED Bonanfiga 16 July 65
APPROVED
APPROVED D. Test SB 7/1/65
APPROVED MIT W Crufer 21 Jul 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

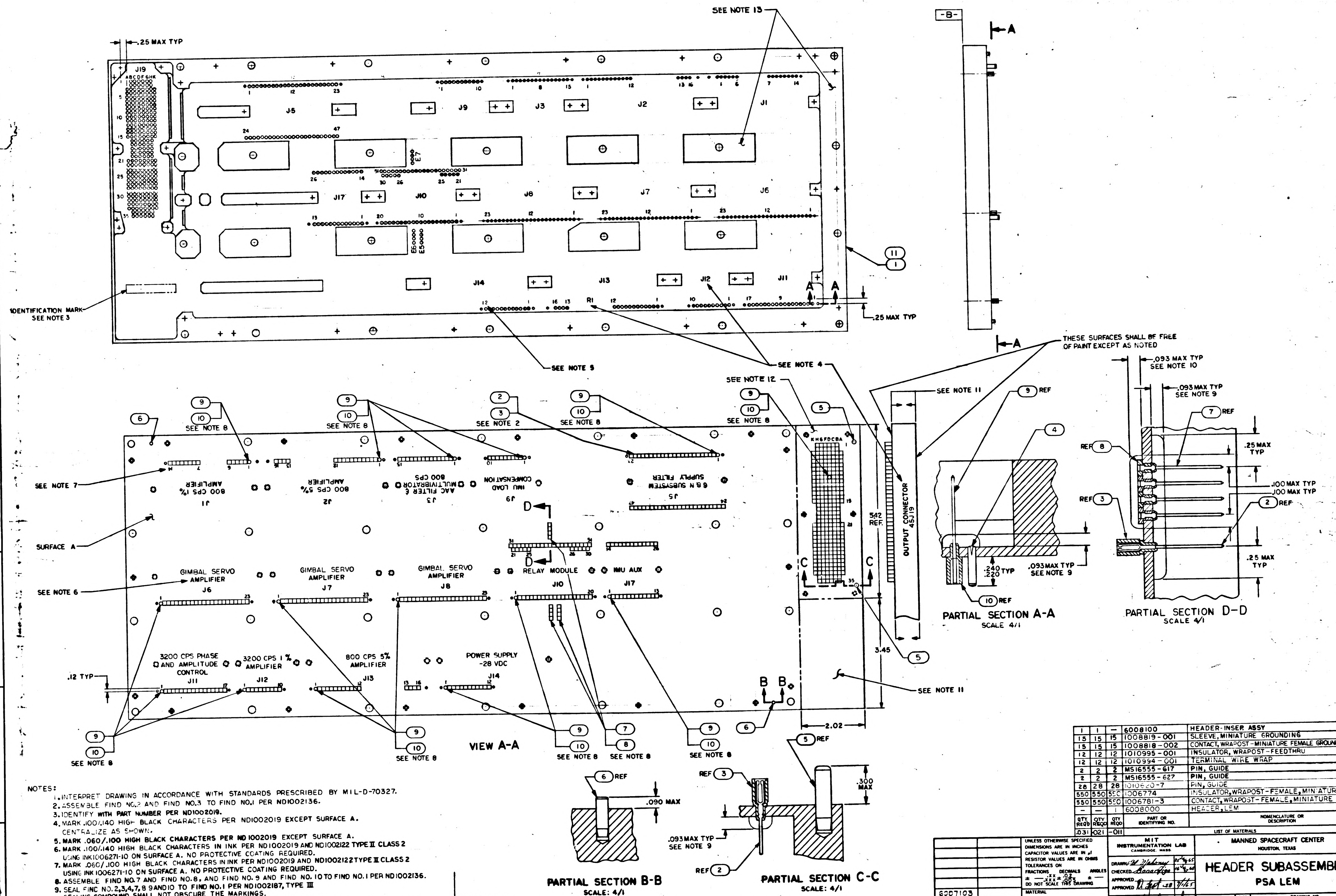
HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET | OF

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22612

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		REVISED PER TDRR 22806					
B		REVISED PER TDRR 23754	KCH				
C		REVISED PER TDRR 24317					
D		REVISED PER TDRR 27150					
E		REVISED PER TDRR 27785		CW	APR 66		
F		REVISED PER TDRR 27993	RW		APR 66		
G		REVISED PER TDRR 28664	JK	CP			
H		REVISED PER TDRR 31168	ME		9-27-66		
J		REVISED PER TDRR 31194	ME		9-29-66		



SEE NOTE 13
.25 MAX TYP
J19
J5
J9
J3
J2
J1
J17
J10
J8
J7
J6
J14
J13
J12
J11
R1
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
-B-
A
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
SEE NOTE 12
SEE NOTE 11
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SEE NOTE 6
SURFACE A
800 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
AAC FILTER & MULTIVIBRATOR 800 CPS
IMU LOAD COMPENSATION
6.8 V SUBSYSTEM SUPPLY FILTER
GIMBAL SERVO AMPLIFIER
RELAY MODULE
IMU AUX
3200 CPS PHASE AND AMPLITUDE CONTROL
3200 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
POWER SUPPLY -28 VDC
OUTPUT CONNECTOR 45J19
.542 REF.
3.45
2.02
.12 TYP
VIEW A-A
PARTIAL SECTION A-A
SCALE 4/1
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION D-D
SCALE 4/1
.25 MAX TYP
.100 MAX TYP
.25 MAX TYP
REF
.090 MAX
.093 MAX TYP SEE NOTE 9
.300 MAX

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO.9 AND FIND NO.10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO.2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO.7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN
12. PAINT 5.42 (REF) LONG AREA, EXCEPT -021 AND -011 CONFIGURATION, PER ND 1002289, TYPE II PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA, UNDER FIND NUMBERS 5 AND 10 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.

NOTES CONT:

13. PAINT SURFACE B AND VERTICAL SURFACES FROM .10 TO .20 IMMEDIATELY BELOW SURFACE B, EXCEPT THE -021 AND -011 CONFIGURATIONS AND SURFACES OTHERWISE SPECIFIED, WITH ZINC CHROMATE PRIMER MIL-P-8585 AND 1012543-003 PAINT PER ND 1002291, TYPE III. MAXIMUM DRY FILM TOTAL THICKNESS OF .002 INCH REQUIRED ON SURFACE B ONLY.

QTY REQ'D	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1	—	6008100	HEADER-INSER ASSY	11
15	15	15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	15	15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	12	12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	12	12	1010994-001	TERMINAL WIRE WRAP	7
2	2	2	MS16555-617	PIN, GUIDE	6
2	2	2	MS16555-627	PIN, GUIDE	5
28	28	28	1010620-7	PIN, GUIDE	4
550	550	550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	550	550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
—	—	1	6008000	HEADER, LEM	1
.031	-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007103	
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

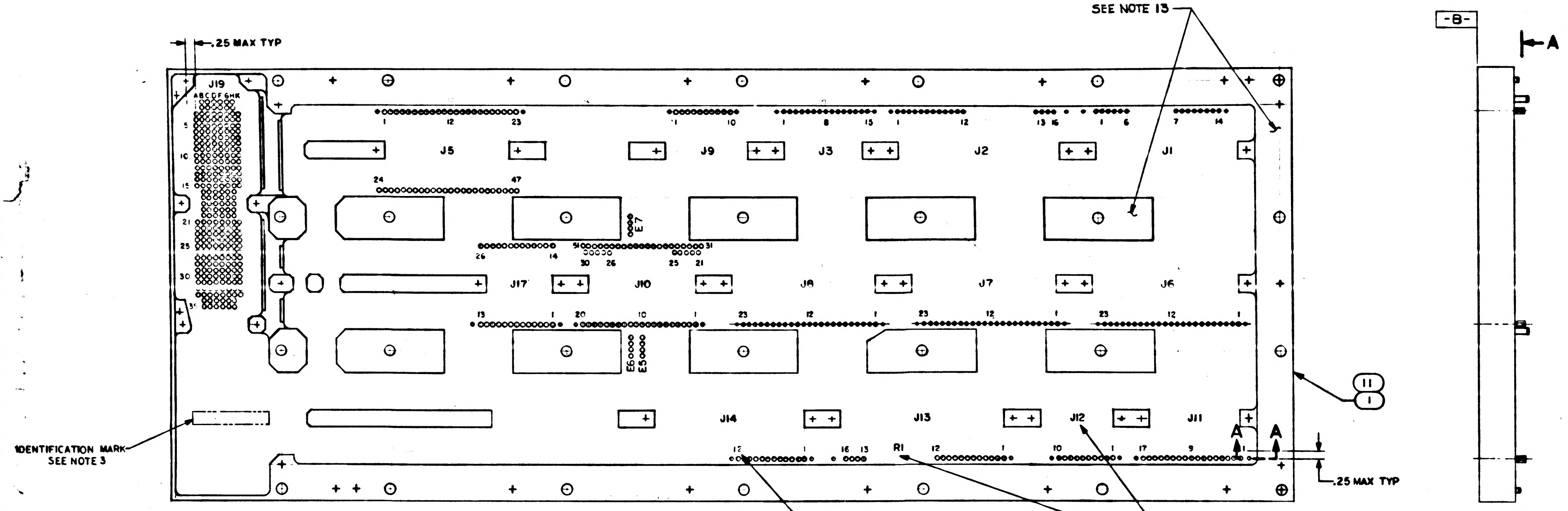
DRAWN W Maloney 25 Jun 65
CHECKED Bonacfigo 16 Jun 65
APPROVED
APPROVED 7/1/65
APPROVED MIT
APPROVED MSC
DATE

HEADER SUBASSEMBLY
PSA LEM

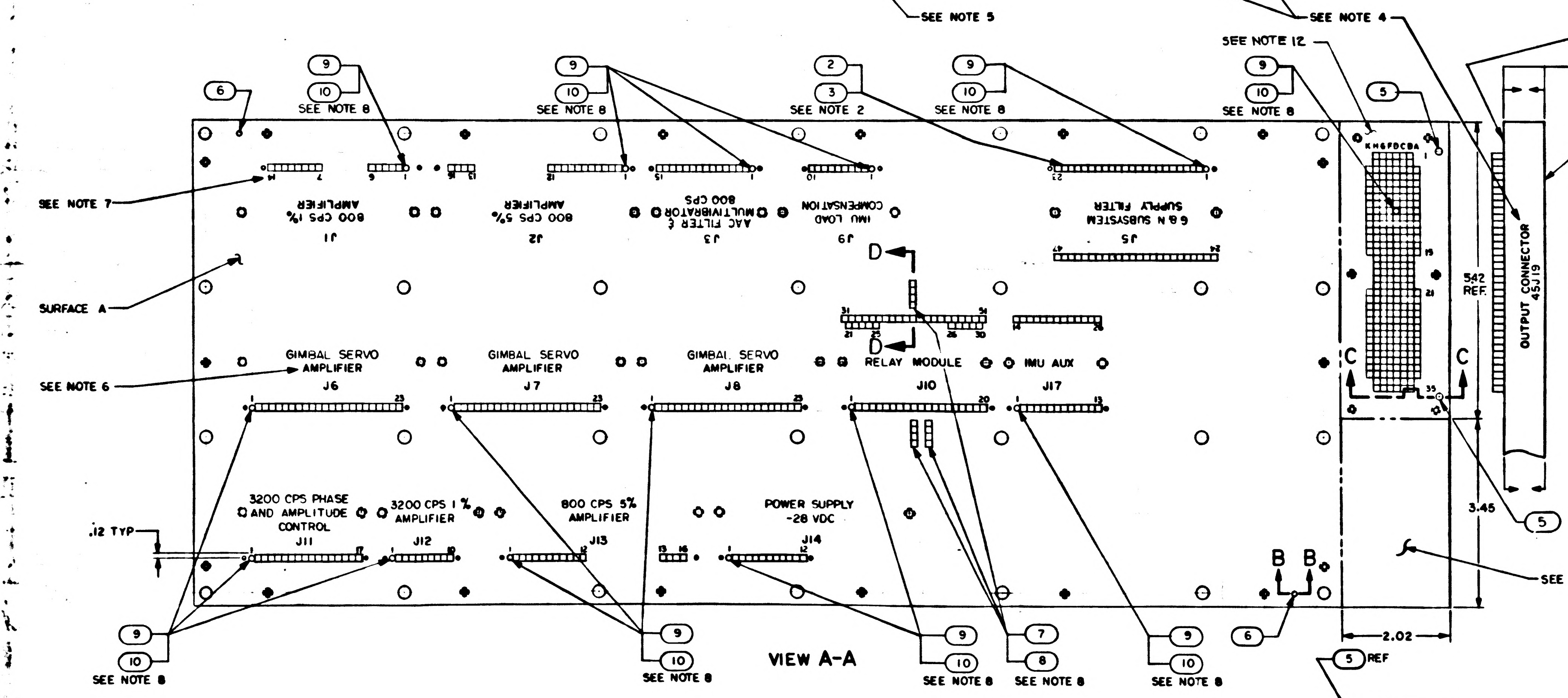
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22612						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22806				
B		REVISED PER TDRR 23754	KCH			
C		REVISED PER TDRR 24317				
D		REVISED PER TDRR 27150				
E		REVISED PER TDRR 27785		CJP		
F		REVISED PER TDRR 27993	RJJ			
G		REVISED PER TDRR 28664	JK	CP		
H		REVISED PER TDRR 31168	ME			
J		REVISED PER TDRR 31194	ME			
K		REVISED PER TDRR 35820	JRK			

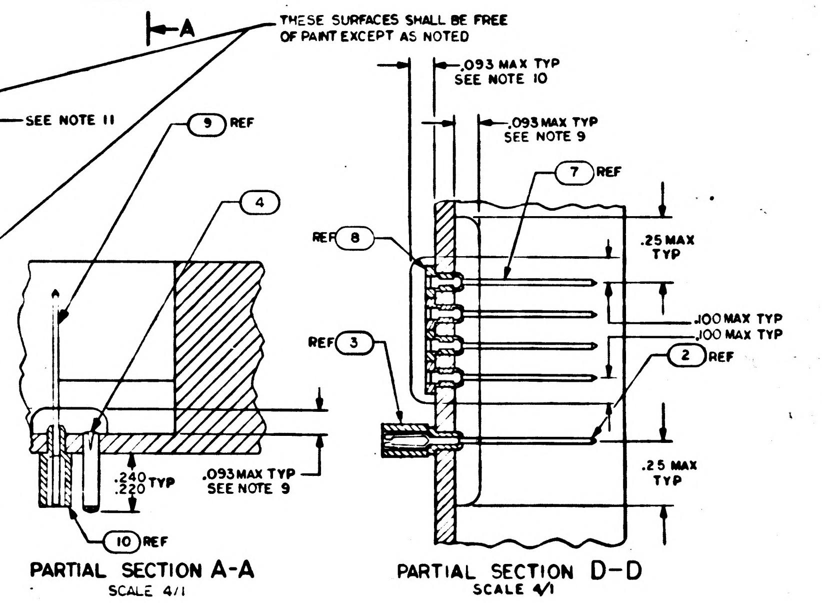


SEE NOTE 13
.25 MAX TYP
J19
ABCDEFGHK
J5
J9
J3
J2
J1
J17
J10
J8
J7
J6
J14
J13
J12
J11
E7
E5
E3
R1
IDENTIFICATION MARK SEE NOTE 3
-B-
A
A
.25 MAX TYP
11
1



SEE NOTE 5
SEE NOTE 4
SEE NOTE 12
SEE NOTE 11
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SURFACE A
SEE NOTE 6
800 CPS 1% AMPLIFIER
J1
800 CPS 5% AMPLIFIER
J2
AAC FILTER & MULTIVIBRATOR 800 CPS
J3
IMU LOAD COMPENSATION
J9
6 & N SUBSYSTEM SUPPLY FILTER
J5
D
D
GIMBAL SERVO AMPLIFIER
J6
GIMBAL SERVO AMPLIFIER
J7
GIMBAL SERVO AMPLIFIER
J8
RELAY MODULE
J10
IMU AUX
J17
3200 CPS PHASE AND AMPLITUDE CONTROL
J11
3200 CPS 1% AMPLIFIER
J12
800 CPS 5% AMPLIFIER
J13
POWER SUPPLY -28 VDC
J14
.12 TYP
B
B
C
C
OUTPUT CONNECTOR 45J19
.542 REF.
3.45
2.02
SEE NOTE 11

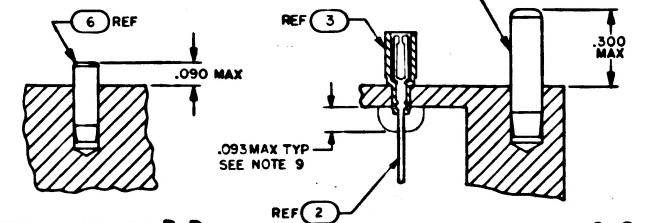
VIEW A-A



THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
9 REF
4
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
10 REF
5
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
7 REF
REF 8
REF 3
.25 MAX TYP
.100 MAX TYP
.100 MAX TYP
2 REF
.25 MAX TYP

PARTIAL SECTION A-A
SCALE 4/1

PARTIAL SECTION D-D
SCALE 4/1



6 REF
.090 MAX
REF 3
.093 MAX TYP SEE NOTE 9
REF 2
5 REF
.300 MAX

PARTIAL SECTION B-B
SCALE: 4/1

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO.9 AND FIND NO.10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO.2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO.7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN
12. PAINT 3.42 REF. [illegible] AREA, EXCEPT -021 AND -011 CONFIGURATION, PER ND 1002289, TYPE II PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA UNDER FIND NUMBERS 9 AND 10 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.

NOTES CONT:

13. PAINT SURFACE B AND VERTICAL SURFACES FROM .10 TO .20 IMMEDIATELY BELOW SURFACE B, EXCEPT THE -021 AND -011 CONFIGURATIONS AND SURFACES OTHERWISE SPECIFIED, WITH ZINC CHROMATE PRIMER 1008952 AND 1012543-003 PAINT PER ND 1002291, TYPE III. MAXIMUM DRY FILM TOTAL THICKNESS OF .002 INCH REQUIRED ON SURFACE B ONLY.

1	1	—	6008100	HEADER-INSER ASSY	11
15	15	15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	15	15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	12	12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	12	12	1010994-001	TERMINAL WIRE WRAP	7
2	2	2	MS16555-617	PIN, GUIDE	6
2	2	2	MS16555-627	PIN, GUIDE	5
28	28	28	[illegible]-7	PIN, GUIDE	4
550	550	550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	550	550	1006775-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
—	—	1	6008000	HEADER, LEM	1
QTY REQ'D	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-031	-021	-011	LIST OF MATERIALS		

6007103	
6007003	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN W. Mahoney 25 Jan 65
CHECKED Bonaccorso 16 Jan 65
APPROVED
APPROVED D. Hoag 7/1/65
APPROVED MIT
APPROVED MSC
DATE

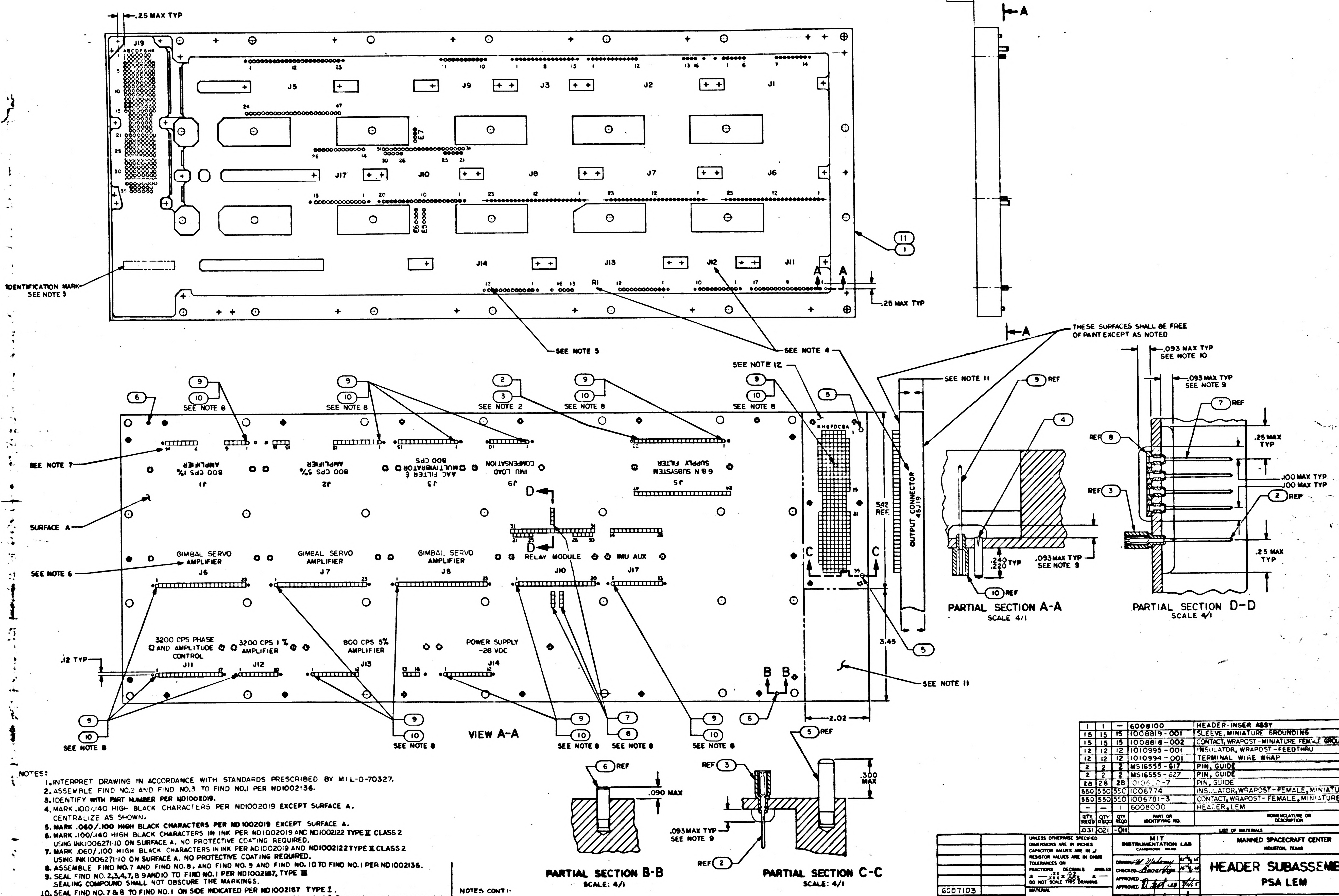
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

REVISIONS 22612

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		REVISED PER TDRR 22806					
B		REVISED PER TDRR 23754	KCH				
C		REVISED PER TDRR 24317					
D		REVISED PER TDRR 27150					
E		REVISED PER TDRR 27786		CJP			
F		REVISED PER TDRR 27993	RJJ				
G		REVISED PER TDRR 28664	JR	CP			
H		REVISED PER TDRR 31168	MB				
J		REVISED PER TDRR 31194	MF				
K		REVISED PER TDRR 35820	JRK				
L		REVISED PER TDRR 36683	JAL				


-B-
A
.25 MAX TYP
J19
ABCDEFGHK
J5
J9
J3
J2
J1
E7
J17
J10
J8
J7
J6
E6
E5
J14
J13
J12
J11
R1
11
1
IDENTIFICATION MARK SEE NOTE 3
SEE NOTE 5
SEE NOTE 4
SEE NOTE 12
THESE SURFACES SHALL BE FREE OF PAINT EXCEPT AS NOTED
SEE NOTE 11
SEE NOTE 8
SEE NOTE 2
SEE NOTE 7
SEE NOTE 6
SURFACE A
800 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
AAC FILTER & MULTIVIBRATOR 800 CPS
IMU LOAD COMPENSATION
6 & N SUBSYSTEM SUPPLY FILTER
GIMBAL SERVO AMPLIFIER
RELAY MODULE
IMU AUX
3200 CPS PHASE AND AMPLITUDE CONTROL
3200 CPS 1% AMPLIFIER
800 CPS 5% AMPLIFIER
POWER SUPPLY -28 VDC
OUTPUT CONNECTOR 45/19
.542 REF
3.45
2.02
.12 TYP
D
C
B
VIEW A-A
.240 .220 TYP
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION A-A
SCALE 4/1
.093 MAX TYP SEE NOTE 10
.093 MAX TYP SEE NOTE 9
REF
.25 MAX TYP
.100 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1
.090 MAX
PARTIAL SECTION B-B
SCALE: 4/1
.300 MAX
.093 MAX TYP SEE NOTE 9
PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136.
3. IDENTIFY WITH PART NUMBER PER ND1002019.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING REQUIRED.
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO.9 AND FIND NO.10 TO FIND NO.1 PER ND1002136.
9. SEAL FIND NO. 2,3,4,7,8 9 AND 10 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
10. SEAL FIND NO.7 & 8 TO FIND NO.1 ON SIDE INDICATED PER ND1002187 TYPE I.
11. PAINT EDGE SURFACES PER ND1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN
12. PAINT 5.42 (REF) LONG AREA, EXCEPT -021 AND -011 CONFIGURATION, PER ND 1002289, TYPE II PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA UNDER FIND NUMBERS 5 AND 10 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.

NOTES CONT:
13.

1	1	—	6008100	HEADER-INSER ASSY	11
15	15	15	1008819-001	SLEEVE, MINIATURE GROUNDING	10
15	15	15	1008818-002	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	9
12	12	12	1010995-001	INSULATOR, WRAPOST-FEEDTHRU	8
12	12	12	1010994-001	TERMINAL WIRE WRAP	7
2	2	2	MS16555-617	PIN, GUIDE	6
2	2	2	MS16555-627	PIN, GUIDE	5
28	28	28	1010620-7	PIN, GUIDE	4
550	550	550	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
550	550	550	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
—	—	1	6008000	HEADER, LEM	1
QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-031	-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007103	
6007003	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN W Maloney 25 65
CHECKED Bonaduce 65
APPROVED
APPROVED 7/1/65
APPROVED MIT
APPROVED MSC
DATE

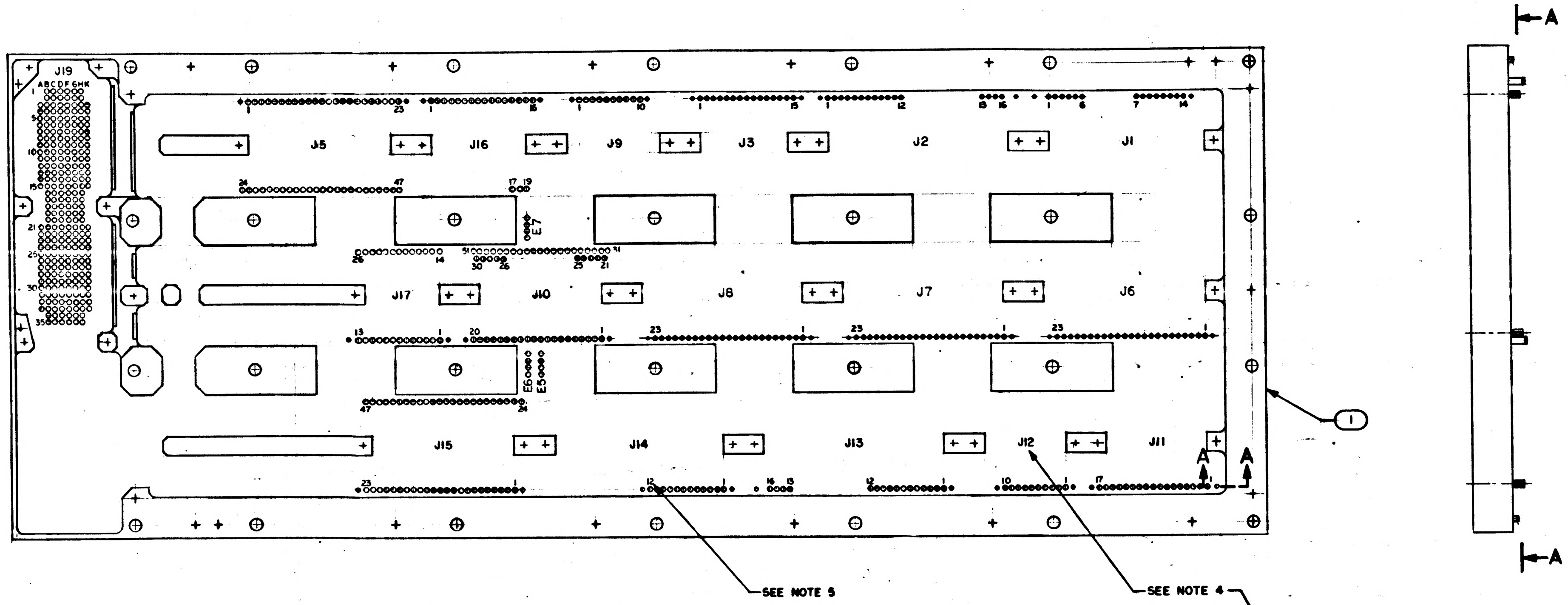
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

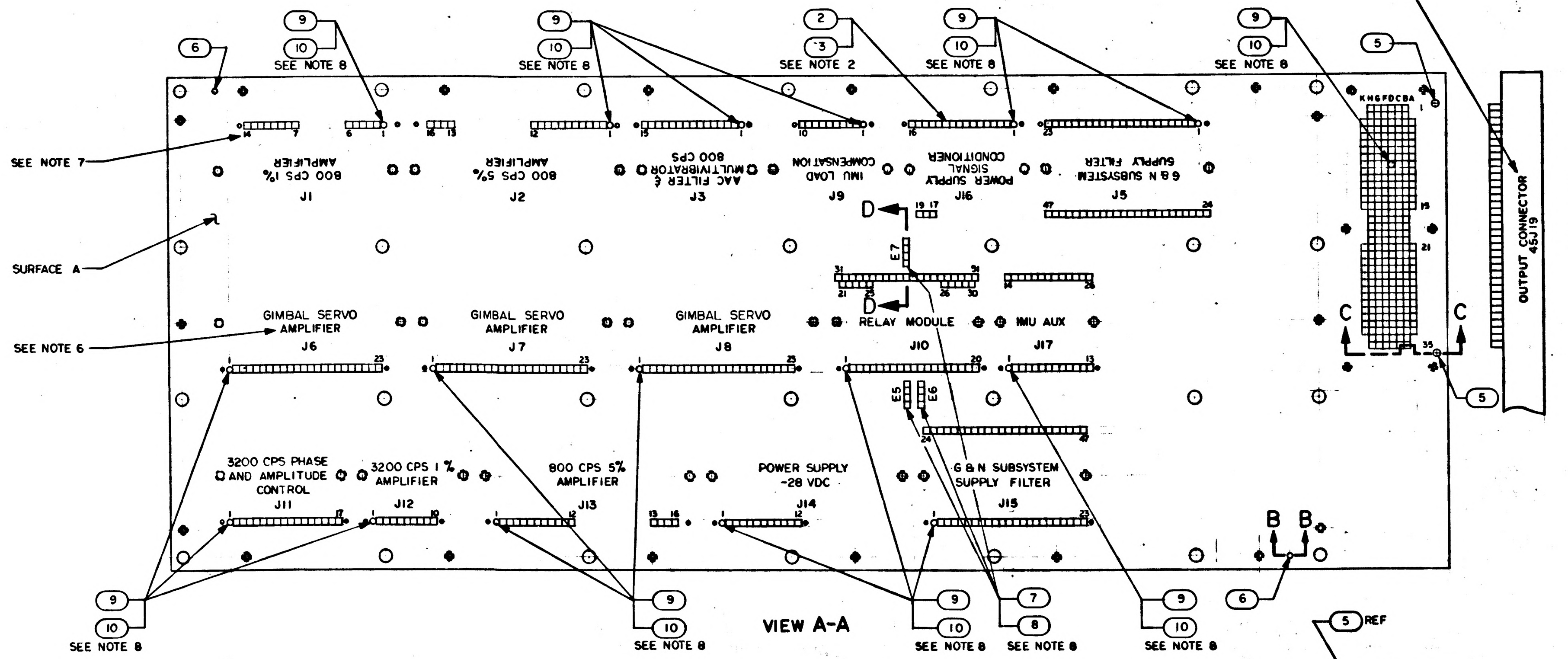
HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007006
SCALE 1/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22612						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


J19
J5
J16
J9
J3
J2
J1
J17
J10
J8
J7
J6
J15
J14
J13
J12
J11
E7
E6
E5
1
A
A
A–A
A–A
SEE NOTE 5
SEE NOTE 4


800 CPS 1% AMPLIFIER J1
800 CPS 5% AMPLIFIER J2
AAC FILTER & MULTIVIBRATOR 800 CPS J3
IMU LOAD COMPENSATION J9
POWER SUPPLY SIGNAL CONDITIONER J16
G & N SUBSYSTEM SUPPLY FILTER J5
GIMBAL SERVO AMPLIFIER J6
GIMBAL SERVO AMPLIFIER J7
GIMBAL SERVO AMPLIFIER J8
RELAY MODULE J10
IMU AUX J17
3200 CPS PHASE AND AMPLITUDE CONTROL J11
3200 CPS 1% AMPLIFIER J12
800 CPS 5% AMPLIFIER J13
POWER SUPPLY -28 VDC J14
G & N SUBSYSTEM SUPPLY FILTER J15
OUTPUT CONNECTOR 45J19
SEE NOTE 7
SURFACE A
SEE NOTE 6
SEE NOTE 8
SEE NOTE 2
D
D
C
C
B
B
E7
E5
E6
1
2
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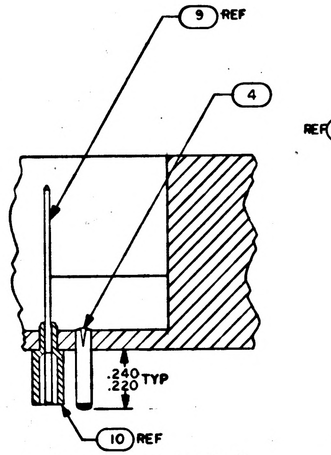
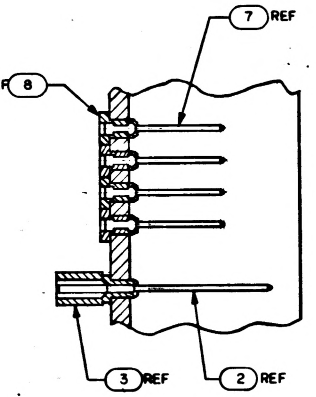
6
7
8
9
10

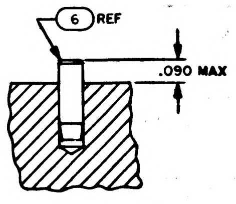
VIEW A-A


9 REF
4
10 REF
.240
.220 TYP

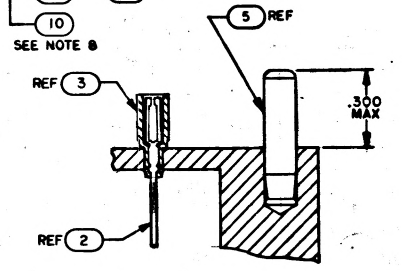
PARTIAL SECTION A-A
SCALE 4/1


7 REF
REF 8
3 REF
2 REF

PARTIAL SECTION D-D


6 REF
.090 MAX

PARTIAL SECTION B-B
SCALE: 4/1


REF 3
REF 2
5 REF
.300 MAX

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2 AND FIND NO.3 TO FIND NO.1 PER ND1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A. CENTRALIZE AS SHOWN
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT SURFACE A.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 ON SURFACE A. CENTRALIZE AS SHOWN. NO PROTECTIVE COATING REQUIRED
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 ON SURFACE A. NO PROTECTIVE COATING REQUIRED
8. ASSEMBLE FIND NO.7 AND FIND NO.8, AND FIND NO.9 AND FIND NO.10 TO FIND NO.1 PER ND1002136

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
16	1008819	SLEEVE, MINIATURE GROUNDING	10
16	1008818-2	CONTACT, WRAPOST-MINIATURE FEMALE GROUND.	9
12	1010995	INSULATOR, WRAPOST--FEEDTHRU	8
12	1010994-	TERMINAL SINGLE ENDED WIRE WRAP	7
2	MS16555-617	PIN, GUIDE	6
2	MS16555-27	PIN, GUIDE	5
32	1010620-7	PIN, GUIDE	4
614	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
614	1006781-3	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008000	HEADER, LEM	1
-011	LIST OF MATERIALS		

6007006		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± — DO NOT SCALE THIS DRAWING	MATERIAL —
NEXT ASSY	USED ON		
APPLICATION			

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	W Maloney	25 Jun 65
CHECKED	Bonafige	16 Jun 65
APPROVED		
APPROVED	D Hoet 458	9/1/65
APPROVED MIT		
APPROVED MSC		9/1/6-
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
PSA LEM

CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007006
SCALE 1/1		SHEET 1 OF 1

MASTER

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21759

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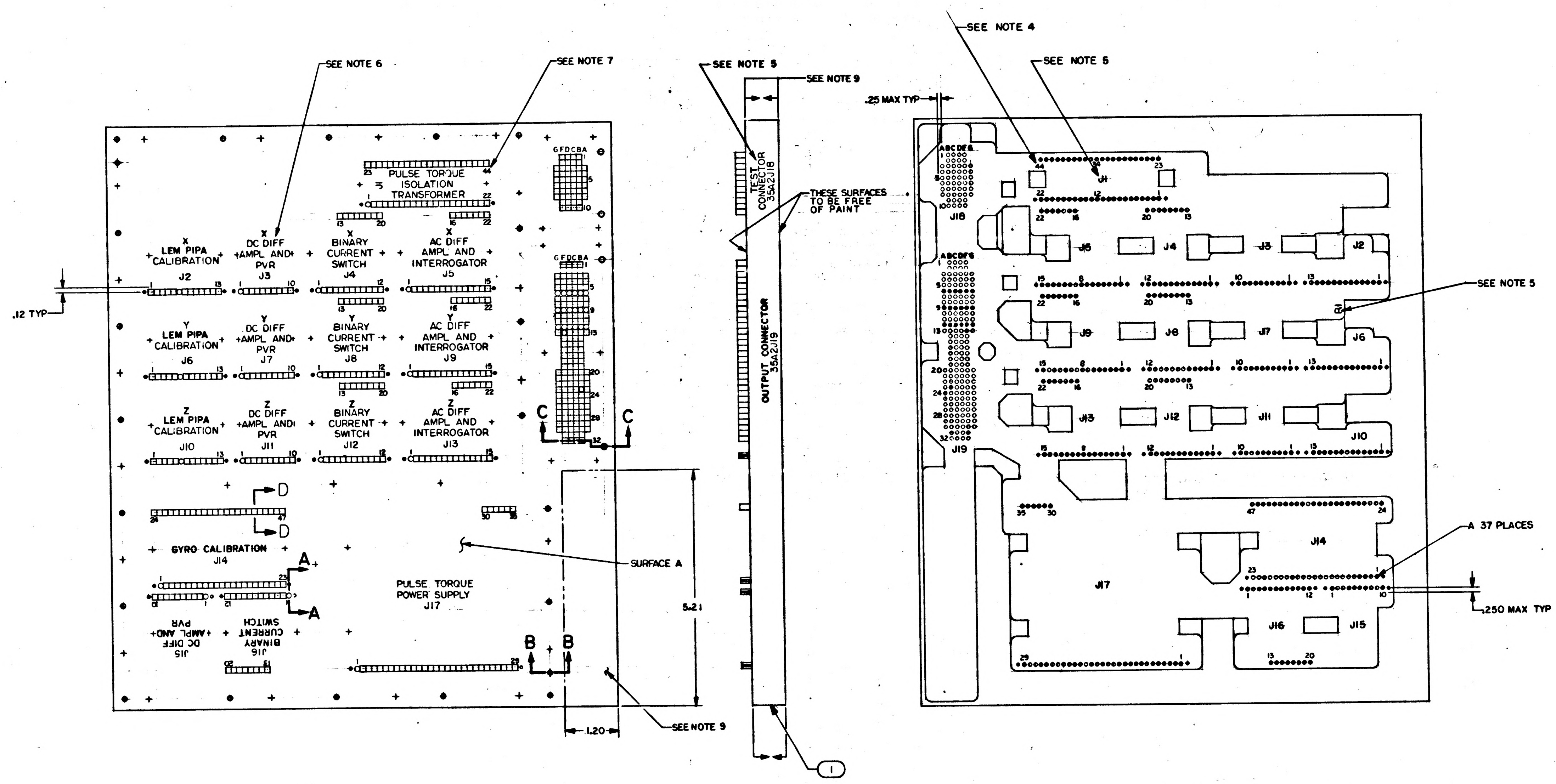
A		REVISED PER TDRR 22824			10Oct65	W


SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION TRANSFORMER
G F D C B A
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
.12 TYP
C
C
D
D
GYRO CALIBRATION J14
A
A
PULSE TORQUE POWER SUPPLY J17
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
B
B
SURFACE A
5.21
1.20
SEE NOTE 9
SEE NOTE 5
SEE NOTE 9
.25 MAX TYP
TEST CONNECTOR 35A2J18
THESE SURFACES TO BE FREE OF PAINT
OUTPUT CONNECTOR 35A2J19
1
SEE NOTE 4
SEE NOTE 5
A B C D E F G
J1
J18
J19
J2
J3
J4
J5
J6
J7
J8
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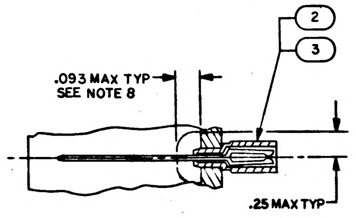
J10
J11
J12
J13
J14
J15
J16
J17
SEE NOTE 5
A 37 PLACES
.250 MAX TYP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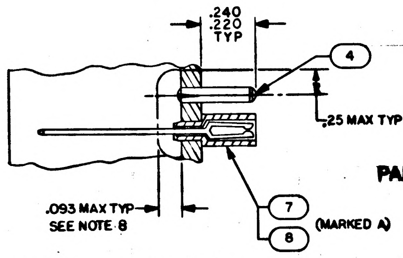
3
.093 MAX TYP SEE NOTE 8
.25 MAX TYP

PARTIAL SECTION D-D
SCALE 4/1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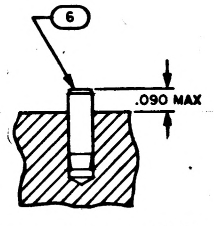
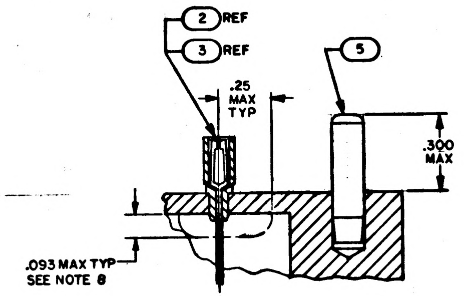
.220
TYP
4
.25 MAX TYP
.093 MAX TYP SEE NOTE 8
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP SEE NOTE 8

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.2, 3, 7, AND 8 TO FIND NO.1 PER ND 1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND 1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING
9. PAINT EDGES SURFACES PER ND ______ ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN

MASTER

QTY REQ'D	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	1008819	SLEEVE MINIATURE GROUNDING	8
37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	MS 16555-617	PIN, GUIDE	6
4	MS 16555-27	PIN, GUIDE	5
34	1010620-7	PIN, GUIDE	4
538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	6008001	HEADER	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007002	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —— DECIMALS .XXX ±.005 .XX ±.02 ANGLES ± ——
DO NOT SCALE THIS DRAWING
MATERIAL ——

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	B. Mahoney	23 JUN 65
CHECKED		
APPROVED		
APPROVED		8/23/65
APPROVED MIT	W Kupfer	
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

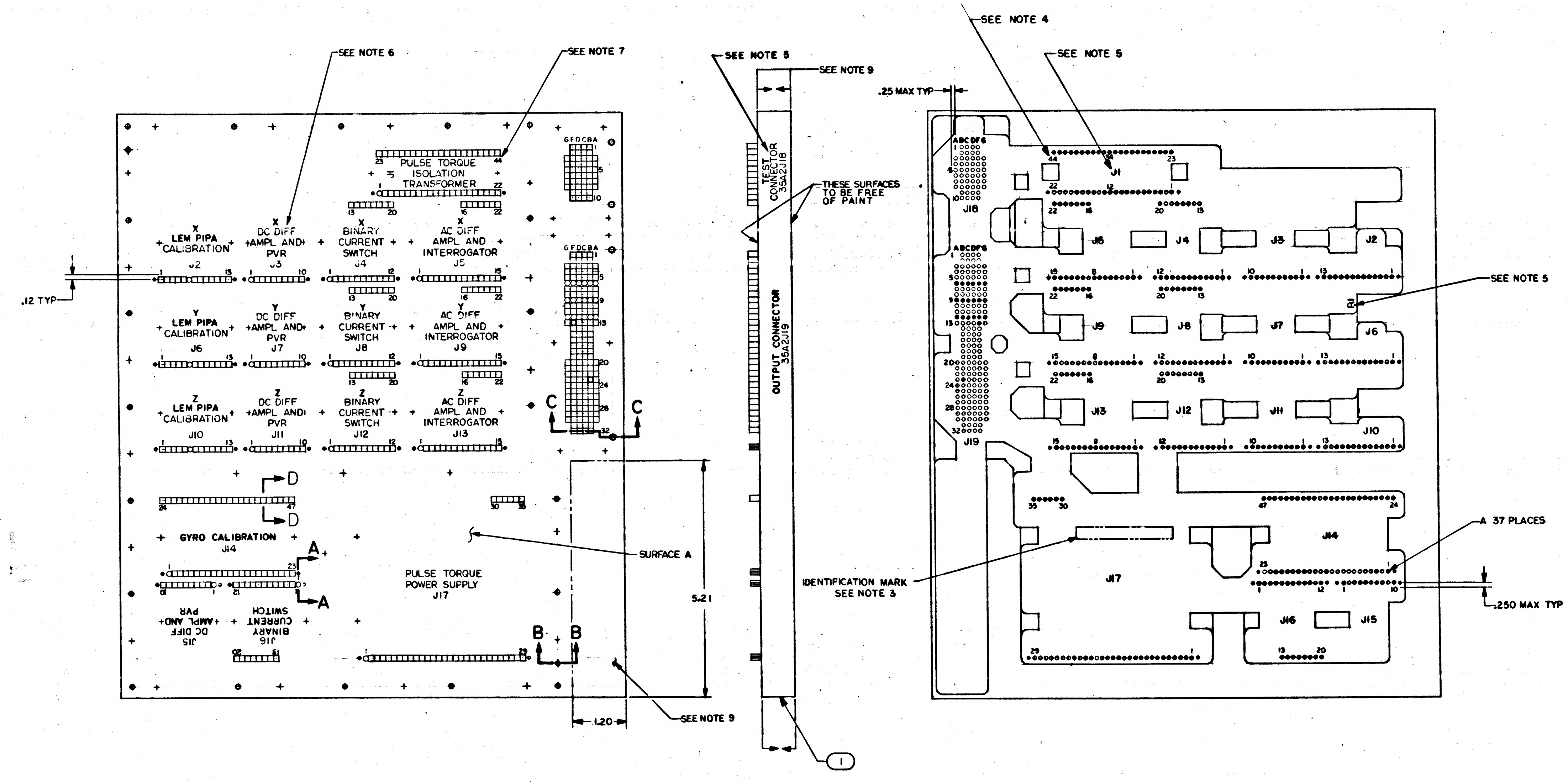
HEADER SUBASSEMBLY
PTA LEM

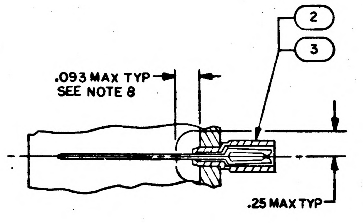
CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007007
SCALE 1/1		SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

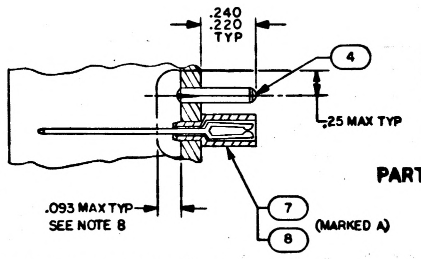
REVISIONS 21759

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22824			1 OCT 65	
B		REVISED PER TDRR 27149		LJB		


SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION TRANSFORMER
GFEDCBA
X LEM PIPA CALIBRATION J2
X DC DIFF +AMPL AND+ PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF +AMPL AND+ PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF +AMPL AND+ PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
.12 TYP
C
C
D
D
GYRO CALIBRATION J14
A
A
J15 DC DIFF +AMPL AND+ PVR
J16 BINARY CURRENT SWITCH
PULSE TORQUE POWER SUPPLY J17
SURFACE A
5.21
B
B
1.20
SEE NOTE 9
SEE NOTE 5
SEE NOTE 9
TEST CONNECTOR 35A2J18
THESE SURFACES TO BE FREE OF PAINT
OUTPUT CONNECTOR 35A2J19
1
.25 MAX TYP
SEE NOTE 4
SEE NOTE 5
J18
J1
J6
J4
J3
J2
SEE NOTE 5
J9
J8
J7
J6
J13
J12
J11
J10
J19
J14
A 37 PLACES
IDENTIFICATION MARK SEE NOTE 3
J17
J16
J15
.250 MAX TYP


2
3
.093 MAX TYP
SEE NOTE 8
.25 MAX TYP

PARTIAL SECTION D-D
SCALE 4/1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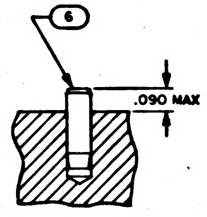
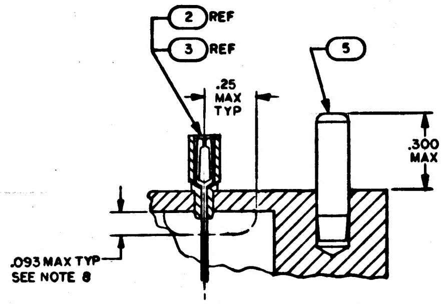
.220
TYP
4
.25 MAX TYP
.093 MAX TYP
SEE NOTE 8
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP
SEE NOTE 8

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2, 3, 7, AND 8 TO FIND NO. 1 PER ND 1002136.
3. IDENTIFY PER ND1002019 WITH PART NUMBER AND SUFFIX "SUB ASSY"
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2, 3, 4, 7 AND 8 TO FIND NO. 1 PER ND 1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND ______ . ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	1008819	SLEEVE MINIATURE GROUNDING	8
37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	MS 16555-617	PIN, GUIDE	6
4	MS 16555-27	PIN, GUIDE	5
34	1010620-7	PIN, GUIDE	4
538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	6008001	HEADER	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —— DECIMALS .XXX ±.005 .XX ±.02 ANGLES ± ——
DO NOT SCALE THIS DRAWING

MATERIAL ——

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 23 AUG 65
CHECKED
APPROVED
APPROVED 8/23/65
APPROVED MIT
APPROVED MSC
DATE

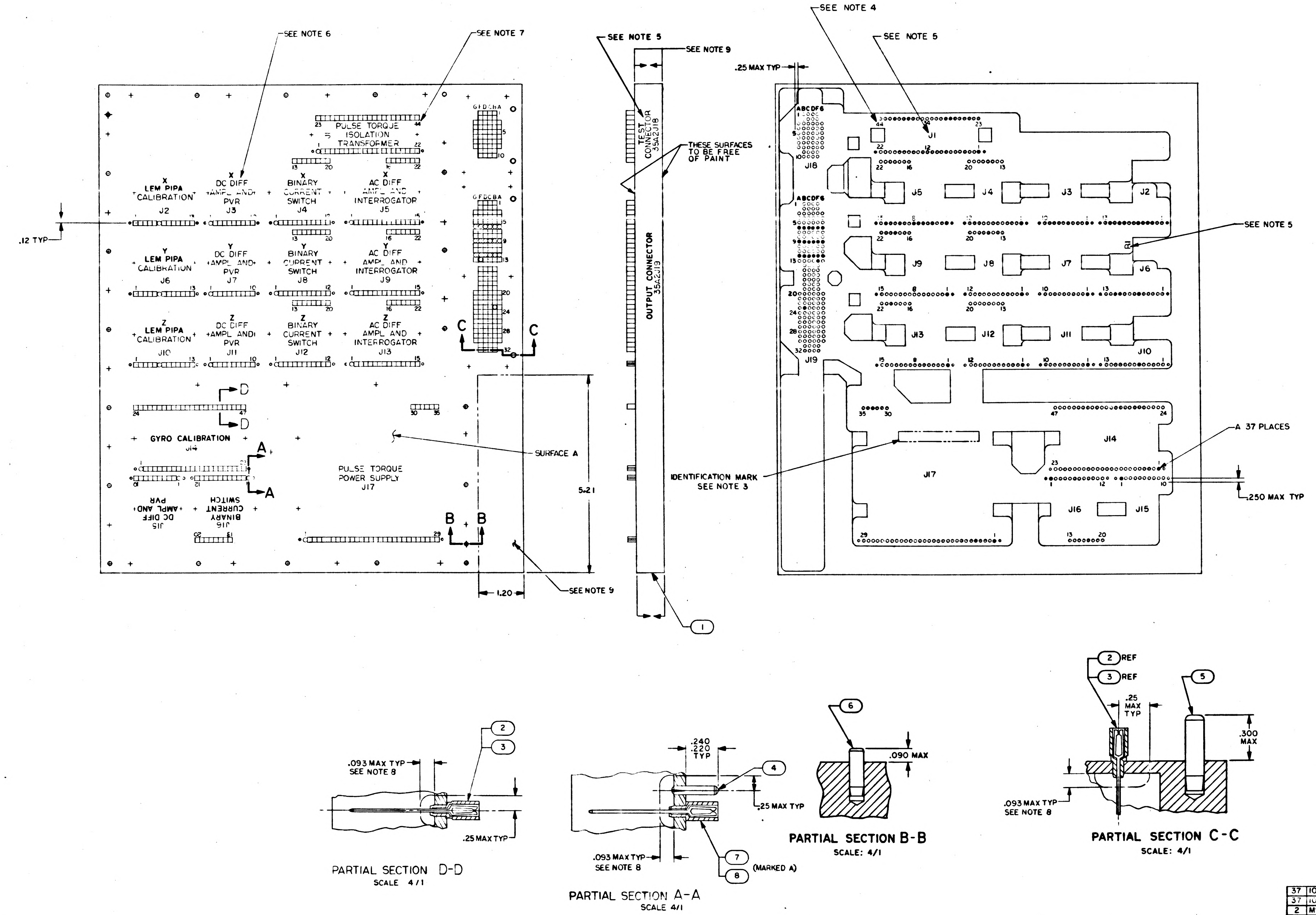
HEADER SUBASSEMBLY
PTA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21759

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22824	HWP			
B		REVISED PER TDRR 27149		LJ3		
C		REVISED PER TDRR 27787	JHp		3 APR 66	


SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION TRANSFORMER
5
23
44
1
22
13
20
16
GFEDCBA
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
.12 TYP
C
C
D
D
GYRO CALIBRATION J14
A
A
PULSE TORQUE POWER SUPPLY J17
SURFACE A
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
B
B
5.21
1.20
SEE NOTE 9
SEE NOTE 5
SEE NOTE 9
.25 MAX TYP
TEST CONNECTOR 35A2J18
THESE SURFACES TO BE FREE OF PAINT
OUTPUT CONNECTOR 35A2J19
1
SEE NOTE 4
SEE NOTE 5
ABCDEFG
J18
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J19
SEE NOTE 5
R1
A 37 PLACES
.250 MAX TYP
IDENTIFICATION MARK SEE NOTE 3
2 REF
3 REF
5
.25 MAX TYP
.300 MAX
.093 MAX TYP SEE NOTE 8
PARTIAL SECTION C-C
SCALE: 4/1
6
.090 MAX
PARTIAL SECTION B-B
SCALE: 4/1
.240
.220
TYP
4
.25 MAX TYP
.093 MAX TYP SEE NOTE 8
7
8
(MARKED A)
PARTIAL SECTION A-A
SCALE 4/1
2
3
.093 MAX TYP SEE NOTE 8
.25 MAX TYP
PARTIAL SECTION D-D
SCALE 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2, 3, 7, AND 8 TO FIND NO.1 PER ND 1002136.
3. IDENTIFY WITH PART NUMBER PER ND 1002019.
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND 1002187. TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	1008819	SLEEVE MINIATURE GROUNDING	8
37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	MS16555-617	PIN, GUIDE	6
4	MS16555-27	PIN, GUIDE	5
34	1010620-7	PIN, GUIDE	4
538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	6008001	HEADER	1

-011 LIST OF MATERIALS

6007002	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XXX ±.005 .XX ±.02 ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN 3 JUN 65
CHECKED 29 JUN 65
APPROVED
APPROVED 8/23/65
APPROVED MIT 24 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

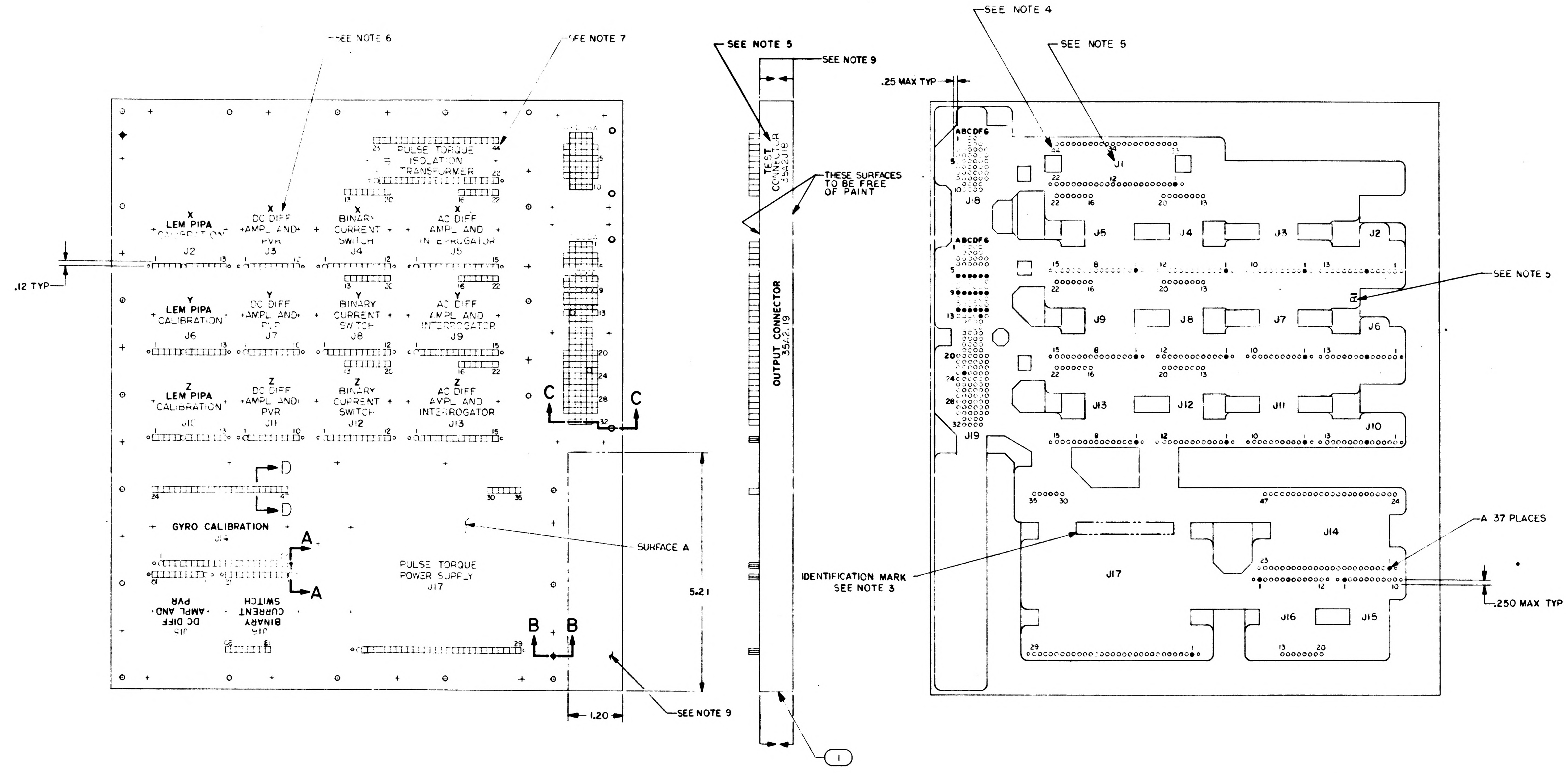
HEADER SUBASSEMBLY
PTA LEM

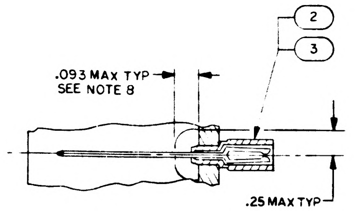
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

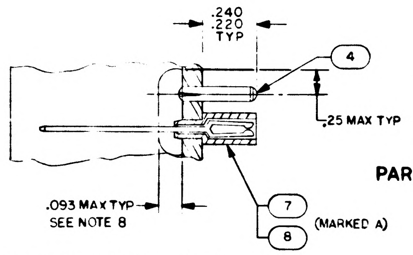
REVISIONS 21759

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22824				
B		REVISED PER TDRR 27149				
C		REVISED PER TDRR 27787	JHP	PJ	13APR 66	
D		REVISED PER TDRR 28665	JMP	CF	3 MAY 66	

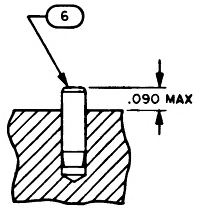

SEE NOTE 6
SEE NOTE 7
PULSE TORQUE ISOLATION TRANSFORMER
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
GYRO CALIBRATION J14
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
PULSE TORQUE POWER SUPPLY J17
.12 TYP
D
A
B
C
SURFACE A
5.21
1.20
SEE NOTE 9
SEE NOTE 5
SEE NOTE 9
TEST CONNECTOR 35A2.18
THESE SURFACES TO BE FREE OF PAINT
OUTPUT CONNECTOR 35A2.19
IDENTIFICATION MARK SEE NOTE 3
1
SEE NOTE 4
SEE NOTE 5
.25 MAX TYP
ABCDFG
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J18
J19
SEE NOTE 5
A 37 PLACES
.250 MAX TYP


2
3
.093 MAX TYP
SEE NOTE 8
.25 MAX TYP

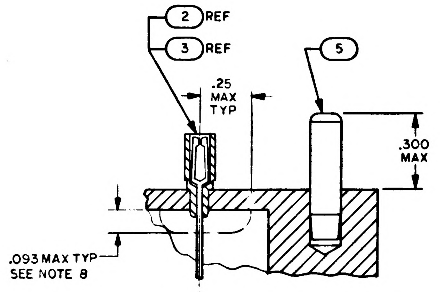
PARTIAL SECTION D-D
SCALE 4/1


.240
.220
TYP
4
.25 MAX TYP
.093 MAX TYP
SEE NOTE 8
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP
SEE NOTE 8

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2, 3, 7, AND 8 TO FIND NO.1 PER ND 1002136
3. IDENTIFY WITH PART NUMBER PER ND 1002019.
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING SHALL BE USED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND 1002289 ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA SHOWN.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	1008819	SLEEVE MINIATURE GROUNDING	8
37	1008818-2	CONTACT, WRAPOST, MINAT, FEM. GROUNDING	7
2	MS16555-617	PIN, GUIDE	6
4	MS16555-27	PIN, GUIDE	5
34	1010620-7	PIN, GUIDE	4
538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	600800	HEADER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — XXX ±.005 XX ±.02 ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED 8/23/65
APPROVED MIT W Kupfer
APPROVED MSC
DATE

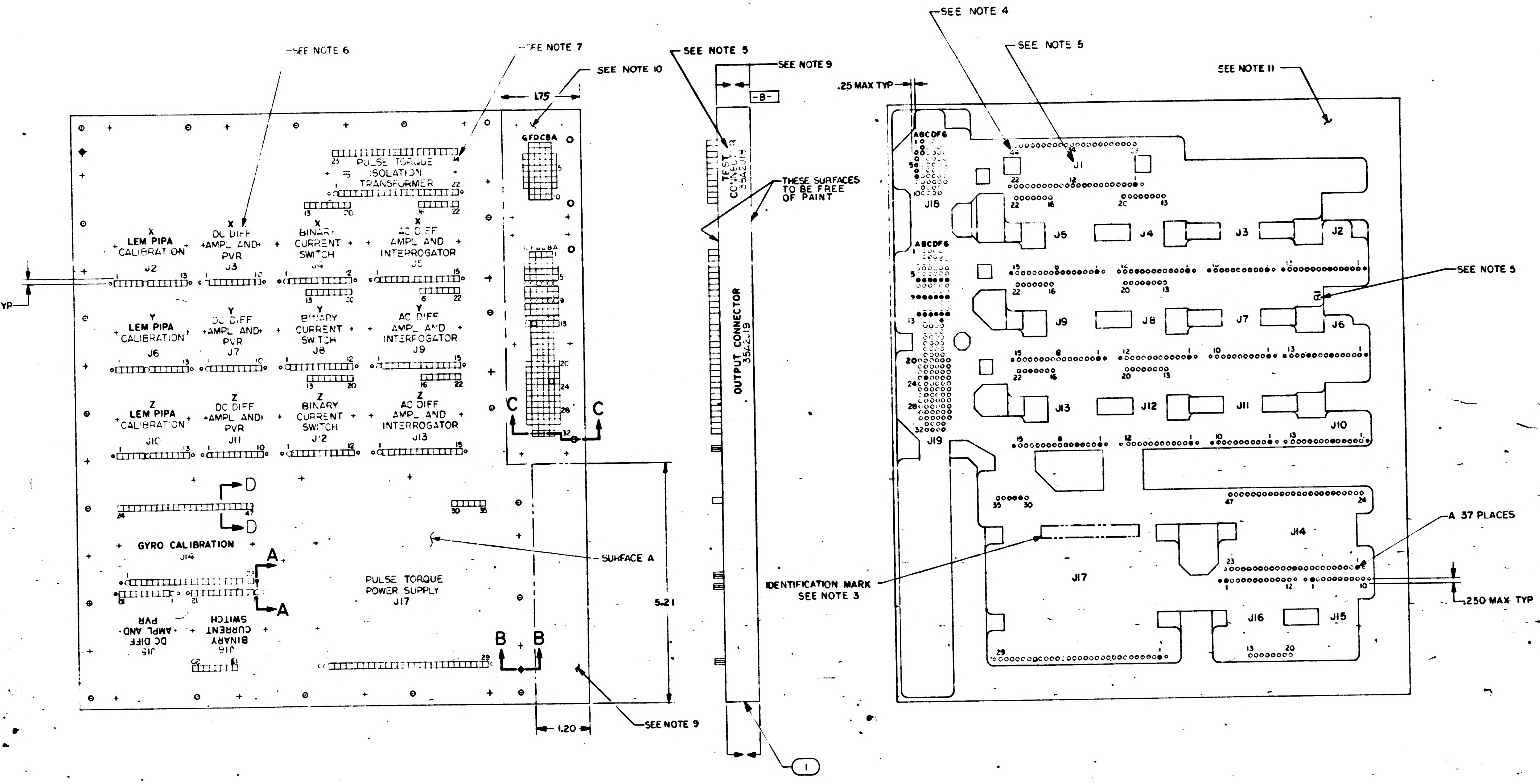
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

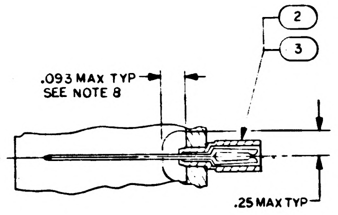
HEADER SUBASSEMBLY
PTA LEM

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF

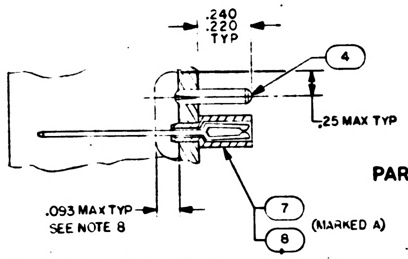
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
REVISIONS 21759						
A		REVISED PER TDRR 22824			1 Oct 65	
B		REVISED PER TDRR 27149		LJB	3/17/66	
C		REVISED PER TDRR 27787	JHP		13 APR 66	
D		REVISED PER TDRR 28665		CP	13 MAY 66	
E		REVISED PER TDRR 31179	H.A.		28 SEP 66	

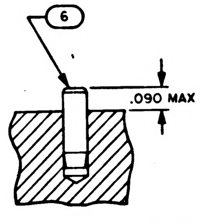

SEE NOTE 6
SEE NOTE 7
SEE NOTE 10
SEE NOTE 5
SEE NOTE 9
1.75
-B-
.25 MAX TYP
SEE NOTE 4
SEE NOTE 5
SEE NOTE 11
PULSE TORQUE ISOLATION TRANSFORMER
TEST CONNECTOR 3542118
THESE SURFACES TO BE FREE OF PAINT
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
.12 TYP
OUTPUT CONNECTOR 3542119
GYRO CALIBRATION J14
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
PULSE TORQUE POWER SUPPLY J17
SURFACE A
5.21
1.20
SEE NOTE 9
SEE NOTE 5
A 37 PLACES
IDENTIFICATION MARK SEE NOTE 3
.250 MAX TYP
J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18 J19
A-A B-B C-C D-D
1


2
3
.093 MAX TYP SEE NOTE 8
.25 MAX TYP

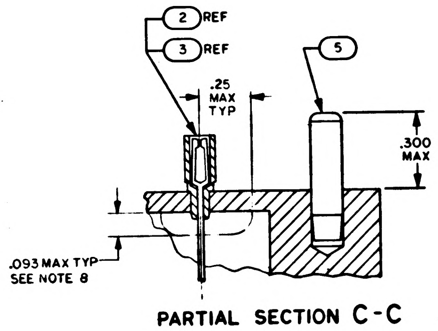
PARTIAL SECTION D-D
SCALE 4/1


.240 .220 TYP
4
.25 MAX TYP
.093 MAX TYP SEE NOTE 8
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP SEE NOTE 8

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2, 3, 7, AND 8 TO FIND NO.1 PER ND 1002136
3. IDENTIFY WITH PART NUMBER PER ND 1002019.
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND 1002187. TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND 1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA AS SHOWN.
10. PAINT 1.75 (REF) WIDE AREA. EXCEPT THE -011 CONFIGURATION, PER ND 1002289, TYPE II. PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA UNDER FIND NOS. 3 AND 8 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.
11. PAINT SURFACE B AND VERTICAL SURFACES FROM .10 TO .20 IMMEDIATELY BELOW SURFACE B, EXCEPT THE -011 CONFIGURATION AND SURFACES OTHERWISE SPECIFIED, WITH ZINC CHROMATE PRIMER PER MIL-P-8585 AND 1012543-003 PAINT PER ND 1002291, TYPE III. MAXIMUM DRY FILM TOTAL THICKNESS OF .002 INCH REQUIRED ON SURFACE B ONLY.

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	37	1008819	SLEEVE MINIATURE GROUNDING	8
37	37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	2	MS16555-617	PIN, GUIDE	6
4	4	MS16555-27	PIN, GUIDE	5
34	34	1010620-7	PIN, GUIDE	4
538	538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	1	6008001	HEADER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007102	
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XXX ±.005 .XX ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED 8/23/65
APPROVED MIT W Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

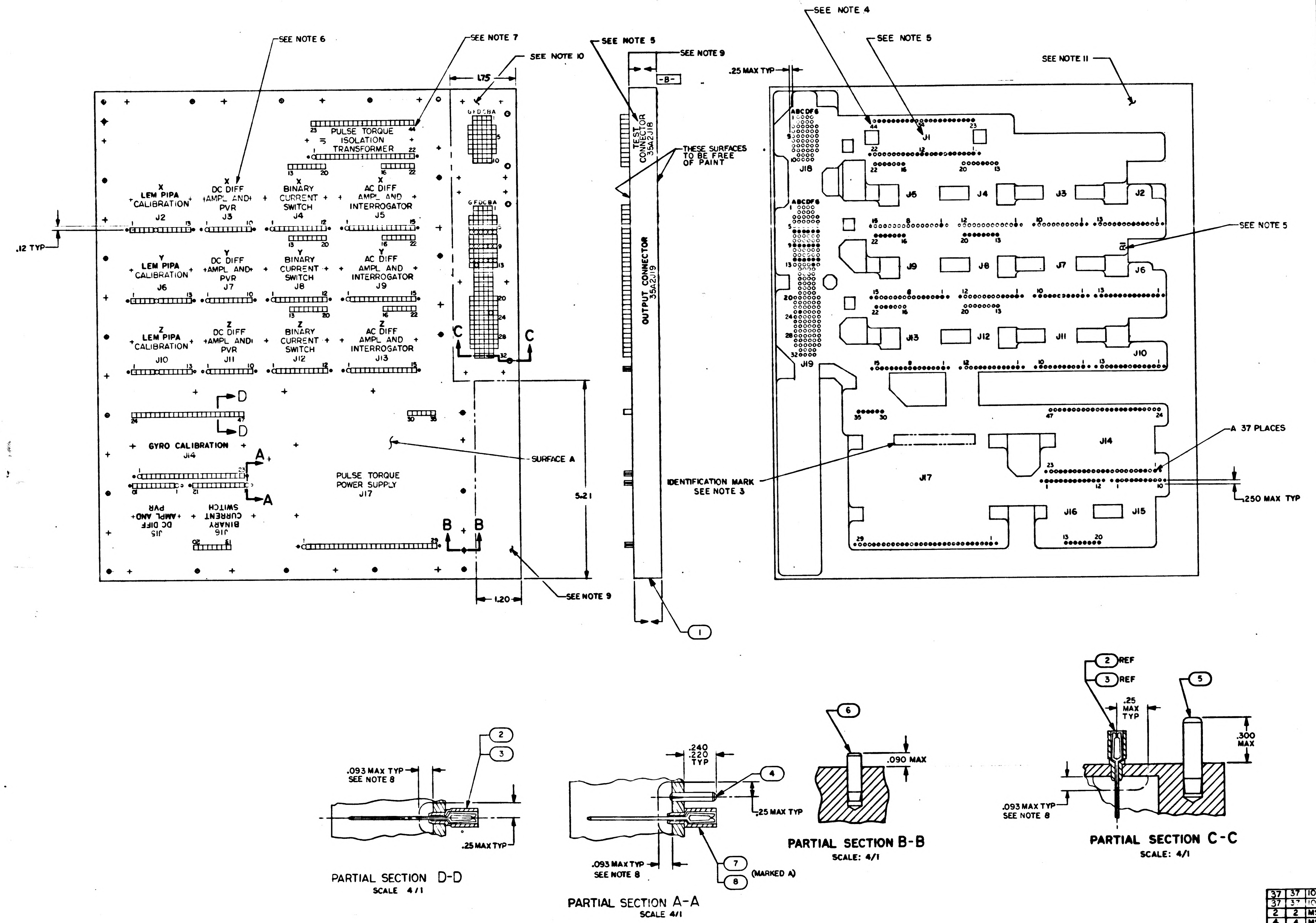
HEADER SUBASSEMBLY
PTA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21759

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22824			1 OCT 65	
B		REVISED PER TDRR 27149		LSB	4/17/66	
C		REVISED PER TDRR 27787	JHP		13 APR 66	
D		REVISED PER TDRR 28665		CP	13 MAY 66	
E		REVISED PER TDRR 31179	H. A.		28 SEP 66	
F		REVISED PER TDRR 31195	H. A.		29 SEP 66	


SEE NOTE 6
SEE NOTE 7
SEE NOTE 10
SEE NOTE 5
SEE NOTE 9
SEE NOTE 4
SEE NOTE 5
SEE NOTE 11
.25 MAX TYP
-B-
1.75
PULSE TORQUE ISOLATION TRANSFORMER
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
GYRO CALIBRATION J14
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
PULSE TORQUE POWER SUPPLY J17
.12 TYP
TEST CONNECTOR 35A2018
OUTPUT CONNECTOR 35A2019
THESE SURFACES TO BE FREE OF PAINT
SURFACE A
IDENTIFICATION MARK SEE NOTE 3
5.21
1.20
SEE NOTE 9
1
A
B
C
D
J1
J18
J19
A 37 PLACES
.250 MAX TYP
SEE NOTE 5
PARTIAL SECTION D-D
SCALE 4/1
.093 MAX TYP SEE NOTE 8
.25 MAX TYP
2
3
PARTIAL SECTION A-A
SCALE 4/1
.240 .220 TYP
4
.25 MAX TYP
.093 MAX TYP SEE NOTE 8
7
8
(MARKED A)
PARTIAL SECTION B-B
SCALE: 4/1
6
.090 MAX
PARTIAL SECTION C-C
SCALE: 4/1
2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP SEE NOTE 8

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2, 3, 7, AND 8 TO FIND NO. 1 PER ND 1002136.
3. IDENTIFY WITH PART NUMBER PER ND 1002019.
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND 1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND 1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA AS SHOWN.
10. PAINT 1.75 (REF) WIDE AREA, EXCEPT THE -011 CONFIGURATION, PER ND 1002289, TYPE II, PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA UNDER FIND NOS. 3 AND 8 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.
11. PAINT SURFACE B AND VERTICAL SURFACES FROM .10 TO .20 IMMEDIATELY BELOW SURFACE B, EXCEPT THE -011 CONFIGURATION AND SURFACES OTHERWISE SPECIFIED, WITH ZINC CHROMATE PRIMER PER MIL-P-8585 AND 1012543-003 PAINT PER ND 1002291, TYPE III. MAXIMUM DRY FILM TOTAL THICKNESS OF .002 INCH REQUIRED ON SURFACE B ONLY.

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	37	1008819	SLEEVE MINIATURE GROUNDING	8
37	37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	2	MS 16555-617	PIN, GUIDE	6
4	4	MS 16555-627	PIN, GUIDE	5
34	34	1010620-7	PIN, GUIDE	4
538	538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	1	6008001	HEADER	1
-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007102	
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XXX ±.005 XX ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN 3 AUG 65
CHECKED
APPROVED
APPROVED 8/23/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
PTA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 21759

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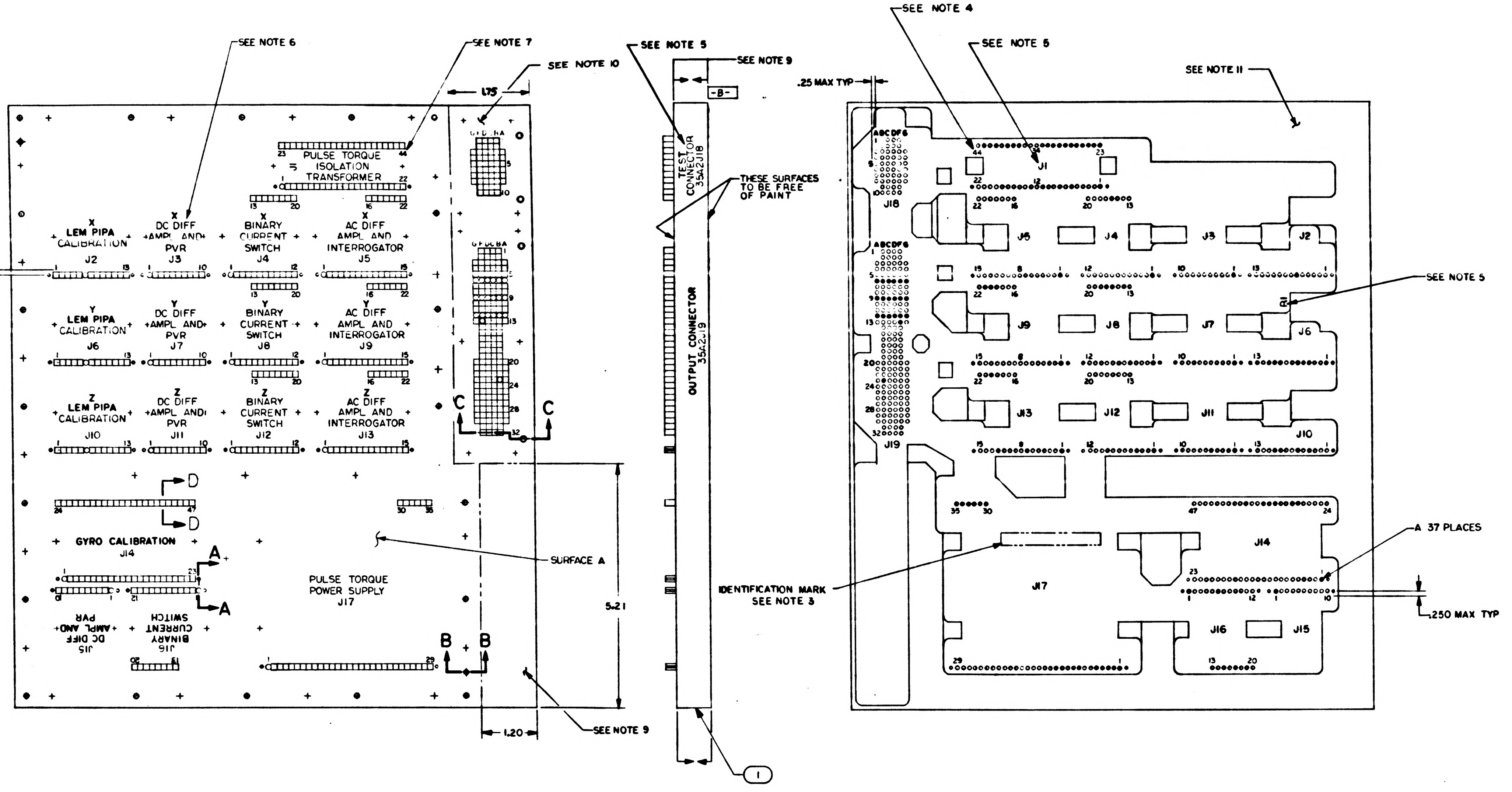
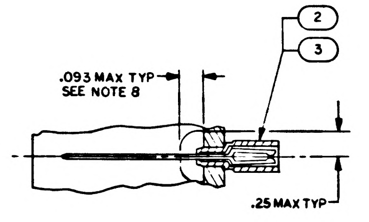
B		REVISED PER TDRR 27149		LJB		
C		REVISED PER TDRR 27787	JHP	PJ	13 APR 66	
D		REVISED PER TDRR 28665	MNP	CP	13 MAY 66	
E		REVISED PER TDRR 31179	H. A.			
F		REVISED PER TDRR 31195	H. A.			
G		REVISED PER TDRR 35811	JRK			


SEE NOTE 6
SEE NOTE 7
SEE NOTE 10
1.75
X LEM PIPA CALIBRATION J2
X DC DIFF AMPL AND PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
PULSE TORQUE ISOLATION TRANSFORMER
Y LEM PIPA CALIBRATION J6
Y DC DIFF AMPL AND PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF AMPL AND PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
.12 TYP
GYRO CALIBRATION J14
J15 DC DIFF AMPL AND PVR
J16 BINARY CURRENT SWITCH
PULSE TORQUE POWER SUPPLY J17
SURFACE A
5.21
1.20
SEE NOTE 9
C
D
A
B
SEE NOTE 5
SEE NOTE 9
-B-
.25 MAX TYP
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
THESE SURFACES TO BE FREE OF PAINT
IDENTIFICATION MARK SEE NOTE 3
1
SEE NOTE 4
SEE NOTE 5
SEE NOTE 11
J1
J18
J19
SEE NOTE 5
A 37 PLACES
.250 MAX TYP
J14
J15
J16
J17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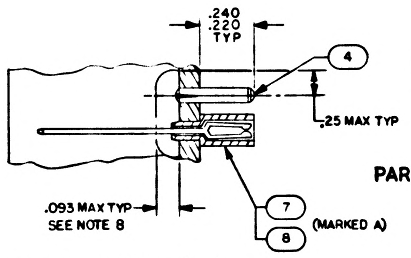
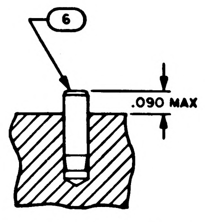
SEE NOTE 8
2
3
.25 MAX TYP

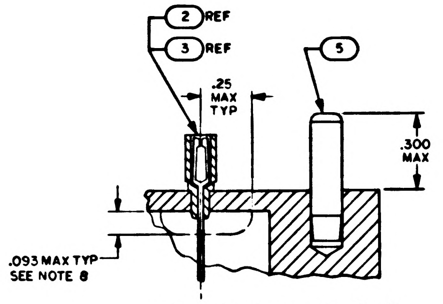
PARTIAL SECTION D-D
SCALE 4/1


.240
.220
TYP
4
.25 MAX TYP
.093 MAX TYP
SEE NOTE 8
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
.25 MAX TYP
5
.300 MAX
.093 MAX TYP
SEE NOTE 8

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.2, 3, 7, AND 8 TO FIND NO.1 PER ND 1002136.
3. IDENTIFY WITH PART NUMBER PER ND 1002019.
4. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A.
5. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A. NO PROTECTIVE COATING SHALL BE USED CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS WITH INK PER ND1002019 AND 1002122 TYPE II, CLASS 2, USING INK 1006271-10 ON SURFACE A, NO PROTECTIVE COATING SHALL BE USED.
8. SEAL FIND NO. 2,3,4,7 AND 8 TO FIND NO.1 PER ND 1002187, TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKING.
9. PAINT EDGES SURFACES PER ND 1002289 TYPE II ALL AROUND BETWEEN VIEWING PLANES AND SURFACE AREA AS SHOWN.
10. PAINT 1.75 (REF) WIDE AREA, EXCEPT THE -011 CONFIGURATION, PER ND 1002289, TYPE II, PRIOR TO INSTALLATION OF ANY FIND NUMBERS IN HEADER. THE AREA UNDER FIND NOS. 3 AND 8 AND EXTENDING .06 MAXIMUM PAST THEIR OUTER PERIPHERY, MUST BE FREE OF PAINT.
11. PAINT SURFACE B AND VERTICAL SURFACES FROM .10 TO .20 IMMEDIATELY BELOW SURFACE B, EXCEPT THE -011 CONFIGURATION AND SURFACES OTHERWISE SPECIFIED, WITH ZINC CHROMATE PRIMER PER 1008952 AND 1012543-003 PAINT PER ND 1002291, TYPE III. MAXIMUM DRY FILM TOTAL THICKNESS OF .002 INCH REQUIRED ON SURFACE B ONLY.

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	37	1008819	SLEEVE MINIATURE GROUNDING	8
37	37	1008818-2	CONTACT, WRAPOST, MINAT, FEM, GROUNDING	7
2	2	MS 16555-617	PIN, GUIDE	6
4	4	MS 16555-627	PIN, GUIDE	5
34	34	1010620-7	PIN, GUIDE	4
538	538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	1	6008001	HEADER	1
-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007102	
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XXX ±.005 .XX ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 3 JUN 65
CHECKED 29 JUN 65
APPROVED
APPROVED 8/23/65
APPROVED MIT W Kaylor
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

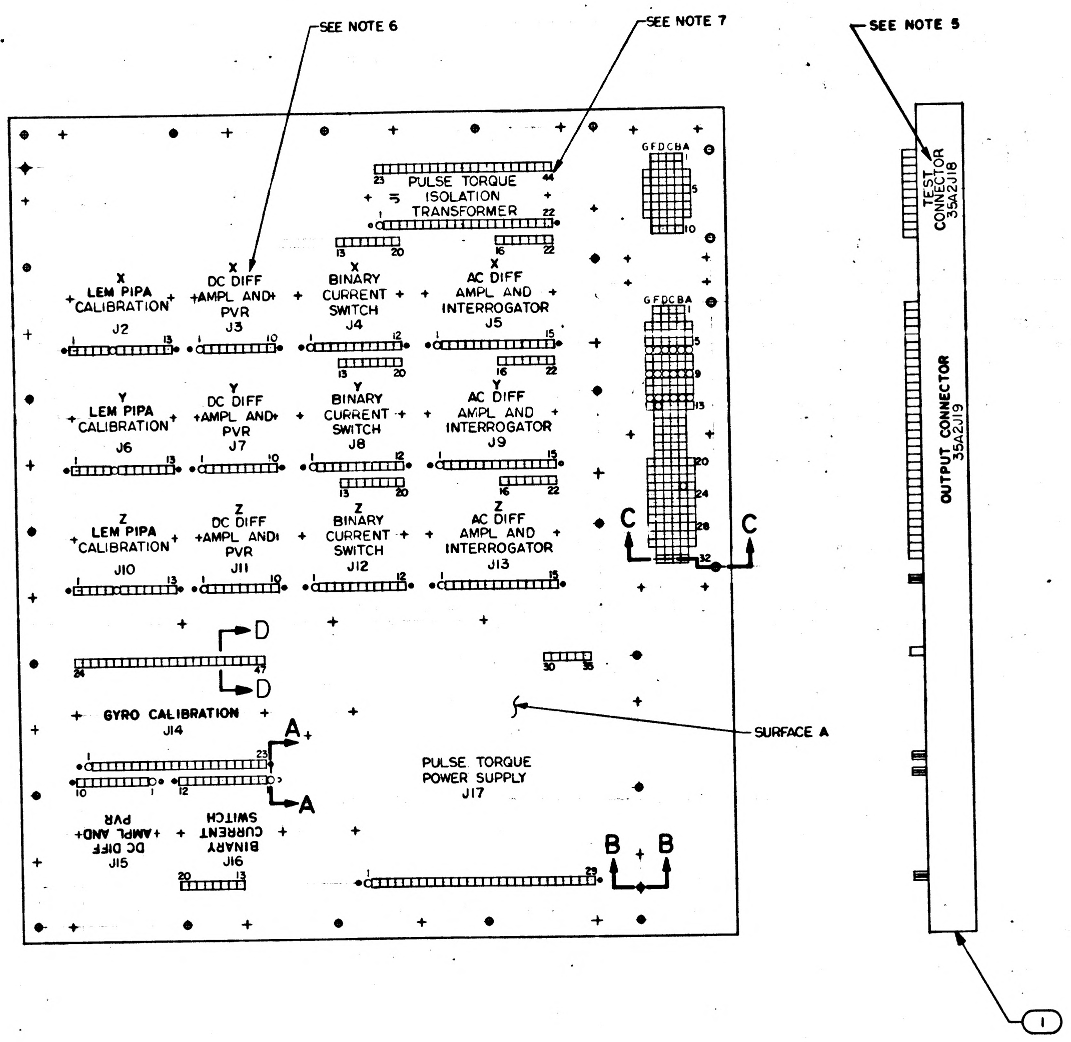
HEADER SUBASSEMBLY
PTA LEM

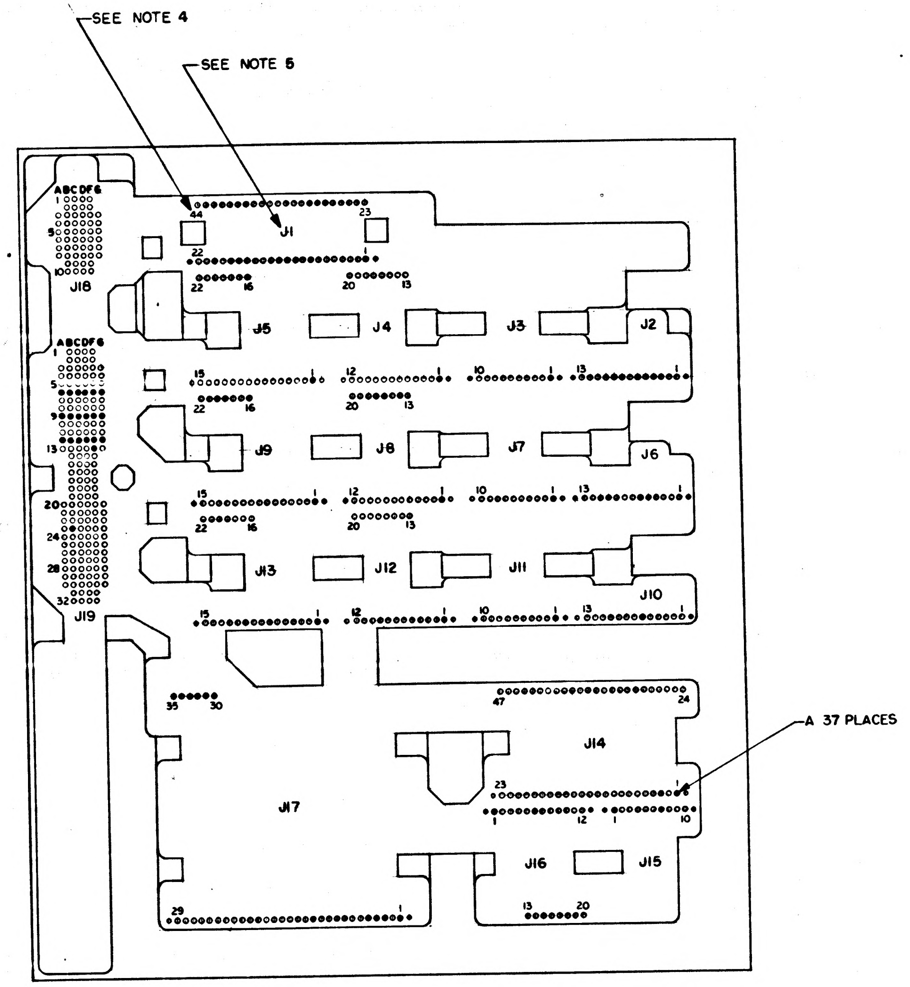
CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007007

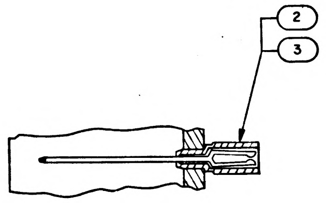
SCALE 1/1 SHEET 1 OF 1

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

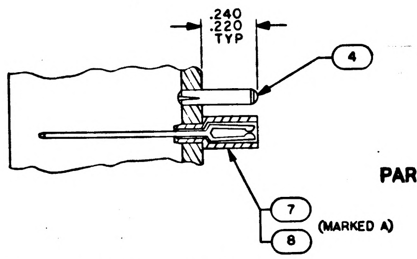
REVISIONS 21759


SEE NOTE 6
SEE NOTE 7
SEE NOTE 5
PULSE TORQUE ISOLATION TRANSFORMER
GFDCBA
X LEM PIPA CALIBRATION J2
X DC DIFF +AMPL AND+ PVR J3
X BINARY CURRENT SWITCH J4
X AC DIFF AMPL AND INTERROGATOR J5
Y LEM PIPA CALIBRATION J6
Y DC DIFF +AMPL AND+ PVR J7
Y BINARY CURRENT SWITCH J8
Y AC DIFF AMPL AND INTERROGATOR J9
Z LEM PIPA CALIBRATION J10
Z DC DIFF +AMPL AND+ PVR J11
Z BINARY CURRENT SWITCH J12
Z AC DIFF AMPL AND INTERROGATOR J13
GYRO CALIBRATION J14
DC DIFF +AMPL AND+ PVR J15
BINARY CURRENT SWITCH J16
PULSE TORQUE POWER SUPPLY J17
SURFACE A
C
D
A
B
TEST CONNECTOR 35A2J18
OUTPUT CONNECTOR 35A2J19
1

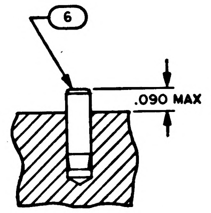

SEE NOTE 4
SEE NOTE 5
ABCDFG
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
J15
J16
J17
J18
J19
A 37 PLACES



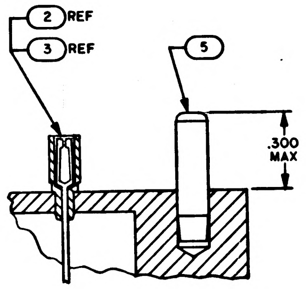
PARTIAL SECTION D-D
SCALE 4/1


.240
.220
TYP
4
7
8
(MARKED A)

PARTIAL SECTION A-A
SCALE 4/1



PARTIAL SECTION B-B
SCALE: 4/1


2 REF
3 REF
5
.300 MAX

PARTIAL SECTION C-C
SCALE: 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2, ~~3~~, 7, AND 8 TO FIND NO. 1 PER ND 1002136
3. IDENTIFY WITH PART NO. PER ND1002019
4. MARK .060/.100 HIGH WHITE CHARACTERS PER ND1002019, EXCEPT SURFACE A
5. MARK .100/.140 HIGH WHITE CHARACTERS PER ND1002019, EXCEPT SURFACE A CENTRALIZE AS SHOWN
6. MARK .100/.140 HIGH WHITE CHARACTERS WITH INK PER ND1002019 ON SURFACE A NO PROTECTIVE COATING SHALL BE USED. CENTRALIZE AS SHOWN
7. MARK .060/.100 HIGH WHITE CHARACTERS WITH INK PER ND1002019 ON SURFACE A NO PROTECTIVE COATING SHALL BE USED

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
37	1008819	SLEEVE MINIATURE GROUNDING	8
37	1008818-2	CONTACT, WRAPOST, MINAT, FEM. GROUNDING	7
2	MS 16555-617	PIN, GUIDE	6
4	MS 16555-27	PIN, GUIDE	5
34	1010620-7	PIN, GUIDE	4
538	1006774	INSULATOR, WRAPOST, FEMALE, MINIATURE	3
538	1006781-3	CONTACT, WRAPOST, FEMALE, MINIATURE	2
1	6008001	HEADER	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Ed Mahoney	23 JUN 65
CHECKED		29 Jul 65
APPROVED		
APPROVED		8/23/65
APPROVED MIT	W Kupfer	24 Aug 65
APPROVED MSC		8/24/65
		DATE

HEADER SUBASSEMBLY
PTA LEM

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007007
SCALE 1/1
SHEET 1 OF 1

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REVISIONS 26048

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 28522	EM	LJB	4 MAY 66	5-10-66

PART NO.	DESCRIPTION	ASS'Y DASH NO. -011 QTY.
6007011-011	CDU FINE ERRORS	1
2007239-011	TORQUE MOTOR & GIMBAL RESOLVERS	1
6007012-011	RADAR RESOLVERS & 120V PIPA SUPPLY	1
2007233-011	DAC, PIPA TEMP. & 2.5V BIAS	1
2007231-011	IRIG & PIPA	1
2007230-011	GIMBAL RESOLVER	1
1008841	GASKET, SEALING PLATE-OUTPUT CONN.	1
2008033-1	WASHER FLAT	14
1010977-001	SCREW, CAPTIVE	14
	COVER	1
6007016-011	HEADER ASSEMBLY	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Louis A Lark 3 FEB 66
CHECKED cc R. P. Kingsbury 3 FEB 66
APPROVED V. A. Kapreitis 4 FEB 66
APPROVED
APPROVED MIT W. Kupfer 9 Feb 66
APPROVED MSC
DATE

SIGNAL CONDITIONER ASSY
LEM
FLIGHT-QUAL

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6007010
SCALE —
SHEET 1 OF 1

6007010 A

APOLLO G&N Specification
PS6007010 REV — A
Original Issue Date:
Release Authority: TDRR 31075
Class A **Release**
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM FLIGHT - QUAL

DRAWING NO. 6007010

Record of Revisions

Ⓜ

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
10/13/66	A	31527	5, 8 - 11,, 13-22	MGM EA	WLS

This specification consists of page 1 to 22 inclusive.

APPROVALS	NASA/MSC	R M Kowalski 22 Aug 66 MIT/IL	CCB	19 August 1966 ACSP

TABLE I (Continued)

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mv pp)	Max Noise (mv pp)	Max Offset 2500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
D6	1-G31	1-B36	0.801 vdc	0.999 vdc	--	--	4.995	5.005	1-F13	1-C2	50	150	75
D7	1-G33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-F9	1-B9	100	100	35
D8	1-F33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-G10	1-B9	100	100	35
D9	1-D20	1-D18	27.5 vdc	28.5 vdc	--	--	4.000	4.600	1-C11	1-C12	30	50	-
D10	1-D19	1-F16	27.72 vac	28.28 vac	800	--	4.000	4.600	1-D11	1-C12	250	500	-
D11	--	--	--	--	--	--	2.450	2.550	1-B8	1-B9	10	100	-
E1	1-C26	1-C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-F4	1-C2	10	20	35
E2	1-D26	1-D25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-G4	1-C2	10	20	35
E3	1-A26	1-A25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-F2	1-C2	10	20	35
E4	1-B26	1-B25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-G3	1-C2	10	20	35
E5	1-A17	1-A18	129.00 vdc	141.00 vdc	--	--	4.995	5.005	1-G6	1-C2	10	20	300
F1	1-B33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C10	1-B9	100	100	35
F2	1-C33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C9	1-B9	100	100	35
F3	1-D33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C8	1-B9	100	100	35
F4	1-C32	1-D32	1267.2Ω	1292.8Ω	--	--	2.250	2.750	1-D13	1-C2	-	-	-
F5	1-B19	1-F14* 1-B20	2007Ω	2067Ω	--	--	4.995	5.005	1-G13	1-C2	50	100	-

* Separate lines from 30J1-F14, 30J1-C20 and 30J1-B20 shall be connected to the same side of the input resistor.

(3) 0 to +33 vdc and -33 vdc

(4) 0 to +150 vdc

4.2.1.3 Test Setup. Unless otherwise specified, the operating voltages of Table IV shall be applied to the assembly. Each pair of output pins for each assembly section, except assembly sections C7 and F5, shall have a 1 megohm ±1 percent resistor connected between them. Assembly sections C7 and F5 shall have a 500k ohm ±5 percent resistor connected between its output pins. Source impedance shall be as shown in Figure 1.

TABLE IV

OPERATING VOLTAGES

CONNECTOR 30J1		VOLTAGE	FREQUENCY (cps)
Hi	Lo		
C18	D18	28.00±0.28 vdc	--
C15	G16	28.00±0.28V rms	800.0±0.8
A15	A16	28.00±0.28V rms	3200.0±3.2
C17	D18	28.00±0.28 vdc	--
A17	A18	110.00±0.10 vdc	--

4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007010. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be mounted to the vibration fixture in a manner similar to the way it will be mounted in service. The assembly shall be vibrated along the horizontal, vertical and lateral axis (see Figure 2) with simple harmonic motion swept from 10 to 2000 cps at a rate of 1 octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency.

a. The continuity of the assembly shall be continuously monitored during vibration at the pins specified in Table IV. Any evidence of discontinuity shall be cause for rejection. The continuity monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any open circuit.

TABLE V

From Pin No. 30J	To Pin No. 30J	From Pin No. 30J	To Pin No. 30J
1-F 36	2-73	1-A 37	2-76
1-D 36	2-72	1-D 16	2-27
1-F 35	2-71	1-F 15	2-47
1-D 35	2-70	1-C 16	2-18
1-A 36	2-77	1-D 15	2-36
1-B 37	2-53	1-C 15	2-6
1-G 32	2-57	1-D 17	2-43
1-G 34	2-63	1-C 34	2-20
1-F 32	2-82	1-B 34	2-7
1-G 17	2-83		
1-A 34	2-21	1-B 15	2-69
1-F 34	2-61	1-C 2	2-75
1-F 18	2-59	1-C 2	1-F12
1-B 32	2-17	1-G 18	2-84
1-A 32	2-35	1-F 10	1-B9
1-D 34	2-38	1-B 17	2-85

TABLE VI

From Pin No. 30J	To
2-48	Structure Ground
2-46	↕
2-45	
1-B16	Structure Ground

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I to obtain the output specified therein, except that the inputs required to establish the outputs specified for assembly sections D1, D2, and D3 shall be used to establish the outputs for assembly sections A1, A2, and A3. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

c. The pins specified in Table V shall be continuously monitored during vibration for discontinuity and circuit isolation. The monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any discontinuity and/or short circuit.

4.3.3 Temperature Test. The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein. The input and output voltages shall then be measured and recorded.

b. The assembly shall be soaked at 49° ±3°C for 4 hours. The soak period inputs for assembly section A1, A2 and A3 shall be determined by the inputs of assembly section D1, D2 and D3. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.

4.3.4 Continuity and DC Resistance. The resistance between the pins specified in Table II shall be measured with a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202.

4.3.5 Insulation Resistance. The resistance from each connector pin except those pins specified in Table III, to the assembly frame shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 μa. The resistance shall be greater than or equal to 100 megohms.

4.3.6 Offset Voltage. With each input Hi pin specified in Table I connected to its respective input Lo pin, the dc voltage appearing across the output pins specified in Table I shall be as specified therein, except for assembly section E5 which shall have a 110.00 ±0.10 vdc input.

4.3.7 Scale Factor. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein and the input and output voltages recorded.

4.3.8 Output Ripple and Noise. The input signal voltages shall be adjusted within the range specified in Table I to obtain the outputs specified in Table I, and the peak-to-peak ripple voltage or noise appearing at the corresponding output pins measured and recorded. The ripple voltage or noise appearing at the output pins shall be less than or equal to the value specified in Table I. (See Figure 3.)

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3.0 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo) and 30J1-C20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.10 IRIG Sensor Output. With a sensor resistance of 2037.0±30.0 ohms connected across 30J1-B19 (Hi) and 30J1-14 (Lo) and 30J1-B20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.11 PIPA Thermistor Output. With a sensor input resistance of 1279.5±12.8 ohms connected across 30J1-D13 and 30J1-D32, the output voltage shall be 2.500±0.250 vdc.

4.3.12 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.13 Calibration

4.3.13.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D7
D8
E1
E2
E3
E4
F1
F2
F3

a. Adjust the ratio transformer to 0.0000.

b. Adjust e_2 for a 2.500±0.005 vdc E_0 output. The e_1 voltage shall be 0V rms. Record the voltage and phase of e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.000. Set e_1 to zero phase and adjust for a 5.000±0.005 vdc E_0 output. Record the e_{in} and e_1 voltage and phase.

d. Adjust the ratio transformer for an E_0 output of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

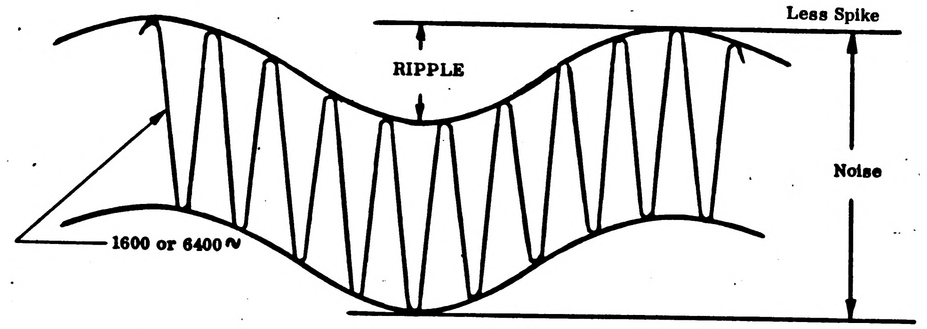
e. Adjust the ratio transformer for an E_0 output of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.13.1.c. Record the voltage and phase of e_{in} and e_1.

g. Adjust the ratio transformer for an E_0 output of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000±5 percent. Record the e_{in} voltage and phase.

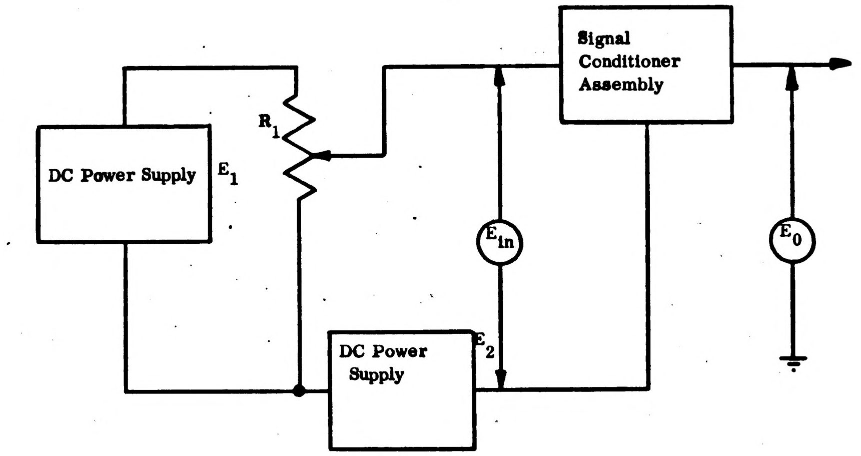
h. Adjust the ratio transformer for an E_0 output of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

i. Adjust the ratio transformer for an E_0 output of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.


Less Spike
RIPPLE
Noise
1600 or 6400 ∿

RIPPLE AND NOISE

FIGURE 3


Signal
Conditioner
Assembly
DC Power Supply
E_1
R_1
E_{in}
E_0
DC Power
Supply
E_2

DC CIRCUIT CALIBRATION

FIGURE 5

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26048

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		REVISED PER TDRR 28522	EM	LJB	4 MAY 66		5-10-66
B		REVISED PER TDRR 28535	LJB				6-2-66
–		REPLACED BY CONFIGURATION DWG REV C PER TDRR 29351	LJB				

PART NO.	DESCRIPTION	ASS'Y DASH NO. -011 QTY.
6007011-011	CDU FINE ERRORS	1
2007239-011	TORQUE MOTOR & GIMBAL RESOLVERS	1
6007012-011	RADAR RESOLVERS & 120V PIPA SUPPLY	1
2007233-011	DAC, PIPA TEMP. & 2.5V BIAS	1
2007231-011	IRIG & PIPA	1
2007230-011	GIMBAL RESOLVER	1
1008841	GASKET, SEALING PLATE-OUTPUT CONN.	1
2008033-1	WASHER FLAT	14
1010977-001	SCREW, CAPTIVE	14
	COVER	1
6007016-011	HEADER ASSEMBLY	1
1004260-196	NAME PLATE	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN 3 Feb 66
CHECKED 3 Feb 66
APPROVED 4 Feb 66
APPROVED
APPROVED MIT 9 Feb 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM
FLIGHT-QUAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007010

SCALE — SHEET 1 OF 1

6007010 D

APOLLO G&N Specification
PS6007010 REV — AB
Original Issue Date:
Release Authority: TDRR 31075
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM FLIGHT - QUAL

DRAWING NO. 6007010

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
10/13/66	A	31527	5, 8,- 11,, 13-22	MGM EA	WLS
12/16/66	B	32331	4, 5, 10, 14, 15, 16, 22	MGM EA	WLS

This specification consists of page 1 to 22 inclusive.

APPROVALS	NASA/MSC	R M Kowalski 22 Aug 66	M G Mealy 9/12/66 MIT/IL	CCB	A Piotrowski 19 August 1966 ACSP	

APOLLO G&N Specification
PS6007010 REV — ~~A~~B
Original Issue Date:
Release Authority: TDRR 31075
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM FLIGHT - QUAL -

DRAWING NO. 6007010

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
10/13/66	A	31527	5, 8,- 11,, 13-22	MGM EA	WLS
12/16/66	B	32331	4, 5, 10, 14, 15, 16, 22	MGM EA	WLS

This specification consists of page 1 to 22 inclusive.

APPROVALS	NASA/MSC	RMKowalski 22 Aug 66 MG Hurley 9/12/66 MIT/IL CCB	19 August 1966 E.F.P. ACSP

TABLE I

INPUT-OUTPUT PINS AND PARAMETERS

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mvpp)	Max Noise (mvpp)	Max Offset 2.500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
A1	1-A29	1-A28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-B1	1-C2	10	50	35
A2	1-C29	1-C28	↕	↕	↕	↕	↕	↕	1-C1	↕	↕	↕	↕
A3	1-F29	1-F28	↕	↕	↕	↕	↕	↕	1-F1	↕	↕	↕	↕
A4	1-B29	1-B28	↕	↕	↕	↕	↕	↕	1-B2	↕	↕	↕	↕
A5	1-D29	1-D28	↕	↕	↕	↕	↕	↕	1-D1	↕	↕	↕	↕
A6	1-G29	1-G28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-D2	1-C2	10	50	35
B1	1-G25	1-F25	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A4	1-C2	10	75	75
B2	1-G26	1-F26	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A5	1-C2	10	75	75
B3	1-G27	1-F27	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-C4	1-C2	10	75	75
B4	—	—	—	—	—	—	3.900	4.700	1-D5	1-C2	30	100	-
B5	1-G37	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-B5	1-C2	30	100	75
B6	1-G38	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-C6	1-C2	30	100	75
B7	1-G39	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-A6	1-C2	30	100	75
C1	1-D37	1-F37	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-B3	1-C2	10	50	35
C2	1-D39	1-F39	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-C3	1-C2	50	100	35
C3	1-D38	1-F38	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-A3	1-C2	50	100	35
C4	—	—	—	—	—	—	4.200	4.800	1-G7	1-C2	10	100	-
C5	1-F17	1-D18	27.50 vdc	28.50 vdc	—	—	3.900	4.800	1-B10	1-A11	30	50	-
C6	—	—	—	—	—	—	3.900	4.800	1-A10	1-A11	30	50	-
C7	1-C19	1-F14* 1-C26	1591.5Ω	1597.5Ω	—	—	4.995	5.005	1-G8	1-C2	50	100	-
C8	—	—	—	—	—	—	2.450	2.550	1-G5	1-C2	10	100	-
D1	1-A29	1-A28	4.450 vac	5.550 vac	800	5° ±2°	4.995	5.005	1-A7	1-C2	150	250	35
D2	1-C29	1-C28	4.450 vac	5.550 vac	800	5° ±2°	↕	↕	1-B7	1-C2	150	250	35
D3	1-F29	1-F28	4.450 vac	5.550 vac	800	5° ±2°	↕	↕	1-C7	1-C2	150	250	35
D4	1-B31	1-B36	0.445 vdc	0.555 vdc	—	—	↕	↕	1-D12	1-C2	50	150	75
D5	1-D31	1-B36	0.445 vdc	0.555 vdc	—	—	4.995	5.005	1-G12	1-C2	50	150	75

TABLE I (Continued)

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mv pp)	Max Noise (mv pp)	Max Offset 2500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
D6	1-G31	1-B36	0.801 vdc	0.999 vdc	—	—	4.995	5.005	1-F18	1-C2	50	150	75
D7	1-G33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-F9	1-B9	100	100	35
D8	1-F33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-G10	1-B9	100	100	35
D9	1-D20	1-D18	27.5 vdc	28.5 vdc	—	—	3.900	4.800	1-C11	1-C12	30	50	-
D10	1-D19	1-F16	27.72 vac	28.28 vac	800	—	4.000	4.600	1-D11	1-C12	250	500	-
D11	—	—	—	—	—	—	2.450	2.550	1-B8	1-B9	10	100	-
E1	1-C26	1-C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-F4	1-C2	10	50	35
E2	1-D26	1-D25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-G4	1-C2	10	50	35
E3	1-A26	1-A25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-F2	1-C2	10	50	35
E4	1-B26	1-B25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-G3	1-C2	10	50	35
E5	1-A17	1-A18	129.00 vdc	141.00 vdc	—	—	4.995	5.005	1-G6	1-C2	—	60	300
F1	1-B33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C10	1-B9	100	125	35
F2	1-C33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C9	1-B9	100	125	35
F3	1-D33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C8	1-B9	100	125	35
F4	1-C32	1-D32	1152.0Ω	1408Ω	—	—	2.495	2.505	1-D13	1-C2	-	-	-
F5	1-B19	1-F14* 1-B20	2007Ω	2067Ω	—	—	4.995	5.005	1-G13	1-C2	50	100	-

* Separate lines from 30J1-F14, 30J1-C20 and 30J1-B20 shall be connected to the same side of the input resistor.

(3) 0 to +33 vdc and -33 vdc

(4) 0 to +150 vdc

4.2.1.3 Test Setup. Unless otherwise specified, the operating voltages of Table IV shall be applied to the assembly. Each pair of output pins for each assembly section, except assembly sections C7 and F5, shall have a 1 megohm ±1 percent resistor connected between them. Assembly sections C7 and F5 shall have a 500k ohm ±5 percent resistor connected between its output pins. Source impedance shall be as shown in Figure 1.

TABLE IV

OPERATING VOLTAGES

CONNECTOR 30J1		VOLTAGE	FREQUENCY (cps)
Hi	Lo		
C18	D18	28.00±0.28 vdc	--
G15	G16	28.00±0.28V rms	800.0±0.8
A15	A16	28.00±0.28V rms	3200.0±3.2
C17	D18	28.00±0.28 vdc	--
A17	A18	110.00±0.10 vdc	--

4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007010. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be mounted to the vibration fixture in a manner similar to the way it will be mounted in service. The assembly shall be vibrated along the horizontal, vertical and lateral axis (see Figure 2) with simple harmonic motion swept from 10 to 2000 cps at a rate of 1 octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency.

a. The continuity of the assembly shall be continuously monitored during vibration at the pins specified in Table VI. Any evidence of discontinuity shall be cause for rejection. The continuity monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any open circuit.

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein, except for assembly sections C5 and D9 which shall be set to input conditions, except that the input required to establish the output specified for assembly sections D1, D2, and D3 shall be used to establish the output for assembly sections A1, A2, and A3. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

c. The pins specified in Table V shall be continuously monitored during vibration for discontinuity and circuit isolation. The monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any discontinuity and/or short circuit.

4.3.3 Temperature Test. The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein, except for assembly sections C5 and D9 which shall be set to input conditions. The input and output voltages shall then be measured and recorded.

b. The assembly shall be soaked at 49° ±3°C for 4 hours. The soak period inputs for assembly section A1, A2 and A3 shall be determined by the inputs of assembly section D1, D2 and D3. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.

4.3.4 Continuity and DC Resistance. The resistance between the pins specified in Table II shall be measured with a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202.

4.3.5 Insulation Resistance. The resistance from each connector pin except those pins specified in Table III, to the assembly frame shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 μa. The resistance shall be greater than or equal to 100 megohms.

4.3.6 Offset Voltage. With each input Hi pin specified in Table I connected to its respective input Lo pin, the dc voltage appearing across the output pins specified in Table I shall be as specified therein, except for assembly section E5 which shall have a 110.00±0.10 vdc input.

4.3.7 Scale Factor. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein and the input and output voltages recorded.

4.3.8 Output Ripple and Noise. The input signal voltages shall be adjusted within the range specified in Table I to obtain the outputs specified in Table I, and the peak-to-peak ripple voltage or noise appearing at the corresponding output pins measured and recorded. The ripple voltage or noise appearing at the output pins shall be less than or equal to the value specified in Table I. (See Figure 3.)

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3.0 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo) and 30J1-C20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.10 IRIG Sensor Output. With a sensor resistance of 2037.0±30.0 ohms connected across 30J1-B19 (Hi) and 30J1-F14 (Lo) and 30 J1-B20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.11 PIPA Thermistor Output. With a sensor input resistance of 1279.5±12.8 ohms connected across 30J1-C32 and 30J1-D32, the output voltage shall be 2.500±0.250 vdc.

4.3.12 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.13 Calibration

4.3.13.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D7
D8
E1
E2
E3
E4
F1
F2
F3

a. Adjust the ratio transformer to 0.0000.

b. Adjust e_2 for a 2.500±0.005 vdc E_0 output. The e_1 voltage shall be 0V rms. Record the voltage and phase of e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.000. Set e_1 to zero phase and adjust for a 5.000±0.005 vdc E_0 output. Record the e_{in} and e_1 voltage and phase.

d. Adjust the ratio transformer for an E_0 output of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

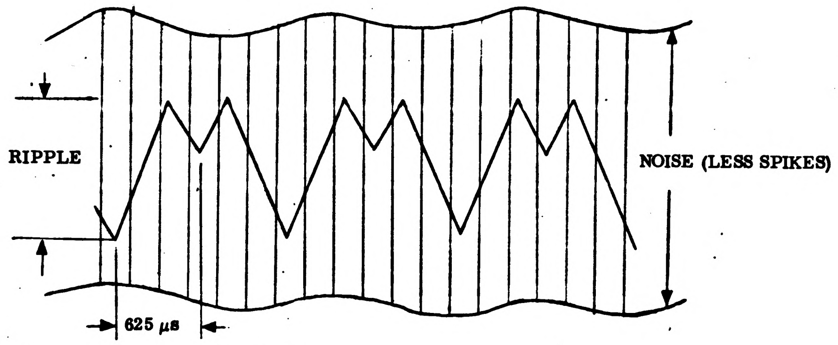
e. Adjust the ratio transformer for an E_0 output of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.13.1.c. Record the voltage and phase of e_{in} and e_1.

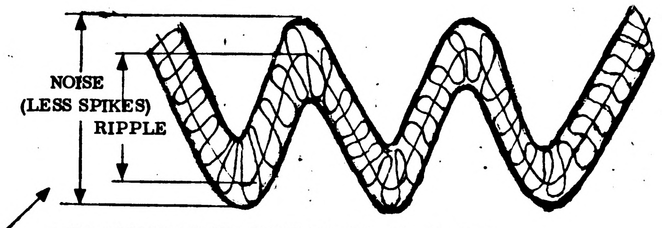
g. Adjust the ratio transformer for an E_0 output of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000±5 percent. Record the e_{in} voltage and phase.

h. Adjust the ratio transformer for an E_0 output of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

i. Adjust the ratio transformer for an E_0 output of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.


RIPPLE
NOISE (LESS SPIKES)
625 µs

FOR ASSEMBLY SECTIONS A, E1 THRU E4


NOISE
(LESS SPIKES)
RIPPLE

FOR ASSEMBLY SECTIONS B5, B6, B7, C, D, F

FOR ASSEMBLY SECTION B1 THRU B4

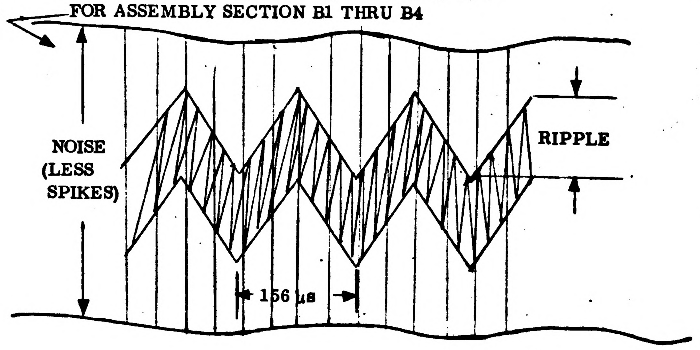

NOISE
(LESS
SPIKES)
RIPPLE
156 µs

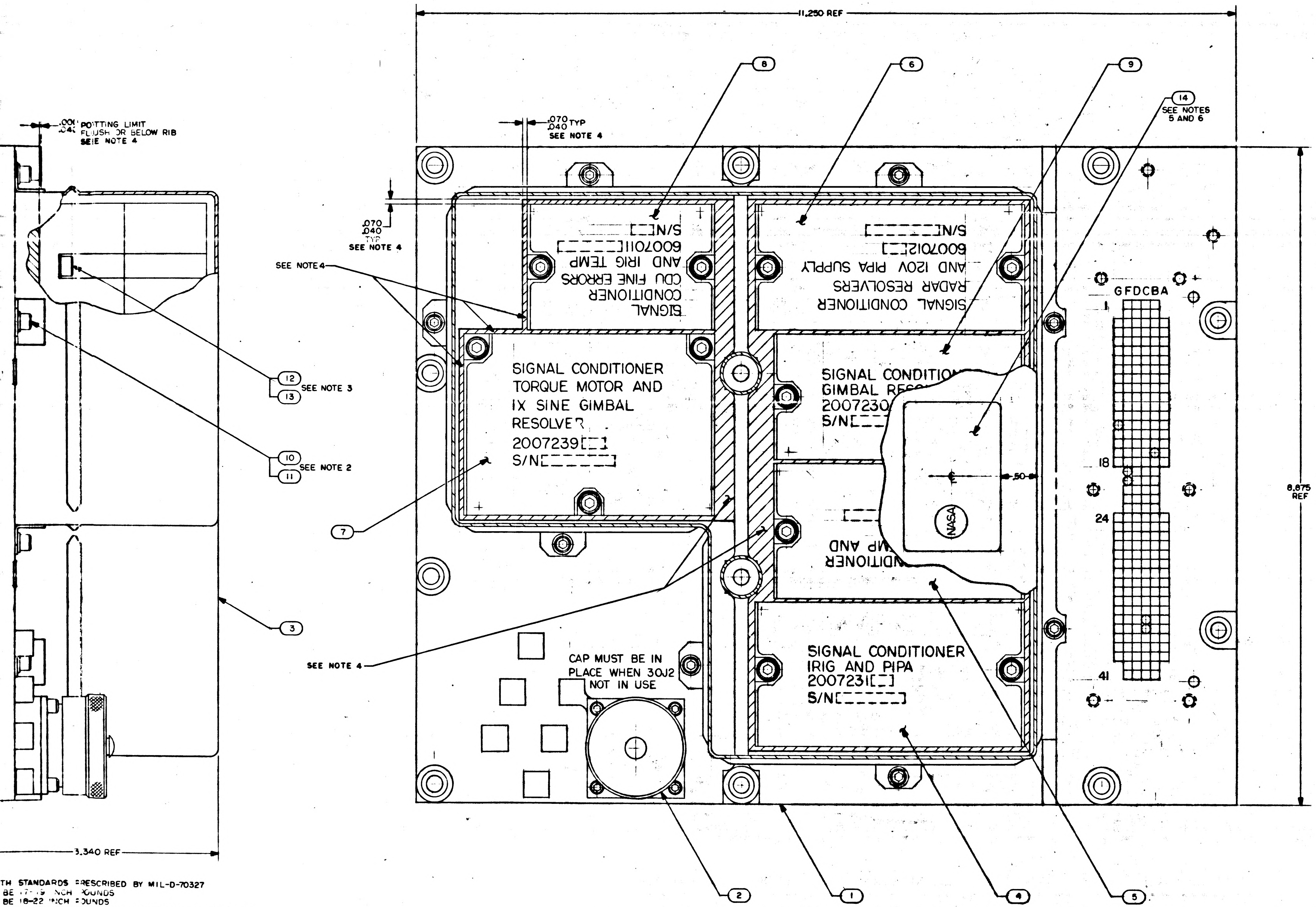
FIGURE 3

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Paragraph 4.5.1 and [illegible] Specification ND1002214.

6. NOTES. None.

SYM	ZONE	REVISIONS DESCRIPTION	DR	CH	DATE	APPROVED
C		REPLACES WORD DRAWING REV B PER TDRR 29351			5 May	



11.250 REF
.000 / .040 POTTING LIMIT FLUSH OR BELOW RIB SEE NOTE 4
.070 / .040 TYP SEE NOTE 4
.070 / .040 TYP SEE NOTE 4
SEE NOTE 4
SEE NOTE 3
SEE NOTE 2
SEE NOTES 5 AND 6
SEE NOTE 4
SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP 6007011[ ] S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY 6007012[ ] S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND IX SINE GIMBAL RESOLVER 2007239[ ] S/N[ ]
SIGNAL CONDITIONER GIMBAL RESOLVER 2007230 S/N
SIGNAL CONDITIONER IRIG AND PIPA 2007231[ ] S/N[ ]
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
GFDCBA
1
18
24
41
.50
NASA
8.875 REF
3.340 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14

TH STANDARDS PRESCRIBED BY MIL-D-70327
BE 17-19 INCH POUNDS
BE 18-22 INCH POUNDS
CATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO
NIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY
OPYL ALCOHOL PRIOR TO SEALING
9 AND SERIALIZE PER ND1002023
ND10022 9
EALER TO BE FREE OF GREASE OR FOREIGN MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1004260-196	NAMEPLATE	14
12	2008033-1	WASHER, THRUST	13
12	1010977-001	SCREW, CAP, HEX SOCKET HEAD	12
8	2004148-003	WASHER, FLAT	11
8	1008874-017	SCREW, CAP, SOCKET HEAD	10
1	2007230-011	GIMBAL RESOLVER SIG COND	9
1	6007011-011	CDU FINE ERRORS AND IRIG TEMP SIG COND	8
1	2007239-011	TOR MTR AND IX SINE GMBL RSVR SIG COND	7
1	6007012-011	RADAR RSVR AND 120V PIPA SUP SIG COND	6
1	2007233-011	DAC PIPA TEMP AND 2.5V BIAS SIG COND	5
1	2007231-011	IRIG AND PIPA SIG COND	4
1	6008057	COVER	3
1	1008808-016	CAP, PROTECTIVE	2
1	6007016-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6015000	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .05 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 5 May 66
CHECKED 27 May 66
APPROVED V. G. 31 May 66
APPROVED 3 June 66
APPROVED MIT 6-3-66 R. G. METZGER
APPROVED MSC
DATE

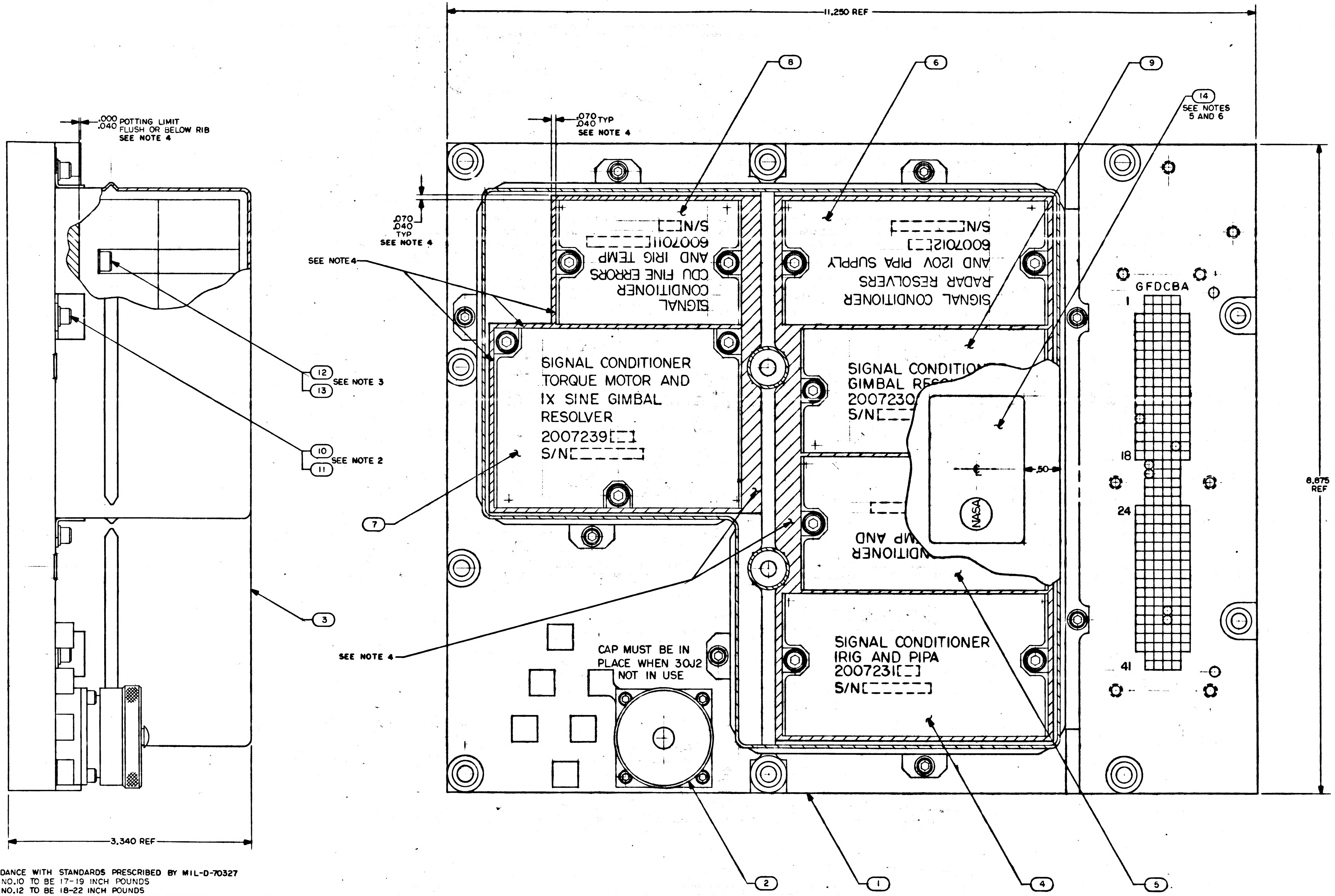
SIGNAL CONDITIONER ASSY
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007010
SCALE 2/1
SHEET OF

6007010 C

MASTER

2H


.000 .040 POTTING LIMIT FLUSH OR BELOW RIB SEE NOTE 4
.070 .040 TYP SEE NOTE 4
.070 .040 TYP SEE NOTE 4
SEE NOTE 4
11.250 REF
8.875 REF
3.340 REF
.50
SEE NOTES 5 AND 6
SEE NOTE 3
SEE NOTE 2
SEE NOTE 4
SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP 6007011[ ] S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY 6007012[ ] S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND 1X SINE GIMBAL RESOLVER 2007239[ ] S/N[ ]
SIGNAL CONDITIO GIMBAL RES 2007230 S/N[
SIGNAL CONDITIONER IRIG AND PIPA 2007231[ ] S/N[ ]
CONDITIONER MP AND
NASA
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
GFDCBA
1
18
24
41
1
2
3
4
5
6
7
8
9
10
11
12
13
14

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.10 TO BE 17-19 INCH POUNDS
3. MOUNTING TORQUE FOR FIND NO.12 TO BE 18-22 INCH POUNDS
4. APPLY SEALANT 1006338-002 TO INDICATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING
5. IDENTIFY WITH PART NO PER ND1002019 AND SERIALIZE PER ND1002023
6. BOND FIND NO.14 TO FIND NO.3 PER ND1002219
7. MATING SURFACES OF MODULES AND HEADER TO BE FREE OF GREASE OR FOREIGN MATERIAL
8. PROCURE PER P.S.6007010

1	1004260-19
12	2008033-1
12	1010977-001
8	2004148-00
8	1008874-0
1	2007230-01
1	6007011-01
1	2007239-01
1	6007012-0
1	200723
1	2007231-01
1	6008057
1	1008808-01
1	6007016-01
	PART OR IDENTIFYING NO

MIT
INSTRUMENTATION
CAMBRIDGE MASS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± .010 ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

NEXT ASSY	USED ON
6015000	

APPLICATION

A. C. METZINGER

MASTER

6007010 C

E1

APOLLO G&N Specification
PS6007010 REV – C
Original Issue Date:
Release Authority: TDRR 31075
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM FLIGHT – QUAL –

DRAWING NO. 6007010

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓜ 10/13/66	A	31527	5, 8, – 11,, 13-22 RDL/AL	MGM EA	WLS
Ⓜ 12/16/66	B	32331	4, 5, 10, 14, 15, 16, 22 RDL/AL	MGM EA	WLS
2/3/67	C	32912	4, 5, 10, 14, 15, 17-22, was 22	MGM EA	--
			pages, now 23 pages. RDL/AL		

This specification consists of page 1 to 23 inclusive.

APPROVALS	NASA/MSC	R M Kowalski 22 Aug 66	M S Hurley 9/12/66 MIT/IL	9/1/66 CCB	19 August 1966 ACSP	E.J.P.

TABLE I

INPUT-OUTPUT PINS AND PARAMETERS

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mvpp)	Max Noise (mvpp)	Max Off-set 2.500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
A1	1-A29	1-A28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-B1	1-C2	10	50	35
A2	1-C29	1-C28							1-C1				
A3	1-F29	1-F28							1-F1				
A4	1-B29	1-B28							1-B2				
A5	1-D29	1-D28							1-D1				
A6	1-G29	1-G28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-D2	1-C2	10	50	35
B1	1-G25	1-F25	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A4	1-C2	10	75	75
B2	1-G26	1-F26	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A5	1-C2	10	75	75
B3	1-G27	1-F27	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-C4	1-C2	10	75	75
B4	--	--	--	--	--	--	3.900	4.700	1-D5	1-C2	30	100	-
B5	1-G37	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-B6	1-C2	30	100	75
B6	1-G38	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-C6	1-C2	30	100	75
B7	1-G39	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-A6	1-C2	30	100	75
C1	1-D37	1-F37	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-B3	1-C2	10	50	35
C2	1-D39	1-F39	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-C3	1-C2	50	100	35
C3	1-D38	1-F38	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-A3	1-C2	50	100	35
C4	--	--	--	--	--	--	4.200	4.800	1-G7	1-C2	10	100	-
C5	1-F17	1-D18	27.50 vdc	28.50 vdc	--	--	3.900	4.800	1-B10	1-A11	30	50	-
C6	--	--	--	--	--	--	3.900	4.800	1-A10	1-A11	30	50	-
C7	1-C19	1-F14* 1-C20	1591.5Ω	1597.5Ω	--	--	4.995	5.005	1-G8	1-C2	50	100	-
C8	--	--	--	--	--	--	2.450**	2.550	1-G5	1-C2	10	100	-
D1	1-A29	1-A28	4.450 vac	5.550 vac	800	5° ±2°	4.995	5.005	1-A7	1-C2	150	250	35
D2	1-C29	1-C28	4.450 vac	5.550 vac	800	5° ±2°			1-B7	1-C2	150	250	35
D3	1-F29	1-F28	4.450 vac	5.550 vac	800	5° ±2°			1-C7	1-C2	150	250	35
D4	1-B31	1-B36	0.445 vdc	0.555 vdc	--	--			1-D12	1-C2	50	150	75
D5	1-D31	1-B36	0.445 vdc	0.555 vdc	--	--	4.995	5.005	1-G12	1-C2	50	150	75

TABLE I (Continued)

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mv pp)	Max Noise (mv pp)	Max Offset 2500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
D6	1-G31	1-B36	0.801 vdc	0.999 vdc	—	—	4.995	5.005	1-F13	1-C2	50	150	75
D7	1-G33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-F9	1-B9	100	100	35
D8	1-F33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-G10	1-B9	100	100	35
D9	1-D20	1-D18	27.5 vdc	28.5 vdc	—	—	3.900	4.800	1-C11	1-C12	30	50	-
D10	1-D19	1-F16	27.72 vac	28.28 vac	800	—	4.000	4.600	1-D11	1-C12	250	500	-
D11	--	--	--	--	--	--	2.450	2.550	1-B8	1-B9	10	100	-
E1	1-C26	1-C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-F4	1-C2	10	50	35
E2	1-D26	1-D25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-G4	1-C2	10	50	35
E3	1-A26	1-A25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-F2	1-C2	10	50	35
E4	1-B26	1-B25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-G3	1-C2	10	50	35
E5	1-A17	1-A18	129.00 vdc	141.00 vdc	—	—	4.995	5.005	1-G6	1-C2	-	60	300
F1	1-B33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C10	1-B9	100	125	35
F2	1-C33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C9	1-B9	100	125	35
F3	1-D33	1-A33	1.080 vac	1.320 vac	800	0° ±2°	4.995	5.005	1-C8	1-B9	100	125	35
F4	1-C32	1-D32	1152.0Ω	1408Ω	—	—	2.495	2.505	1-D13	1-C2	-	-	-
F5	1-B19	1-F14* 1-B20	2007Ω	2067Ω	—	—	4.995	5.005	1-G13	1-C2	50	100	-

* Separate lines from 30J1-F14, 30J1-C20 and 30J1-B20 shall be connected to the same side of the input resistor.

** For vibration and temperature test min. dc voltage 2.420.

(3) 0 to +33 vdc and -33 vdc

(4) 0 to +150 vdc

4.2.1.3 Test Setup. Unless otherwise specified the operating voltages of Table IV shall be applied to the assembly. Each pair of output pins for each assembly section, except assembly sections C7 and F5, shall have a 1 megohm ±1 percent resistor connected between them during vibration and temperature tests and only during monitoring on other tests. Assembly sections C7 and F5 shall have a 500K ohm ±5 percent resistor connected between its output pins during vibration and temperature tests and only during monitoring on other tests.

TABLE IV

OPERATING VOLTAGES

CONNECTOR 30J1		VOLTAGE	FREQUENCY (cps)
Hi	Lo		
C18	D18	28.00±0.28 vdc	--
G15	G16	28.00±0.28V rms	800.0±0.8
A15	A16	28.00±0.28V rms	3200.0±3.2
C17	D18	28.00±0.28 vdc	--
A17	A18	110.00±0.10 vdc	--

4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007010. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be mounted to the vibration fixture in a manner similar to the way it will be mounted in service. The assembly shall be vibrated along the horizontal, vertical and lateral axis (see Figure 2) with simple harmonic motion swept from 10 to 2000 cps at a rate of 1 octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency.

a. The continuity of the assembly shall be continuously monitored during vibration at the pins specified in Table VI. Any evidence of discontinuity shall be cause for rejection. The continuity monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any open circuit.

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I ±12-1/2% from nominal to obtain the outputs specified therein, except for assembly Sections C5 and D9, which shall be set to input conditions, except that the input required to establish the output specified for assembly Sections D1, D2 and D3 shall be used to establish the output for assembly Sections A1, A2 and A3. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

c. The pins specified in Table V shall be continuously monitored during vibration for discontinuity and circuit isolation. The monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any discontinuity and/or short circuit.

4.3.3 Temperature Test. The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table I ±12-1/2% from nominal to obtain the outputs specified therein, except for assembly sections C5 and D9 which shall be set to input conditions. The input and output voltages shall then be measured and recorded.

b. The assembly shall be soaked at 49° ±3°C for 4 hours. The soak period inputs for assembly section A1, A2 and A3 shall be determined by the inputs of assembly section D1, D2 and D3. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.

4.3.4 Continuity and DC Resistance. The resistance between the pins specified in Table II shall be measured with a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202.

4.3.5 Insulation Resistance. The resistance from each connector pin except those pins specified in Table III, to the assembly frame shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 μa. The resistance shall be greater than or equal to 100 megohms.

4.3.6 Offset Voltage. With each input Hi pin specified in Table I connected to its respective input Lo pin, the dc voltage appearing across the output pins specified in Table I shall be as specified therein, except for assembly section E5 which shall have a 110.00±0.10 vdc input.

4.3.7 Scale Factor. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein and the input and output voltages recorded.

4.3.8 Output Ripple and Noise. The input signal voltages shall be adjusted within the range specified in Table I to obtain the outputs specified in Table I, and the peak-to-peak ripple voltage or noise appearing at the corresponding output pins measured and recorded. The ripple voltage or noise appearing at the output pins shall be less than or equal to the value specified in Table I. (See Figure 3 and Filter Circuit Figure 3A).

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3.0 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo) and 30J1-C20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.10 IRIG Sensor Output. With a sensor resistance of 2037.0±30.0 ohms connected across 30J1-B19 (Hi) and 30J1-F14 (Lo) and 30 J1-B20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.11 PIPA Thermistor Output. With a sensor input resistance of 1280.0±128 ohms connected across 30J1-C32 and 30J1-D32, the output voltage shall be 2.500±0.005 vdc.

4.3.12 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.13 Calibration

4.3.13.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D7
D8
E1
E2
E3
E4
F1
F2
F3

a. Adjust the ratio transformer to 0.0000.

b. Adjust e_2 for a 2.500±0.005 vdc E_0 output. The e_1 voltage shall be 0V rms. Record the voltage and phase of e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.000. Set e_1 to zero phase and adjust for a 5.000±0.005 vdc E_0 output. Record the e_{in} and e_1 voltage and phase.

d. Adjust the ratio transformer for an E_0 output of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

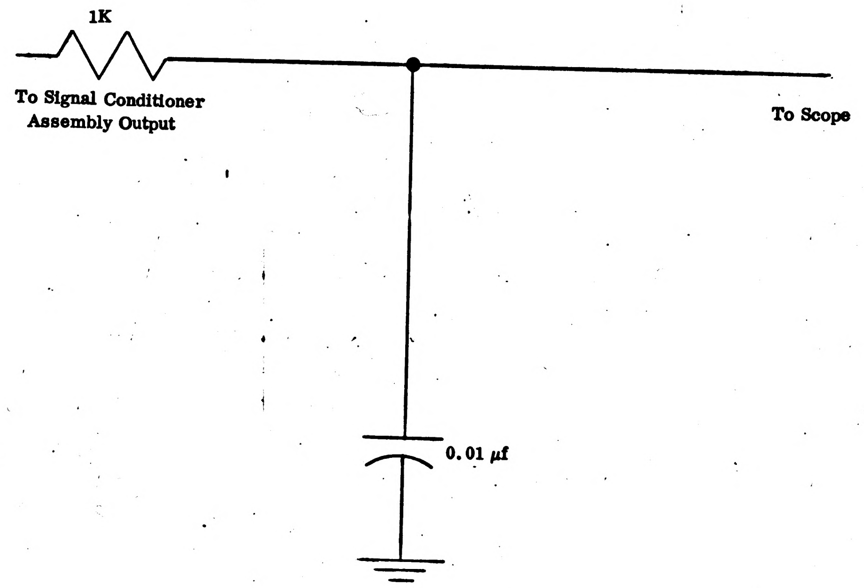
e. Adjust the ratio transformer for an E_0 output of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.13.1.c. Record the voltage and phase of e_{in} and e_1.

g. Adjust the ratio transformer for an E_0 output of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000±5 percent. Record the e_{in} voltage and phase.

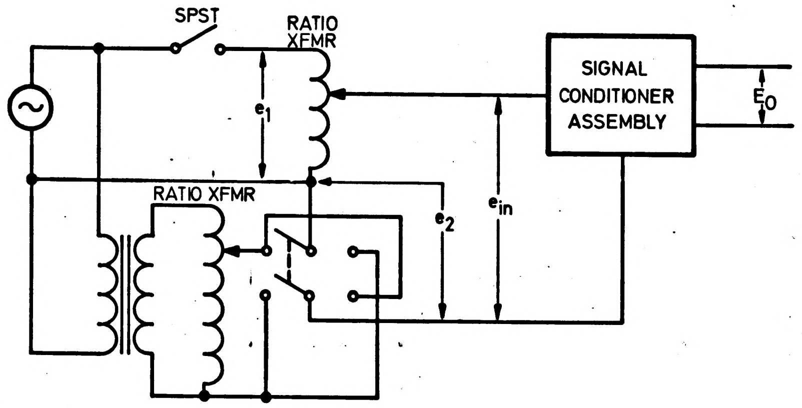
h. Adjust the ratio transformer for an E_0 output of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

i. Adjust the ratio transformer for an E_0 output of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.


1K
To Signal Conditioner Assembly Output
To Scope
0.01 μf

RIPPLE AND NOISE FILTER NETWORK

FIGURE 3A


SPST
RATIO XFMR
e_1
RATIO XFMR
e_2
e_{in}
SIGNAL CONDITIONER ASSEMBLY
E_0

AC CIRCUIT CALIBRATION

FIGURE 4

4.3.13.2 DC Input Circuit E5. Assembly Section E5 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 5.

a. Set variable step resistor, R1, to 0.0000 and adjust E_2 for an E_0 output of 2.500±0.005 vdc. The E_1 voltage shall be 0 vdc. Record the voltage and polarity of E_{in} and E_2. The magnitude and polarity of E_2 shall be maintained throughout the remainder of this test.

b. Set variable step resistor, R_1, to 1.0000. Adjust E_1 and set to obtain an E_o output of 5.000±0.005 vdc. Record the voltage and polarity of E_{in} and E_1. The E_1 voltage shall be +25 vdc ±10%.

c. Adjust R1 for E_o output of 4.000±0.005 vdc and R1 shall indicate 0.6000±5 percent. Record the E_{in} voltage and polarity.

d. Adjust R1 for an E_o output of 3.000±0.005 vdc and R1 shall indicate 0.2000±5 percent. Record the E_{in} voltage and polarity.

e. Adjust R1 to 1.000. Set E_1 to opposite polarity and adjust it to produce E_1 voltage and magnitude recorded in 4.3.13.2.b. Record the E_{in} voltage and polarity.

f. Adjust R1 for an E_o output of 0.000±0.005 vdc and R1 shall indicate 1.000±5 percent. Record the E_{in} voltage and polarity.

g. Adjust R1 for an E_o output of 1.000±0.005 vdc and R1 shall indicate 0.6000±5 percent. Record E_{in} voltage and polarity.

h. Adjust R1 for an E_o output of 2.000±0.005 vdc and R1 shall indicate 0.2000±5 percent. Record E_{in} voltage and polarity.

4.3.13.3 DC Input Circuits D4, D5 and D6. Assembly sections D4, D5 and D6 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 5.

a. Set variable step resistor, R_1, to 0.0000 and adjust E_2 for an E_0 output of 2.500±0.005 vdc. The E_1 voltage shall be 0 vdc. Record the voltage and polarity of E_{in} and E_2. The magnitude and polarity of E_2 shall be maintained throughout the remainder of this test.

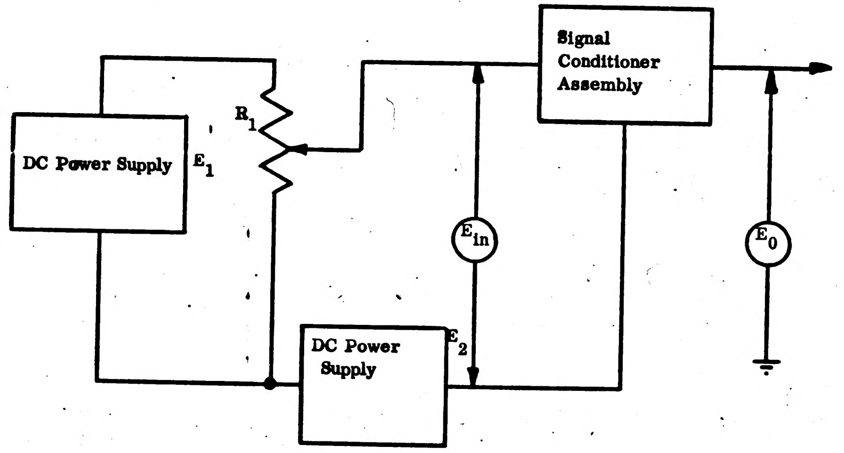
b. Set variable step resistor, R_1, to 1.000. Adjust E1 and set to obtain an E_0 output of 5.000±0.005 vdc. Record the E_{in} voltage and polarity and the value of E_1.

c. Adjust R_1 for an E_0 output of 4.000±0.005 vdc and R_1 shall indicate 0.6000±5 percent. Record the E_{in} voltage and polarity.

d. Adjust R_1 for an E_0 output of 3.000±0.005 vdc and R_1 shall indicate 0.2000±5 percent. Record the E_{in} voltage and polarity.

e. Adjust R_1 to 1.000. Set E_1 to opposite polarity and adjust it to produce E_1 voltage magnitude recorded in 4.3.13.3.b. Record the E_{in} voltage and polarity.

f. Adjust R_1 for an E_0 output of 0.000±0.005 vdc and R_1 shall indicate 1.000±5 percent. Record the E_{in} voltage and polarity.


DC Power Supply
E1
R1
Signal Conditioner Assembly
Ein
E0
DC Power Supply
E2

DC CIRCUIT CALIBRATION

FIGURE 5

g. Adjust R_1 for an E_0 output of 1.000±0.005 vdc and R_1 shall indicate 0.6000 ±5 percent. Record E_{in} voltage and polarity.

h. Adjust R_1 for an E_0 output of 2.000±0.005 vdc and R_1 shall indicate 0.2000±5 percent. Record E_{in} voltage and polarity.

4.3.13.4 Sensor Circuit C7. Assembly section C7 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 6.

a. With e_{in} adjusted to 28.00±0.28 vdc, adjust the decade resistor across 30J1-C 19 (Hi) and 30J1-F14 (Lo), 30J1-C20 (Lo) for an E_0 output of 5.000±0.005 vdc. The decade resistance shall be recorded and shall be 1594.5±3 ohms.

b. Adjust the decade resistor for an E_0 output of 4.000±0.005 vdc. The decade resistance shall be recorded and shall be 1580.7±3.0 ohms.

c. Adjust the decade resistor for an E_0 output of 3.000±0.005 vdc. The decade resistance shall be recorded and shall be 1566.9±3.0 ohms.

d. Adjust the decade resistor for an E_0 output of 2.000±0.005 vdc. The decade resistance shall be recorded and shall be 1553.1±3.0 ohms.

e. Adjust the decade resistor for an E_0 output of 1.000±0.005 vdc. The decade resistance shall be recorded and shall be 1539.3±3.0 ohms.

f. Adjust the decade resistor for an E_0 output of 0.000±0.005 vdc. The decade resistance shall be recorded and shall be 1525.5±3.0 ohms.

4.3.13.5 Sensor Circuit F5. Assembly section F5 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 6.

a. With e_{in} adjusted to 28.00±0.28 vdc, adjust the decade resistor across 30J1-B19 (Hi) and 30J1-F14 (Lo), 30J1-B20 (Lo) for an output E_0 of 5.000±0.005 vdc. The decade resistance shall be recorded and shall be 2037±30 ohms.

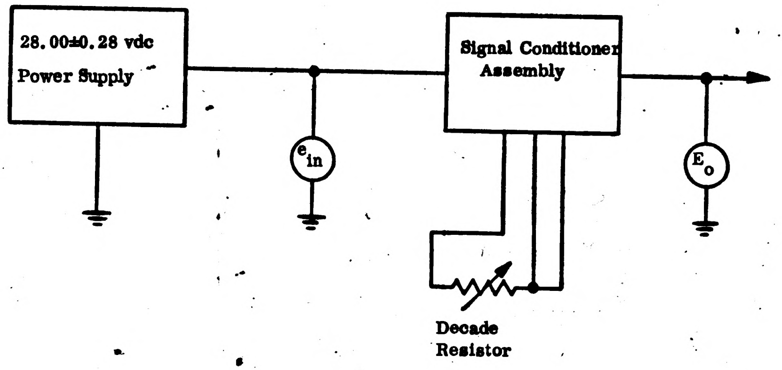
b. Adjust the decade resistor for an E_0 output of 4.000±0.005 vdc. The decade resistance shall be recorded and shall be 2167±30 ohms.

c. Adjust the decade resistor for an E_0 output of 3.000±0.005 vdc. The decade resistance shall be recorded and shall be 2308±30 ohms.

d. Adjust the decade resistor for an E_0 output of 2.000±0.005 vdc. The decade resistance shall be recorded and shall be 2464±30 ohms.

e. Adjust the decade resistor for an E_0 output of 1.000±0.005 vdc. The decade resistance shall be recorded and shall be 2632±30 ohms.

f. Adjust the decade resistor for an E_0 output of 0.000±0.005 vdc. The decade resistance shall be recorded and shall be 2816±30 ohms.


28.00±0.28 vdc
Power Supply
Signal Conditioner
Assembly
e_{in}
E_o
Decade
Resistor

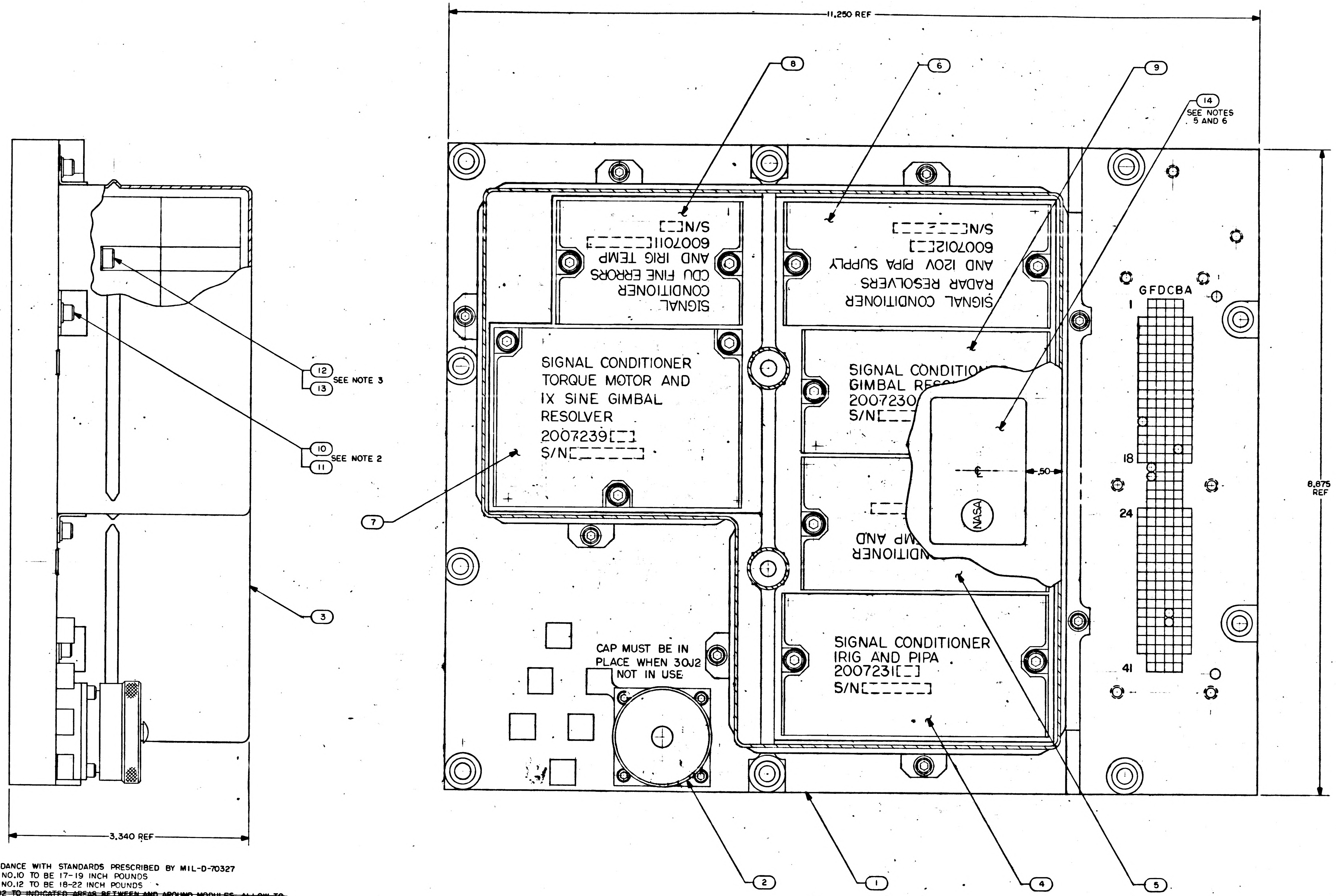
SENSOR CIRCUIT CALIBRATION

FIGURE 6

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Paragraph 4.3.1 and Specification ND1002214.

6. NOTES. None.


11,250 REF
8,875 REF
3,340 REF
.50
SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP
6007011[ ]
S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY
6007012[ ]
S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND 1X SINE GIMBAL RESOLVER
2007239[ ]
S/N[ ]
SIGNAL CONDITI GIMBAL RES
200723
S/N[
MP AND
NDITIONER
SIGNAL CONDITIONER IRIG AND PIPA
2007231[ ]
S/N[ ]
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
NASA
GFDCBA
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SEE NOTES 5 AND 6
SEE NOTE 3
SEE NOTE 2
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NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.10 TO BE 17-19 INCH POUNDS
3. MOUNTING TORQUE FOR FIND NO.12 TO BE 18-22 INCH POUNDS
4. ~~APPLY SEALANT 1006338-002 TO INDICATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING~~
5. IDENTIFY WITH PART NO PER ND1002019 AND SERIALIZE PER ND1002023
6. BOND FIND NO.14 TO FIND NO.3 PER ND1002219
7. MATING SURFACES OF MODULES AND HEADER TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.
8. PROCURE PER P.S.6007010
9. APPLY A THIN COAT OF SILICONE GREASE, 1006879, TO THE MOUNTING SURFACE OF FIND NOS. 4,5,6,7,8 AND 9. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING PERMITTED.

6015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

6007010 D

1/6007010

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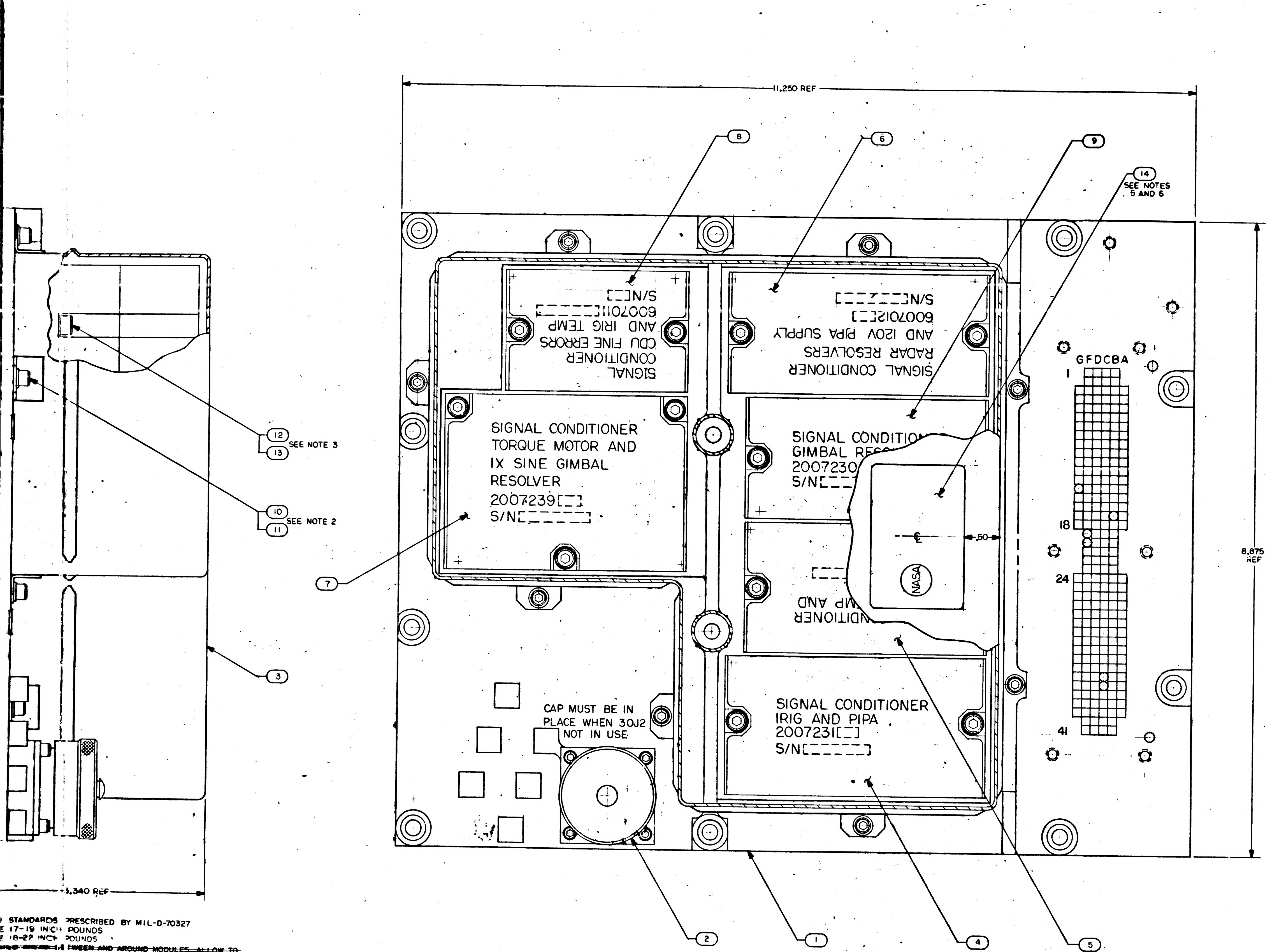
REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
C		REPLACES WORD DRAWING REV B PER TDRR 29351	EJM		27 May 66		
D		REVISED PER TDRR 32423	REP		11 JAN 67		



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SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY 6007012[ ] S/N[ ]
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SIGNAL CONDITIONER TORQUE MOTOR AND IX SINE GIMBAL RESOLVER 2007239[ ] S/N[ ]
SIGNAL CONDITION GIMBAL RES 200723 S/N[
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CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SIGNAL CONDITIONER IRIG AND PIPA 2007231[ ] S/N[ ]
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H STANDARDS PRESCRIBED BY MIL-D-70327
E 17-19 INCH POUNDS
E 18-22 INCH POUNDS
~~EEN AND AROUND MODULES. ALLOW TO~~
~~IMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY~~
~~PRIOR TO SEALING~~
AND SERIALIZE PER ND1002023
1002219
DER TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.

6979, TO THE MOUNTING SURFACE OF FIND NOS. 4,5,6,7,8 AND 9.
LEANING PERMITTED.

6007010 D

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1004260-196	NAMEPLATE	14
12	2008033-1	WASHER, THRUST	13
12	1010977-001	SCREW, CAP, HEX SOCKET HEAD	12
8	2004148-003	WASHER, FLAT	11
8	1008874-017	SCREW, CAP, SOCKET HEAD	10
1	2007230-011	GIMBAL RESOLVER SIG COND	9
1	6007011-011	CDU FINE ERRORS AND IRIG TEMP SIG COND	8
1	2007239-011	TOR MTR AND IX SINE GMBL RSVR SIG COND	7
1	6007012-011	RADAR RSVR AND 120V PIPA SUP SIG COND	6
1	2007233-011	DAC PIPA TEMP AND 2.5V BIAS SIG COND	5
1	2007231-011	IRIG AND PIPA SIG COND	4
1	6008057	COVER	3
1	2008389-016	CAP, PROTECTIVE	2
1	6007016-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

6007010 D

6015000	
NEXT ASSY	USED ON
APPLICATION	

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CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 5 MAY 66
CHECKED 27 May 66
APPROVED V. O. 31 May 66
APPROVED 3 June 66
APPROVED MIT 6-3-66
R. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM FLIGHT QUAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007010
SCALE 2/1		SHEET 1 OF 1

4 3 2 1

2/6007010

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3.0 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo) and 30J1-C20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.10 IRIG Sensor Output. With a sensor resistance of 2037.0±30.0 ohms connected across 30J1-B19 (Hi) and 30J1-F14 (Lo) and 30 J1-B20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.11 PIPA Thermistor Output. With a sensor input resistance of 1280.0±128 ohms connected across 30J1-C32 and 30J1-D32, the output voltage shall be 2.500±0.005 vdc.

4.3.12 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.13 Calibration

4.3.13.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D7
D8
E1
E2
E3
E4
F1
F2
F3

a. Adjust the ratio transformer to 0.0000.

b. Adjust e_2 for a 2.500±0.005 vdc E_0 output. The e_1 voltage shall be 0.000±0.005V rms. Record the voltage and phase of e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.000. Set e_1 to zero phase and adjust for a 5.000±0.005 vdc E_0 output. Record the e_{in} and e_1 voltage and phase.

d. Adjust the ratio transformer for an E_0 output of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

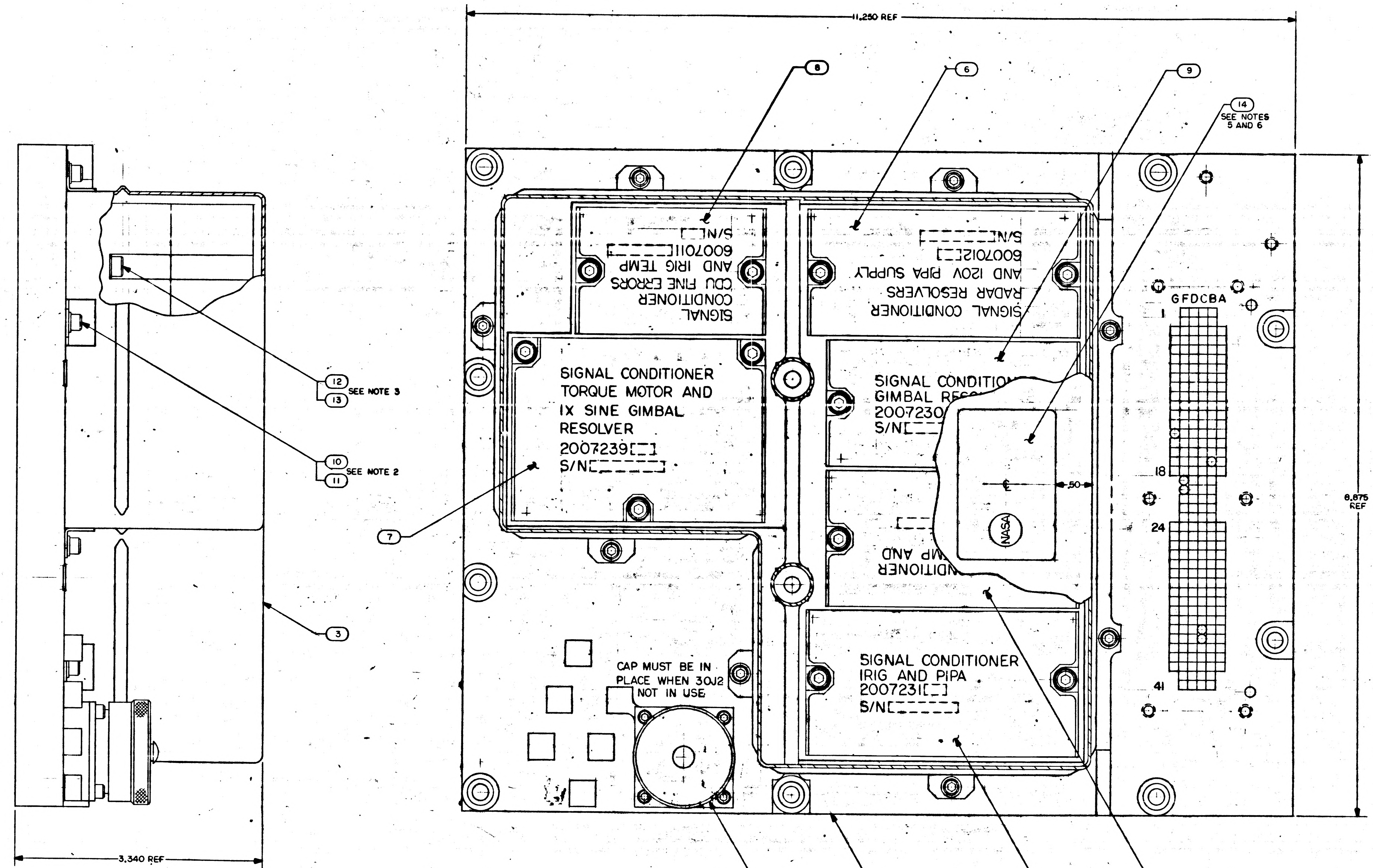
e. Adjust the ratio transformer for an E_0 output of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.13.1.c. Record the voltage and phase of e_{in} and e_1.

g. Adjust the ratio transformer for an E_0 output of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000±5 percent. Record the e_{in} voltage and phase.

h. Adjust the ratio transformer for an E_0 output of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

i. Adjust the ratio transformer for an E_0 output of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.


11.250 REF
8.875 REF
3.340 REF
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SEE NOTES 5 AND 6
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SEE NOTE 3
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SEE NOTE 2
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SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP 6007011[ ] S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY 6007012[ ] S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND 1X SINE GIMBAL RESOLVER 2007239[ ] S/N[ ]
SIGNAL CONDITI GIMBAL RESO 2007230 S/N[
CONDITIONER MP AND
SIGNAL CONDITIONER IRIG AND PIPA 2007231[ ] S/N[ ]
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
GFDCBA
1
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24
41
.50
NASA

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8. PROCURE PER P.S.6007010
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6015000	
NEXT ASSY	USED ON
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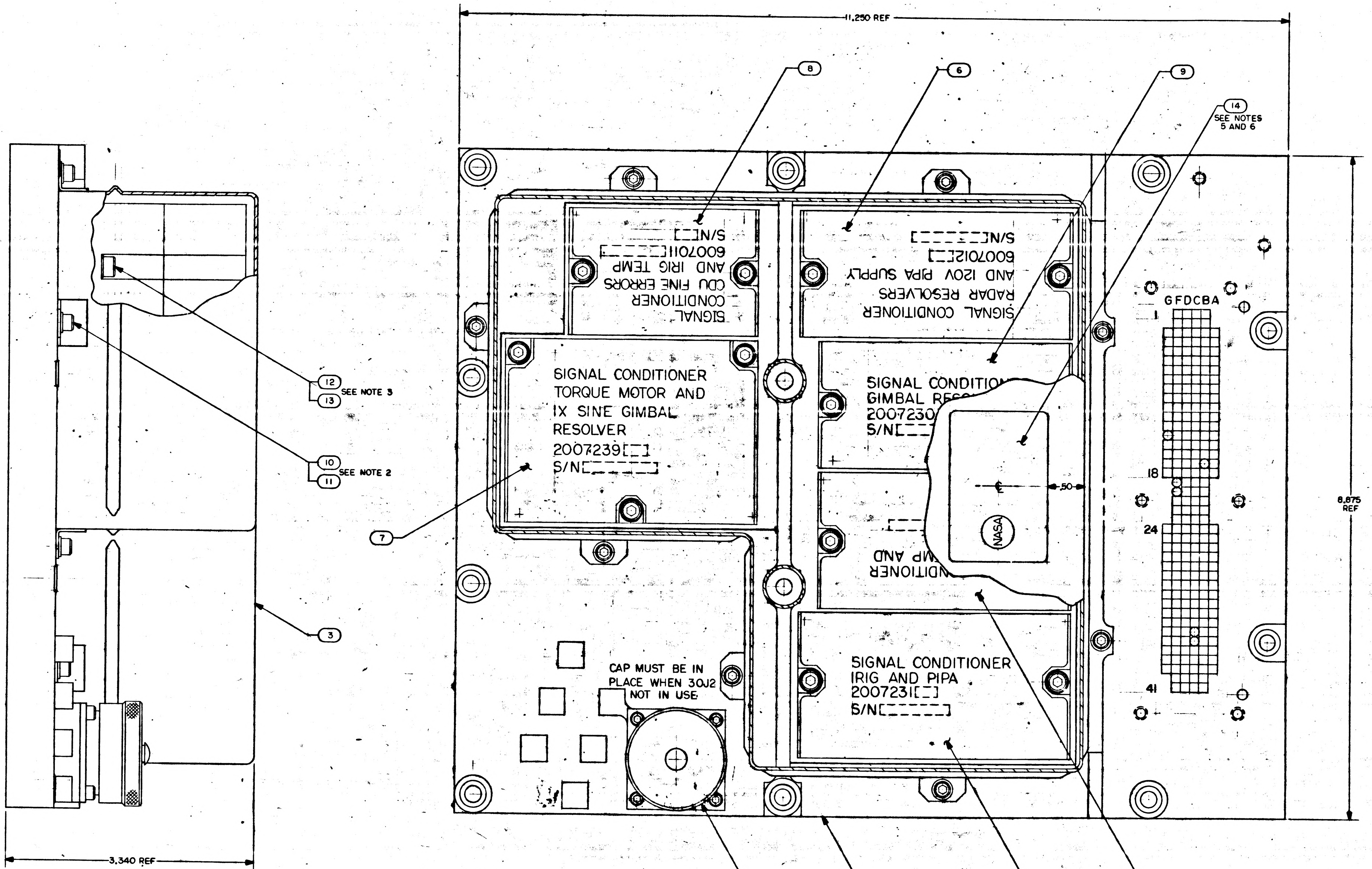
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

6007010 E

1/6007010


11.250 REF
8.875 REF
3.340 REF
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SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP
6007011[ ]
S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY
6007012[ ]
S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND 1X SINE GIMBAL RESOLVER
2007239[ ]
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GIMBAL RES
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NDITIONER
MP AND
SIGNAL CONDITIONER IRIG AND PIPA
2007231[ ]
S/N[ ]
NASA
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
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SEE NOTES 5 AND 6
SEE NOTE 3
SEE NOTE 2

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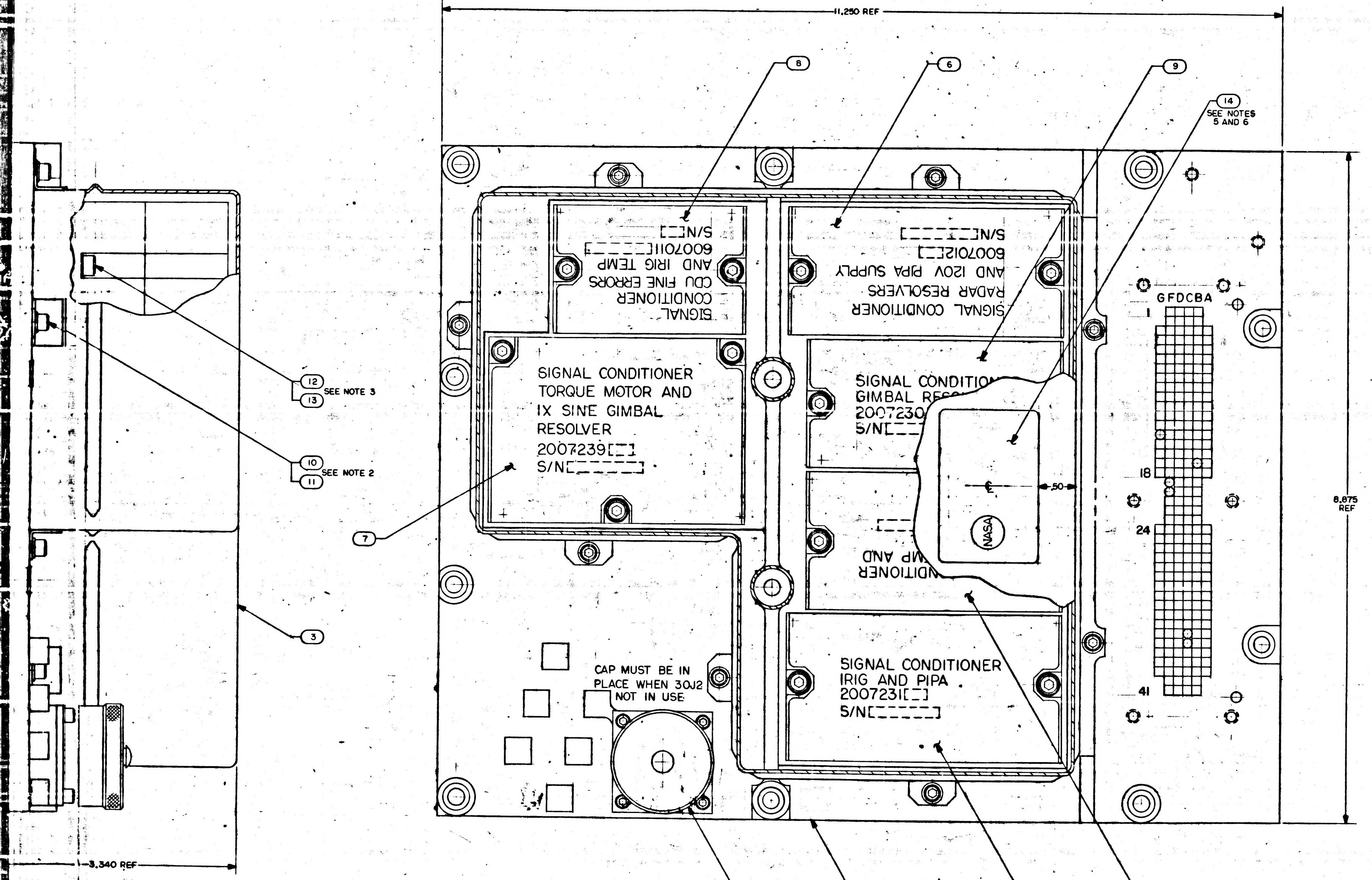
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

6007010 E

		REVISIONS				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DRAWING REV B PER TDRR 29351			27 May 66	
D		REVISED PER TDRR 32423	REP		11 JAN 67	
E		REVISED PER TDRR 32736	DR		26 JAN 67	



11.250 REF
8.875 REF
3.340 REF
SEE NOTES 5 AND 6
SEE NOTE 3
SEE NOTE 2
SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP 6007011[ ] S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY 6007012[ ] S/N[ ]
SIGNAL CONDITIONER TORQUE MOTOR AND 1X SINE GIMBAL RESOLVER 2007239[ ] S/N[ ]
SIGNAL CONDITIONER GIMBAL RESOLVER 2007230 S/N[
CONDITIONER MP AND
SIGNAL CONDITIONER IRIG AND PIPA 2007231[ ] S/N[ ]
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
GFDCBA
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TH STANDARDS PRESCRIBED BY MIL-D-70327
BE 17-19 INCH POUNDS
18-22 INCH POUNDS
~~CATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO~~
~~IMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY~~
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AND SERIALIZE PER ND1002023
ND1002219
DIR TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.

4678, TO THE MOUNTING SURFACE OF FIND NOS. 4,5,6,7,8 AND 9.
CLEANING PERMITTED.

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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13	1010977-001	SCREW, CAP, HEX SOCKET HEAD	12
8	2004148-003	WASHER, FLAT	11
8	1008874-017	SCREW, CAP, SOCKET HEAD	10
1	2007230-011	GIMBAL RESOLVER SIG COND	9
1	6007011-011	CDU FINE ERRORS AND IRIG TEMP SIG COND	8
1	2007239-011	TOR MTR AND 1X SINE GMBL RSVR SIG COND	7
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1	2008389-016	CAP, PROTECTIVE	2
1	6007016-011	HEADER ASSEMBLY	1
-011		LIST OF MATERIALS	

6015000	
NEXT ASSY	USED ON
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CAPACITOR VALUES ARE IN μf
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TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 3 MAY 66
CHECKED L. Hall 27 May 66
APPROVED V. A. Kaguina 31 May 66
APPROVED 3 June 66
APPROVED MIT 5-3-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007010
SCALE 2/1
SHEET 1 OF 1

6007010 E

2/6007010

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SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
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D		REVISED PER TDRR 32423	REP		11 JAN 67		
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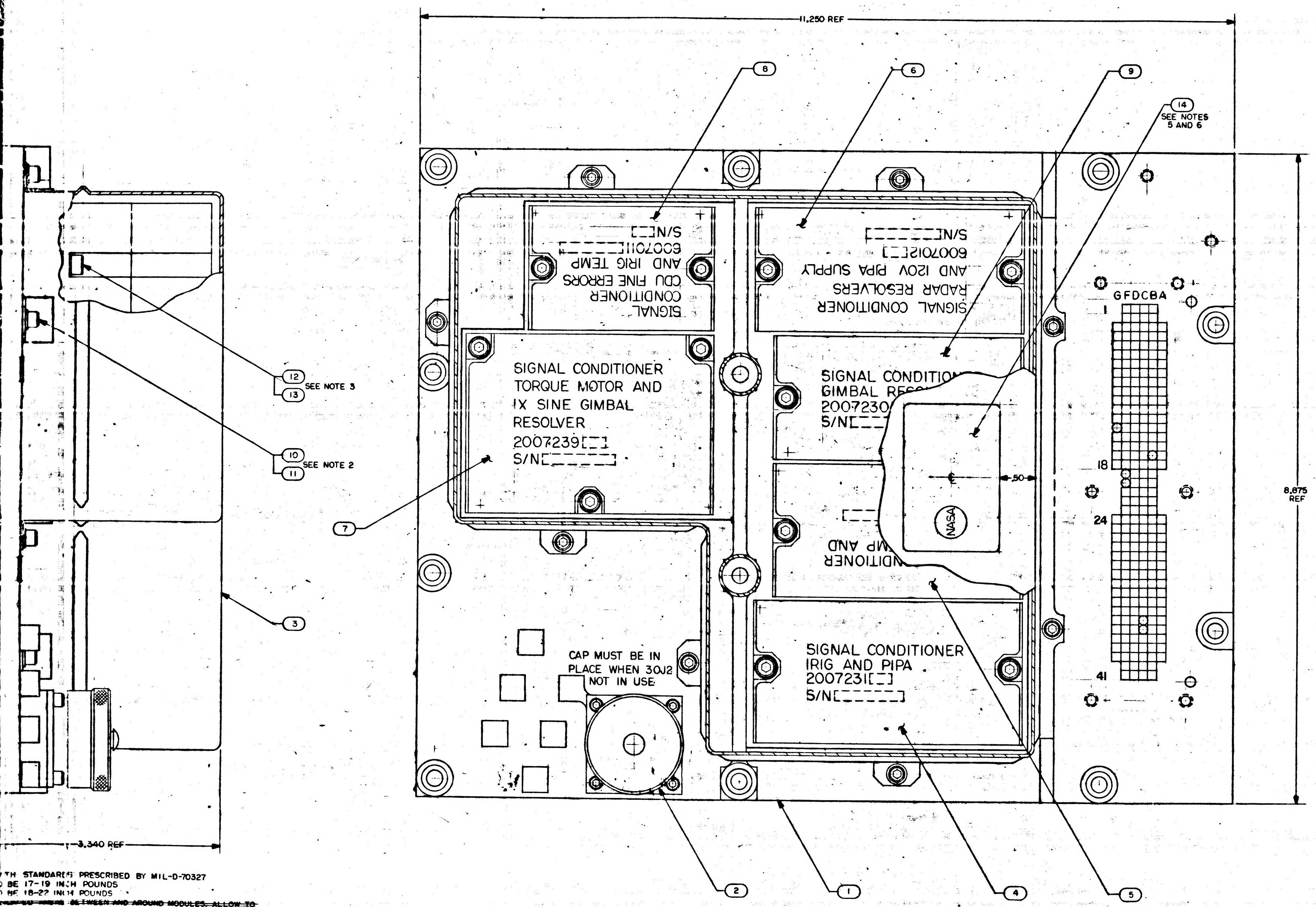
11.250 REF
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SEE NOTES 5 AND 6
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6007011[ ]
CDU FINE ERRORS AND IRIG TEMP SIGNAL CONDITIONER
S/N[ ]
6007012[ ]
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MP AND
NDITIONER
SIGNAL CONDITIONER IRIG AND PIPA
2007231[ ]
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CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
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SEE NOTE 3
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SEE NOTE 2
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TH STANDARDS PRESCRIBED BY MIL-D-70327
BE 17-19 INCH POUNDS
BE 18-22 INCH POUNDS
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-011	LIST OF MATERIALS		

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6015000	
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FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 3 May 66
CHECKED 27 May 66
APPROVED V. A. Kaprina 31 May 66
APPROVED 3 June 66
APPROVED MIT 6-3-66
R. C. METZGER
APPROVED MSC
DATE

SIGNAL CONDITIONER ASSY
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007010
SCALE 2/1
SHEET 1 OF 1

6007010 E

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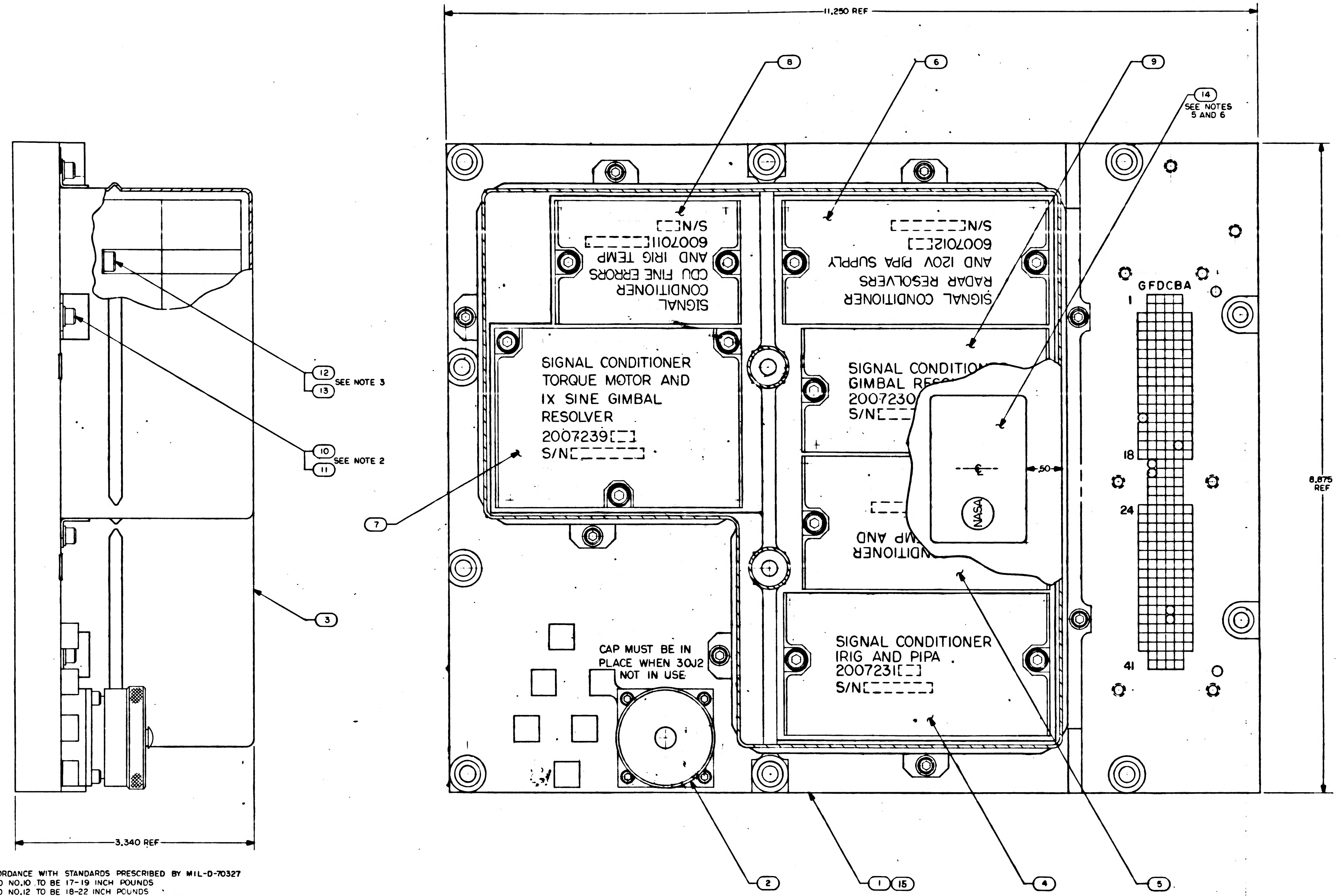

11,250 REF
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SEE NOTES 5 AND 6
SIGNAL CONDITIONER CDU FINE ERRORS AND IRIG TEMP
6007011[ ]
S/N[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY
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SIGNAL CONDITIONER TORQUE MOTOR AND IX SINE GIMBAL RESOLVER
2007239[ ]
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SIGNAL CONDITIONER IRIG AND PIPA
2007231[ ]
S/N[ ]
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
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8.875 REF
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SEE NOTE 3
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SEE NOTE 2
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3.340 REF

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9. APPLY A THIN COAT OF SILICONE GREASE, 1006879, TO THE MOUNTING SURFACE OF FIND NOS. 4,5,6,7,8 AND 9. EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING PERMITTED.

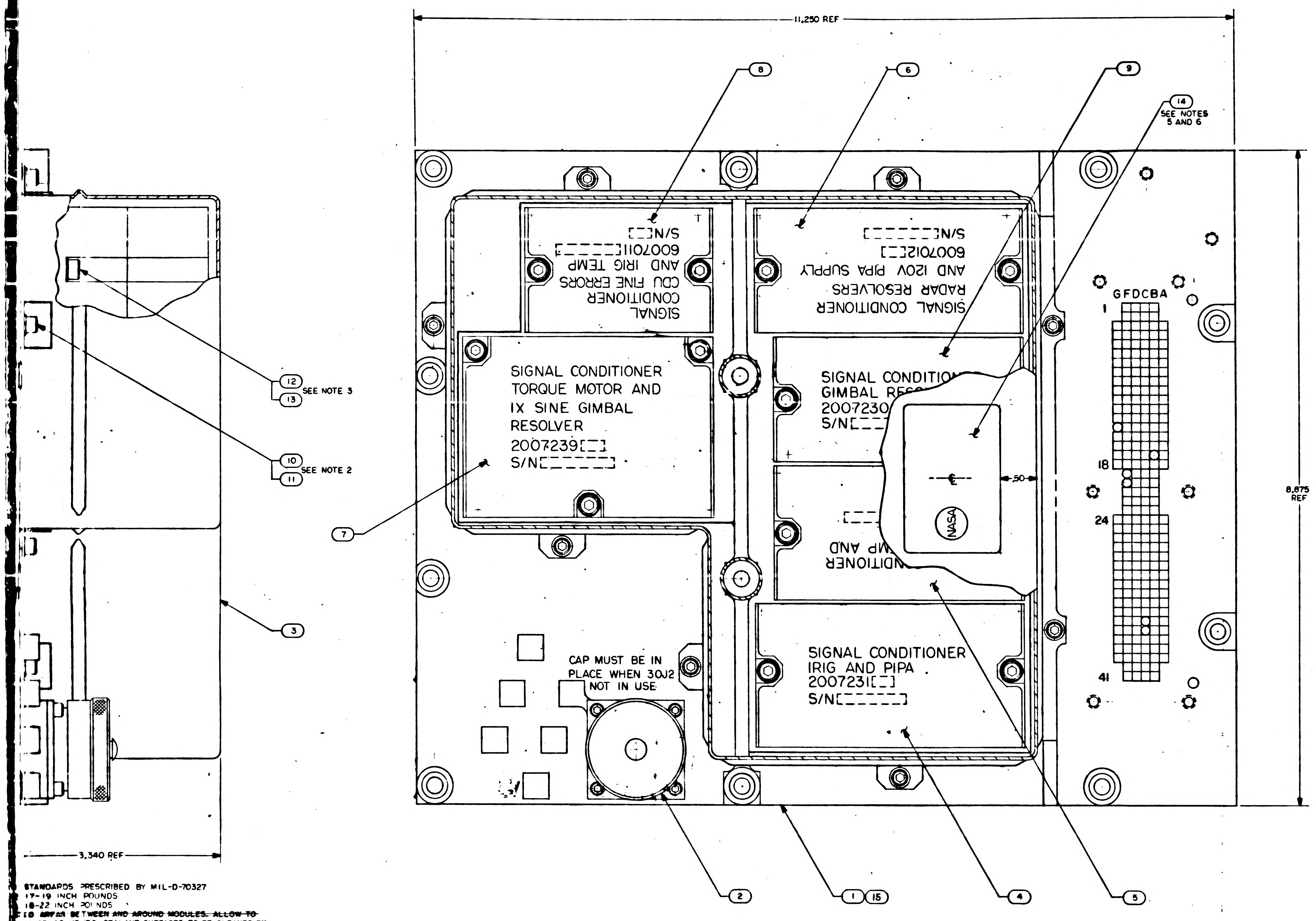
6007010 F

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± .03 ± — DO NOT SCALE THIS DRAWING
5000		MATERIAL
NEXT ASSY	USED ON	
APPLICATION		

6007010 F

1 [illegible] 6007010

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
REVISIONS							
C		REPLACES WORD DRAWING REV B PER TDRR 29351			27 May 66		
D		REVISED PER TDRR 32423	REP		11 JAN 67		
E		REVISED PER TDRR 32736	DR		26 JAN 67		
F		REVISED PER TDRR 34547	MJC		13 SEP 67		



11.250 REF
8
6
9
14
SEE NOTES 5 AND 6
S/N[ ]
6007011[ ]
CDU FINE ERRORS AND IRIG TEMP
SIGNAL CONDITIONER
S/N[ ]
6007012[ ]
SIGNAL CONDITIONER RADAR RESOLVERS AND 120V PIPA SUPPLY
GFDCBA
1
18
24
41
SIGNAL CONDITIONER TORQUE MOTOR AND IX SINE GIMBAL RESOLVER
2007239[ ]
S/N[ ]
SIGNAL CONDITI
GIMBAL RESO
2007230
S/N[
.50
NASA
MP AND
NDITIONER
8.875 REF
12
13
SEE NOTE 3
10
11
SEE NOTE 2
7
3
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SIGNAL CONDITIONER IRIG AND PIPA
2007231[ ]
S/N[ ]
3.340 REF
2
1
15
4
5

STANDARDS PRESCRIBED BY MIL-D-70327
17-19 INCH POUNDS
18-22 INCH POUNDS
~~ED AREAS BETWEEN AND AROUND MODULES. ALLOW TO~~
~~OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY~~
~~ALCOHOL PRIOR TO SEALING~~
AND SERIALIZE PER ND1002023
ND1002219
TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.

, TO THE MOUNTING SURFACE OF FIND NOS. 4,5,6,7,8 AND 9.
NING PERMITTED.

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
1	—	6007016-021	HEADER ASSEMBLY	15
1	1	1004260-196	NAMEPLATE	14
13	13	2008033-1	WASHER, THRUST	13
13	13	1010977-001	SCREW, CAP, HEX SOCKET HEAD	12
8	8	2004148-003	WASHER, FLAT	11
8	8	1008874-017	SCREW, CAP, SOCKET HEAD	10
1	1	2007230-011	GIMBAL RESOLVER SIG COND	9
1	1	6007011-011	CDU FINE ERRORS AND IRIG TEMP SIG COND	8
1	1	2007239-011	TOR MTR AND IX SINE GMBL RSVR SIG COND	7
1	1	6007012-011	RADAR RSVR AND 120V PIPA SUP SIG COND	6
1	1	2007233-011	DAC PIPA TEMP AND 2.5V BIAS SIG COND	5
1	1	2007231-011	IRIG AND PIPA SIG COND	4
1	1	6008057	COVER	3
1	1	2008389-016	CAP, PROTECTIVE	2
—	1	6007016-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 5 May 66
CHECKED 27 May 66
APPROVED V O [illegible] May 66
APPROVED 3 June 66
APPROVED MIT 5-3-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM FLIGHT QUAL

CODE IDENT NO. 60230
SIZE J2
DRAWING NO. 6007010
SCALE 2/1
SHEET 1 OF 1

6007010 F

6007010 F

2H

2/6007010

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

PART NO.	DESCRIPTION	ASS'Y DASH NO. -011 QTY.
6007011-011	CDU FINE ERRORS	1
	TORQUE MOTOR & GIMBAL RESOLVERS	1
	RADAR RESOLVERS & 120V PIPA SUPPLY	1
	DAC, PIPA TEMP. & 2.5V BIAS	1
	PIPA & IRIG	1
2007230-011	GIMBAL RESOLVER	1
	GASKET, SEALING PLATE-OUTPUT CONN.	1
2008033-1	WASHER FLAT	14
1010977-001	SCREW, CAPTIVE	14
	COVER	1
	HEADER ASSEMBLY	1

MASTER

REVISIONS 26048						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Louis A Lee 3 Feb 66
CHECKED R. P. [illegible] 3 Feb 66
APPROVED V. A. Kopra 4 Feb 66
APPROVED
APPROVED MIT [illegible] 9 Feb 66
J. E. MILLER
APPROVED MSC
DATE

SIGNAL CONDITIONER ASSY LEM
FLIGHT-QUAL

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6007010
SCALE —
SHEET 1 OF 1

6007010

APOLLO G&N Specification
PS6007010 REV —
Original Issue Date:
Release Authority: TDRR 31075
Class A **Release**
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM FLIGHT - QUAL

DRAWING NO. 6007010

Record of Revisions

Ⓜ

Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA

This specification consists of page 1 to 22 inclusive.

APPROVALS	NASA/MSC	RbKowalski 22 Aug 66	MIT/IL CCB	19 August 1966 ACSP E.J.P.

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Signal Conditioner Assembly, LEM Flight – Qual, hereafter called the assembly, Part Number 6007010-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing, and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Sub-assemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202	Test Methods for Electronics and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007010	Signal Conditioner Assembly, LEM Flight – Qual

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. This contract
b. This specification
c. Documents listed in this specification

TABLE I

INPUT-OUTPUT PINS AND PARAMETERS

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mvpp)	Max Noise (mvpp)	Max Offset 2.500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
A1	1-A29	1-A28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-B1	1-C2	10	20	35
A2	1-C29	1-C28	↕	↕	↕	↕	↕	↕	1-C1	↕	↕	↕	↕
A3	1-F29	1-F28	↕	↕	↕	↕	↕	↕	1-F1	↕	↕	↕	↕
A4	1-B29	1-B28	↕	↕	↕	↕	↕	↕	1-B2	↕	↕	↕	↕
A5	1-D29	1-D28	↕	↕	↕	↕	↕	↕	1-D1	↕	↕	↕	↕
A6	1-G29	1-G28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	1-D2	1-C2	10	20	35
B1	1-G25	1-F25	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A4	1-C2	10	20	75
B2	1-G26	1-F26	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-A5	1-C2	10	20	75
B3	1-G27	1-F27	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	1-C4	1-C2	10	20	75
B4	--	--	--	--	--	--	4.200	4.800	1-D5	1-C2	25	40	-
B5	1-G37	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-B5	1-C2	25	40	75
B6	1-G38	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-C6	1-C2	25	40	75
B7	1-G39	1-G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	1-A6	1-C2	25	40	75
C1	1-D37	1-F37	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-B3	1-C2	10	20	35
C2	1-D39	1-F39	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-C3	1-C2	50	100	35
C3	1-D38	1-F38	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	1-A3	1-C2	50	100	35
C4	--	--	--	--	--	--	4.200	4.800	1-G7	1-C2	10	100	-
C5	1-F17	1-D18	27.50 vdc	28.50 vdc	--	--	4.000	4.600	1-B10	1-A11	30	50	-
C6	--	--	--	--	--	--	4.000	4.600	1-A10	1-A11	30	50	-
C7	1-C19	1-F14* 1-C20	1591.5Ω	1597.5Ω	--	--	4.995	5.005	1-G8	1-C2	50	100	-
C8	--	--	--	--	--	--	2.450	2.550	1-G5	1-C2	10	100	-
D1	1-A29	1-A28	4.450 vac	5.550 vac	800	5° ±2°	4.995	5.005	1-A7	1-C2	150	250	35
D2	1-C29	1-C28	4.450 vac	5.550 vac	800	5° ±2°	↕	↕	1-B7	1-C2	150	250	35
D3	1-F29	1-F28	4.450 vac	5.550 vac	800	5° ±2°	↕	↕	1-C7	1-C2	150	250	35
D4	1-B31	1-B36	0.445 vdc	0.555 vdc	--	--	↕	↕	1-D12	1-C2	50	150	75
D5	1-D31	1-B36	0.445 vdc	0.555 vdc	--	--	4.995	5.005	1-G12	1-C2	50	150	75

TABLE I (Continued)

ASSY SEC	INPUTS						OUTPUTS						
	Input Pins 30J		Input Parameters		Input Frequency		VDC		Output Pins 30J		Max Ripple (mv pp)	Max Noise mv pp)	Max Offset 2500 vdc ± (mv dc)
	Hi	Lo	Min	Max	cps	leads ref	Min	Max	Hi	Lo			
D6	1-G31	1-B36	0.801 vdc	0.999 vdc	—	—	4.995	5.005	1-F13	1-C2	50	150	75
D7	1-G33	1-A33	1.080 vac	1.332 vac	800	0° ±2°	4.995	5.005	1-F9	1-B9	100	100	35
D8	1-F33	1-A33	1.080 vac	1.332 vac	800	0° ±2°	4.995	5.005	1-G10	1-B9	100	100	35
D9	1-D20	1-D18	27.5 vdc	28.5 vdc	—	—	4.000	4.600	1-C11	1-C12	30	50	-
D10	1-D19	1-F16	27.72 vac	28.28 vac	800	--	4.000	4.600	1-D11	1-C12	250	500	-
D11	--	--	--	--	--	--	2.450	2.550	1-B8	1-B9	10	100	-
E1	1-C26	1-C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-F4	1-C2	10	20	35
E2	1-D26	1-D25	19.13 vac	23.87 vac	↕	↕	4.995	5.005	1-G4	1-C2	10	20	35
E3	1-A26	1-A25	19.13 vac	23.87 vac			4.995	5.005	1-F2	1-C2	10	20	35
E4	1-B26	1-B25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	1-G3	1-C2	10	20	35
E5	1-A17	1-A18	121.5 vdc	148.5 vdc	—	—	4.995	5.005	1-G6	1-C2	10 -	20	300
F1	1-B33	1-A33	1.080 vac	1.332 vac	800	0° ±2°	4.995	5.005	1-C10	1-B9	100	100	35
F2	1-C33	1-A33	1.080 vac	1.332 vac	800	0° ±2°	4.995	5.005	1-C9	1-B9	100	100	35
F3	1-D33	1-A33	1.080 vac	1.332 vac	800	0° ±2°	4.995	5.005	1-C8	1-B9	100	100	35
F4	1-C32	1-D32	1267.2Ω	1292.8Ω	—	—	2.250	2.750	1-D13	1-C2	-	-	-
F5	1-B19	1-F14* 1-B20	2007Ω	2067Ω	—	—	4.995	5.005	1-G13	1-C2	50	100	-

* Separate lines from 30J1-F14, 30J1-C20 and 30J1-B20 shall be connected to the same side of the input resistor.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007010 and all drawings and engineering data referenced thereon.

3.2.2 Weight. The weight of the assembly shall be determined.

3.2.3 Standards of Manufacturing, Manufacturing Process, and Production

3.2.3.1 Continuity and DC Resistance. The dc resistance shall be as specified in Table II.

3.2.3.2 Insulation Resistance. The resistance from each connector pin, except those specified in Table III, to the assembly frame shall be equal to or greater than 100 megohms.

TABLE III

CHASSIS GROUND PINS

CONNECTOR 30J PIN
2-85
1-B17
1-C36
1-C35
1-C37
1-G14
1-F20
1-F19
1-C27
2-48
2-46

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
Offset Voltage	3.1.1	4.3.6
Scale Factor	3.1.2	4.3.7
Output Ripple and Noise	3.1.3	4.3.8
PIPA Sensor Output	3.1.4	4.3.9
IRIG Sensor Output	3.1.5	4.3.10
PIPA Thermistor Output	3.1.6	4.3.11
Calibration	3.1.7	4.3.13
Drawing Compliance	3.2.1	4.3.1
Weight	3.2.2	4.3.12
Continuity and DC Resistance	3.2.3.1	4.3.4
Insulation Resistance	3.2.3.2	4.3.5

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.1.2 Inputs. The following inputs are necessary for performance of the tests specified herein.

a. DC Supply Voltage: 28.00±0.28 vdc
b. Reference Voltage:

    (1) 28.00±0.28V rms, 800.0±1.0 cps
    (2) 28.00±0.28V rms, 3200.0±4.0 cps

c. Adjustable Signal Voltage

    (1) 0 to 33V rms, 800.0±1.0 cps, phase angles of +5° ±2° and +180° ±2° with respect to reference voltage.

    (2) 0 to 33V rms, 3200.0±4.0 cps, phase angles of 0° ±2° and 45° ±2° with respect to reference voltage.

(3) 0 to +33 vdc and -33 vdc

(4) 0 to +150 vdc

4.2.1.3 Test Setup. Unless otherwise specified, the operating voltages of Table IV shall be applied to the assembly. Each pair of output pins for each assembly section, except assembly sections C7 and F5, shall have a 1 megohm ±1 percent resistor connected between them. Assembly sections C7 and F5 shall have a 500k ohm ±5 percent resistor connected between its output pins. Source impedance shall be as shown in Figure 1.

TABLE IV

OPERATING VOLTAGES

CONNECTOR 30J1		VOLTAGE	FREQUENCY (cps)
Hi	Lo		
C18	D18	28.00±0.28 vdc	--
C15	G16	28.00±0.28V rms	800.0±0.8
A15	A16	28.00±0.28V rms	3200.0±3.2
C17	D18	28.00±0.28 vdc	--
A17	A18	110.00±0.10 vdc	--

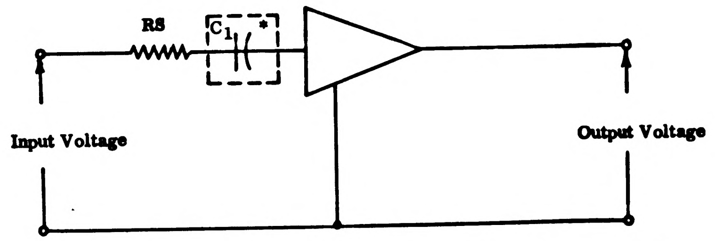
4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007010. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be mounted to the vibration fixture in a manner similar to the way it will be mounted in service. The assembly shall be vibrated along the horizontal, vertical and lateral axis (see Figure 2) with simple harmonic motion swept from 10 to 2000 cps at a rate of 1 octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency.

a. The continuity of the assembly shall be continuously monitored during vibration at the pins specified in Table II. Any evidence of discontinuity shall be cause for rejection. The continuity monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any open circuit.


RS
C_1
*
Input Voltage
Output Voltage

RS = 2k ±1% for Assembly Sections B1, B2, and B3
RS = 20k ±1% for Assembly Sections B5, B6, B7, F1, F2, F3, D7 and D8
RS = 100Ω±1% for Assembly Sections D4, D5, and D6
RS = 5k±1% for Assembly Sections D10

* For Assembly Sections F1, F2, F3, D7 and D8, use the capacitor
C_1 = 0.47 μf ±5%

SOURCE IMPEDANCE

FIGURE 1

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I to obtain the output specified therein, except that the inputs required to establish the outputs specified for assembly sections D1, D2, and D3 shall be used to establish the outputs for assembly sections A1, A2, and A3. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

4.3.3 Temperature Test. The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table 1 to obtain the outputs specified therein. The input and output voltages shall then be measured and recorded.

b. The assembly shall be soaked at 49° ±3°C for 4 hours. The soak period inputs for assembly section A1, A2 and A3 shall be determined by the inputs of assembly section D1, D2 and D3. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.

4.3.4 Continuity and DC Resistance. The resistance between the pins specified in Table II shall be measured with a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202.

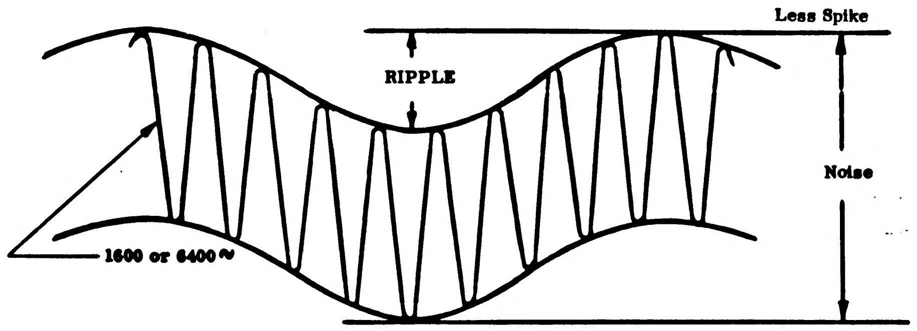
4.3.5 Insulation Resistance. The resistance from each connector pin except those pins specified in Table III, to the assembly frame shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 μa. The resistance shall be greater than or equal to 100 megohms.

4.3.6 Offset Voltage. With each input Hi pin specified in Table I connected to its respective input Lo pin, the dc voltage appearing across the output pins specified in Table I shall be as specified therein, except for assembly section E5 which shall have a 110.000±0.100 vdc input.

4.3.7 Scale Factor. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein and the input and output voltages recorded.

4.3.8 Output Ripple and Noise. The input signal voltages shall be adjusted within the range specified in Table I to obtain the outputs specified in Table I, and the peak-to-peak ripple voltage or noise appearing at the corresponding output pins measured and recorded. The ripple voltage or noise appearing at the output pins shall be less than or equal to the value specified in Table I. (See Figure 3.)

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3.0 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo) and 30J1-C20 (Lo), the output voltage shall be 5.000± 0.005 vdc.


Less Spike
RIPPLE
Noise
1600 or 6400 ~

RIPPLE AND NOISE

FIGURE 3

4.3.10 IRIG Sensor Output. With a sensor resistance of 2037.0±30.0 ohms connected across 30J1-B19 (Hi) and 30J1-14 (Lo) and 30J1-B20 (Lo), the output voltage shall be 5.000±0.005 vdc.

4.3.11 PIPA Thermistor Output. With a sensor input resistance of 1279.5±12.8 ohms connected across 30J1-D13 and 30J1-D32, the output voltage shall be 2.500±0.250 vdc.

4.3.12 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.13 Calibration

4.3.13.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D7
D8
E1
E2
E3
E4
F1
F2
F3

a. Adjust the ratio transformer to 0.0000.

b. Adjust e_2 for a 2.500±0.005 vdc E_0 output. The e_1 voltage shall be 0V rms. Record the voltage and phase of e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.000. Set e_1 to zero phase and adjust for a 5.000±0.005 vdc E_0 output. Record the e_{in} and e_1 voltage and phase.

d. Adjust the ratio transformer for an E_0 output of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the e_{in} voltage and phase.

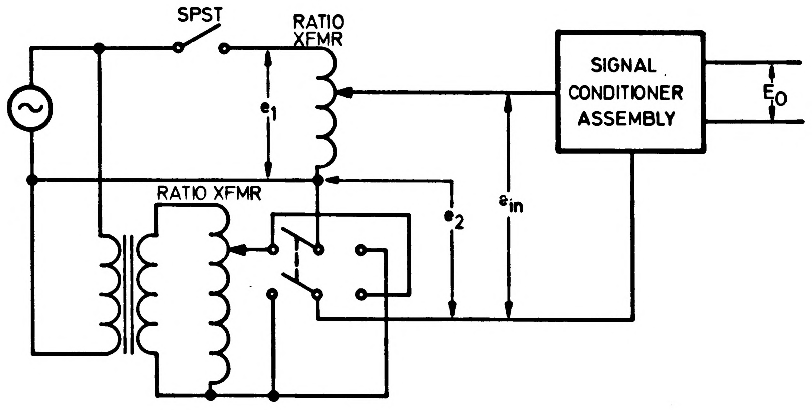
e. Adjust the ratio transformer for an E_0 output of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the e_{in} voltage and phase.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.13.1.c. Record the voltage and phase of e_{in} and e_1.

g. Adjust the ratio transformer for an E_0 output of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000 ±5 percent. Record the e_{in} voltage and phase.

h. Adjust the ratio transformer for an E_0 output of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000 ±5 percent. Record the e_{in} voltage and phase.

i. Adjust the ratio transformer for an E_0 output of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000 ±5 percent. Record the e_{in} voltage and phase.


SPST
RATIO XFMR
SIGNAL CONDITIONER ASSEMBLY
E_O
e_1
RATIO XFMR
e_2
e_in

AC CIRCUIT CALIBRATION

FIGURE 4

4.3.13.2 DC Input Circuit E5. Assembly Section E5 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 5.

a. Set E_1 to 110.00 vdc.

b. Adjust E_2 for an E_0 output to 2.500±0.005 vdc. Record voltage and polarity of E_{in}, E_0 and E_2. The magnitude and polarity of E_2 shall be maintained throughout the remainder of this test.

c. Adjust E_1 for an E_0 output of 5.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 135 vdc ±5 percent.

d. Adjust E_1 for an E_0 output of 4.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 126.6 vdc ±5 percent.

e. Adjust E_1 for an E_0 output of 3.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 118.3 vdc ± 5 percent.

f. Adjust E_1 for an E_0 output of 2.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 101.600 vdc ±5 percent.

g. Adjust E_1 for an E_0 output of 1.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 93.300 vdc ± 5 percent.

h. Adjust E_1 for an E_0 output of 0.000±0.005 vdc. Record the voltage of E_{in}, E_1, and E_0. The E_1 voltage shall be 85.000 vdc ±5 percent.

4.3.13.3 DC Input Circuits D4, D5 and D6. Assembly sections D4, D5 and D6 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 6.

a. Set variable step resistor, R_1, to 0.0000 and adjust E_2 for an E_0 output of 2.500±0.005 vdc. The E_1 voltage shall be 0 vdc. Record the voltage and polarity of E_{in} and E_2. The magnitude and polarity of E_2 shall be maintained throughout the remainder of this test.

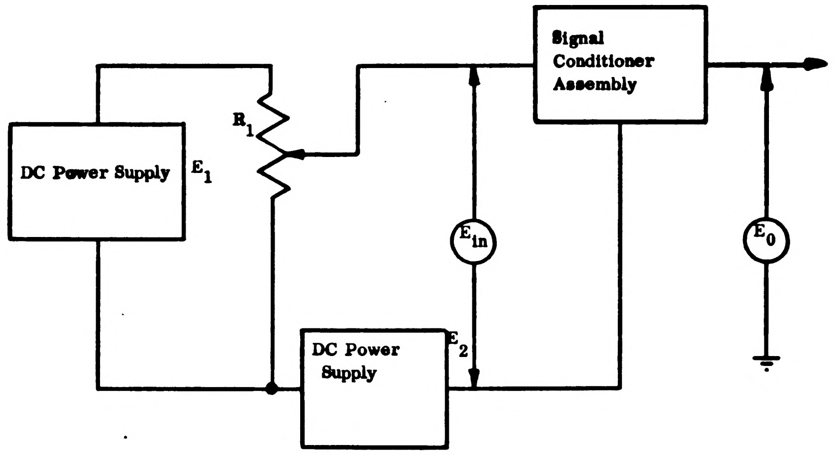
b. Set variable step resistor, R_1, to 1.0000. Adjust E_1 and set to obtain an E_0 output of 5.000±0.005 vdc. Record the E_{in} voltage and polarity and the value of E_1.

c. Adjust R_1 for an E_0 output of 4.000±0.005 vdc and R_1 shall indicate 0.6000 ±5 percent. Record the E_{in} voltage and polarity.

d. Adjust R_1 for an E_0 output of 3.000±0.005 vdc and R_1 shall indicate 0.2000 ±5 percent. Record the E_{in} voltage and polarity.

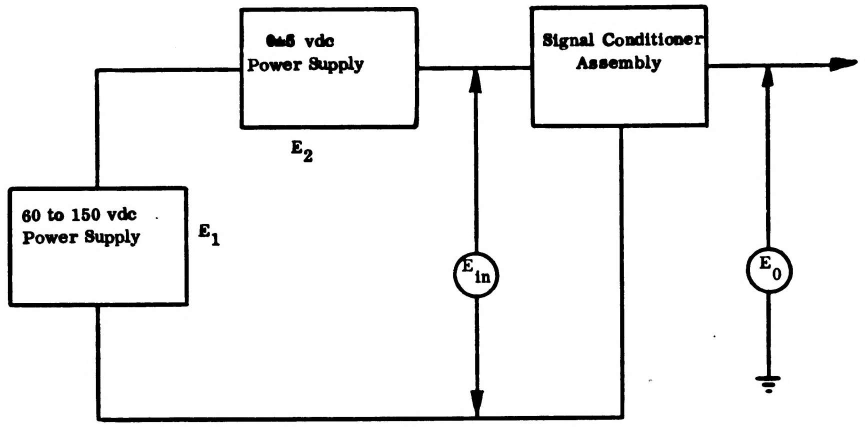
e. Adjust R_1 to 1.000. Set E_1 to opposite polarity and adjust it to produce E_1 voltage magnitude recorded in 4.3.13.3.b. Record the E_{in} voltage and polarity.

f. Adjust R_1 for an E_0 output of 0.000±0.005 vdc and R_1 shall indicate 1.000 ±5 percent. Record the E_{in} voltage and polarity.


Signal
Conditioner
Assembly
DC Power Supply
E1
R1
Ein
E0
DC Power
Supply
E2

DC CIRCUIT CALIBRATION

FIGURE 6


0±5 vdc
Power Supply
E_2
Signal Conditioner
Assembly
60 to 150 vdc
Power Supply
E_1
E_{in}
E_0

DC CIRCUIT CALIBRATION

FIGURE 5

g. Adjust R_1 for an E_0 output of 1.000±0.005 vdc and R_1 shall indicate 0.6000 ±5 percent. Record E_{in} voltage and polarity.

h. Adjust R_1 for an E_0 output of 2.000±0.005 vdc and R_1 shall indicate 0.2000 ±5 percent. Record E_{in} voltage and polarity.

4.3.13.4 Sensor Circuit C7. Assembly section C7 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 7.

a. With e_{in} adjusted to 28.00±0.28 vdc, adjust the decade resistor across 30J1-C 19 (Hi) and 30J1-F14 (Lo), 30J1-C20 (Lo) for an E_0 output of 5.000±0.005 vdc. The decade resistance shall be recorded and shall be 1594.5±3 ohms.

b. Adjust the decade resistor for an E_0 output of 4.000±0.005 vdc. The decade resistance shall be recorded and shall be 1580.7±3.0 ohms.

c. Adjust the decade resistor for an E_0 output of 3.000±0.005 vdc. The decade resistance shall be recorded and shall be 1566.9±3.0 ohms.

d. Adjust the decade resistor for an E_0 output of 2.000±0.005 vdc. The decade resistance shall be recorded and shall be 1553.1±3.0 ohms.

e. Adjust the decade resistor for an E_0 output of 1.000±0.005 vdc. The decade resistance shall be recorded and shall be 1539.3±3.0 ohms.

f. Adjust the decade resistor for an E_0 output of 0.000±0.005 vdc. The decade resistance shall be recorded and shall be 1525.5±3.0 ohms.

4.3.13.5 Sensor Circuit F5. Assembly section F5 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 7.

a. With e_{in} adjusted to 28.00±0.28 vdc, adjust the decade resistor across 30J1-B19 (Hi) and 30J1-F14 (Lo), 30J1-B20 (Lo) for an output E_0 of 5.000±0.005 vdc. The decade resistance shall be recorded and shall be 2037±30 ohms.

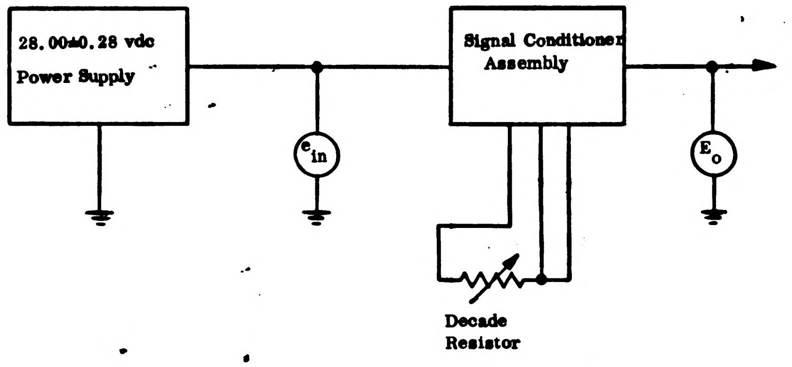
b. Adjust the decade resistor for an E_0 output of 4.000±0.005 vdc. The decade resistance shall be recorded and shall be 2167±30 ohms.

c. Adjust the decade resistor for an E_0 output of 3.000±0.005 vdc. The decade resistance shall be recorded and shall be 2308±30 ohms.

d. Adjust the decade resistor for an E_0 output of 2.000±0.005 vdc. The decade resistance shall be recorded and shall be 2464±30 ohms.

e. Adjust the decade resistor for an E_0 output of 1.000±0.005 vdc. The decade resistance shall be recorded and shall be 2632±30 ohms.

f. Adjust the decade resistor for an E_0 output of 0.000±0.005 vdc. The decade resistance shall be recorded and shall be 2816±30 ohms.


28.00±0.28 vdc
Power Supply
e_{in}
Signal Conditioner
Assembly
E_o
Decade
Resistor

SENSOR CIRCUIT CALIBRATION
FIGURE 7

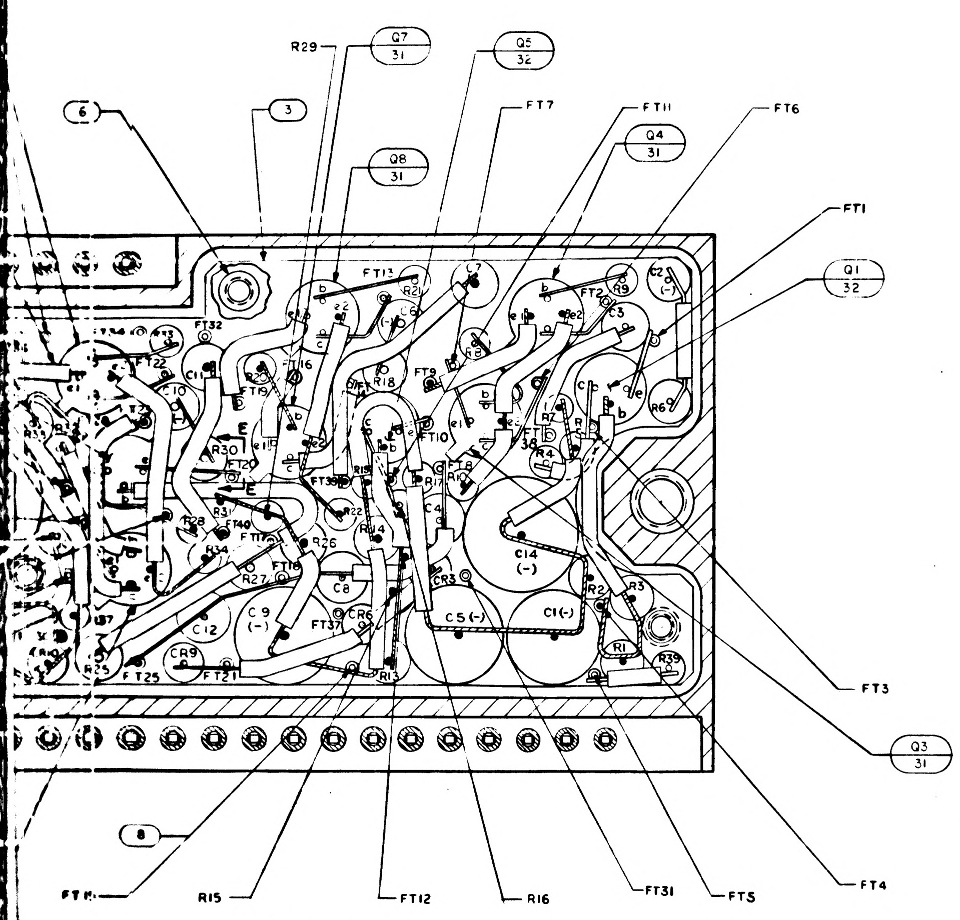
5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

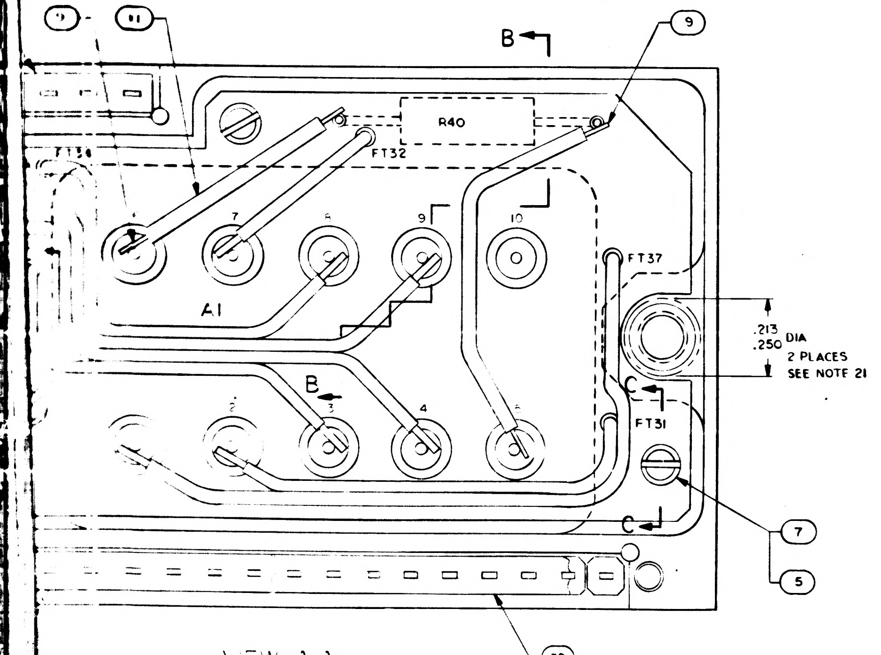
6. NOTES. None.

REVISIONS 26026

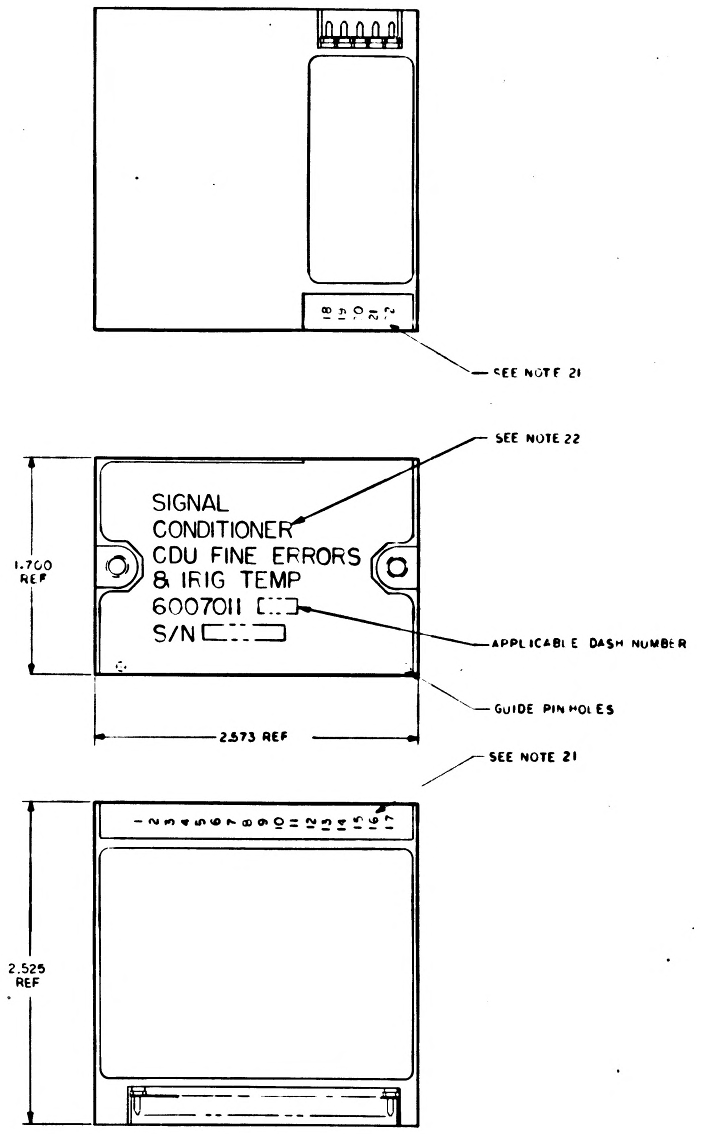
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	


R29
Q7 31
Q5 32
FT7
FT11
FT6
Q8 31
Q4 31
FT1
Q1 32
6
3
FT3
Q3 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
C14 (-)
C5 (-)
C1 (-)
C9 (-)

SECTION D-D


9
11
B
9
R40
FT32
FT36
FT37
A1
.213 .250 DIA
2 PLACES
SEE NOTE 21
C
FT31
7
5
39

VIEW A-A


SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
1.700 REF
2.573 REF
SEE NOTE 21
2.525 REF

MARKING VIEW
SCALE 2/1

	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-9	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
4	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 180	CAPACITOR	25
1	1006755 — 134	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1009161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-C11	LIST OF MATERIALS		

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN A. Bell 15 Feb 66
CHECKED 4 Feb 66
APPROVED 7 Feb 66
APPROVED
APPROVED MIT
APPROVED MSC
DATE

CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

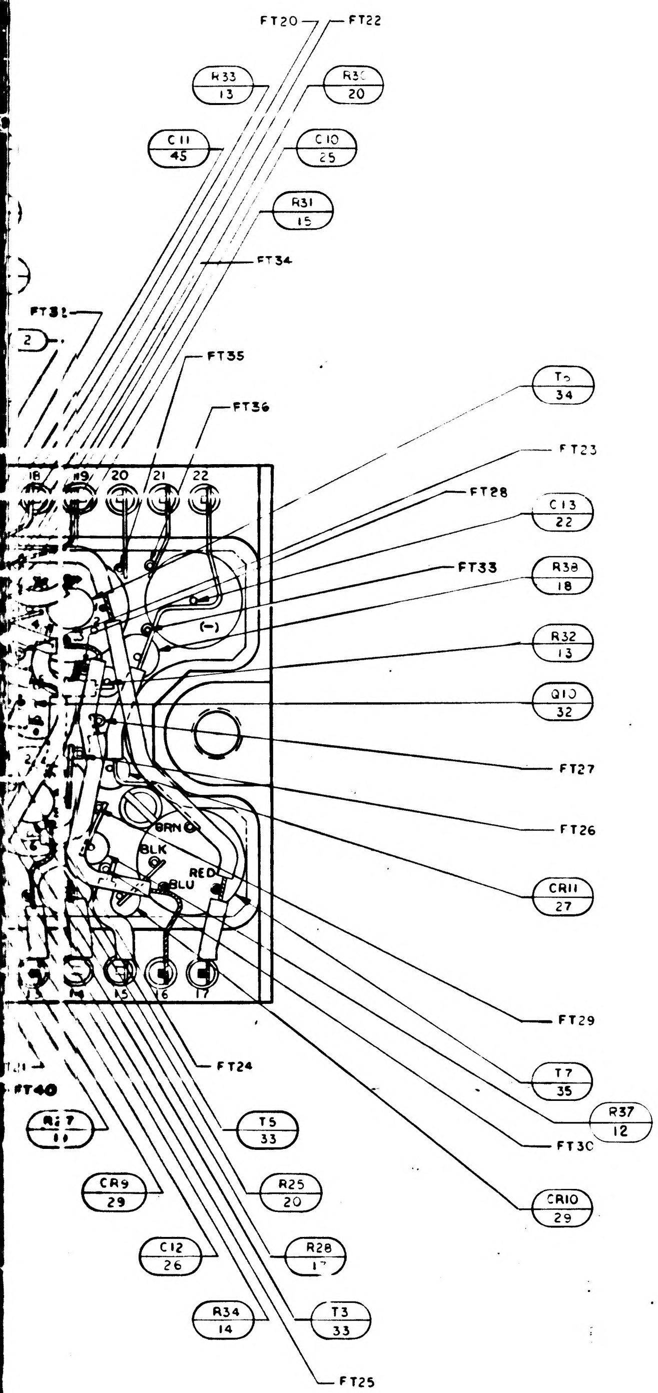
CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007011
SCALE 5/1
SHEET 1 OF 1

6007011 A

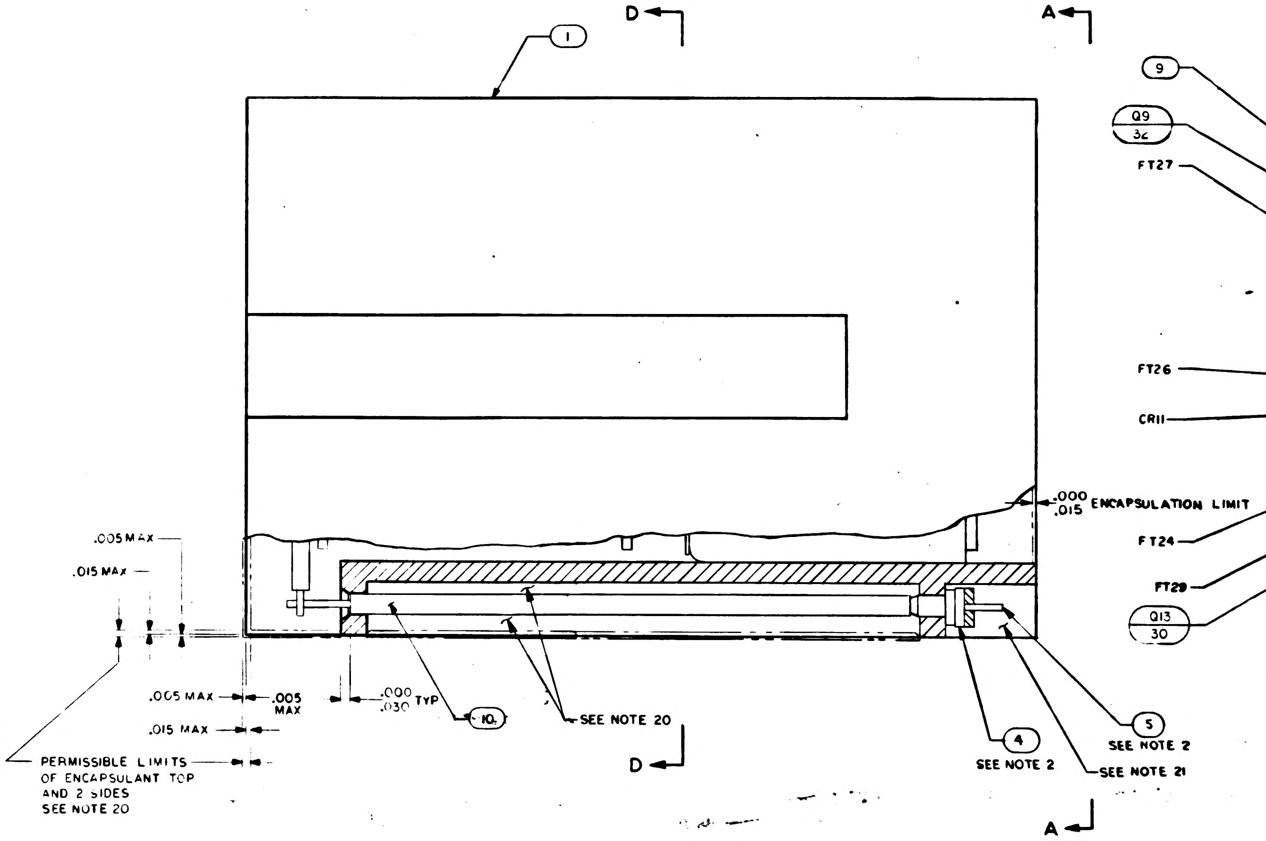
3H

6007011 REV A

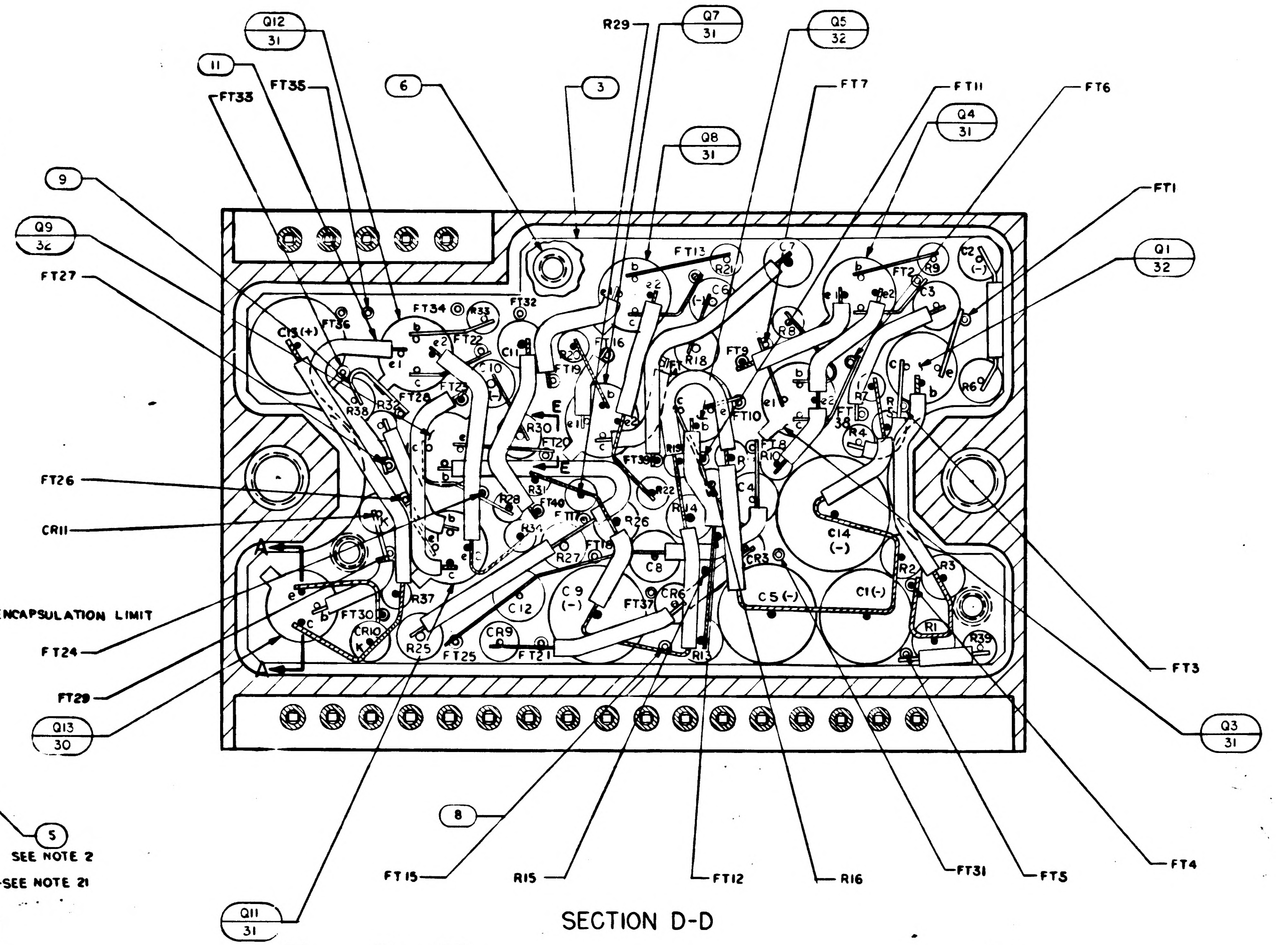
376007011



FT20
FT22
R33 13
R30 20
C11 45
C10 25
R31 15
FT34
FT31
2
FT35
FT36
T6 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
BRN
BLK
RED
BLU
FT29
FT24
T7 35
R37 12
FT30
CR10 29
FT40
R27 11
T5 33
CR9 29
R25 20
C12 26
R28 17
R34 14
T3 33
FT25
18 19 20 21 22
14 15 16 17

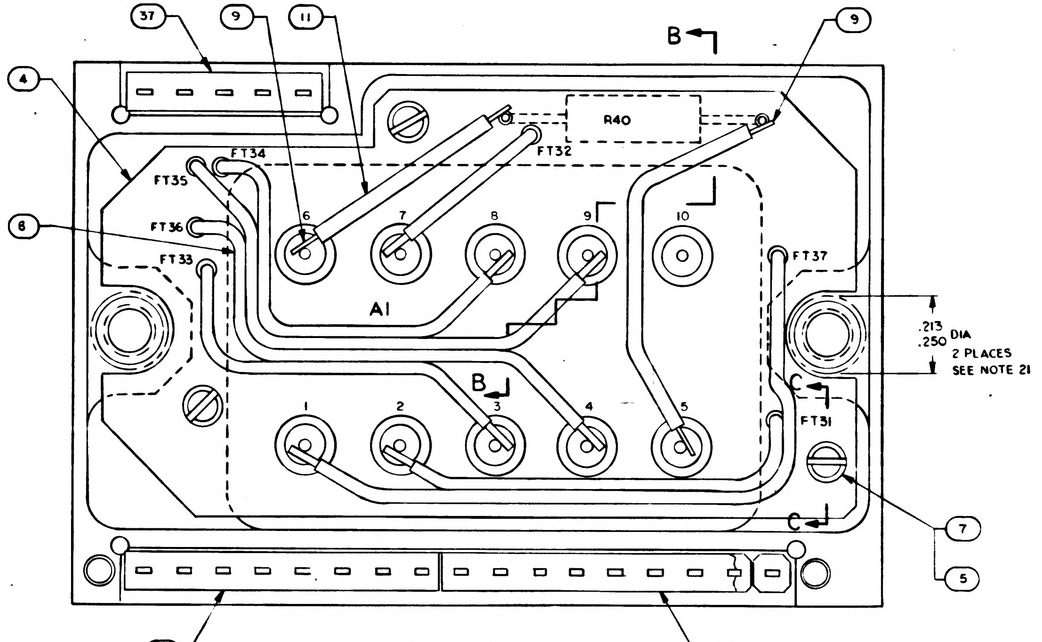


1
D
D
A
A
.000
.015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.015 MAX
.005 MAX
.000
.030 TYP
10
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20



Q12 31
R29
Q7 31
Q5 32
11
FT35
6
3
FT7
FT11
FT6
FT33
Q4 31
Q8 31
9
FT1
Q9 32
Q1 32
FT27
FT26
CR11
FT24
FT29
Q13 30
Q11 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q3 31
FT3
C15(+)
C14 (-)
C5 (-)
C1(-)
C9 (-)
C8
C12
CR9
CR10
FT13
FT34
FT36
FT32
FT28
FT30
FT25
FT21
FT37
FT38
FT39
FT40
FT10
FT9
FT8
FT2
FT16
FT17
FT18
FT19
FT20
FT22
FT23
R1
R2
R3
R4
R6
R8
R9
R13
R14
R18
R21
R22
R25
R26
R27
R28
R30
R33
R37
R38
R39
C2 (-)
C3
C4
C6
C7
C10
C11
CR6
CR8
A
A

SECTION D-D



37
9
11
B
9
4
R40
FT34
FT35
FT32
FT36
8
FT33
6
7
8
9
10
A1
FT37
.213
.250 DIA
2 PLACES
SEE NOTE 21
B
1
2
3
4
5
C
FT31
C
7
5
38
39

VIEW A-A

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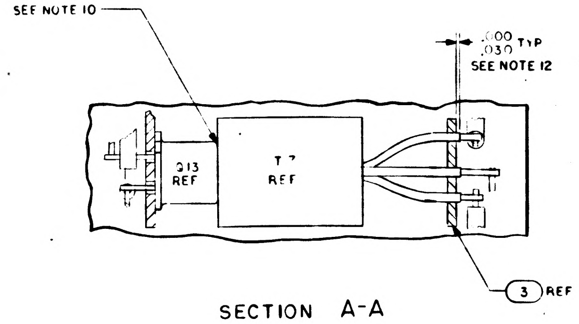
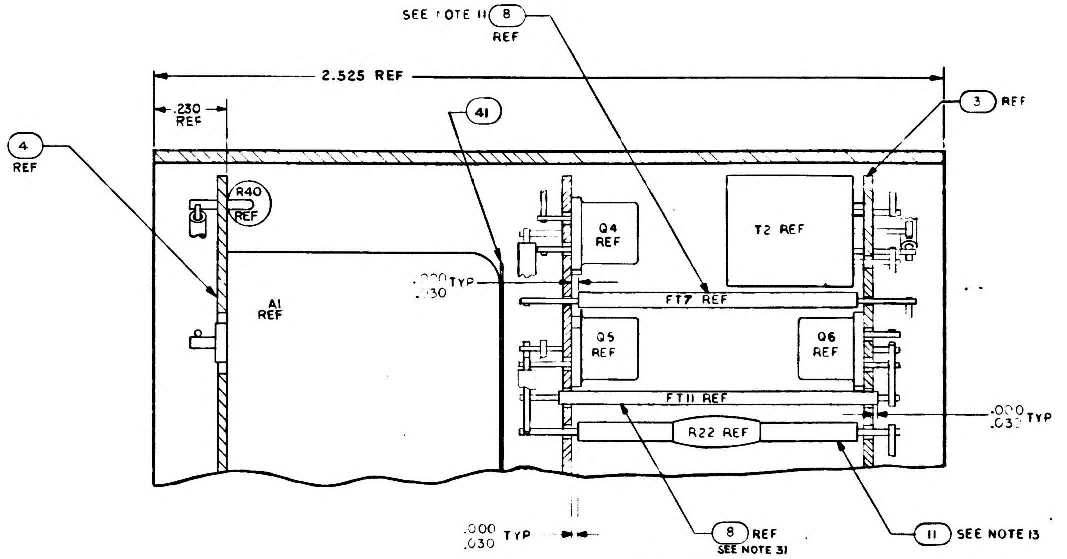
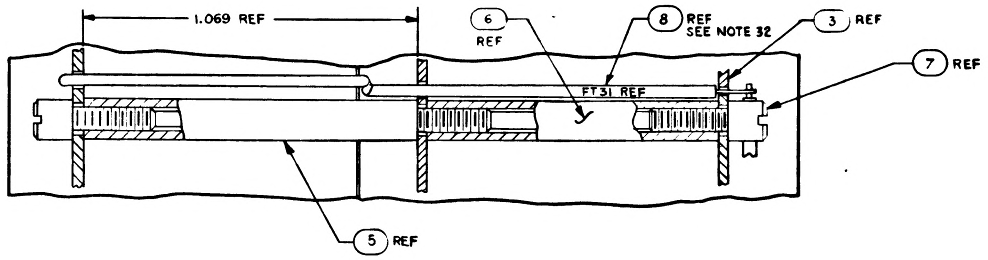

SEE NOTE 10
.000 .030 TYP
SEE NOTE 12
Q13 REF
T7 REF
3 REF

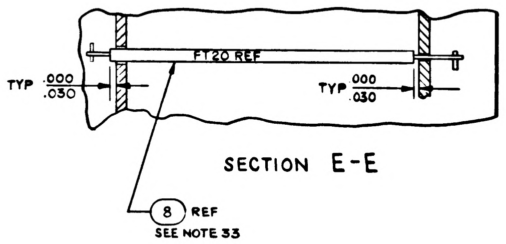
SECTION A-A


SEE NOTE 11
8 REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
Q4 REF
T2 REF
.000 .030 TYP
A1 REF
FT7 REF
Q5 REF
Q6 REF
FT11 REF
.000 .030 TYP
R22 REF
.000 .030 TYP
8 REF SEE NOTE 31
11 SEE NOTE 13

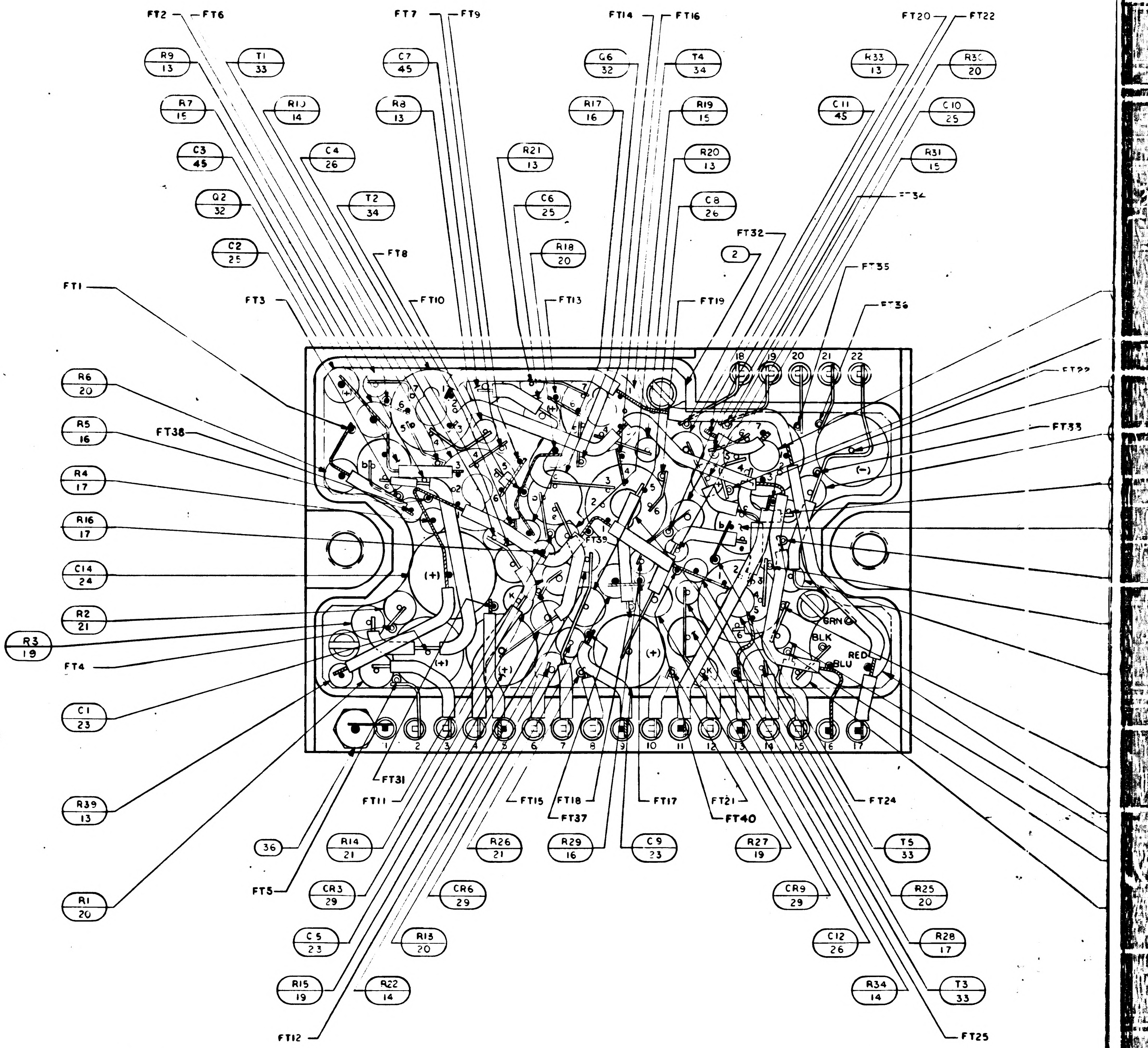
SECTION B-B


1.069 REF
6 REF
8 REF SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000 .030
TYP .000 .030
8 REF
SEE NOTE 33

SECTION E-E


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
C6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
C2 25
FT8
R18 20
FT32
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
R6 20
FT22
R5 16
FT38
FT33
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
R1 20
36
FT5
BRN
BLK
RED
BLU
(+)
(−)
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19
20
21
22
1
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15
16
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FT31
FT11
FT15
FT18
FT37
FT17
FT21
FT40
FT24
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
CR3 29
CR6 29
CR9 29
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069.
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .030/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN.
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT.
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NO.44 AND R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON FIND NO.44.
28. BOND FIND NO 41 TO FIND NO 44 PER ND1002004 TYPE I. (CENTRALIZE).
29. BOND FIND NO 40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO I PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU S FT31 THRU FT37
33. TYPICAL FOR FEED THRU S FT1, FT8, FT9 AND FT20.

6007011	A

APOLLO G&N Specification
PS6007011 REV A
Original Issue Date: 14 June 1966
Release Authority: TDRR 29566
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

CDU FINE ERRORS SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007011

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
9/22/66	A	31230	3, 4, 5, 7, 9, 10	MGM EA	--

This specification consists of page 1 to 10 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R M Kowalski 7 June 66	6-14-66 MIT/IL	G H Krier ACSP

d. The offset voltage at the output terminals measured with the respective input Hi and Lo pins connected together as shown in Figure 1 with S1 in position A.

e. The offset voltage algebraically subtracted from the six output measurements.

f. The outputs of $1.000E_s$ divided by 5, those at $0.600E_s$ by 3, and those at $0.200E_s$ by 1.000.

g. The six calculated values averaged and the deviation of each value from the average determined.

4.3.12 Output Impedance. With the input voltage to assembly sections a, b, and c adjusted for respective outputs of +2.500±0.005 vdc and then a 100k ohm ±1 percent resistor substituted for the 1 megohm load resistor, the output voltage for assembly sections a, b, and c shall not decrease more than 120 mv.

4.3.13 Output Ripple and Noise. With the output of assembly sections a, b, c, and e adjusted to 2.50±0.10 vdc, the ripple and noise voltage at the respective output pins shall be <100 mv pp for assembly sections a, b, c, and <50 mv pp for assembly section e.

5. PREPARATION FOR DELIVERY

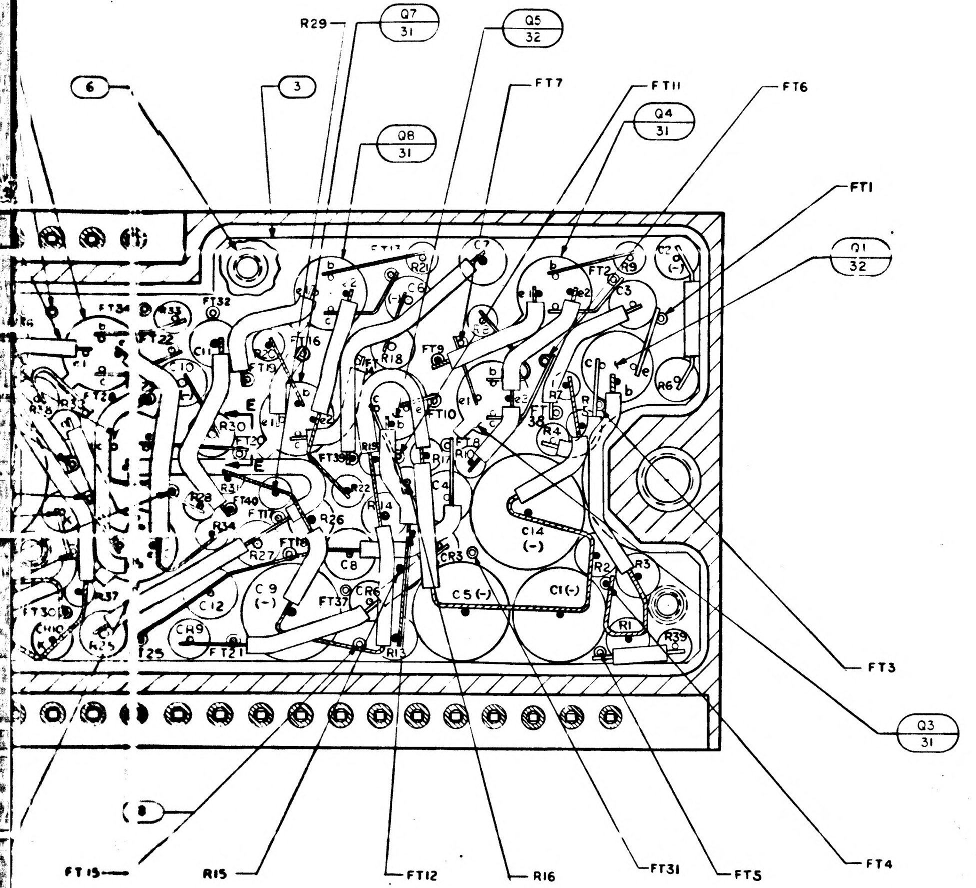
5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

GK:dmh

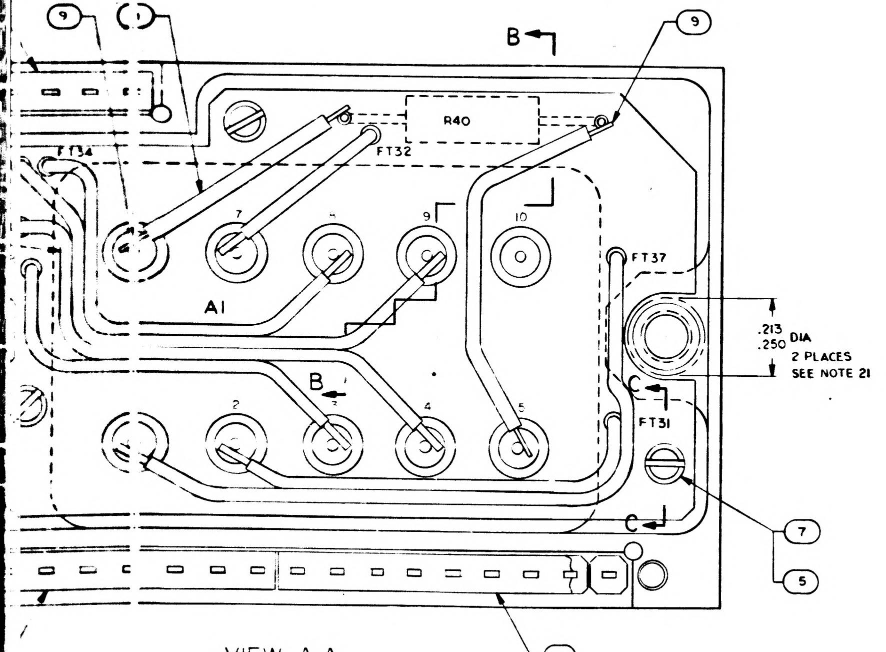
REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.	CW	17 JUN 66	
B		REVISED PER TDRR 29917	JE		14 JULY 66	



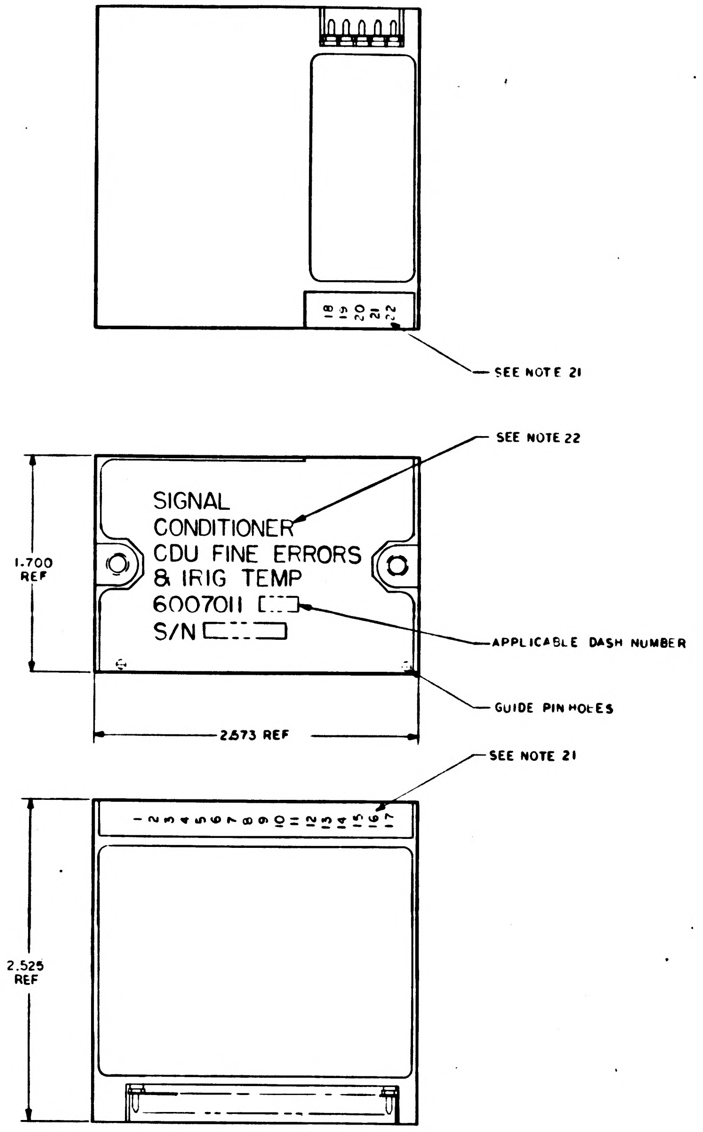
R29
Q7 31
Q5 32
6
3
FT7
FT11
FT6
Q8 31
Q4 31
FT1
Q1 32
FT3
Q3 31
FT4
FT19
R15
FT12
R16
FT31
FT5
C14 (-)
C5 (-)
C1 (-)
C9 (-)

SECTION D-D



9
B
9
R40
FT32
FT34
A1
FT37
FT31
C
C
B
7
5
39
.213 .250 DIA 2 PLACES SEE NOTE 21

VIEW A-A



SEE NOTE 21
SEE NOTE 22
SIGNAL CONDITIONER CDU FINE ERRORS & IRIG TEMP 6007011 S/N
APPLICABLE DASH NUMBER
GUIDE PINHOLES
SEE NOTE 21
1.700 REF
2.873 REF
2.525 REF
18 19 20 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MARKING VIEW
SCALE 2/1

	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-9	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
4	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 180	CAPACITOR	25
1	1006755 — 134	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008035	FRAME	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011	LIST OF MATERIALS		

6007011 B

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN 15 Feb 66
CHECKED 4 Feb 66
APPROVED 7 Feb 66
APPROVED 7 Feb 66
APPROVED MIT W. Kupfer 9 Feb 66
APPROVED MSC
DATE

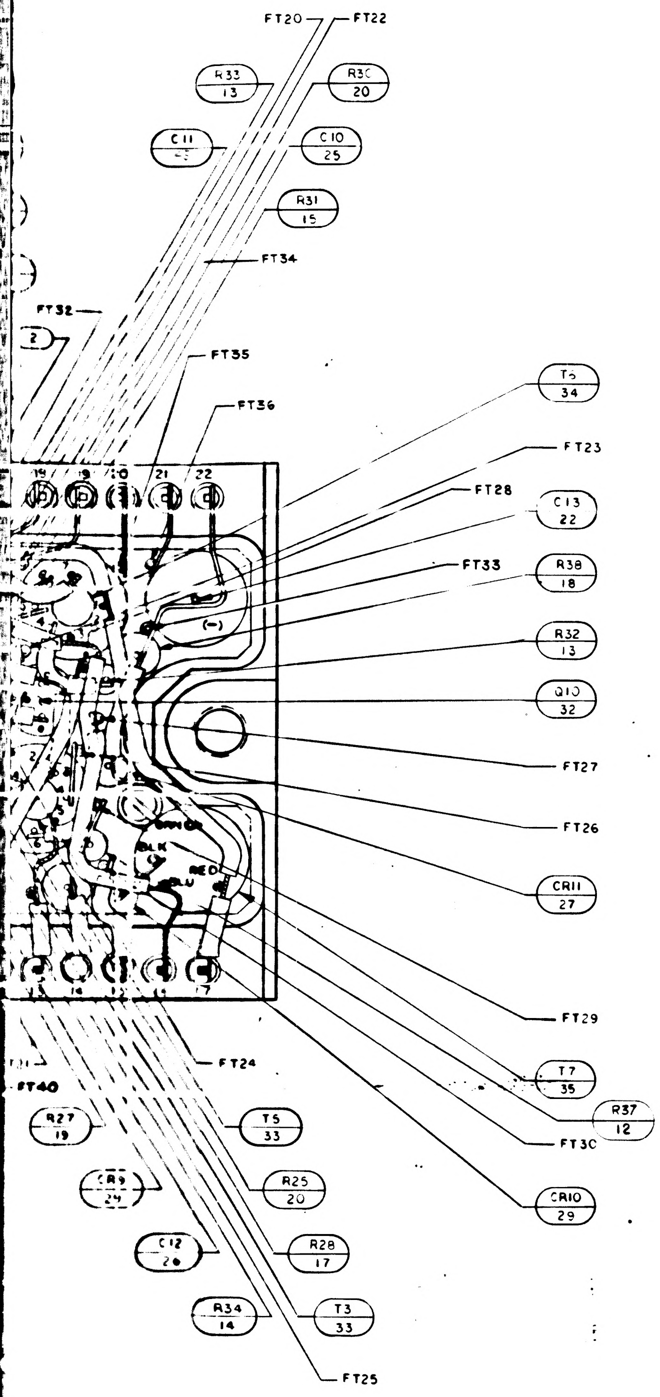
CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

CODE IDENT NO 80230 | SIZE J | DRAWING NO. 6007011
SCALE 5/1 | SHEET 1 OF 1

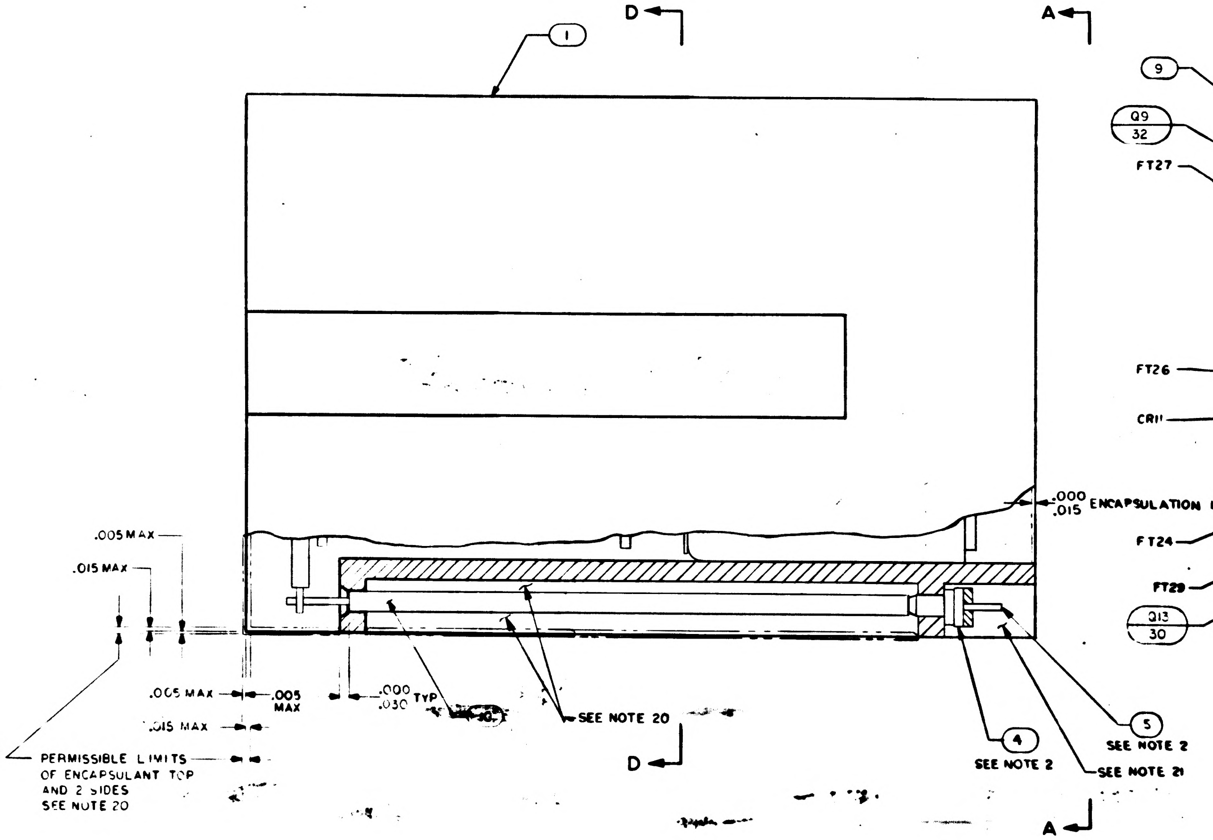
6007011 REV LTR B SHT 1 OF 1

3H

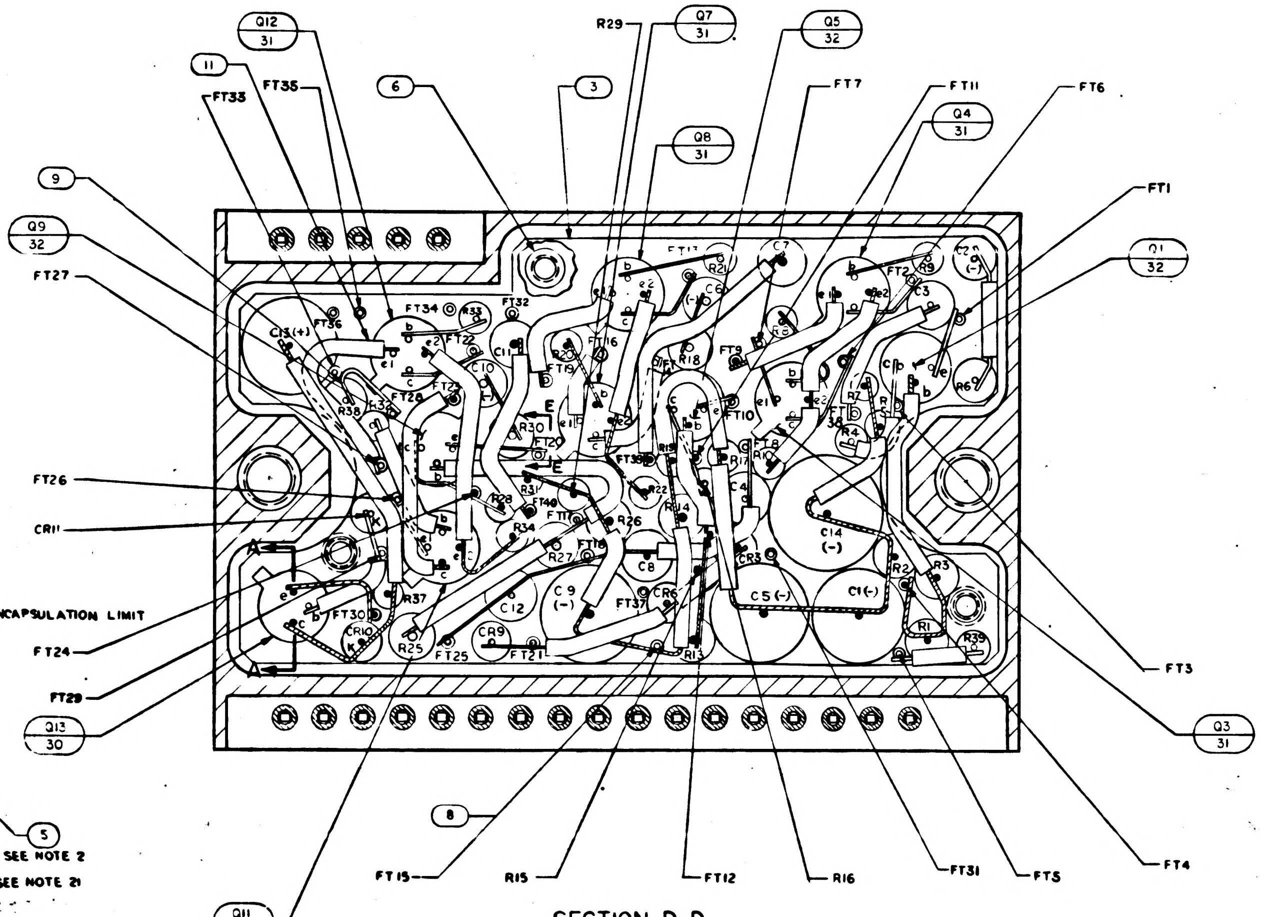
3/76007011



FT20
FT22
R33 13
R30 20
C11
C10 25
R31 15
FT34
FT32
2
FT35
FT36
T5 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
FT29
T7 35
R37 12
FT30
CR10 29
FT24
FT40
R27 19
T5 33
CR9 24
R25 20
C12 26
R28 17
R34 14
T3 33
FT25
19
20
21
22
RED
BLK
(-)

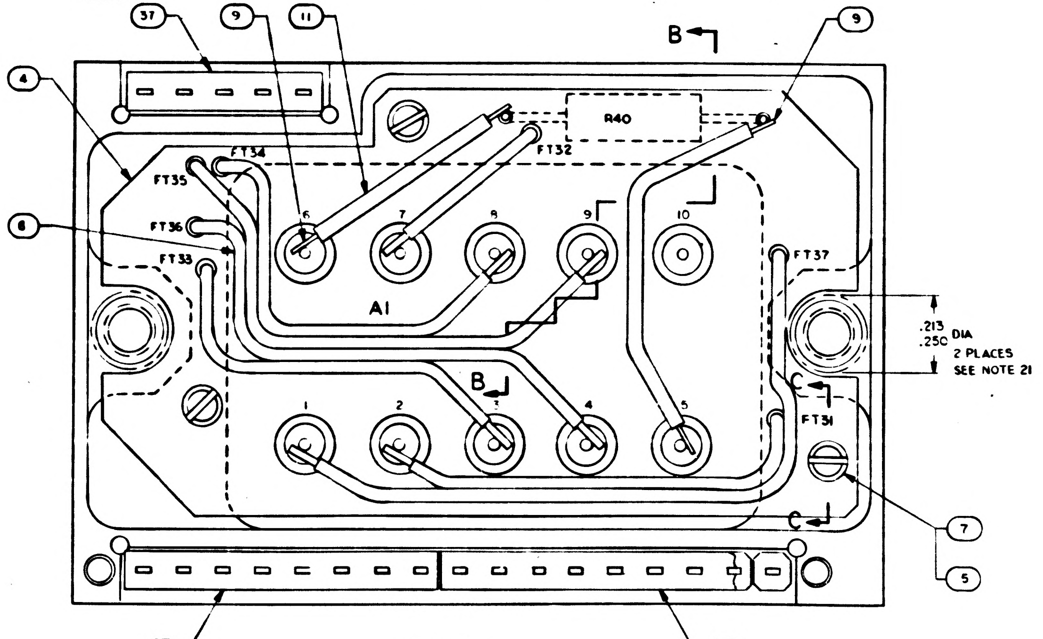


1
D
A
.000
.015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000 .030 TYP
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20
D
A



Q12 31
11
FT33
FT35
6
3
R29
Q7 31
Q5 32
FT7
FT11
FT6
Q8 31
Q4 31
FT1
9
Q9 32
Q1 32
FT27
FT26
CR11
FT24
FT29
Q13 30
A
A
C13(+)
FT36
FT34
FT32
FT22
FT28
R38
R37
R30
R31
R28
R34
R27
R26
C10
C11
C9 (-)
C12
CR9
CR10
FT30
R25
FT25
FT21
FT37
CR6
C8
R13
CR3
C5(-)
C1(-)
C14 (-)
R2
R3
R1
R35
FT18
FT40
FT39
FT16
FT9
FT10
FT8
FT2
R4
R6
R7
R18
E
Q3 31
FT3
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11 31

SECTION D-D



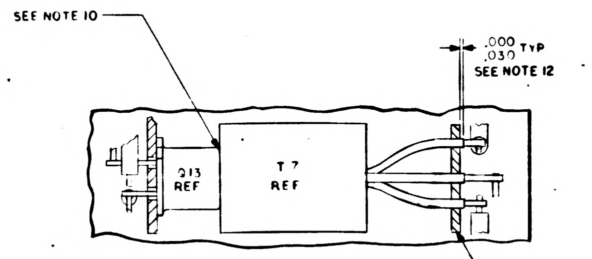
37
9
11
B
9
4
R40
FT34
FT32
FT35
6
FT36
FT33
6
7
8
9
10
A1
FT37
.213 .250 DIA 2 PLACES SEE NOTE 21
B
C
1
2
3
4
5
FT31
C
7
5
38
39

VIEW A-A

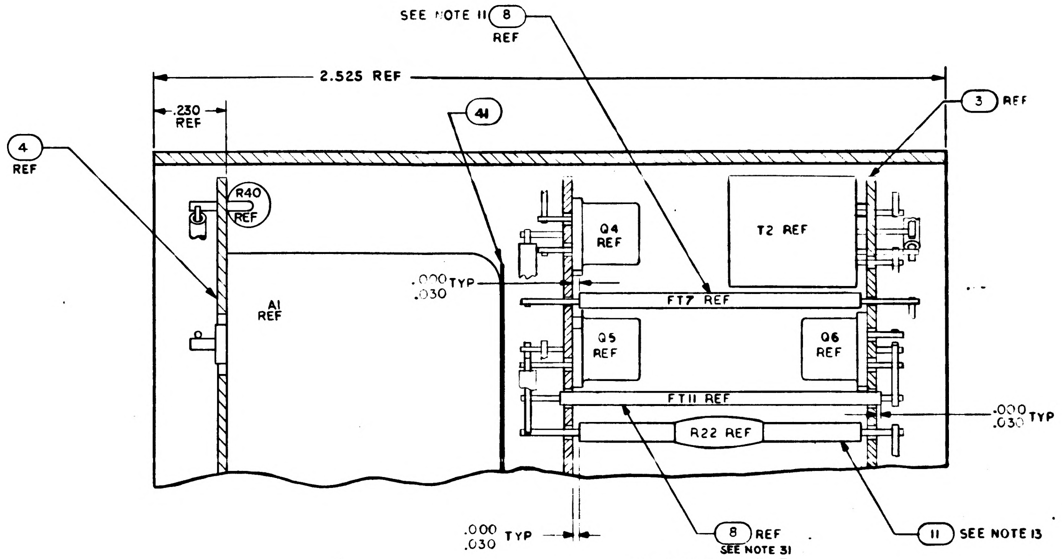
6007011	REV LTR B	SHT 1 OF 1

27/6007011

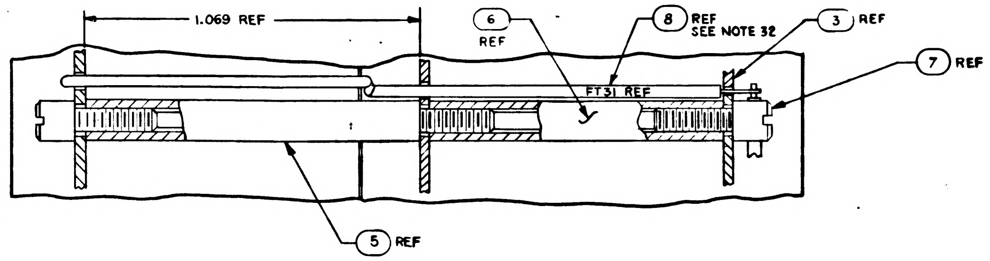
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000 TYP
.030
SEE NOTE 12
Q13 REF
T7 REF
3 REF

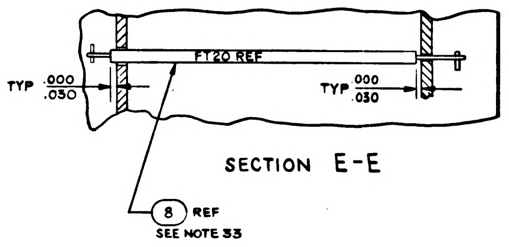
SECTION A-A


SEE NOTE 11
8
REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
A1 REF
Q4 REF
T2 REF
.000 TYP
.030
FT7 REF
Q5 REF
Q6 REF
FT11 REF
R22 REF
.000 TYP
.030
8 REF
SEE NOTE 31
11 SEE NOTE 13
.000 TYP
.030

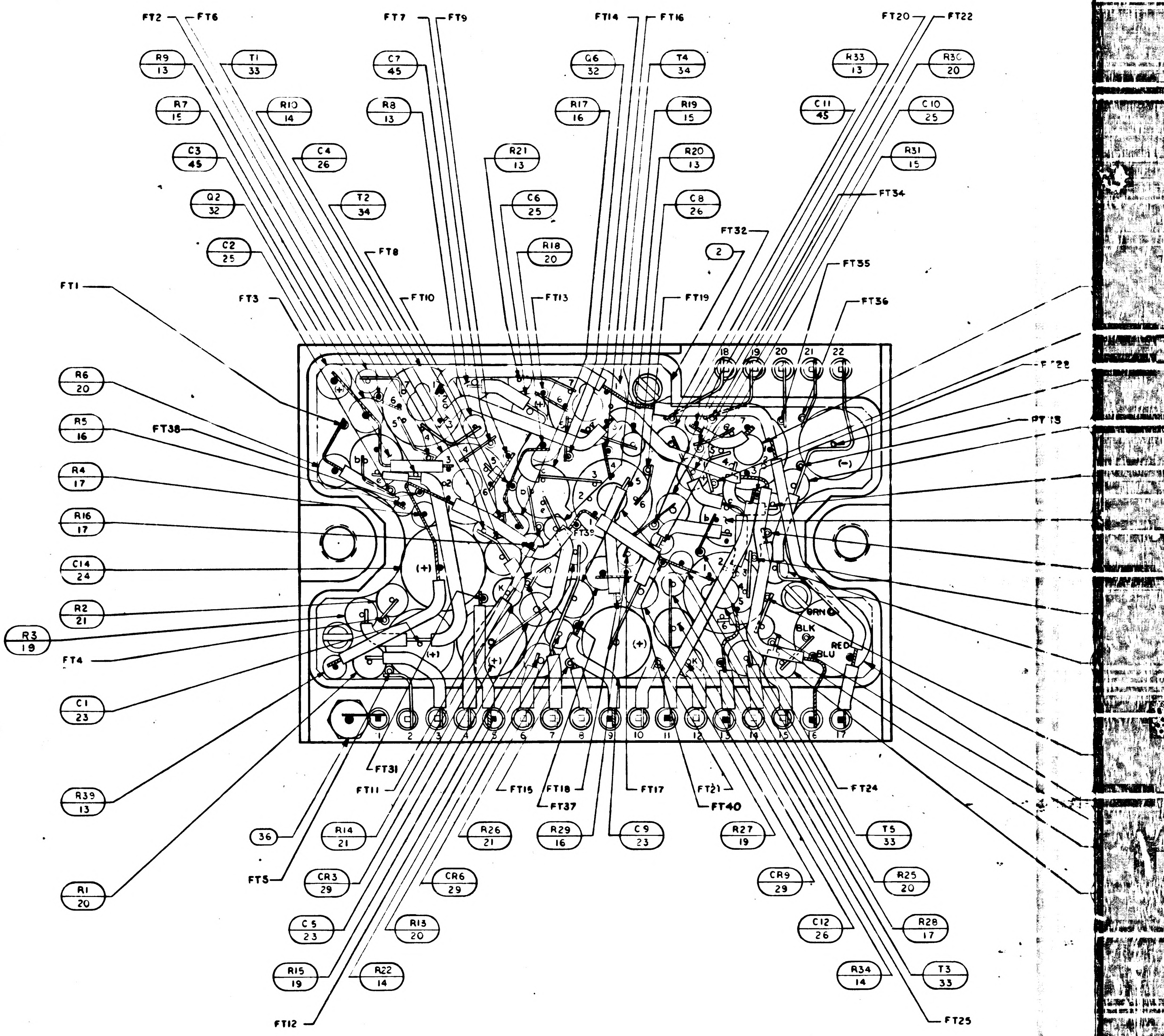
SECTION B-B


1.069 REF
6 REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000
.030
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
G6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
C2 25
FT8
R18 20
2
FT32
FT35
FT1
FT3
FT10
FT13
FT19
FT36
R6 20
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
R1 20
FT28
FT18
(+)
(−)
ORN
BLK
BLU
RED
18 19 20 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
FT31
FT11
FT15
FT18
FT37
FT17
FT21
FT40
FT24
36
FT5
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
CR3 29
CR6 29
CR9 29
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136.
3. AR DENOTES AS REQUIRED.
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR.
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I.
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29.
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING.
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING.
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069.
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN.
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING [illegible] PRIMER AND [illegible]8609-4 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NO.44 AND R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO 44 PER ND1002004 TYPE I. (CENTRALIZE).
29 BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU S FT31 THRU FT37.
33 TYPICAL FOR FEED THRU S FT1, FT8, FT9 AND FT20.

APOLLO G&N Specification
PS6007011 REV B
Original Issue Date: 14 June 1966
Release Authority: TDRR 29566
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

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CDU FINE ERRORS SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007011

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12/28/66	B	32439	6	JP MGM	--

This specification consists of page 1 to 10 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R M Kowalski 7 June 66	M G Mierley 6-14-66 MIT/IL		G H Krier	G. C. Hamren ACSP

APOLLO G&N Specification
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DRAWING NO. 6007011

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Date	Revision Letter	TDRR No:	Pages Revised	Approvals	
				MIT	NASA
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12/28/66	B	32439	6	JP MGM	--

This specification consists of page 1 to 10 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R M Kowalski 7 June 66	6-14-66 MIT/IL		G W Krier	ACSP

4.2.1.3 Test Connections. Unless otherwise specified, the tests specified herein shall be performed on each assembly section as shown in Figure 1, using the applicable input and output pins as detailed in Table III.

TABLE III

INPUT-OUTPUT PIN CONNECTIONS

ASSEMBLY SECTION	INPUT PINS		OUTPUT PINS	
	Hi	Lo	Hi	Lo
a	3	8	4	13
b	6	8	7	13
c	14	8	12	13
d	11	15	11	22
e	18	19 & 20	21	22

4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically reclassify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and re-examination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

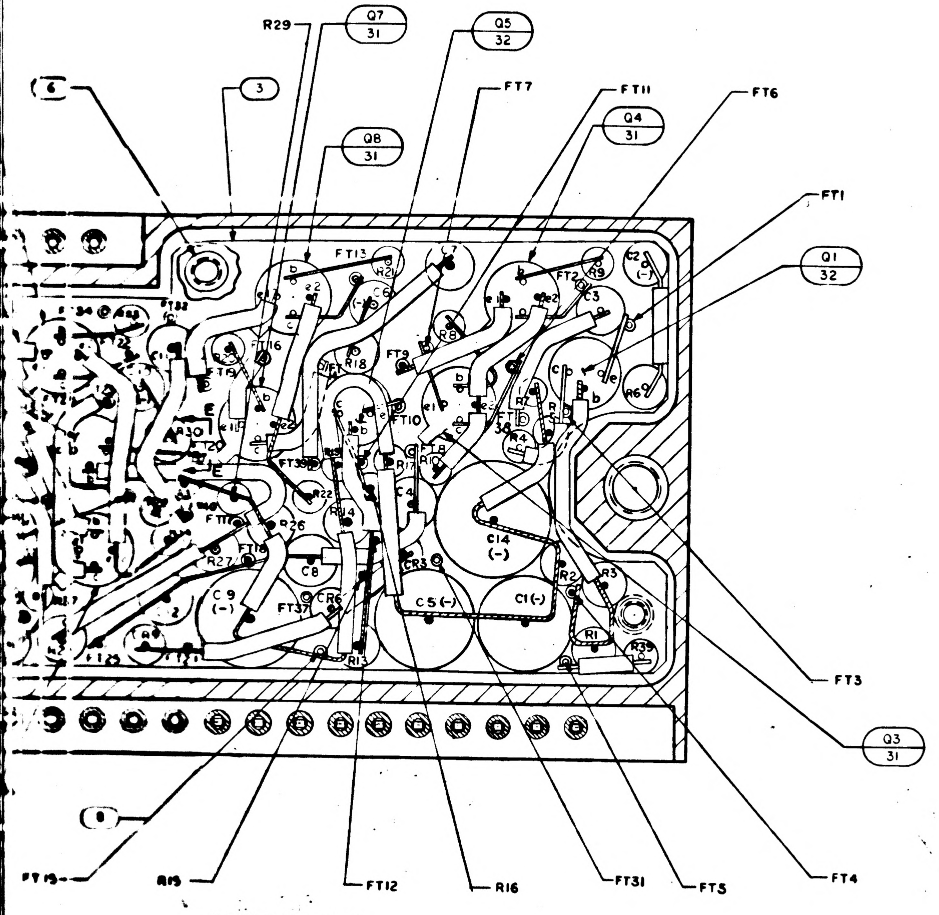
4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007011. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

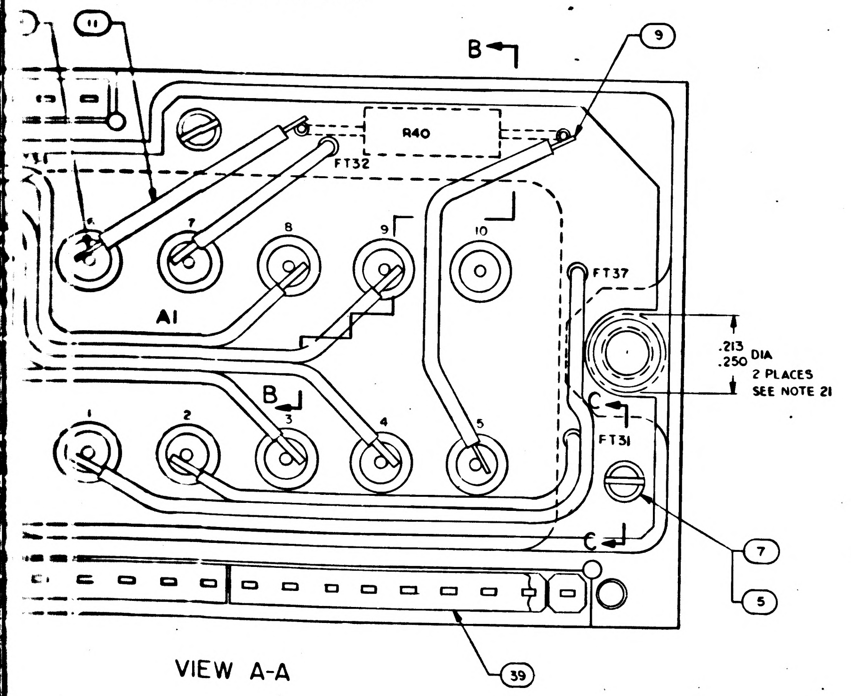
4.3.2 Workmanship-Vibration. The assembly shall be vibrated with the input test voltage, and output loads and voltages connected and monitored as shown in Figure 1. The assembly shall be mounted in the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the axes shown in Figure 2. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 6.0g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency. Previbration output levels shall be set within the range of 2.00±0.60 vdc for assembly sections a, b, c, d and e. During vibration the output voltages shall not deviate by more than ±10 percent of the previbration levels for a period exceeding 1 msec. Any deviation exceeding these requirements shall be cause for rejection of the assembly. After vibration, the assembly shall be examined as specified in 4.3.1.

4.3.3 Insulation Resistance. The dc resistance between all assembly pins and pin 1 shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 microamperes. The insulation resistance shall be $\geq$100 megohms.

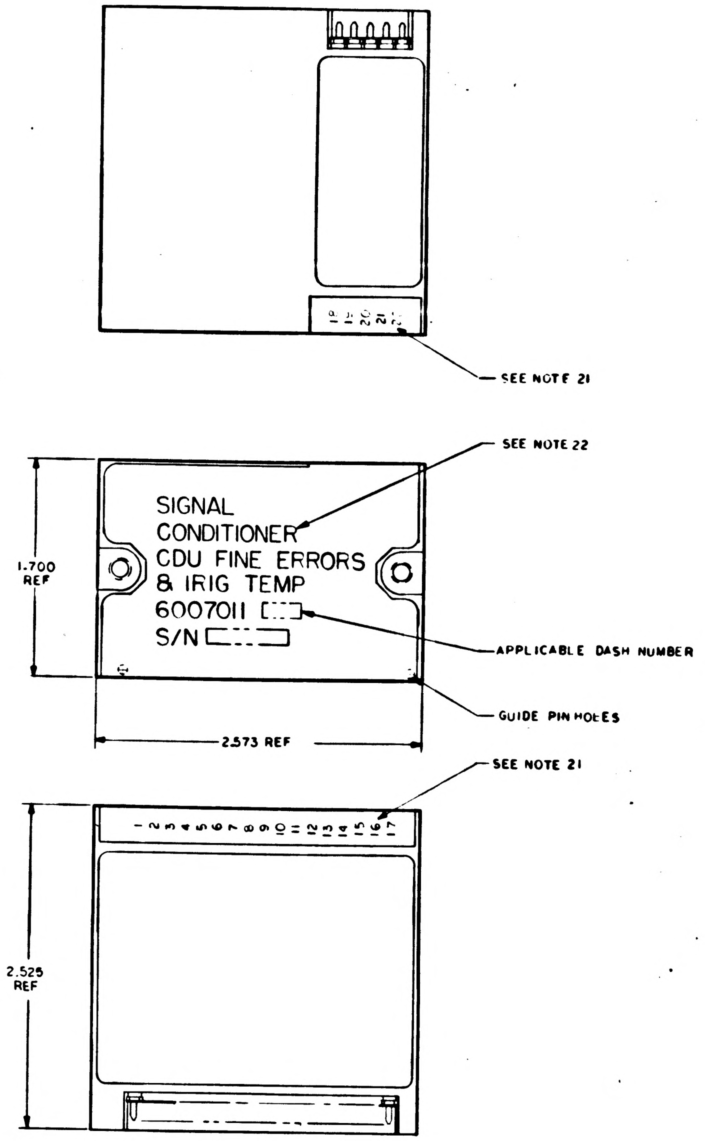
		REVISIONS 26026				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.	CW	17 JUN 66	
B		REVISED PER TDRR 29917	J.E.G.		14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S.	29 JUL 66	


R29
Q7 31
Q5 32
3
6
FT7
FT11
FT6
Q4 31
Q8 31
FT1
Q1 32
FT13
C7
C2
C3
C14 (-)
C5 (-)
C1 (-)
C9 (-)
C8
CR3
R1
R2
R3
FT3
Q3 31
8
FT19
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D


11
B
9
R40
FT32
A1
1
2
3
4
5
6
7
8
9
10
FT37
FT31
.213 .250 DIA
2 PLACES
SEE NOTE 21
C
7
5
39

VIEW A-A


SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
1.700 REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
2.573 REF
SEE NOTE 21
2.525 REF

MARKING VIEW
SCALE 2/1

3H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-9	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
4	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 180	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1
-011	LIST OF MATERIALS		

6007011 C

NEXT ASSY	USED ON
6007010	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

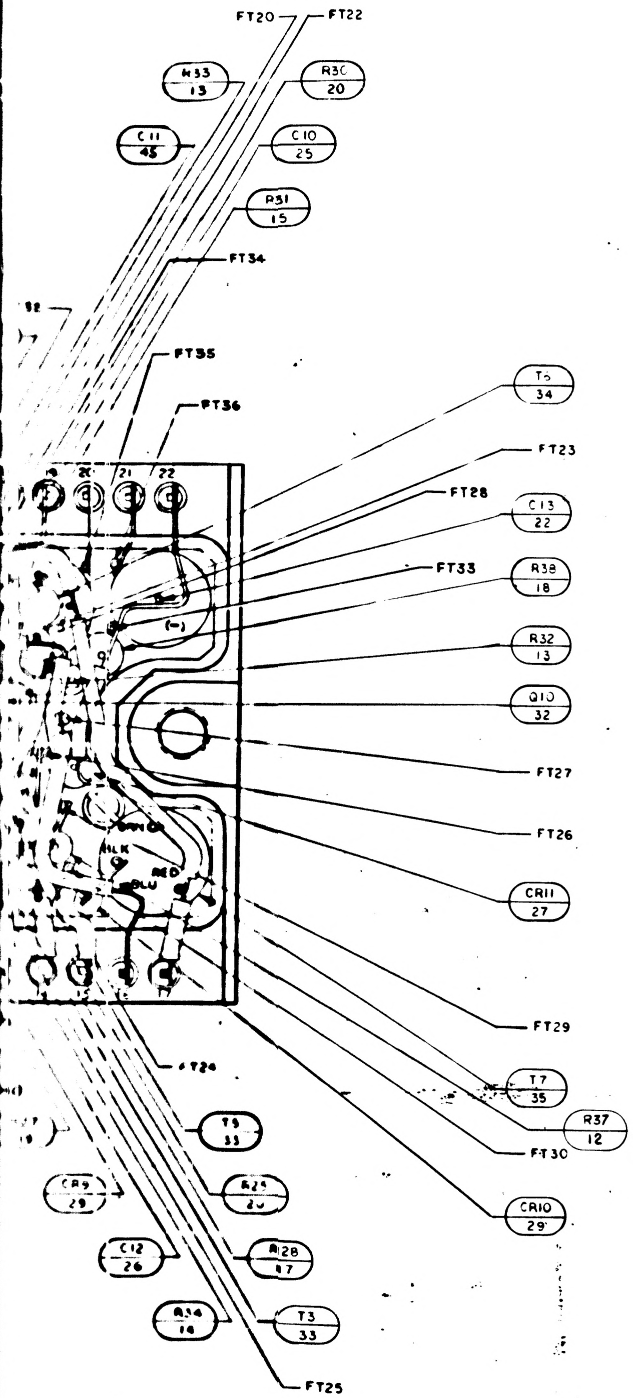
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER ASSEMBLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007011
SCALE 5/1		SHEET 1 OF 1

	REV LTR	SHT
6007011	C	1 OF 1

3/6007011


FT20
FT22
R33 13
R30 20
C11 45
C10 25
R31 15
FT34
FT35
FT36
T5 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
FT29
T7 35
R37 12
FT30
CR10 29
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CR9 29
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C12 26
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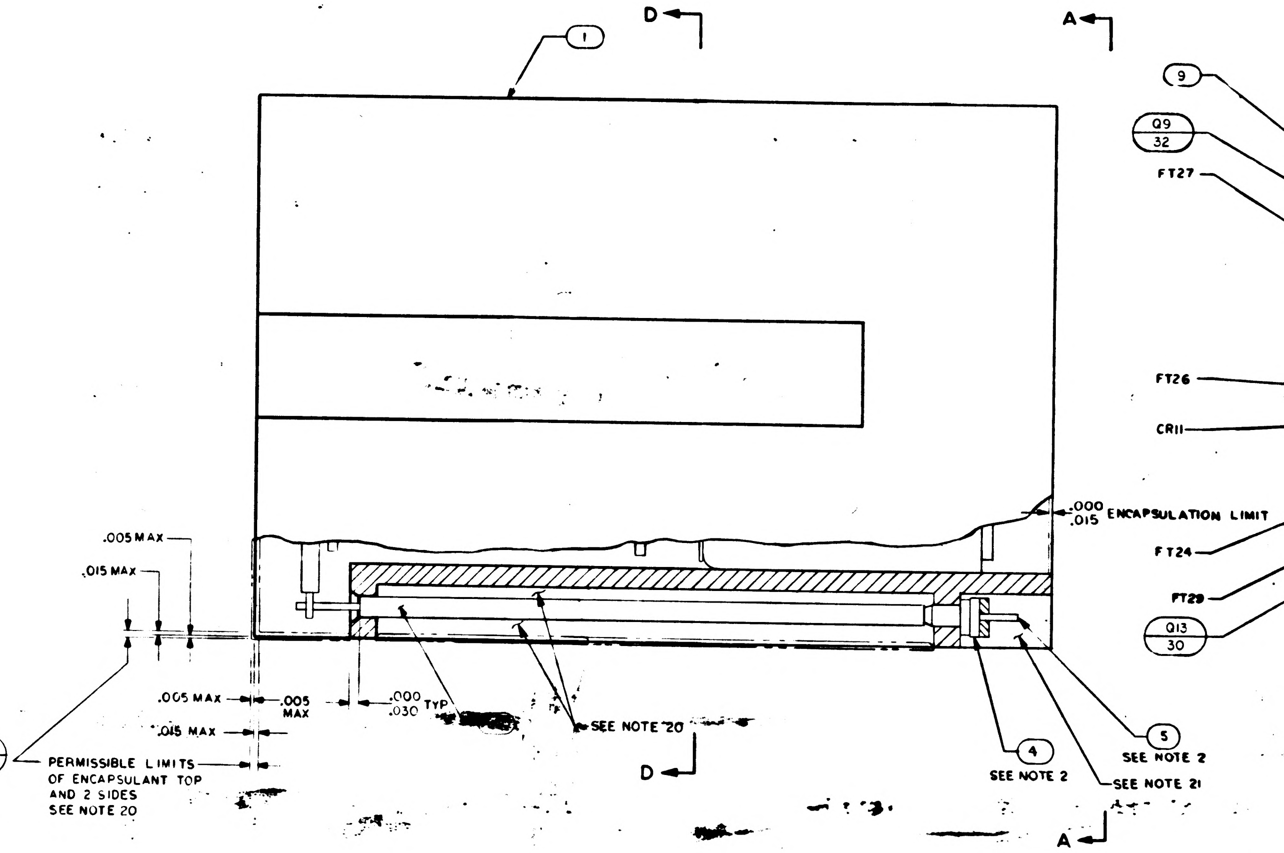
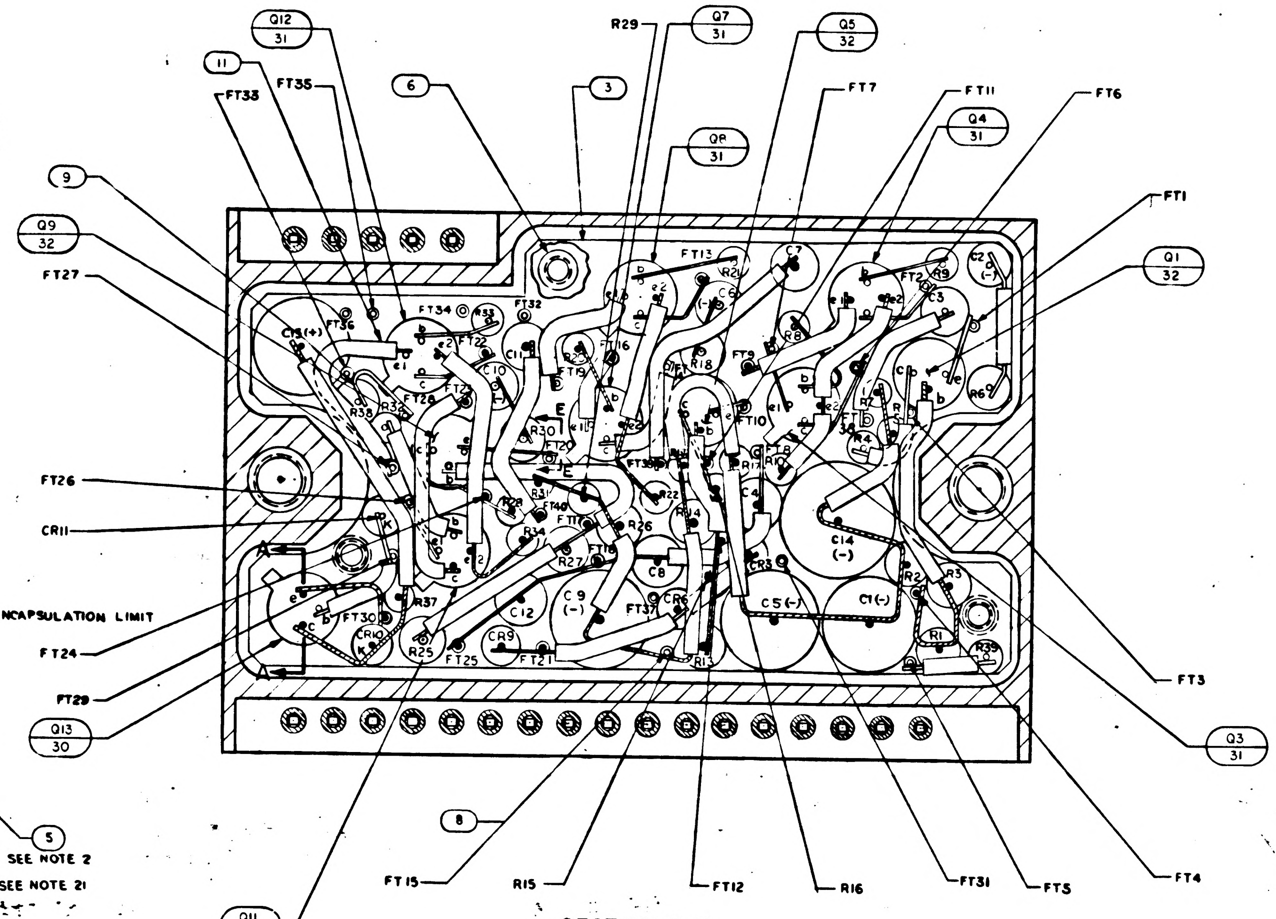
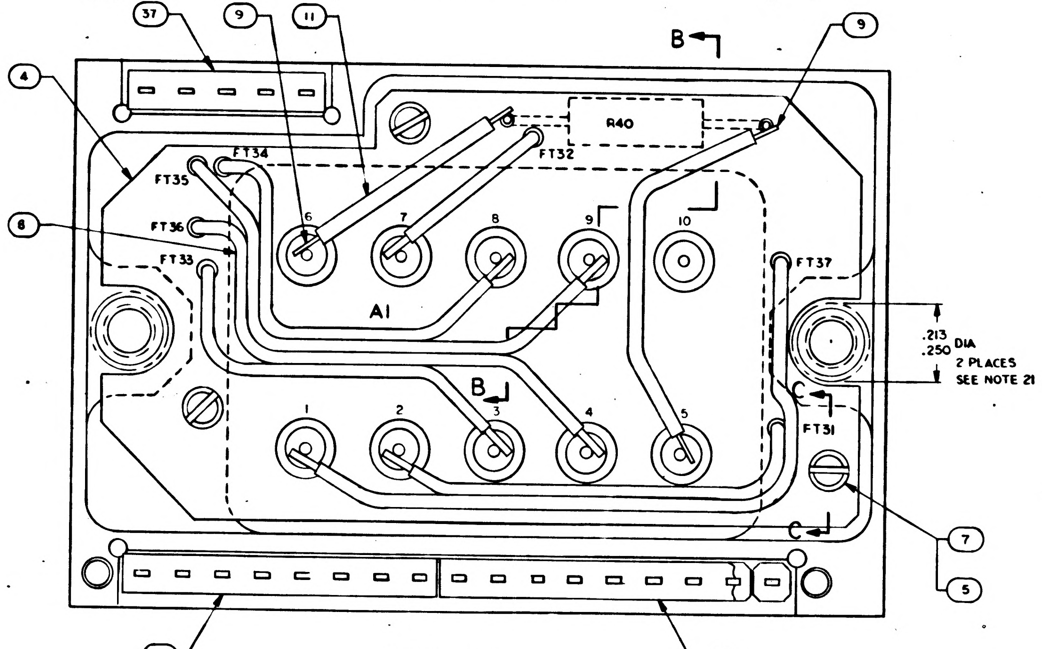
R34 14
T3 33
FT25
BLK
RED
BLU


1
D
A
.000
.015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000
.030 TYP
SEE NOTE 20
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
D
A


Q12 31
R29
Q7 31
Q5 32
11
FT35
6
3
FT33
FT7
FT11
Q4 31
FT6
Q8 31
9
FT1
Q9 32
Q1 32
FT27
FT26
CR11
FT24
FT29
Q13 30
8
FT15
R15
FT12
R16
FT31
FT5
FT4
FT3
Q3 31
Q11 31
C14 (-)
C5 (-)
C1 (-)
C9 (-)
C12
C8
C13 (+)
A
A

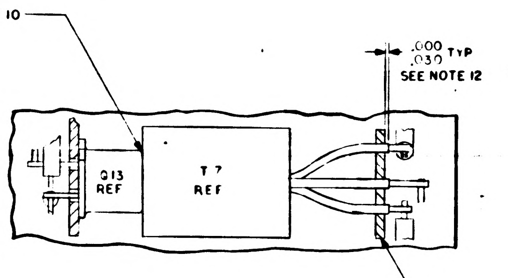
SECTION D-D


37
9
11
B
9
4
R40
FT34
FT32
FT35
6
FT36
FT33
6
7
8
9
10
FT37
A1
.213
.250 DIA
2 PLACES
SEE NOTE 21
B
C
1
2
3
4
5
FT31
C
7
5
38
39

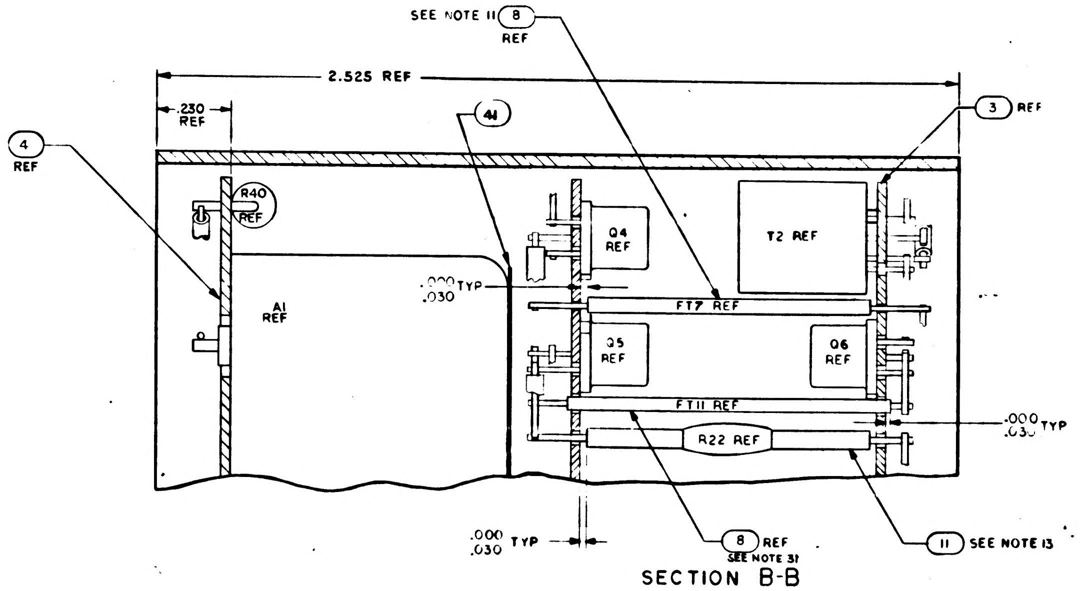
VIEW A-A

6007011	REV LTR C	SHT 1 OF 1

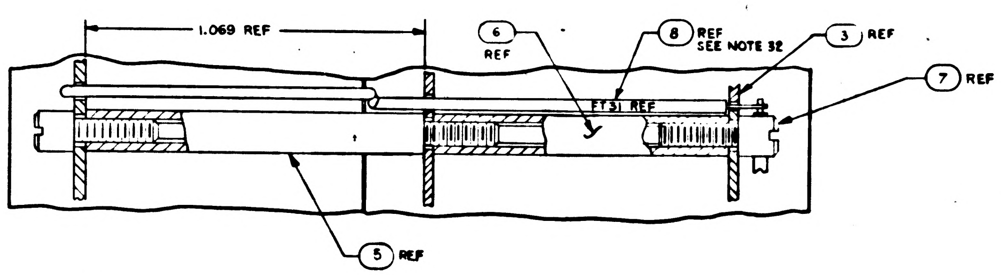
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000/.030 TYP
SEE NOTE 12
Q13 REF
T7 REF
3 REF

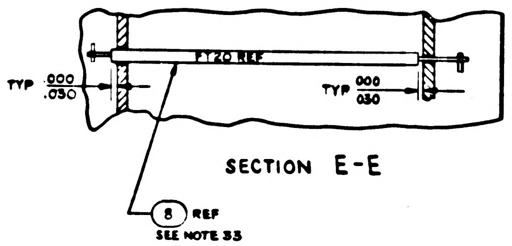
SECTION A-A


SEE NOTE 11
8 REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
A1 REF
Q4 REF
T2 REF
.000/.030 TYP
FT7 REF
Q5 REF
Q6 REF
FT11 REF
R22 REF
.000/.030 TYP
.000/.030 TYP
8 REF
SEE NOTE 31
11 SEE NOTE 13

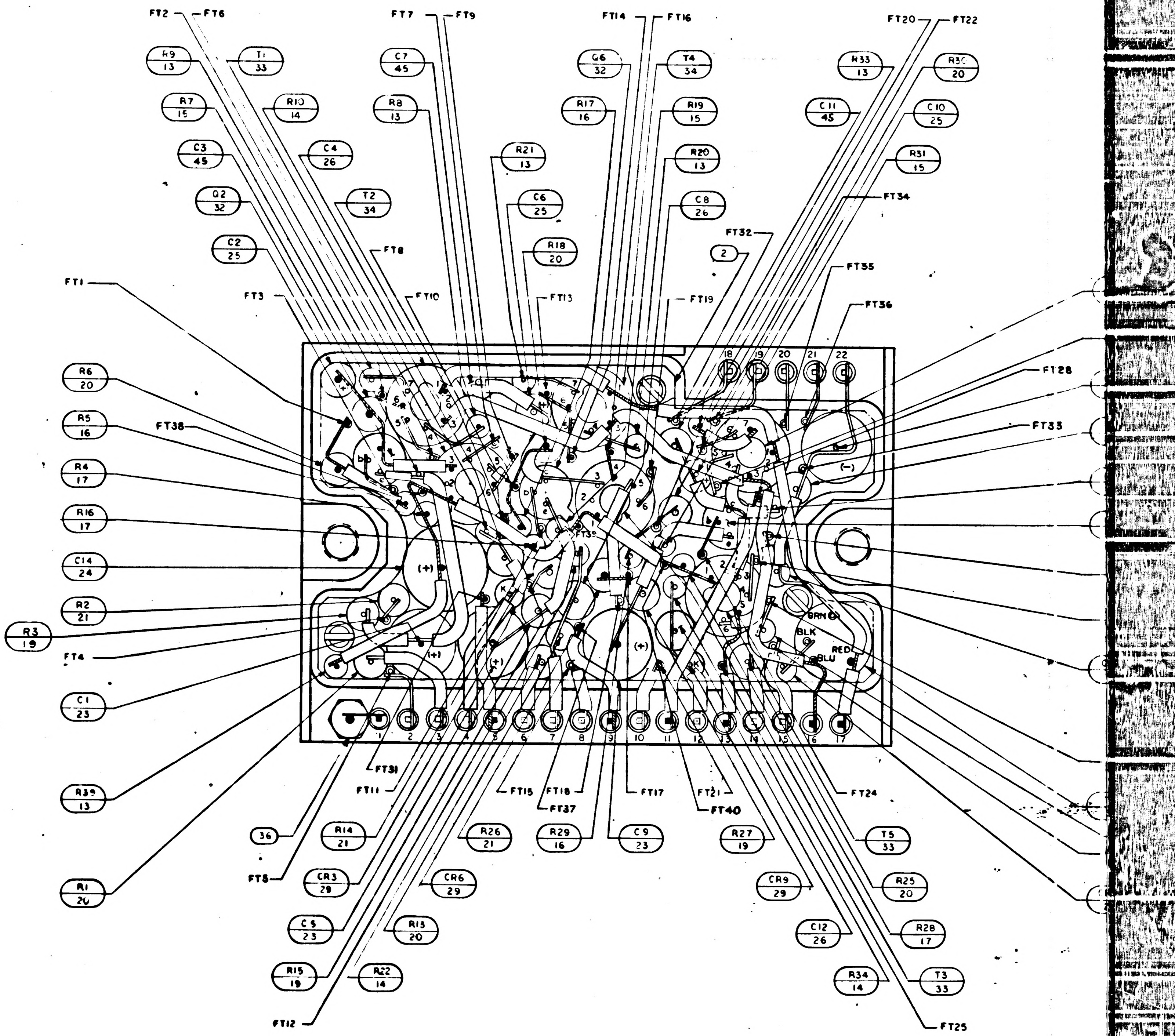
SECTION B-B


1.069 REF
6 REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000/.030
TYP .000/.030
8 REF
SEE NOTE 33

SECTION E-E

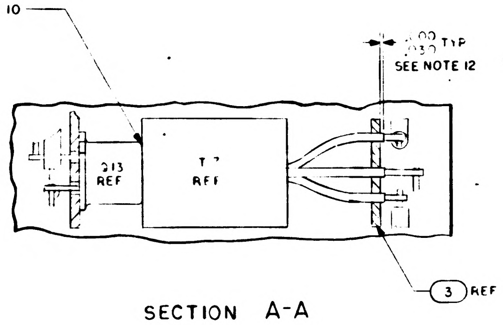

FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
C6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
C2 25
FT8
R18 20
FT32
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
R6 20
FT28
R5 16
FT38
FT33
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
36
FT5
R1 20
FT31
FT11
FT15
FT18
FT37
FT17
FT21
FT40
FT24
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
CR3 29
CR6 29
CR9 29
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25
18 19 20 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
(+)
(–)
BRN
BLK
RED
BLU

NOTES:

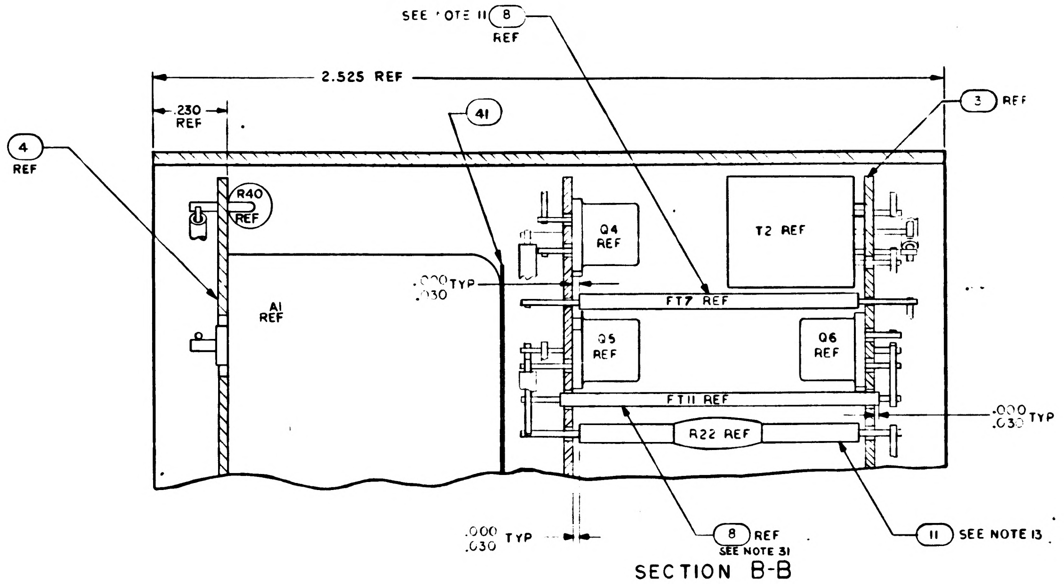
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED.
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005.
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2 PER ND 1002004 TYPE I.
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I.
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I.
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN
23. MARK .40/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN.
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NO.44 AND R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO.44 PER ND1002004 TYPE I. (CENTRALIZE)
29. BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.

6007011	REV LET C

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13
REF
T7
REF
3 REF

SECTION A-A


SEE NOTE 11
8
REF
2.525 REF
.230
REF
41
3 REF
4
REF
R40
REF
A1
REF
Q4
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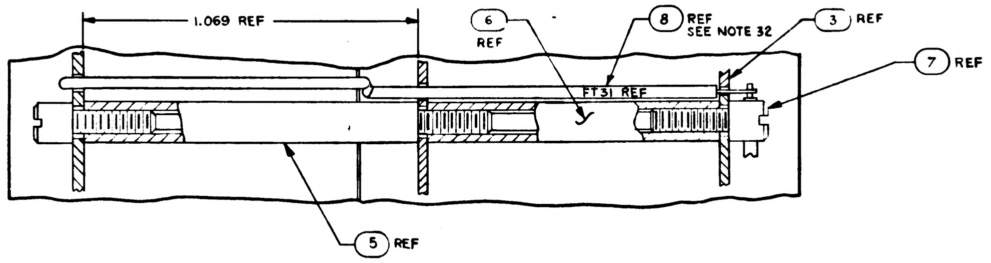
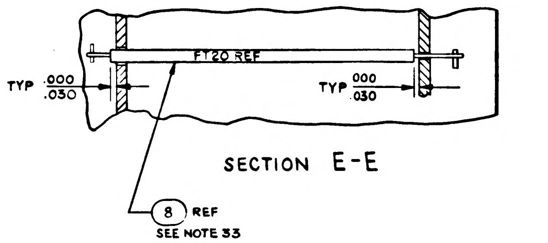
T2 REF
.000
.030 TYP
FT7 REF
Q5
REF
Q6
REF
FT11 REF
R22 REF
.000
.030 TYP
.000
.030 TYP
8 REF
SEE NOTE 31
11 SEE NOTE 13

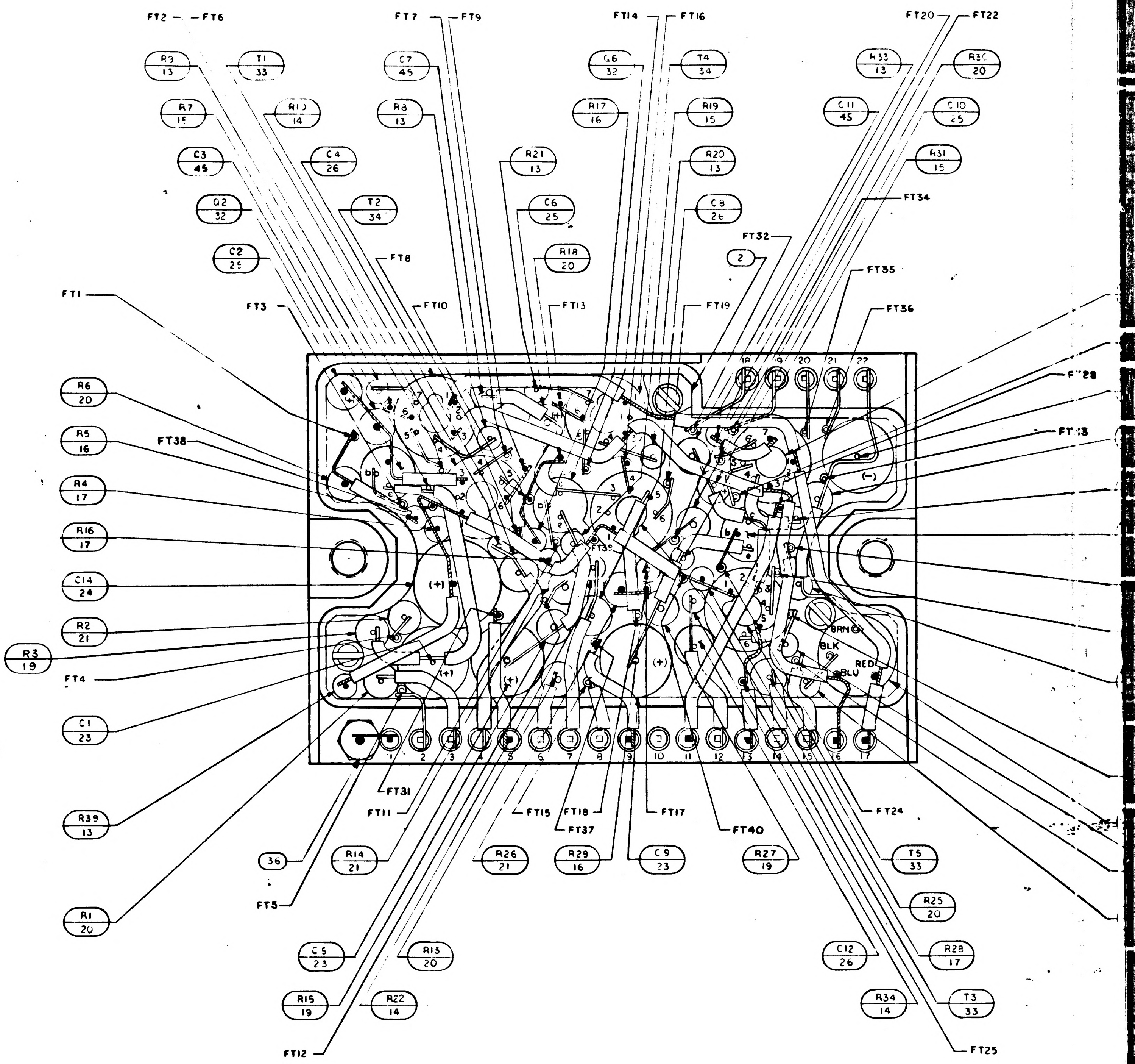
SECTION B-B


1.069 REF
6
REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000
.030
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E


FT2 – FT6
FT7 – FT9
FT14 – FT16
FT20 – FT22
R9 13
T1 33
C7 45
C6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
FT32
2
C2 25
FT8
R18 20
FT35
FT1
FT3
FT10
FT13
FT19
FT36
R6 20
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
36
FT5
R1 20
FT31
FT11
FT15
FT18
FT37
FT17
FT40
FT24
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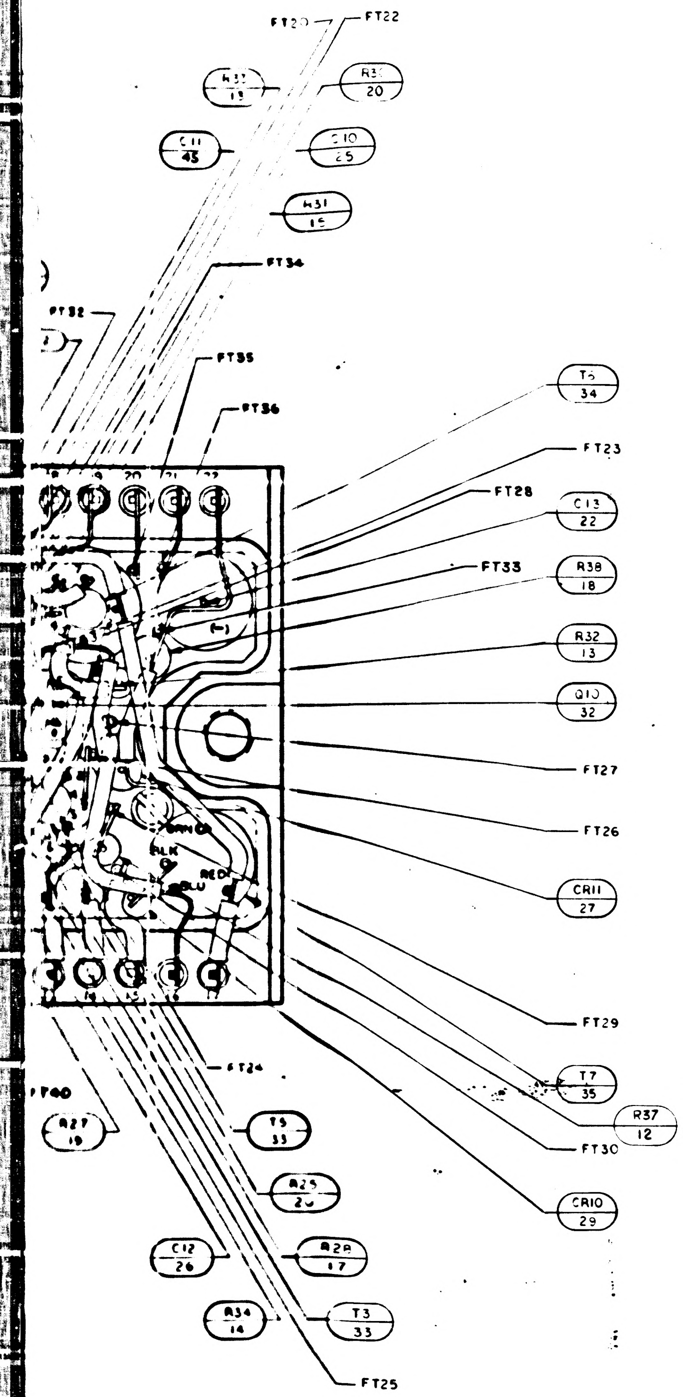
R26 21
R29 16
C9 23
R27 19
T5 33
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25
FT28
FT13
18 19 20 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
(+)
(–)
BRN
BLK
BLU
RED

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2 PER ND 1002004 TYPE I
9. BOND FIND NO.30(Q13),FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010492 PRIMER AND 1008094 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011
27. FIND NO.44 AND R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON FIND NO.44.
28. BOND FIND NO 41 TO FIND NO 44 PER ND1002004 TYPE I. (CENTRALIZE).
29. BOND FIND NO 40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO 44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.

6007011	REV LTR D


FT20
FT22
R33
19
R31
20
C11
43
C10
45
R31
15
FT34
FT32
FT35
FT36
T6
34
FT23
FT28
C13
22
FT33
R38
18
R32
13
Q10
32
FT27
FT26
CR11
27
FT29
T7
35
R37
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FT30
CR10
29
FT24
FT40
R27
19
T5
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R28
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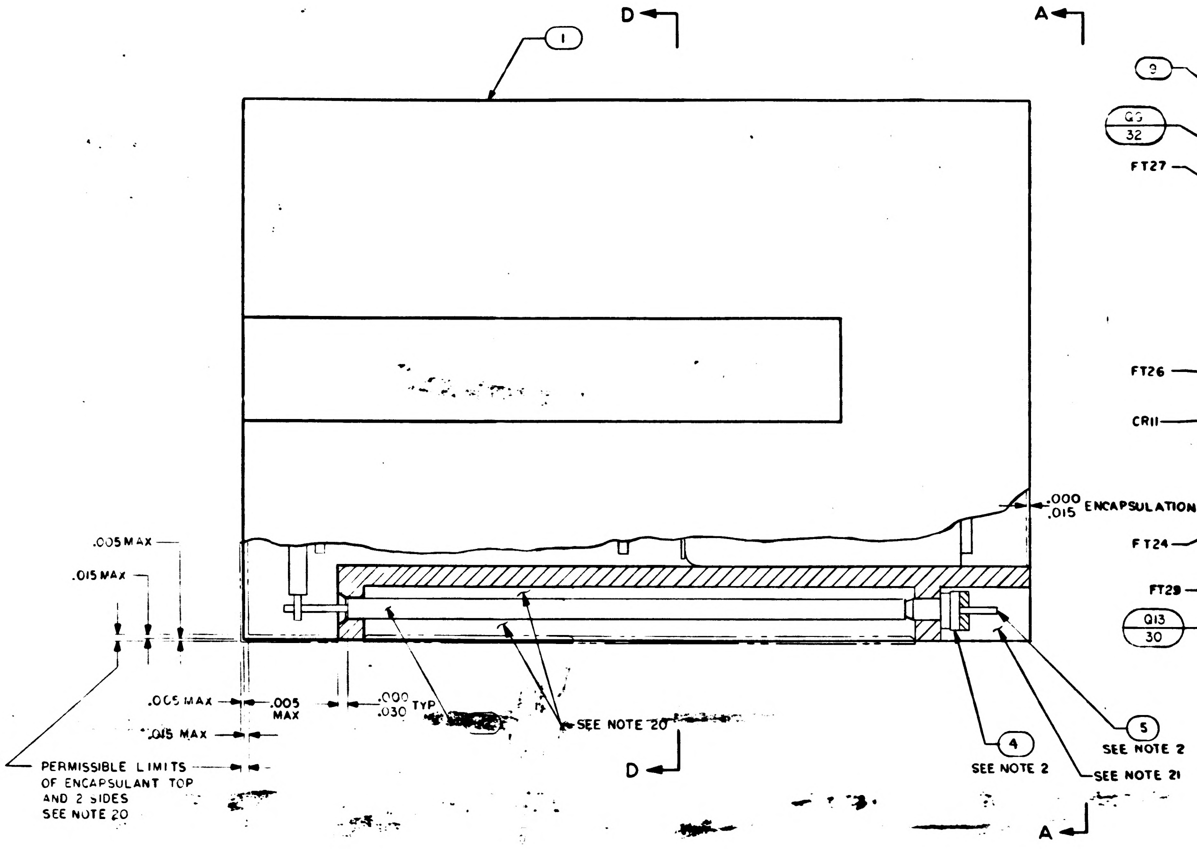
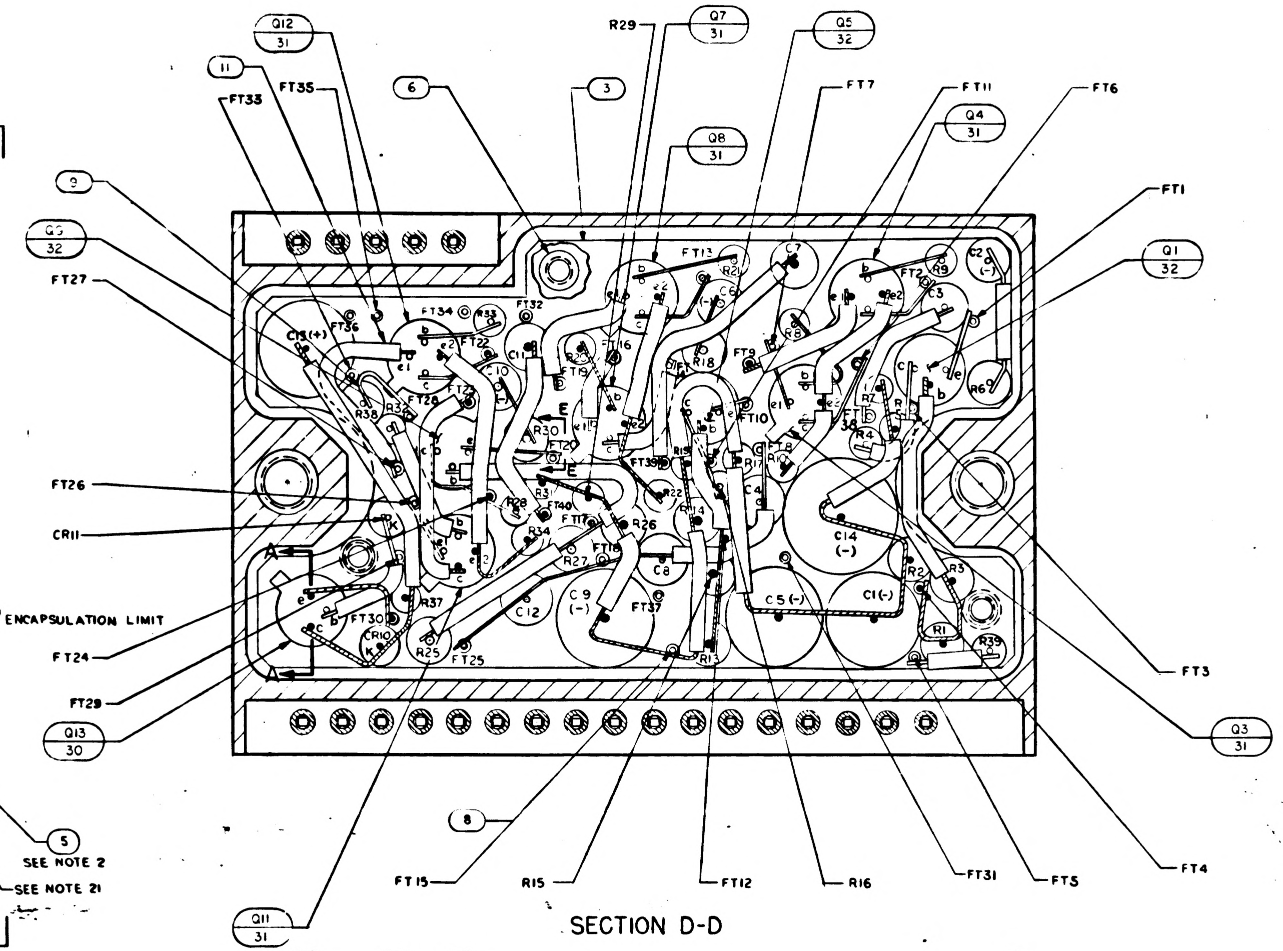
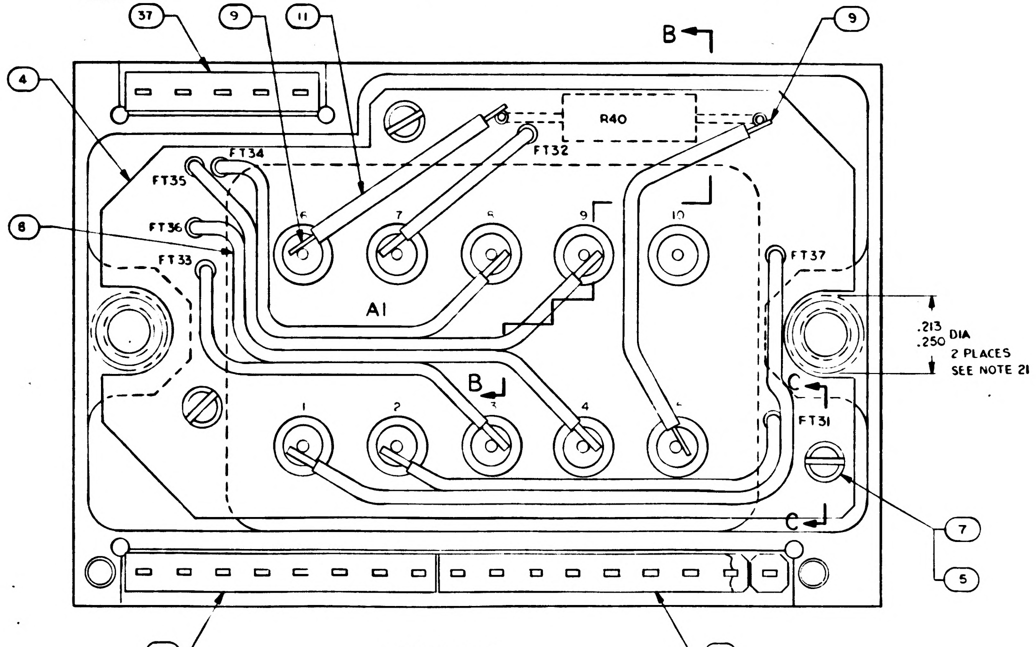
C12
26
R34
14
T3
33
FT25
RED
BLK
BLU


1
D
A
.000
.015
ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000
.030
TYP
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20
D
A


Q12
31
R29
Q7
31
Q5
32
11
FT35
FT33
6
3
FT7
FT11
FT6
Q8
31
Q4
31
FT1
2
Q6
32
Q1
32
FT27
FT26
CR11
FT24
FT29
Q13
30
FT3
Q3
31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11
31
C15(+)
FT34
FT22
FT13
C7
C14
(−)
C9
(−)
C5(−)
C1(−)
C12
C8
R1
R39
FT30
FT37
FT25
R25
R37

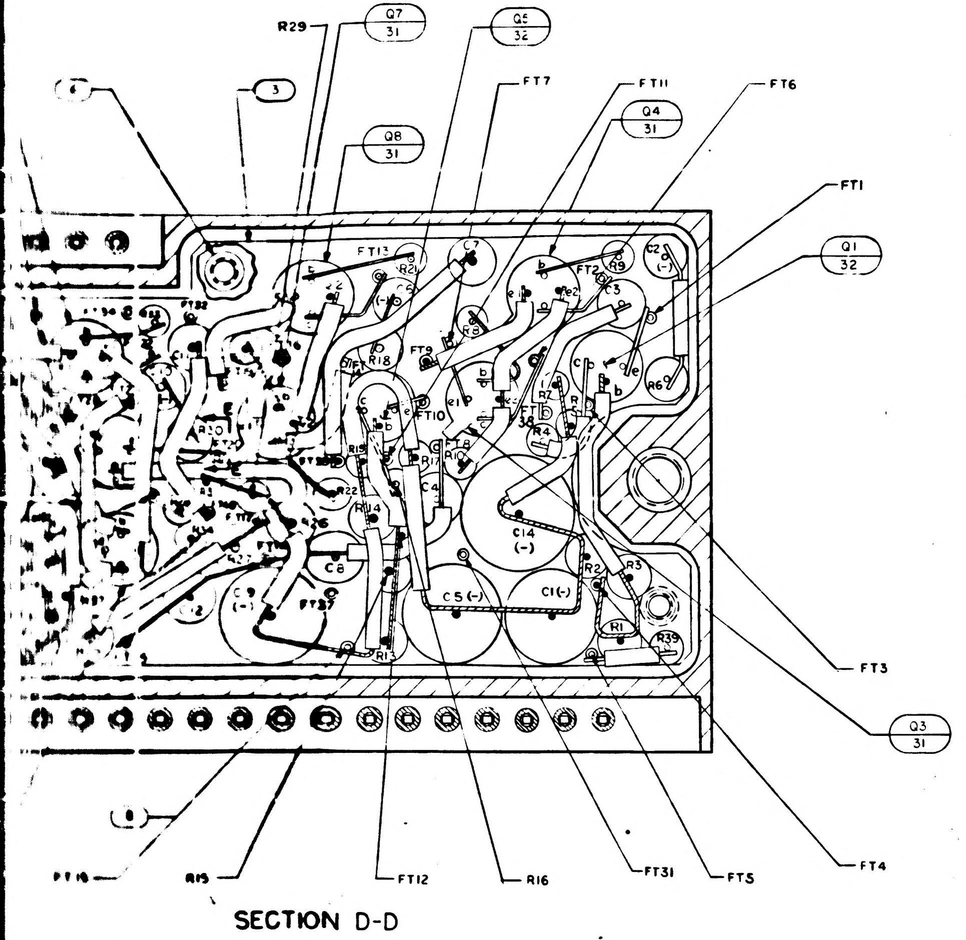
SECTION D-D


37
9
11
9
4
B
R40
FT34
FT32
FT35
6
FT36
FT33
A1
FT37
.213
.250
DIA
2 PLACES
SEE NOTE 21
B
C
FT31
C
7
5
38
39
1
2
3
4
5
6
7
8
9
10

VIEW A-A

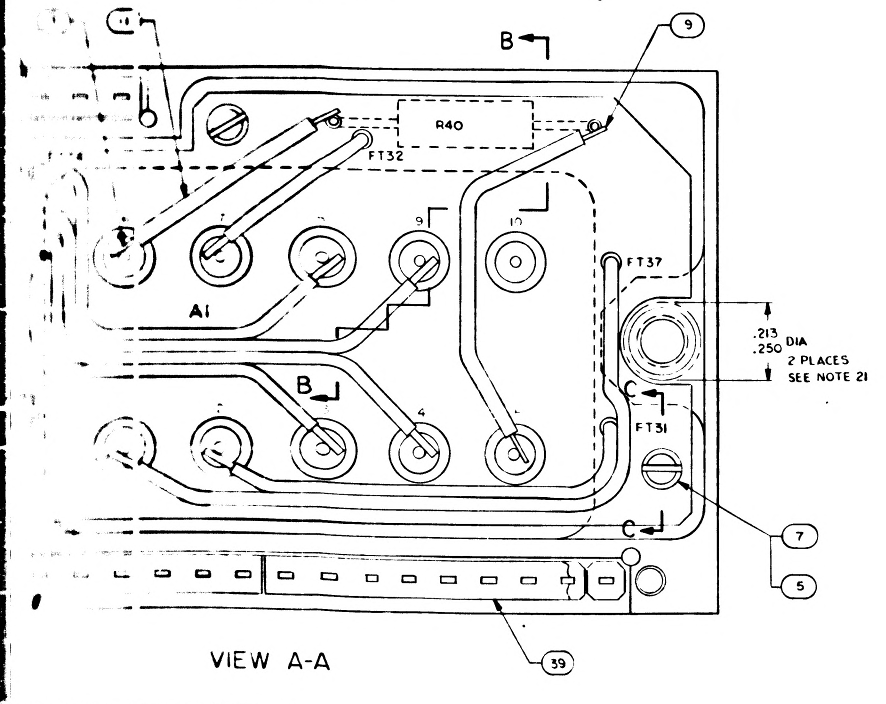
6007011	REV LTR D	SHT 1 OF 1

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	
B		REVISED PER TDRR 29417	J.E.G.		14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S	29 JUL 66	
D		REVISED PER TDRR 30280	A.N		19 AUG 66	



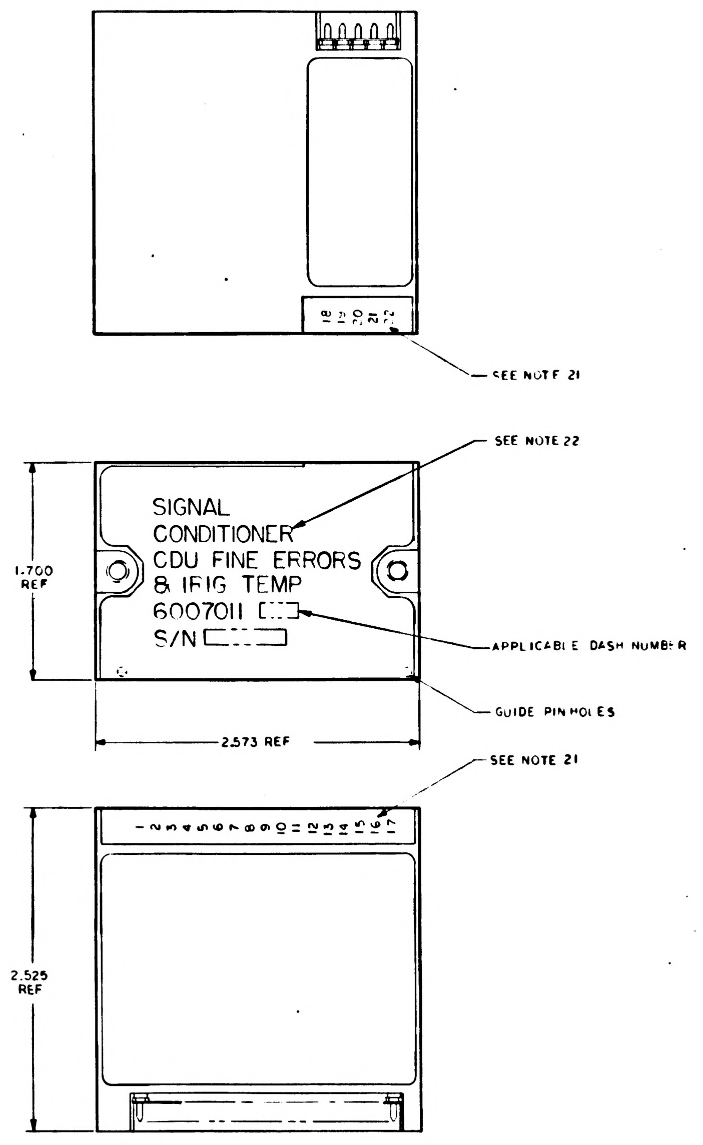
R29
Q7 31
Q5 32
3
FT7
FT11
Q4 31
FT6
Q8 31
FT1
Q1 32
FT13
R2
C7
FT2
R9
C2
FT32
R10
FT9
R18
R8
R5
R6
R7
FT10
R4
R15
R22
R14
C4
C14 (-)
C8
C5 (-)
C1 (-)
R3
R2
R1
R39
R13
FT3
Q3 31
8
FT10
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D



B
9
R40
FT32
A1
FT37
.213
.250 DIA
2 PLACES
SEE NOTE 21
B
C
FT31
C
7
5
39

VIEW A-A



SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
1.700 REF
APPLICABLE DASH NUMBER
GUIDE PINHOLES
2.573 REF
SEE NOTE 21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2.525 REF
18 19 20 21 22

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-9	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1006540 — 9	GASKET	39
1	1006540 — 8	GASKET	38
1	1006540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
5	1010367	TRANSISTOR	31
[illegible]	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010274 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010349 — 2	WIRE, ELECTRICAL	8
6	[illegible] 8161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008038	FRAME	1
-011	LIST OF MATERIALS		

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

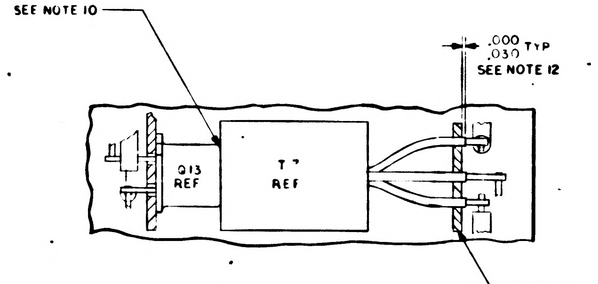
CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007011
SCALE 5/1
SHEET 1 OF 1

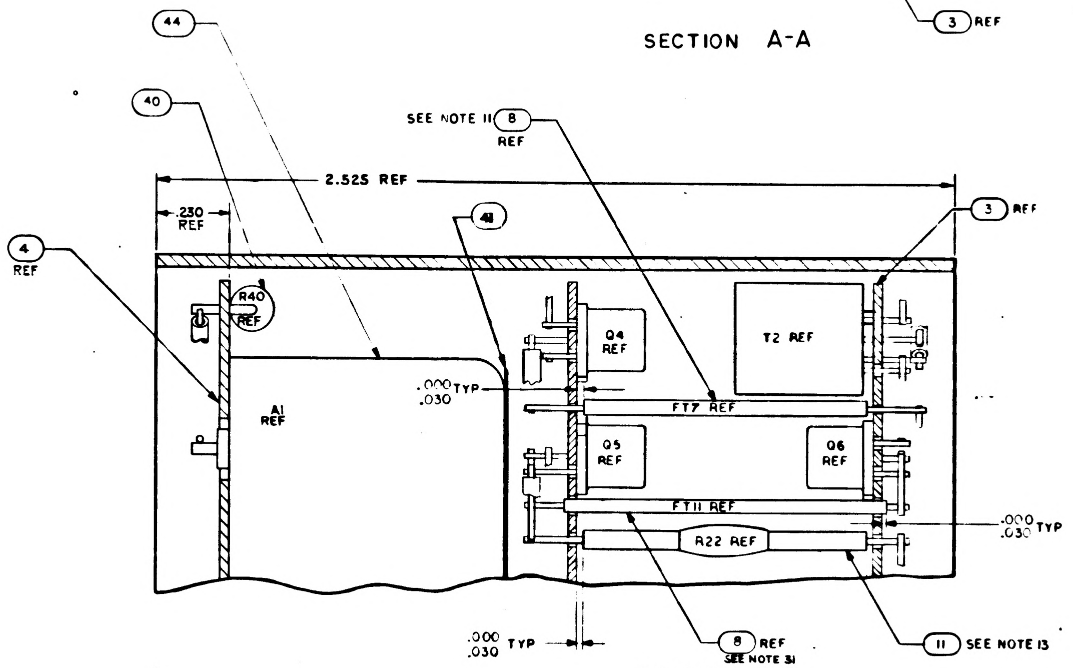
6007011 D

3H

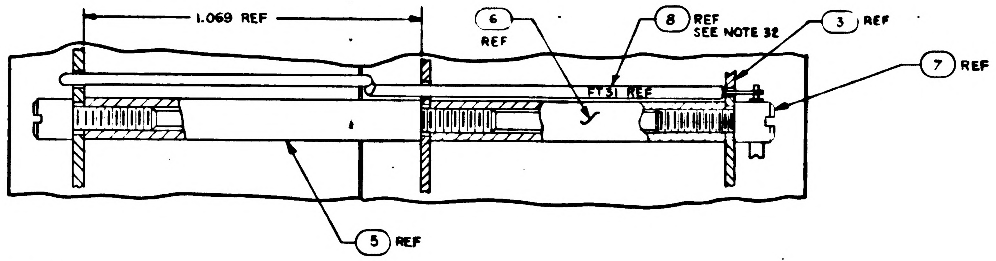
3760070111


SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13 REF
T7 REF
3 REF

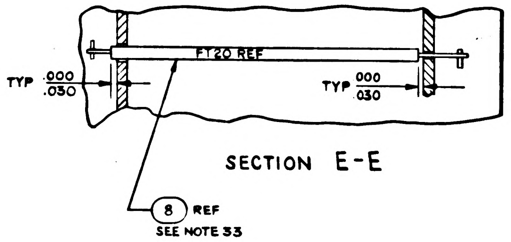
SECTION A-A


44
40
SEE NOTE 11
8 REF
2.525 REF
.230 REF
4 REF
41
3 REF
R40 REF
A1 REF
.000
.030 TYP
Q4 REF
T2 REF
FT7 REF
Q5 REF
Q6 REF
FT11 REF
R22 REF
.000
.030 TYP
.000
.030 TYP
8 REF
SEE NOTE 31
11 SEE NOTE 13

SECTION B-B

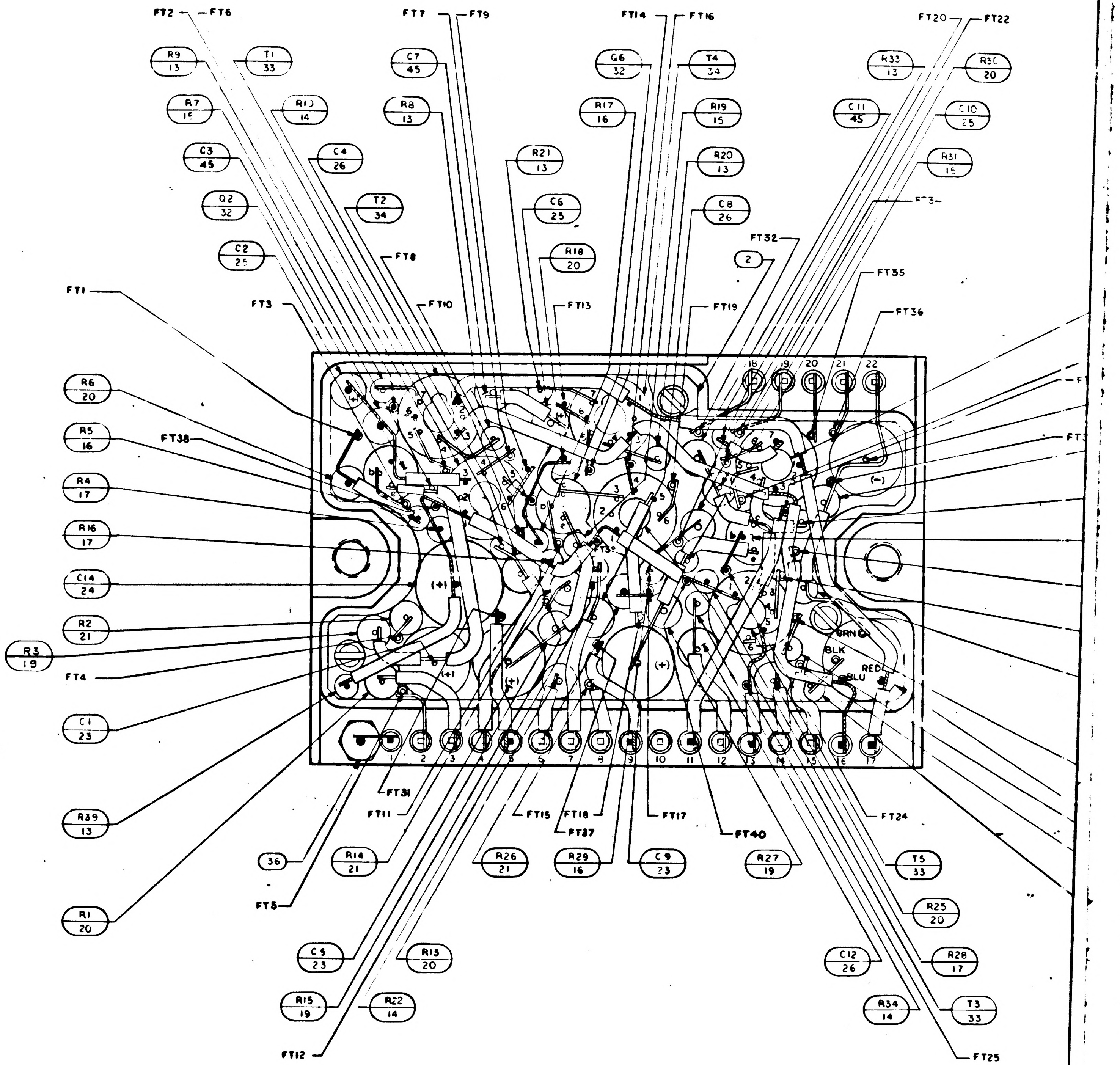

1.069 REF
6 REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000
.030
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E

R40	
PART NUMBER	VALUE
1008878-044	14.000 K
-045	14.112
-046	14.225
-047	14.339
-048	14.454
-049	14.570
-050	14.687
-051	14.804
-052	14.922
-053	15.041
-054	15.161
-055	15.282
-056	15.404
-057	15.527
-058	15.651
-059	15.776
-060	15.902
-061	16.029
-062	16.157
-063	16.286
-064	16.416
-065	16.547
-066	16.679
-067	16.812
1008878-068	16.900 K

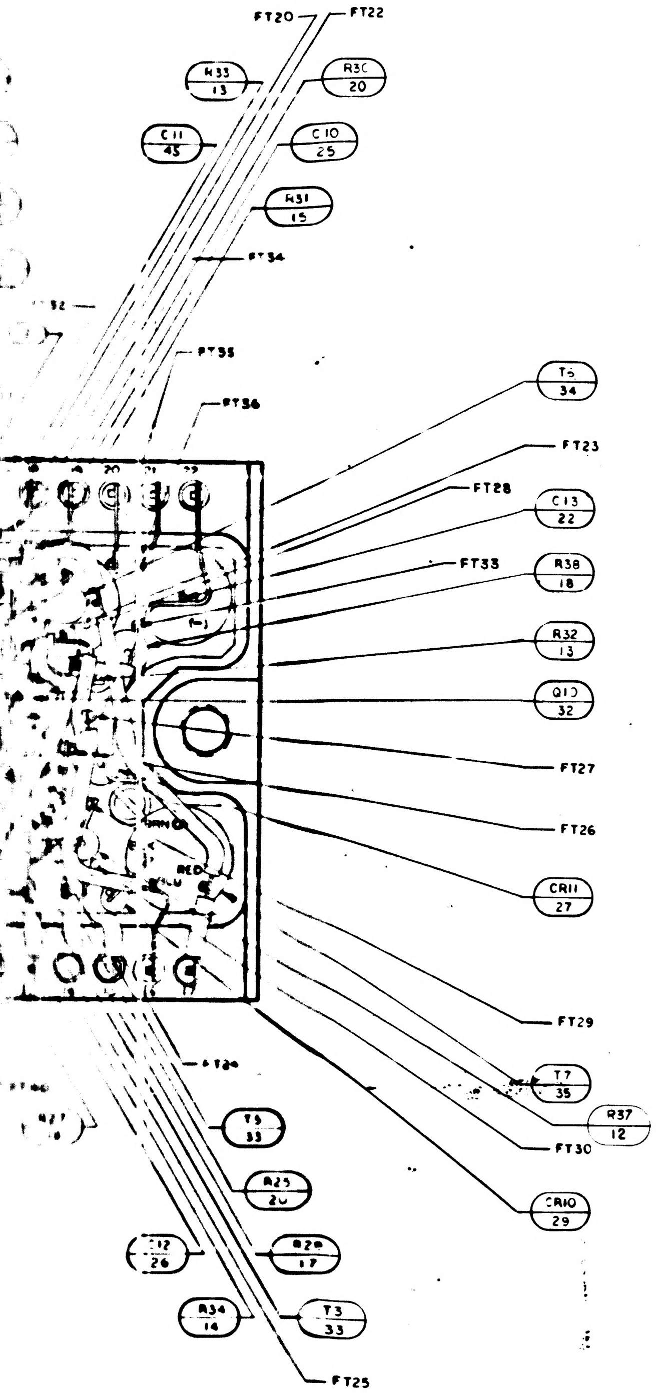

FT2 — FT6
FT7 — FT9
FT14 — FT16
FT20 — FT22
R9 13
T1 33
C7 45
G6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT3
C2 25
FT8
R18 20
FT32
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
R6 20
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
36
FT5
R1 20
FT31
FT11
R14 21
R26 21
FT15
FT18
FT37
R29 16
C9 23
FT17
FT40
R27 19
FT24
T5 33
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25
BRN
BLK
BLU
RED
(+)
(−)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
18 19 20 21 22

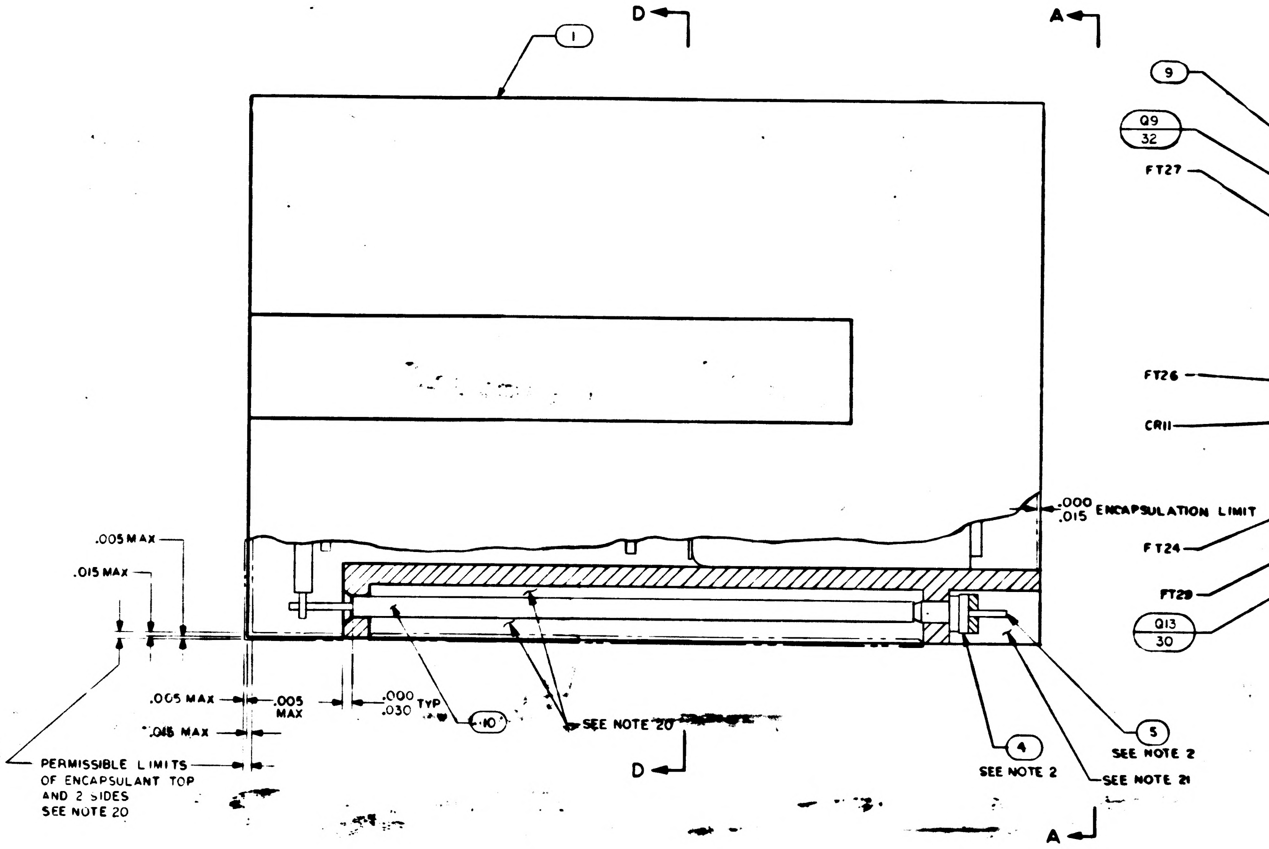
NOTES:

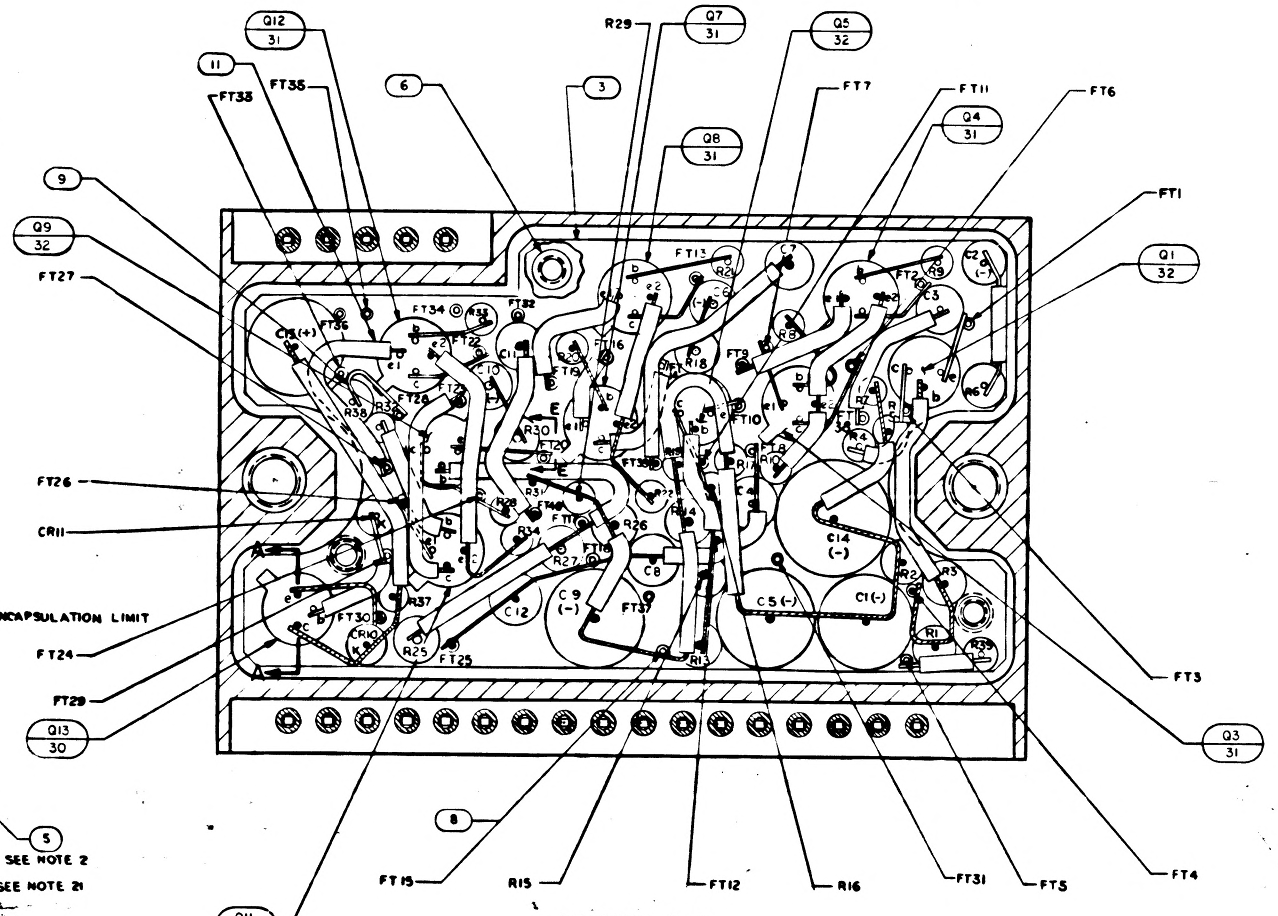
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2 PER ND 1002004 TYPE I
9. BOND FIND NO.30(Q13),FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7 FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 10098094 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NOS. 44 AND 40 ARE MATCHED COMPONENTS. FIND NO. 40 SHALL BE SELECTED FROM CHART (R40) PER VALUE SPECIFIED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO 44 PER ND1002004 TYPE I (CENTRALIZE).
29. BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37.
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.

6007011 REV LTR E

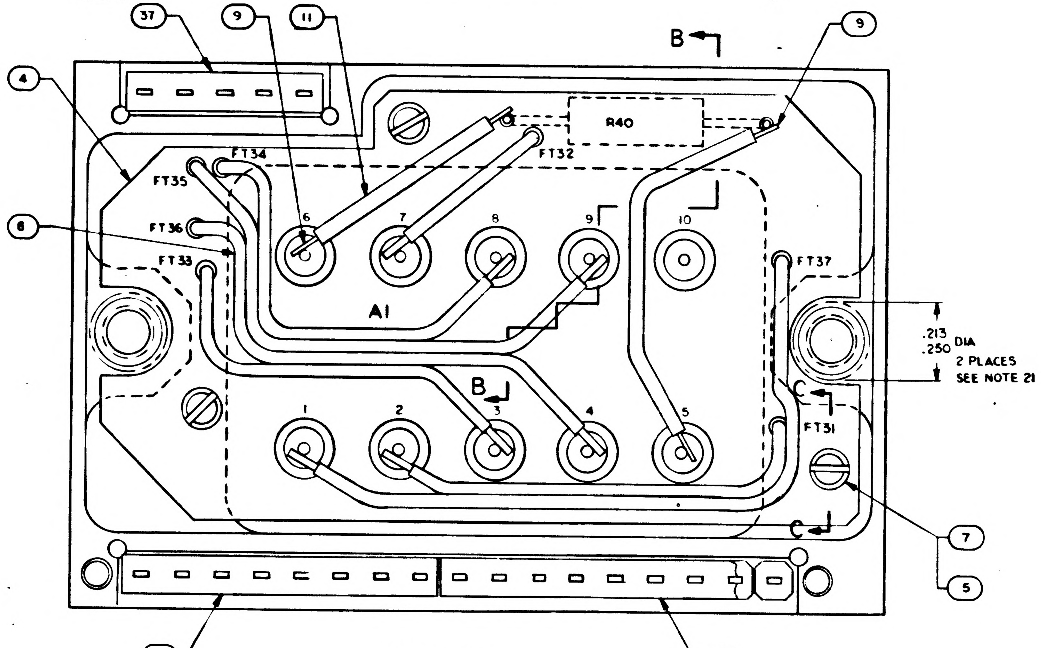
1/6007011


FT20
FT22
R33
13
R30
20
C11
45
C10
25
R31
15
FT34
FT35
FT36
T6
34
FT23
FT28
C13
22
FT33
R38
18
R32
13
Q10
32
FT27
FT26
CR11
27
FT29
T7
35
R37
12
FT30
CR10
29
FT24
T5
33
R29
20
R28
17
C12
26
R34
14
T3
33
FT25
RED


1
D
A
.000
.015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005
MAX
.015 MAX
.000
.030 TYP
10
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS
OF ENCAPSULANT TOP
AND 2 SIDES
SEE NOTE 20
D
A

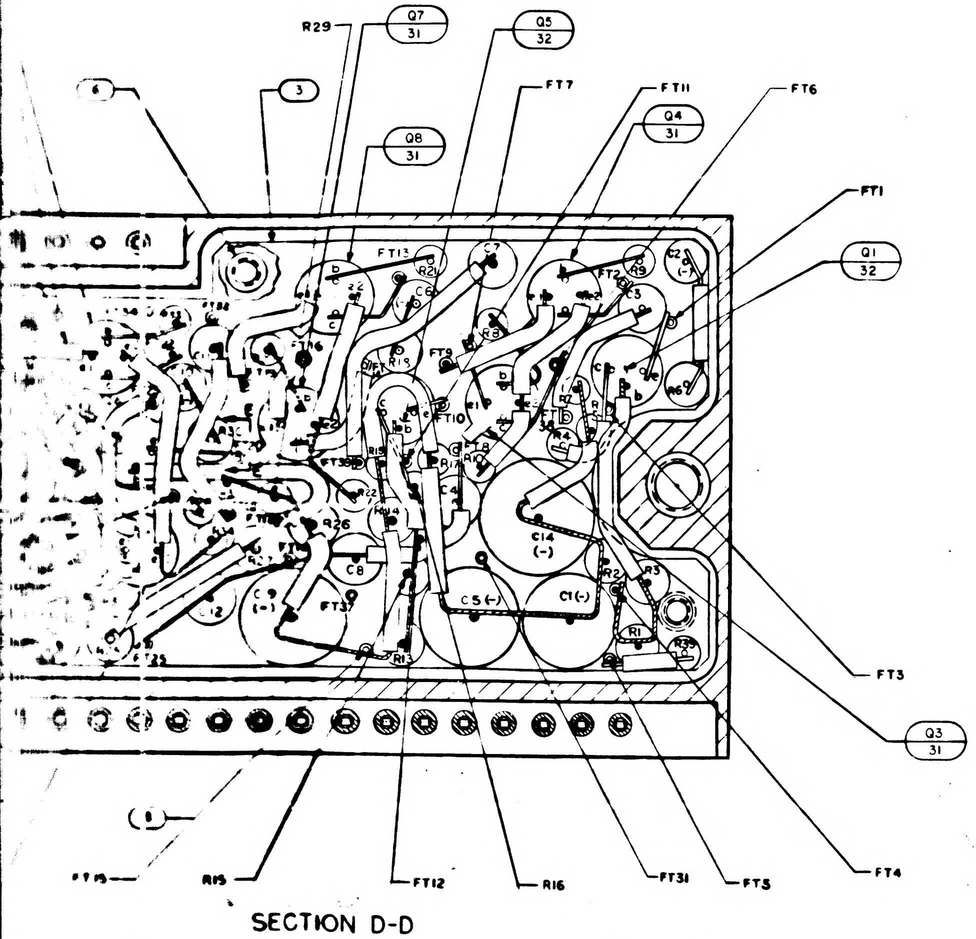

Q12
31
R29
Q7
31
Q5
32
11
FT35
FT33
6
3
FT7
FT11
FT6
Q8
31
Q4
31
9
FT1
Q9
32
Q1
32
FT27
FT34
FT32
FT13
C15(+)
FT36
R38
R30
FT26
CR11
C14
(-)
C5(-)
C1(-)
C9
(-)
C12
C8
R37
CR10
R25
FT25
FT30
FT24
FT29
FT37
Q13
30
FT3
Q3
31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11
31

SECTION D-D

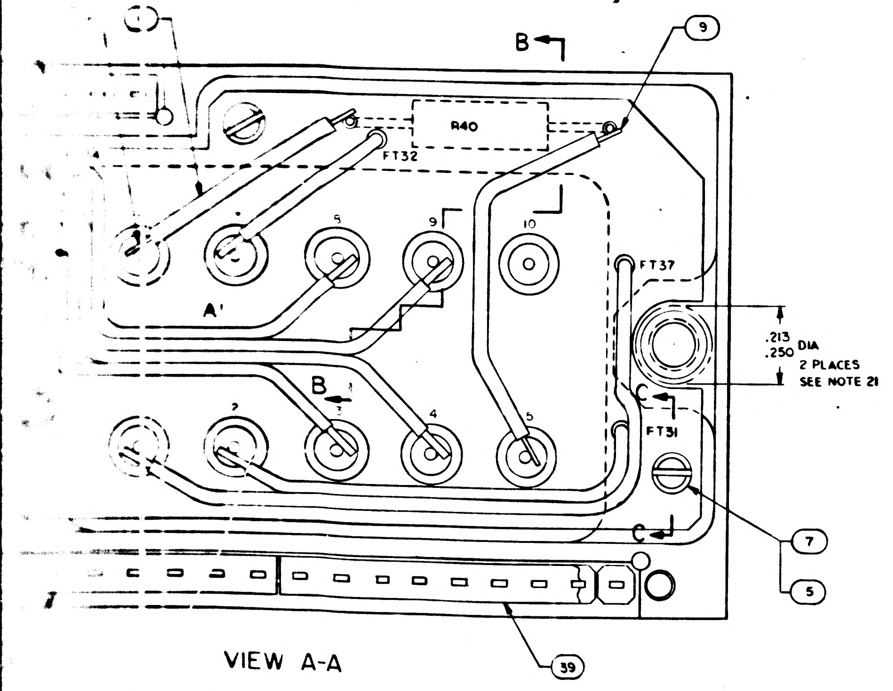

37
9
11
B
9
4
R40
FT32
FT34
FT35
FT36
6
FT33
6
7
8
9
10
A1
FT37
.213
.250 DIA
2 PLACES
SEE NOTE 21
C
FT31
B
1
2
3
4
5
C
7
5
38
39

VIEW A-A

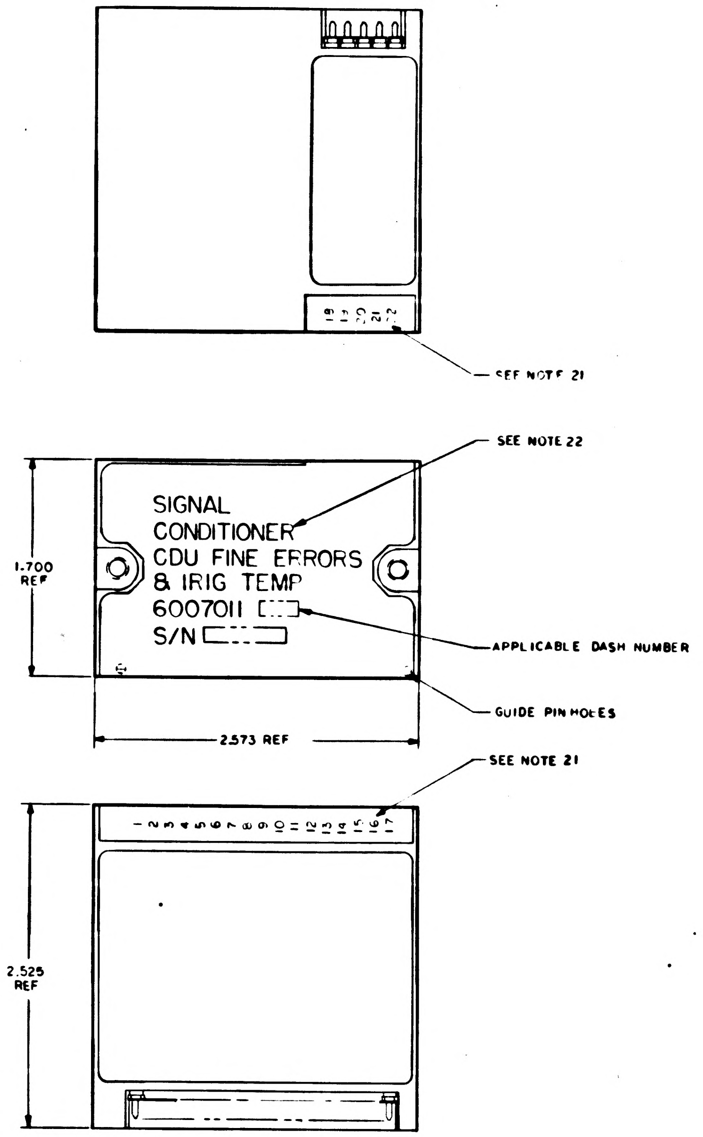
REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	
B		REVISED PER TDRR 29917			14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N S	29 JUL 66	
D		REVISED PER TDRR 30280	A N		[illegible]	
E		REVISED PER TDRR 30325	E.H.	NS	13 SEP 66	


R29
Q7 31
Q5 32
6
3
FT7
FT11
FT6
Q8 31
Q4 31
FT1
Q1 32
FT13
FT2
FT9
FT10
FT36
FT37
R26
C8
C14 (-)
C5 (-)
C1 (-)
R1
R13
R25
FT3
Q3 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D


9
B
R40
FT32
FT37
A'
B
C
FT31
C
.213
.250 DIA
2 PLACES
SEE NOTE 21
7
5
39

VIEW A-A


SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
1.700 REF
2.573 REF
SEE NOTE 21
2.525 REF
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
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1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1009161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1
-011	LIST OF MATERIALS		

	-
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ___ ± ___ ± ___
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

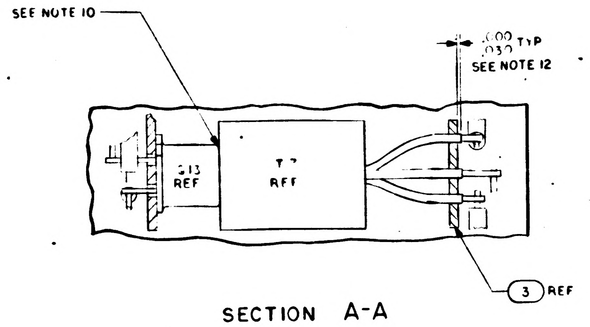
CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6007011
SCALE 5/1		SHEET 1 OF 1

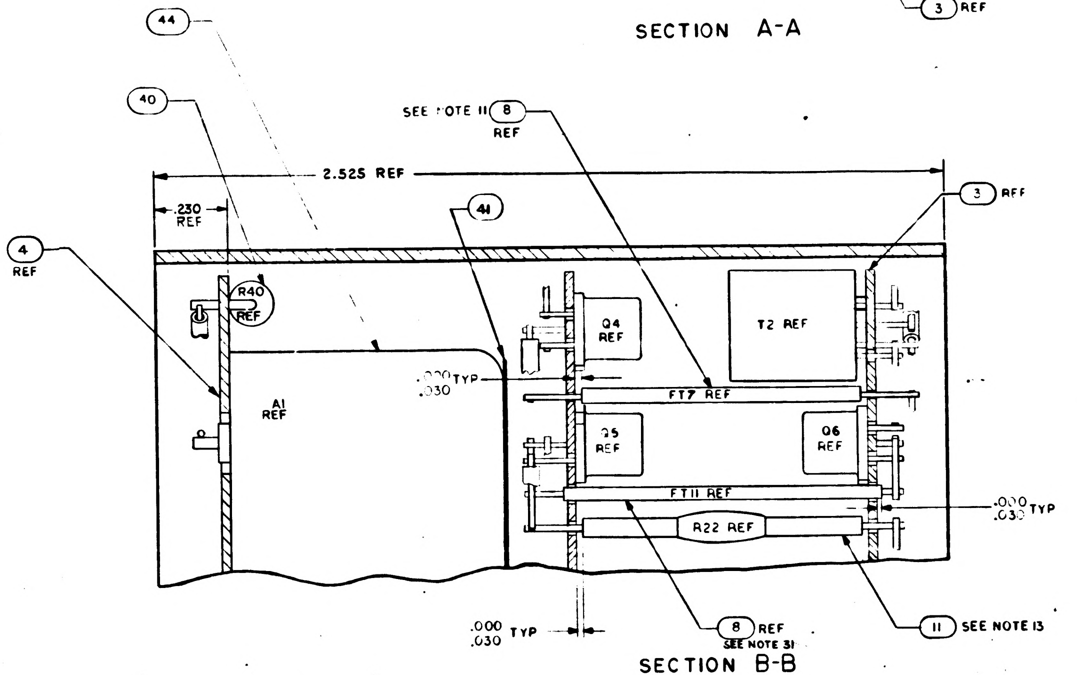
3H

6007011 E

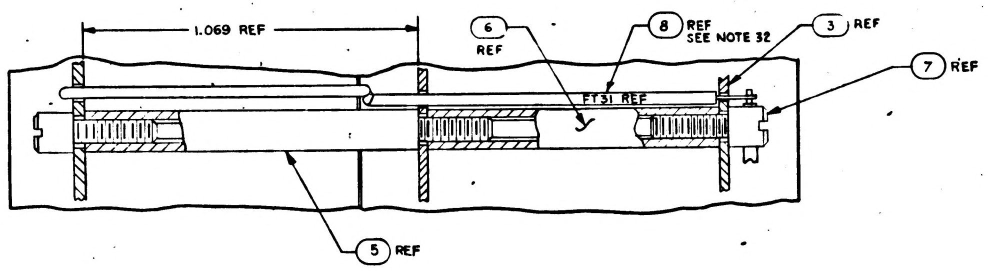
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000 TYP
.030
SEE NOTE 12
Q13 REF
T7 REF
3 REF

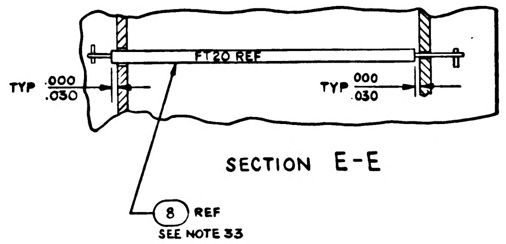
SECTION A-A


44
40
SEE NOTE 11
8 REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
A1 REF
Q4 REF
T2 REF
.000 TYP
.030
FT7 REF
Q5 REF
Q6 REF
FT11 REF
.000 .030 TYP
R22 REF
.000 TYP .030
8 REF
SEE NOTE 31
11 SEE NOTE 13

SECTION B-B

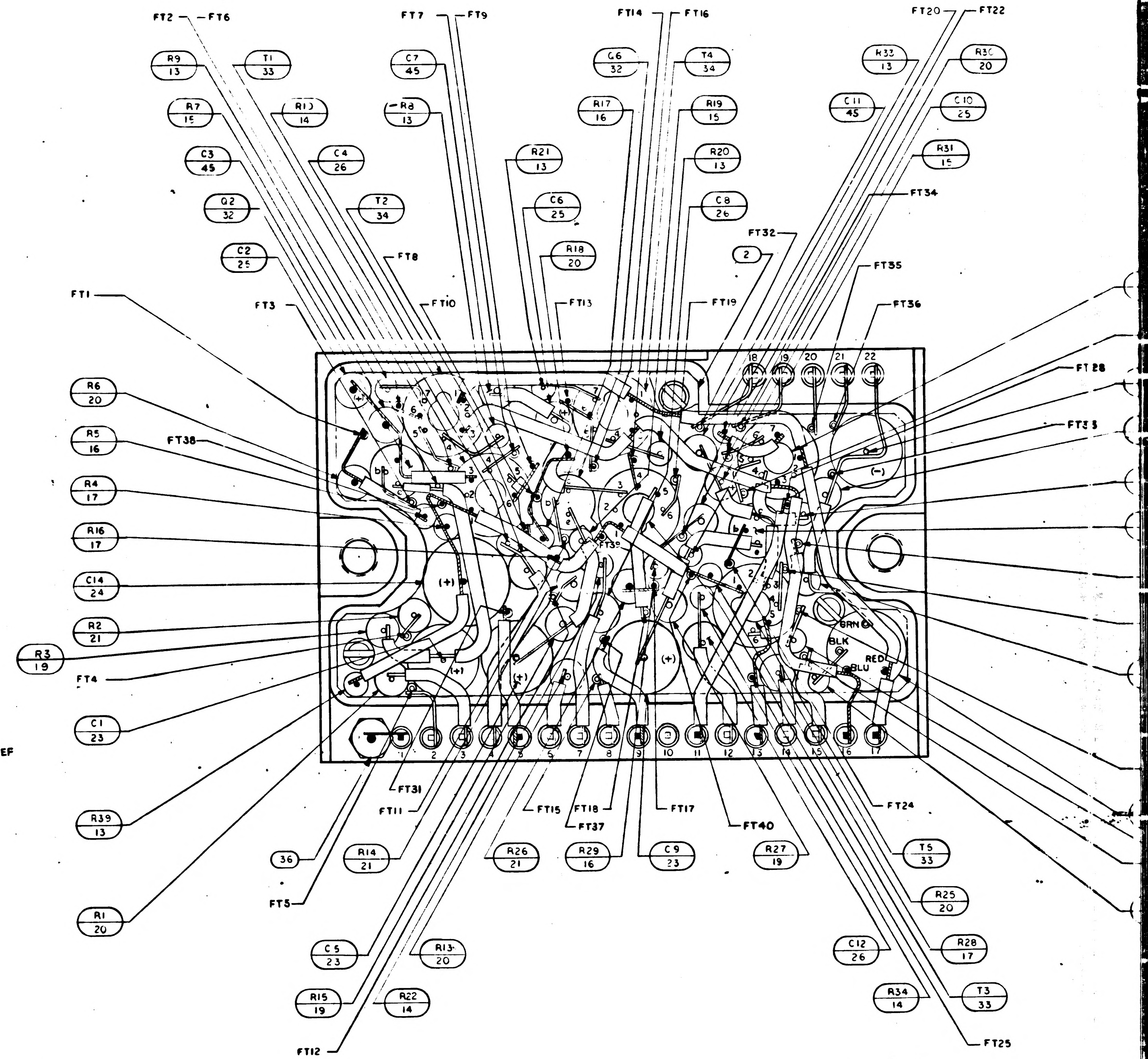

1.069 REF
6 REF
8 REF SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000 .030
TYP .000 .030
8 REF
SEE NOTE 33

SECTION E-E

R40	
PART NUMBER	VALUE
1008878-001	5.300 K
-002	5.342 K
-003	5.385 K
-004	5.428 K
-005	5.471 K
-006	5.515 K
-007	5.559 K
-008	5.603 K
-009	5.648 K
-010	5.693 K
-011	5.739 K
-012	5.785 K
-013	5.831 K
-014	5.878 K
-015	5.925 K
-016	5.972 K
-017	6.020 K
-018	6.068 K
-019	6.117 K
1008878-020	6.166 K

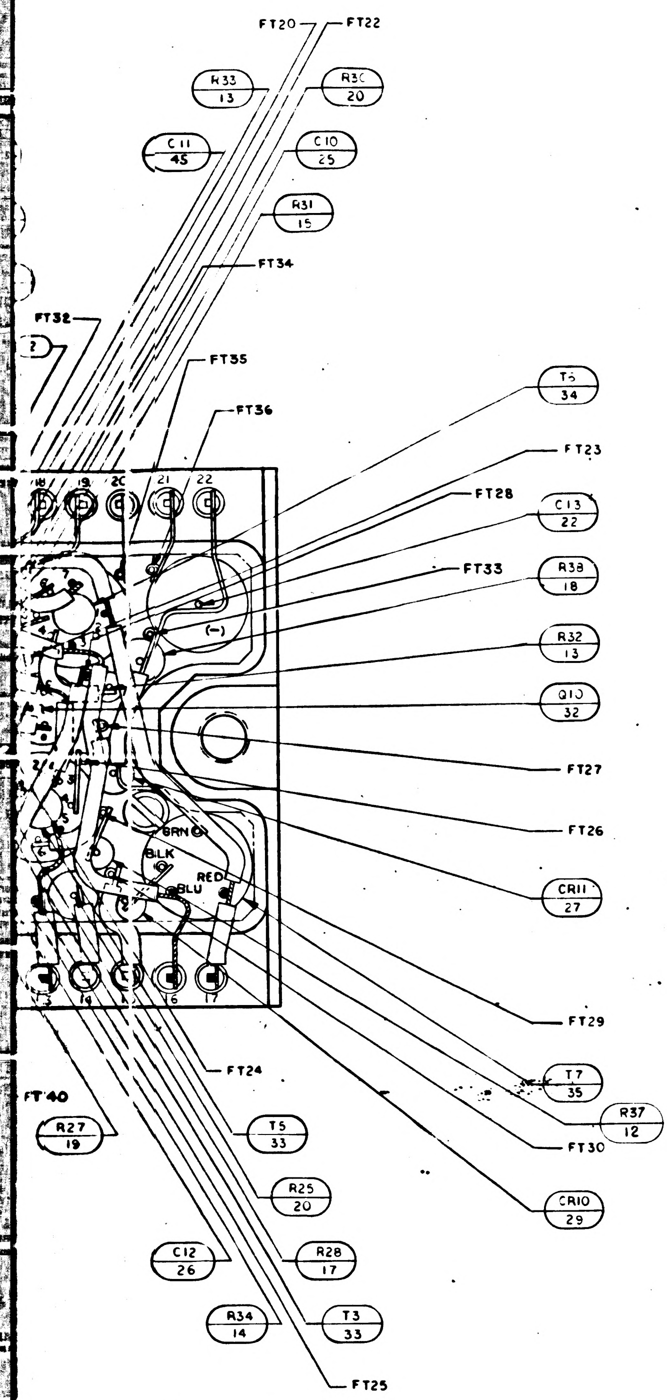

FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
C6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
C2 25
FT8
R18 20
FT32
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
FT28
FT33
R6 20
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
(+)
(-)
BRN
BLK
BLU
RED
18 19 20 21 22
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
R39 13
36
FT5
R1 20
FT31
FT11
R14 21
FT15
FT18
FT37
R26 21
R29 16
FT17
C9 23
FT40
R27 19
FT24
T5 33
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30(Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I.
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008094 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011
27. FIND NOS. 44 AND 40 ARE MATCHED COMPONENTS. FIND NO. 40 SHALL BE SELECTED FROM CHART (R40) PER VALUE SPECIFIED ON FIND NO.44.
28. BOND FIND NO 41 TO FIND NO 44 PER ND1002004 TYPE I (CENTRALIZE).
29. BOND FIND NO 40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO 44 TO FIND NO 1 PER ND1002004 TYPE I, FIND NO 44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRUS FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.

6007011 REV LET F

1/6007011


FT20
FT22
R33 13
R30 20
C11 45
C10 25
R31 15
FT34
FT32
2
FT35
FT36
T6 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
BRN
BLK
RED
BLU
(-)
18 19 20 21 22
16 17
FT29
T7 35
R37 12
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T5 33
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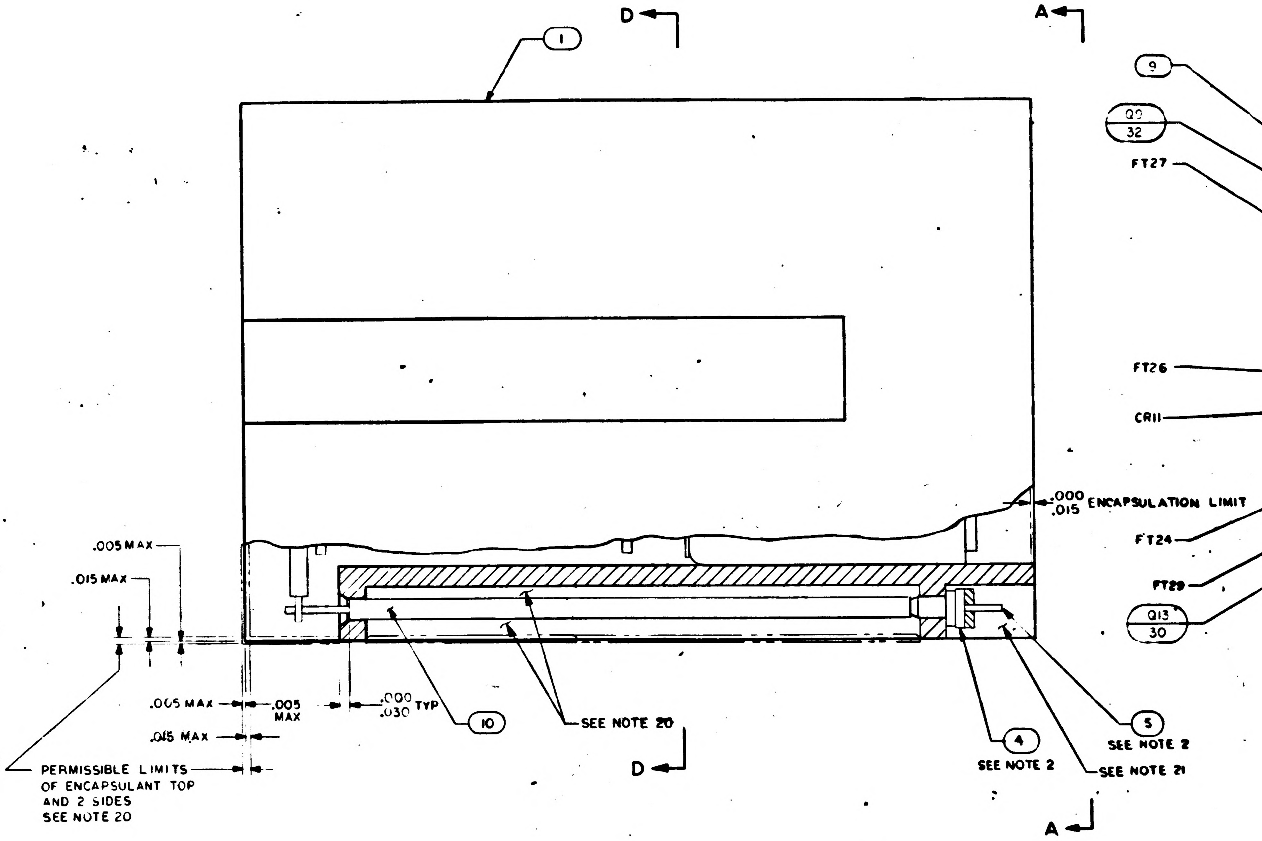
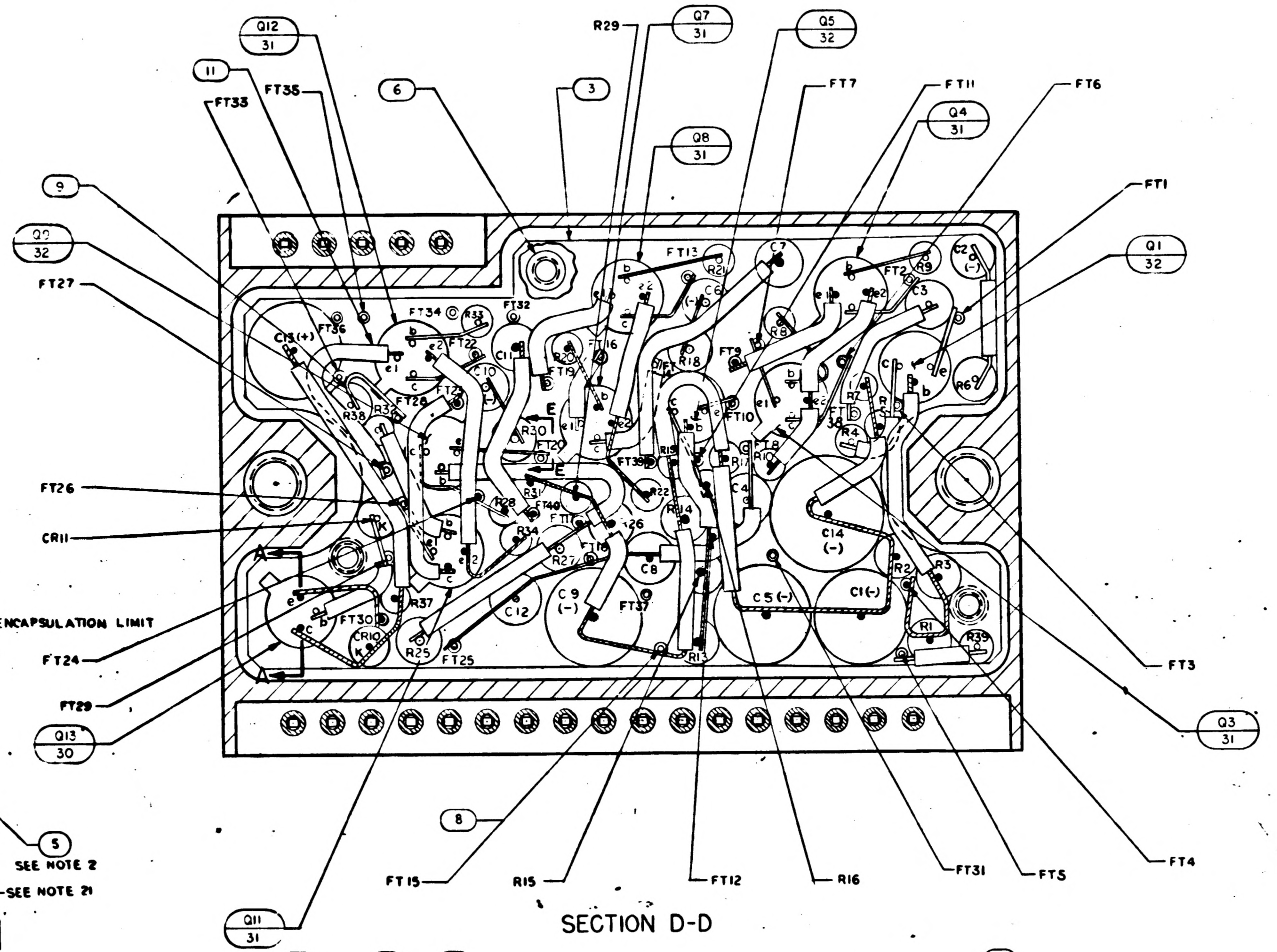
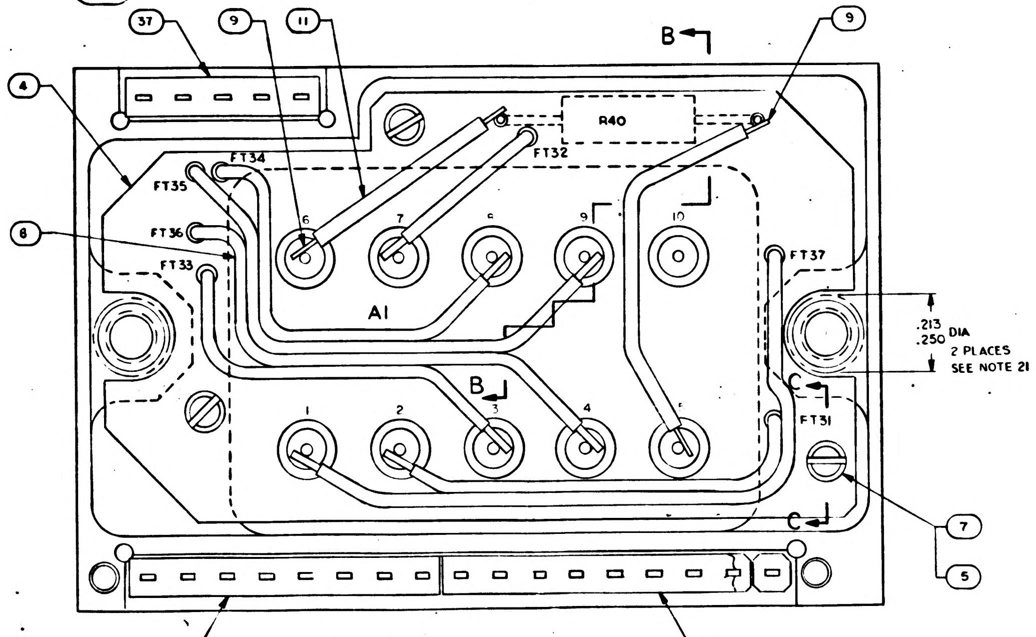
R28 17
R34 14
T3 33
FT25


D
A
1
.000
.015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000
.030 TYP
10
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20
D
A


Q12 31
11
FT35
FT33
R29
Q7 31
Q5 32
6
3
FT7
FT11
FT6
Q8 31
Q4 31
FT1
9
Q2 32
FT27
Q1 32
FT26
CR11
FT24
FT29
Q13 30
A
E
C14 (-)
C9 (-)
C5 (-)
C1 (-)
C12
C8
FT3
Q3 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11 31

SECTION D-D


37
9
11
B
9
4
R40
FT34
FT35
FT32
FT36
8
FT33
6 7 8 9 10
A1
FT37
.213
.250 DIA
2 PLACES
SEE NOTE 21
C
FT31
1 2 3 4 5
7
5
38
39

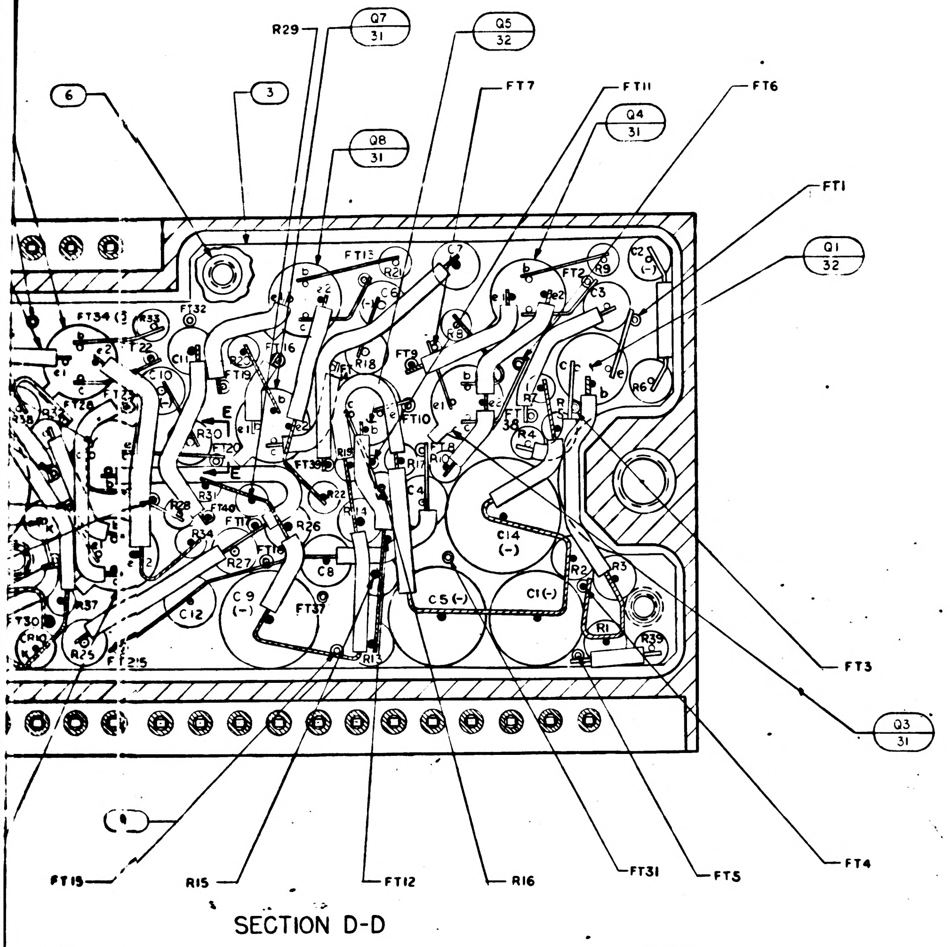
VIEW A-A

6007011	REV LTR F	SHT 1 OF 1

2/6007011

REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	
B		REVISED PER TDRR 29917	J.E.G.		14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S	29 JUL 66	
D		REVISED PER TDRR 30280	A.N.		29 AUG 66	
E		REVISED PER TDRR 30325	E.H.	NS	13 SEP 66	
F		REVISED PER TDRR 31390	TD	RLW	5 OCT 66	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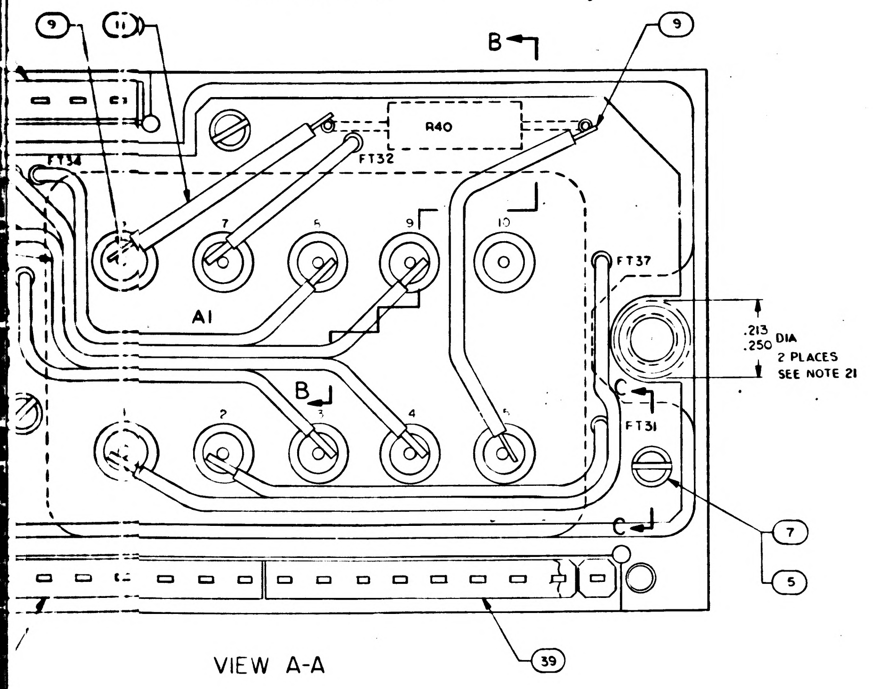
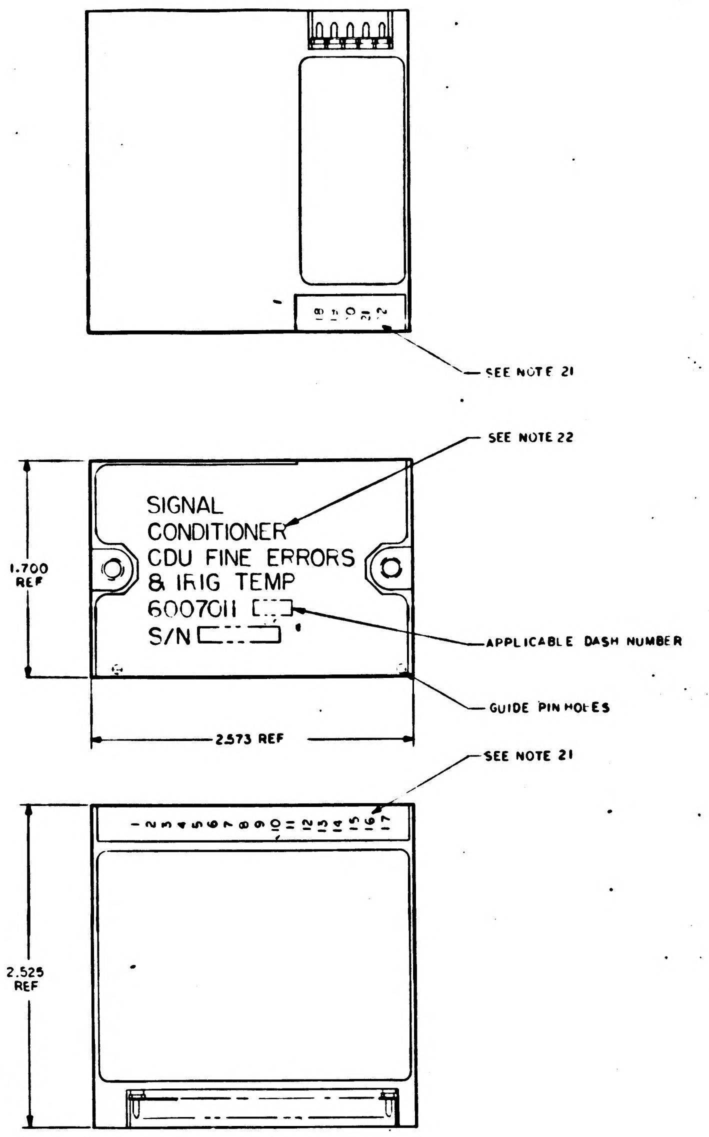
Q7 31
Q5 32
6
3
FT7
FT11
FT6
Q4 31
Q8 31
FT1
Q1 32
FT3
Q3 31
FT4
FT5
FT31
R16
FT12
R15
FT19
C5(-)
C1(-)
C14 (-)
C9 (-)
C8
C12
R1
R2
R3
R25
R26
R27
R28
FT37
E

SECTION D-D


9
11
9
B
R40
FT32
FT34
FT37
A1
B
C
FT31
.213 .250 DIA
2 PLACES
SEE NOTE 21
7
5
39

VIEW A-A


SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
1.700 REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
2.573 REF
SEE NOTE 21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-9	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010849 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015175 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

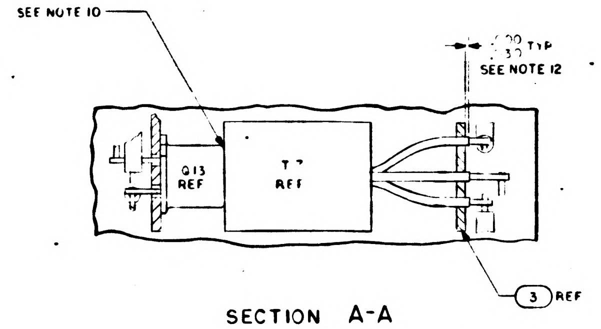
CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007011

SCALE 5/1 SHEET 1 OF 1

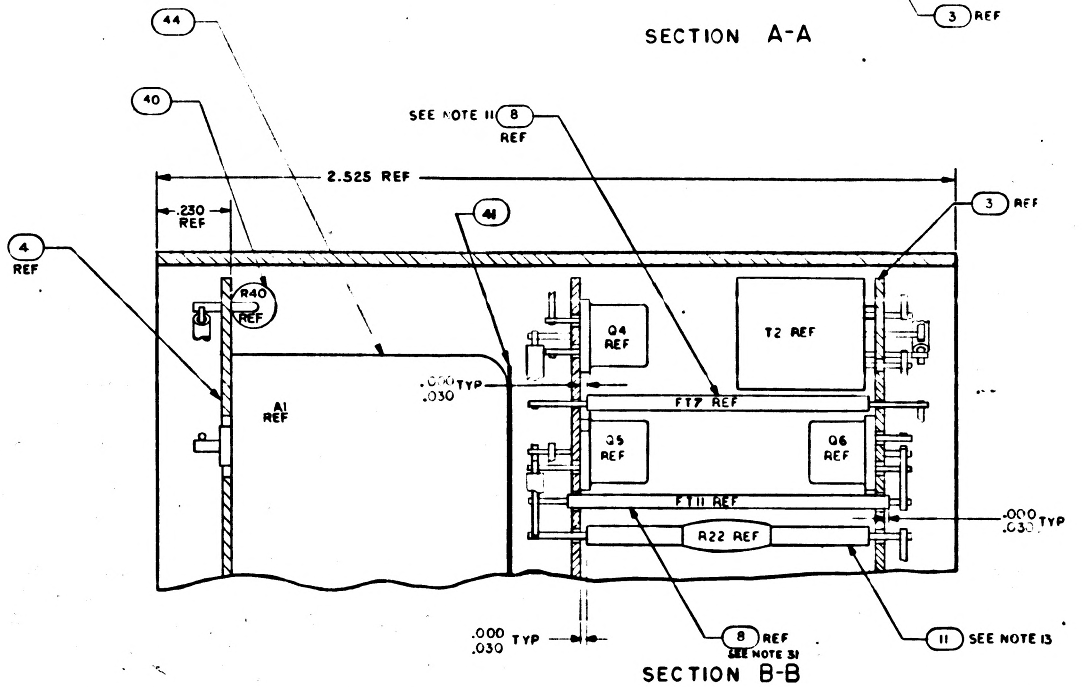
6007011 REV LTR F SHT 1 OF 1

3/6007011

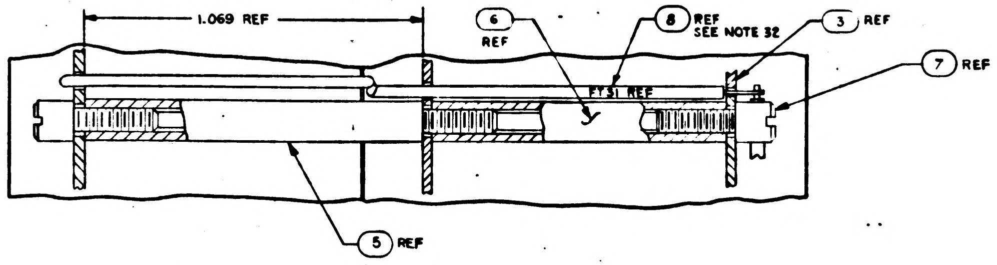
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13 REF
T7 REF
3 REF

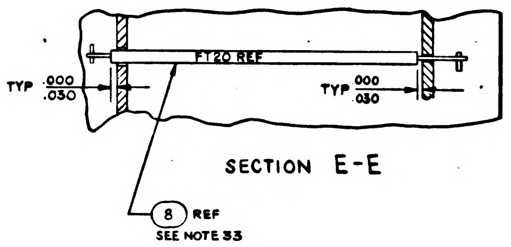
SECTION A-A


44
40
SEE NOTE 11
8 REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
A1 REF
.000
.030 TYP
Q4 REF
T2 REF
FT7 REF
Q5 REF
Q6 REF
FT11 REF
R22 REF
.000
.030 TYP
.000
.030 TYP
8 REF
SEE NOTE 31
11 SEE NOTE 13

SECTION B-B


1.069 REF
6 REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000
.030
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E

R40	
PART NUMBER	VALUE
1008878-001	5.300 K
-002	5.342 K
-003	5.385 K
-004	5.428 K
-005	5.471 K
-006	5.515 K
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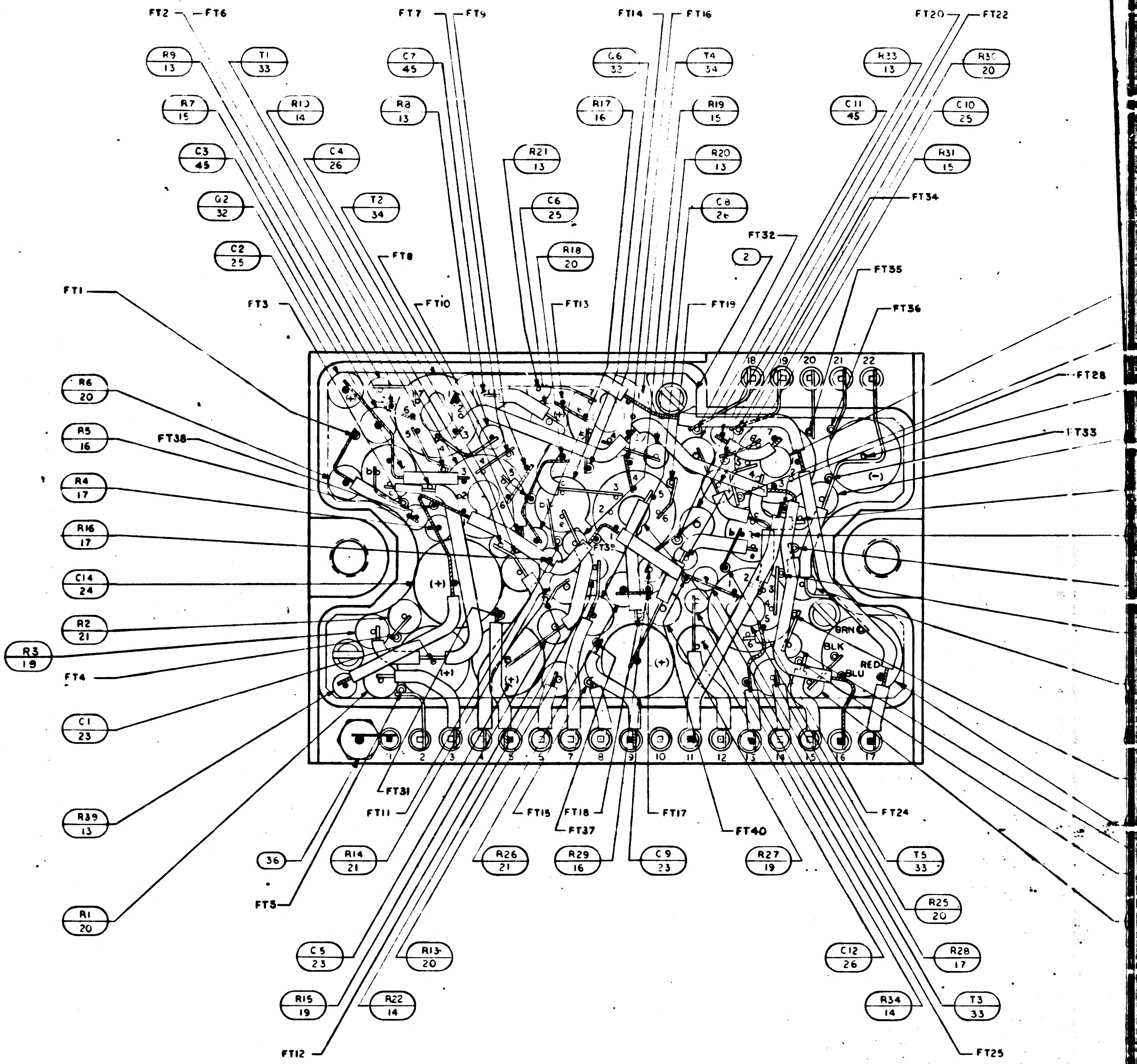
-008	5.603 K
-009	5.648 K
-010	5.693 K
-011	5.739 K
-012	5.785 K
-013	5.831 K
-014	5.878 K
-015	5.925 K
-016	5.972 K
-017	6.020 K
-018	6.068 K
-019	6.117 K
1008878-020	6.166 K

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136.
3. AR DENOTES AS REQUIRED.
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE.
6. + DENOTES POSITIVE SIDE OF CAPACITOR.
7. WELD PER ND 1002005.
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I.
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29.
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING.
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069.
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I.
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN.
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1009809-4 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NOS. 44 AND 40 ARE MATCHED COMPONENTS. FIND NO. 40 SHALL BE SELECTED FROM CHART (R40) PER VALUE SPECIFIED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO.44 PER ND1002004 TYPE I. (CENTRALIZE).
29. BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37.
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
C6 32
T4 34
R33 13
R32 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
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FT34
FT32
C2 25
FT8
R18 20
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
FT28
R6 20
FT33
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
FT39
BRN
BLK
RED
BLU
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21
22
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2
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6
7
8
9
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11
12
13
14
15
16
17
R39 13
FT31
FT11
FT15
FT18
FT37
FT17
FT40
FT24
36
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
FT5
R25 20
R1 20
C5 23
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C12 26
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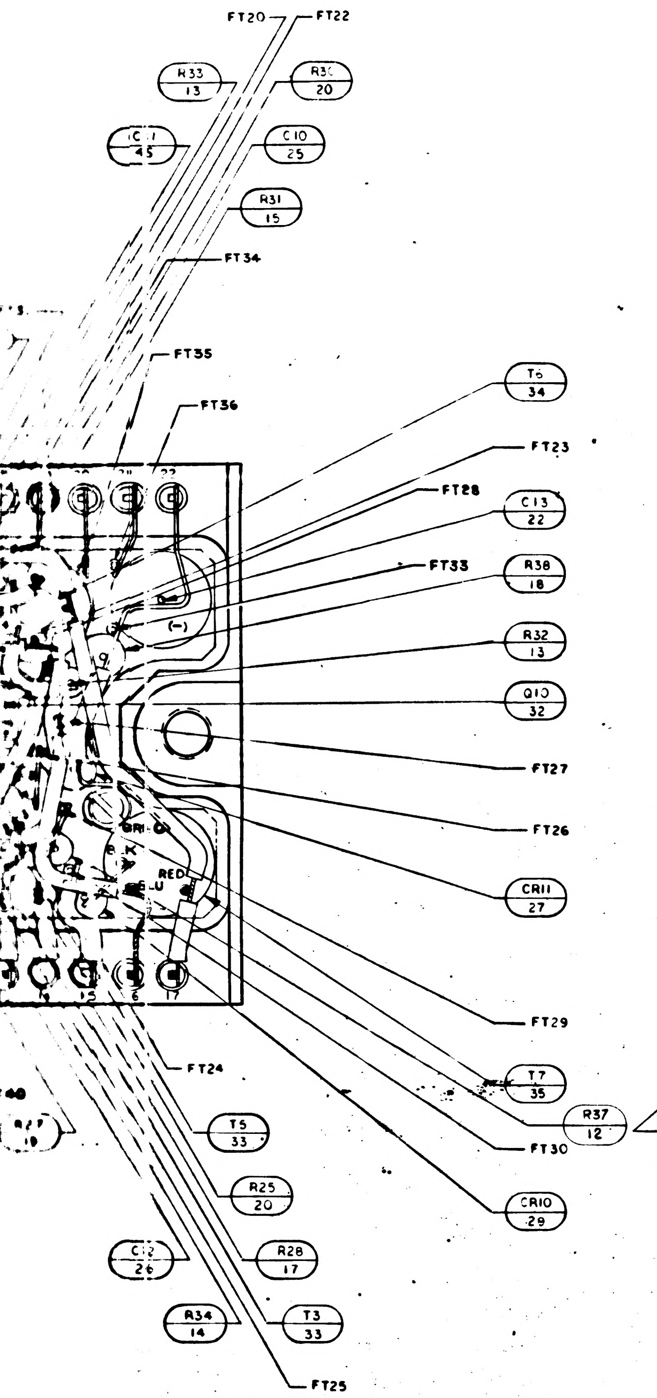
R22 14
R34 14
T3 33
FT12
FT25

6007011	REV LTR G

1/6007011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R33 13
R30 20
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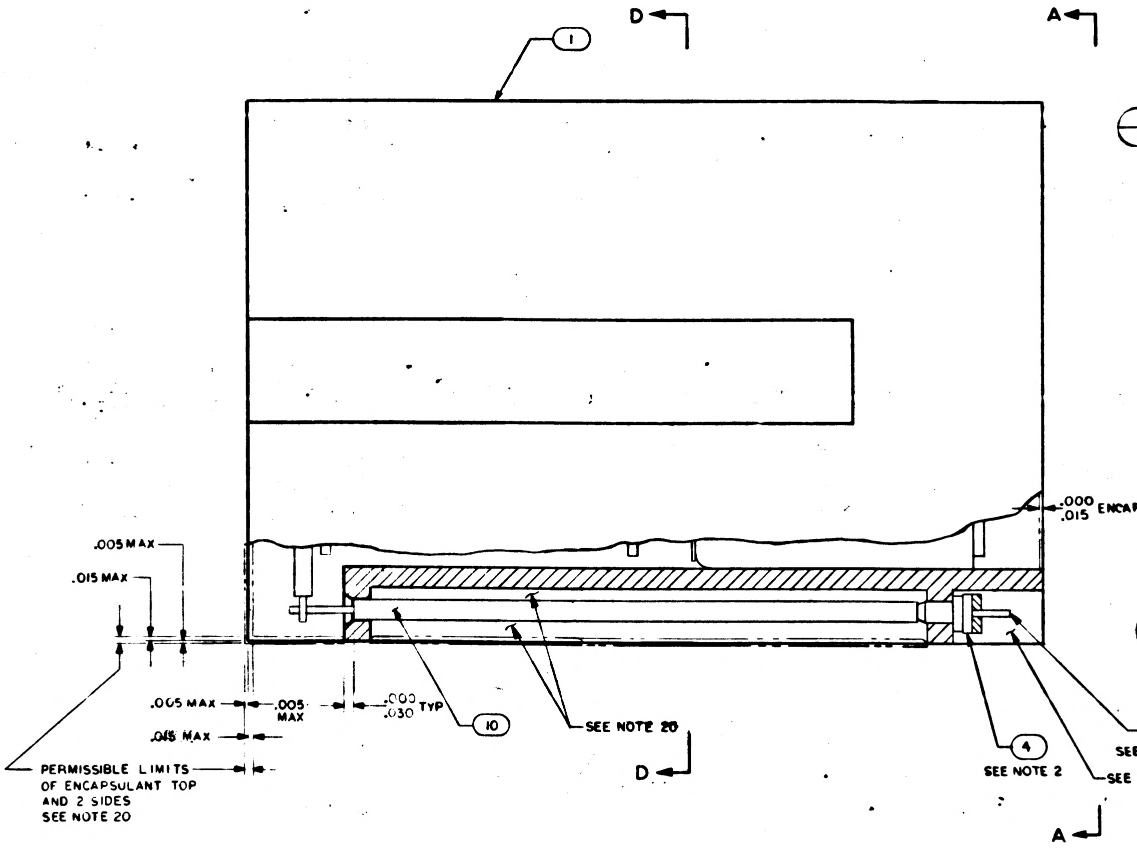
R31 15
FT34
FT35
FT36
T6 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
(−)
RED
BLU
15
6
17
FT29
T7 35
R37 12
FT30
CR10 29
FT24
T5 33
R25 20
C12 26
R28 17
R34 14
T3 33
FT25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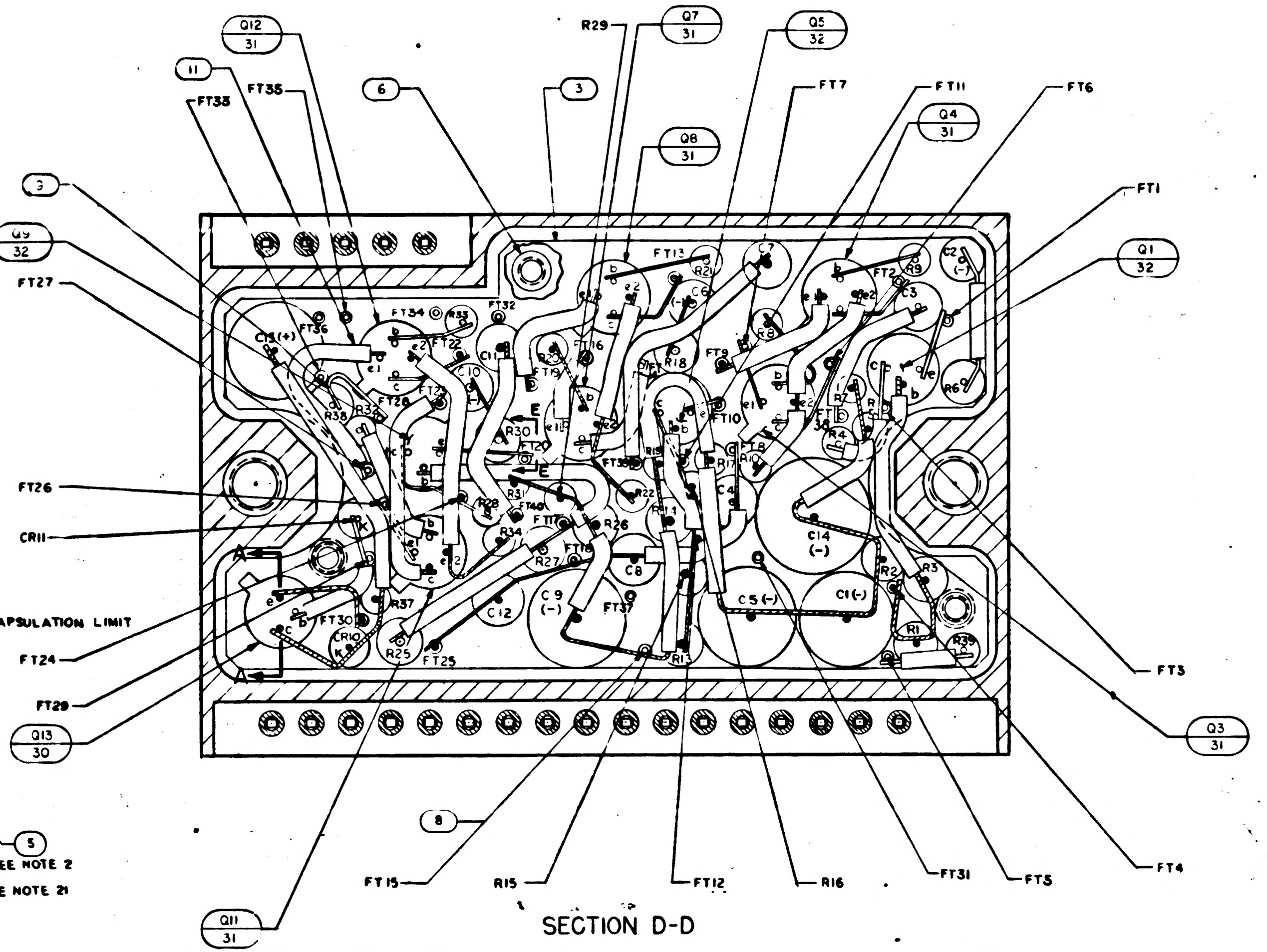
D
A
.000
.015
ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000
.030
TYP
10
SEE NOTE 20
PERMISSIBLE LIMITS
OF ENCAPSULANT TOP
AND 2 SIDES
SEE NOTE 20
D
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
A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FT38
FT35
6
3
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Q7 31
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FT7
FT11
Q4 31
FT6
FT1
Q1 32
3
Q9 32
FT27
FT26
CR11
FT24
FT29
Q13 30
FT13
R21
C7
C6
C2
FT2
R9
C3
C15(+)
FT36
FT34
R33
FT32
FT22
C11
C10
R23
FT16
FT19
R18
FT9
R8
R38
R32
FT28
FT21
R30
E
FT20
FT39
R22
R19
R17
FT10
FT8
R10
R7
R4
R5
R6
R31
FT40
R28
R34
FT17
R26
R27
FT18
C8
R14
C4
C14 (−)
R2
R3
R37
FT30
CR10
R25
FT25
C12
C9 (−)
FT37
R13
C5 (−)
C1 (−)
R1
R39
A
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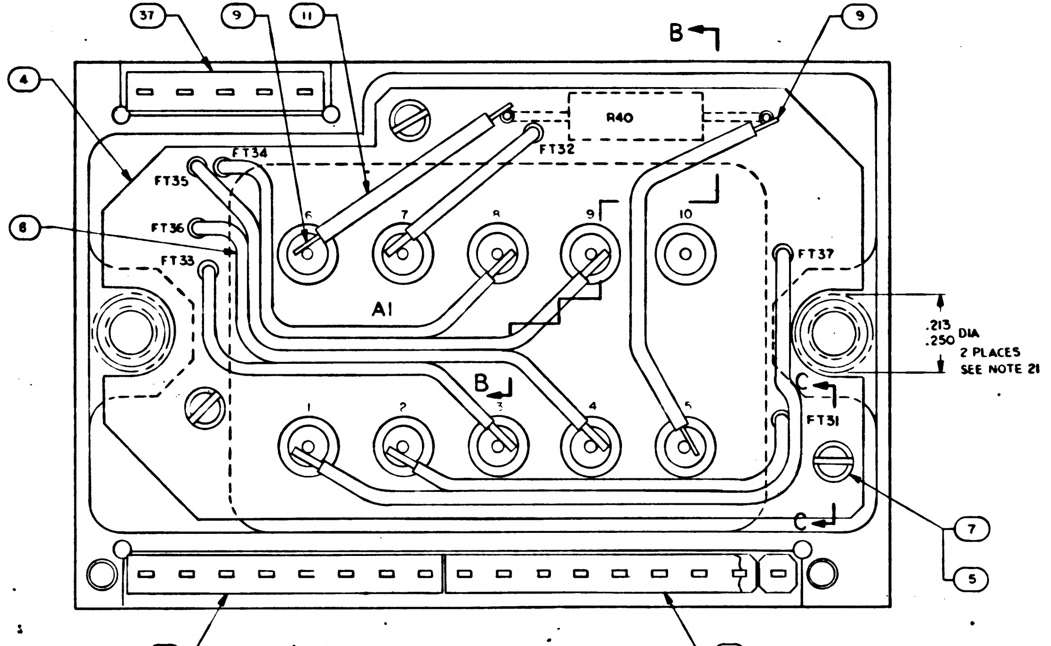
FT15
R15
FT12
R16
FT31
FT5
FT4
FT3
Q3 31
Q11 31

SECTION D-D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FT34
FT32
FT35
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9
10
FT36
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FT33
A1
FT37
.213
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DIA
2 PLACES
SEE NOTE 21
B
C
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2
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4
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FT31
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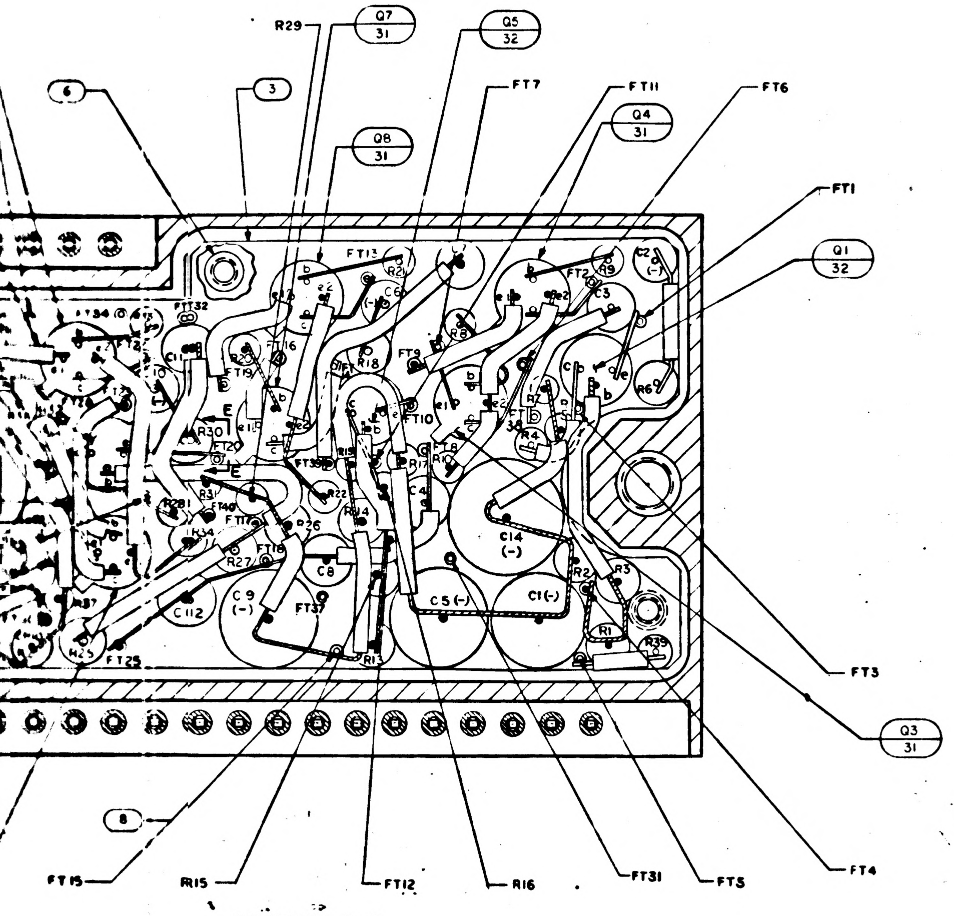
C
38
39

VIEW A-A

6007011 REV LTR G SHT 1 OF 1

2/6007011

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	
B		REVISED PER TDRR 29917			14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S	29 JUL 66	
D		REVISED PER TDRR 30280	A.N.		29 AUG 66	
E		REVISED PER TDRR 30325	E.H.	NS	13 SEP 66	
F		REVISED PER TDRR 31390	TD		5 OCT 66	
G		REVISED PER TDRR 31486	EC		21 OCT 66	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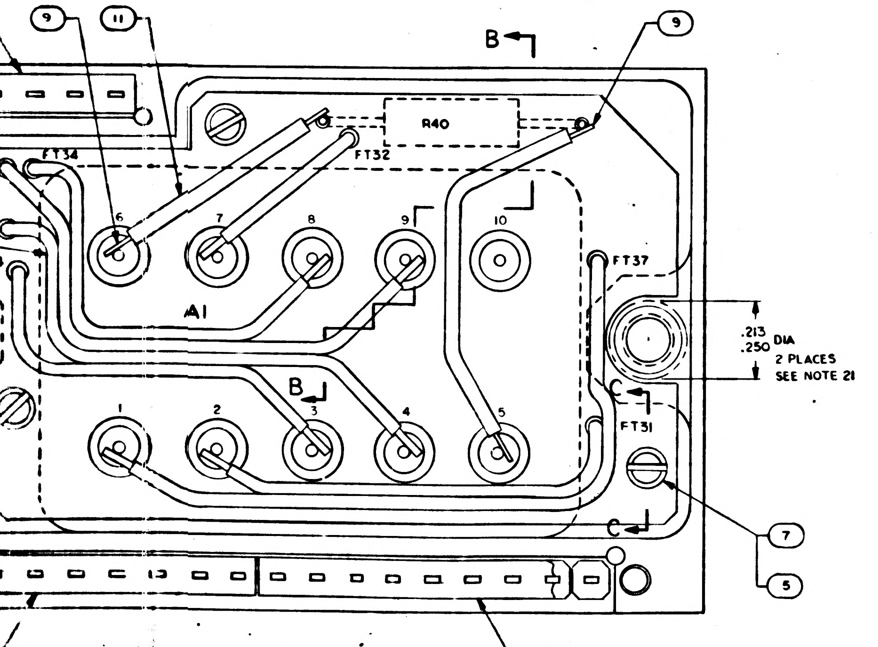
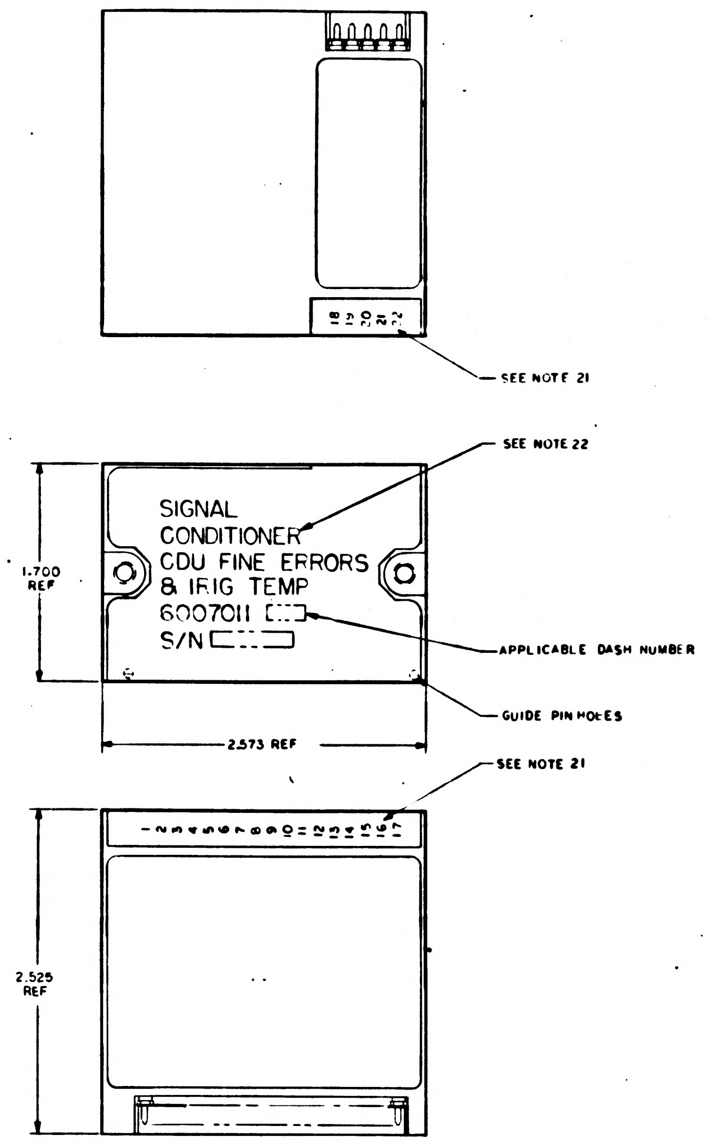
Q5 / 32
6
3
FT7
FT11
FT6
Q4 / 31
Q8 / 31
FT1
Q1 / 32
C14 (-)
C9 (-)
C5 (-)
C1 (-)
C12
FT3
Q3 / 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D


9
11
9
B
R40
FT34
FT32
FT37
A1
B
C
FT31
C
.213
.250 DIA
2 PLACES
SEE NOTE 21
7
5
39

VIEW A-A


SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
1.700 REF
2.573 REF
SEE NOTE 21
2.525 REF

MARKING VIEW
SCALE 2/1

3H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-16	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010357 — 1	TRANSISTOR	32
6	1010357	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER ASSEMBLY

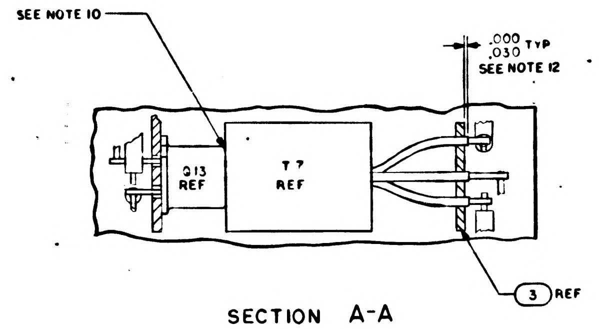
CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 6007011
SCALE 5/1 | SHEET 1 OF 1

6007011 G

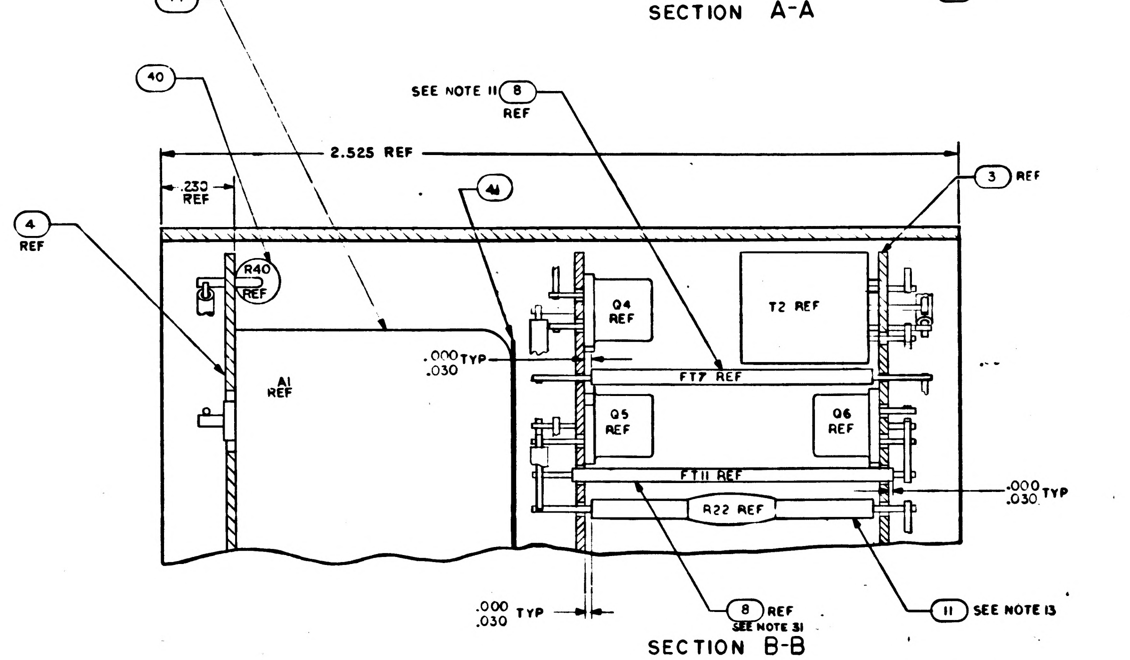
	REV LTR	SHT
6007011	G	1 OF 1

37 6007011

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

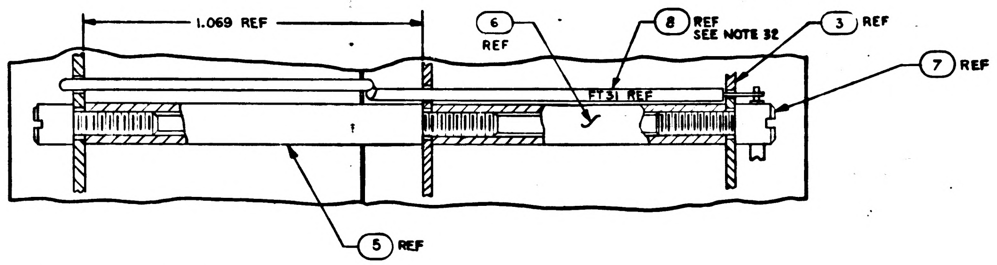

SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13 REF
T7 REF
3 REF

SECTION A-A

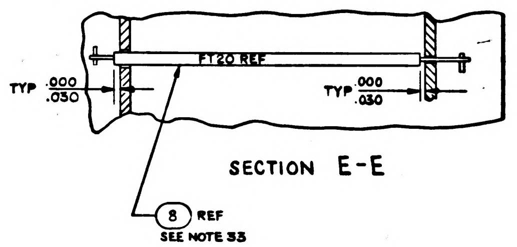

44
40
SEE NOTE 11
8 REF
2.525 REF
.230 REF
41
3 REF
4 REF
R40 REF
Q4 REF
T2 REF
A1 REF
.000
.030 TYP
FT7 REF
Q5 REF
Q6 REF
FT11 REF
R22 REF
.000
.030 TYP
.000
.030 TYP
8 REF
SEE NOTE 31
11 SEE NOTE 13

SECTION B-B

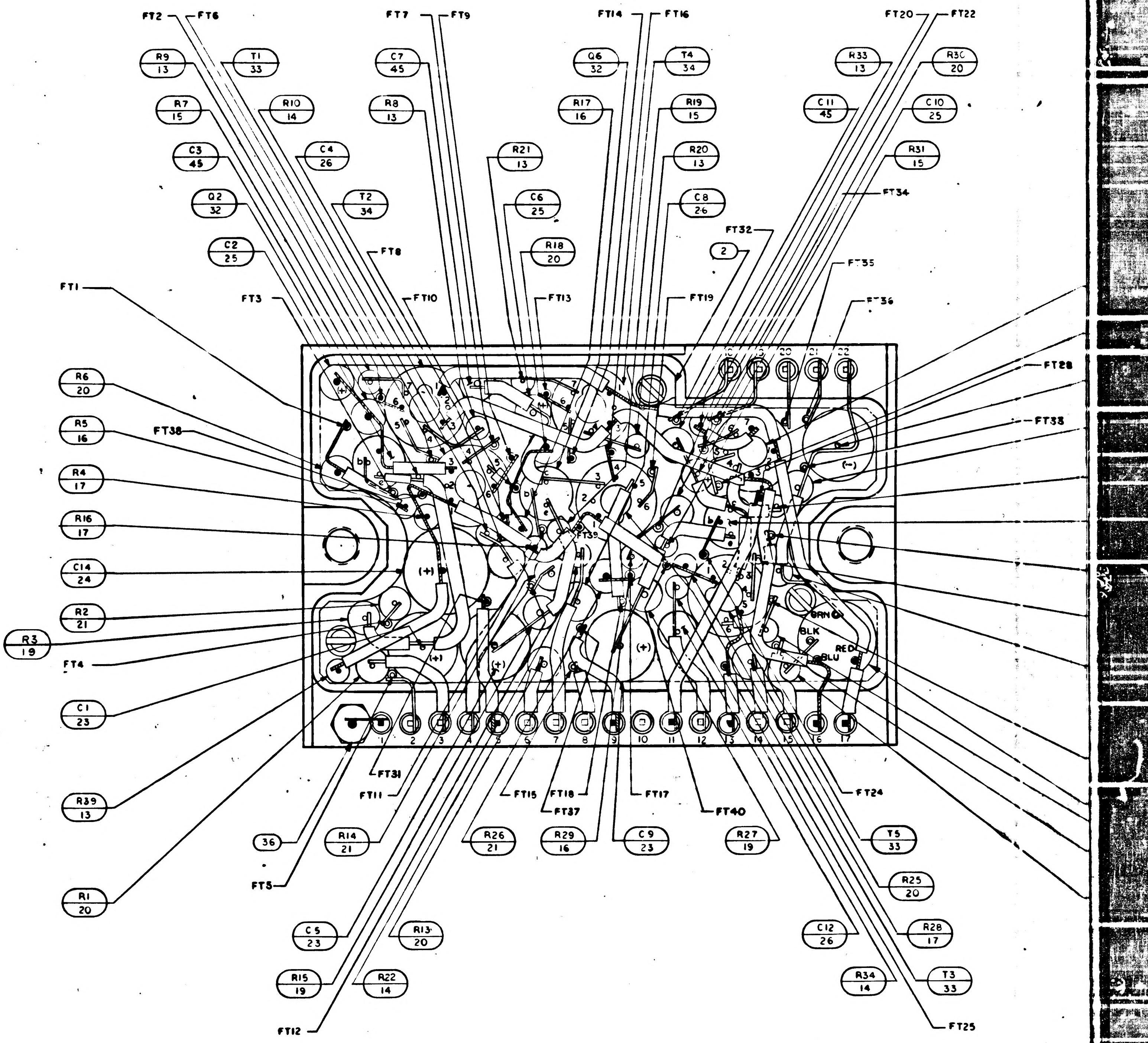
R40	
PART NUMBER	VALUE
1008878-001	5.300 K
-002	5.342 K
-003	5.385 K
-004	5.428 K
-005	5.471 K
-006	5.515 K
-007	5.559 K
-008	5.603 K
-009	5.648 K
-010	5.693 K
-011	5.739 K
-012	5.785 K
-013	5.831 K
-014	5.878 K
-015	5.925 K
-016	5.972 K
-017	6.020 K
-018	6.068 K
-019	6.117 K
1008878-020	6.166 K


1.069 REF
6 REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION ~~C~~-C


TYP .000
.030
FT20 REF
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 45
Q6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
R17 16
R19 15
C11 45
C10 25
C3 45
C4 26
R21 13
R20 13
R31 15
Q2 32
T2 34
C6 25
C8 26
FT34
C2 25
FT8
R18 20
FT32
2
FT35
FT1
FT3
FT10
FT13
FT19
FT36
FT28
R6 20
FT33
R5 16
FT38
R4 17
R16 17
C14 24
R2 21
R3 19
FT4
C1 23
R39 13
36
FT5
R1 20
FT31
FT11
FT15
FT18
FT37
FT17
FT40
FT24
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25
BRN
BLK
RED
BLU
(+)
(−)
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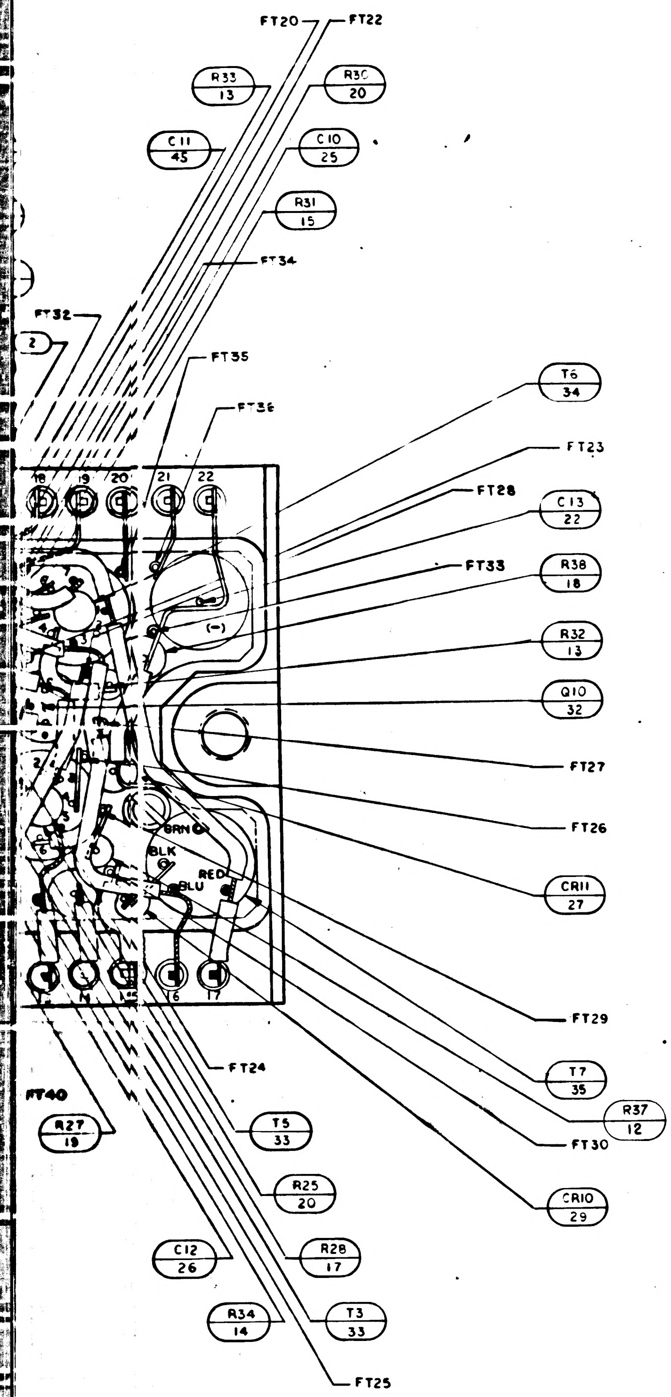
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH.
5. K DENOTES CATHODE SIDE OF DIODE.
6. + DENOTES POSITIVE SIDE OF CAPACITOR.
7. WELD PER ND 1002005.
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I.
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I.
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I.
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT 27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29.
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING.
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069.
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I.
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN.
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN.
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NOS. 44 AND 40 ARE MATCHED COMPONENTS. FIND NO. 40 SHALL BE SELECTED FROM CHART (R40) PER VALUE SPECIFIED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO.44 PER ND1002004 TYPE I. (CENTRALIZE).
29. BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37.
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.

6007011	REV LET H


FT20
FT22
R33 13
R30 20
C11 45
C10 25
R31 15
FT34
FT32
2
FT35
FT36
18
19
20
21
22
T6 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
(-)
BRN
BLK
RED
BLU
CR11 27
16
17
FT29
T7 35
R37 12
FT30
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FT40
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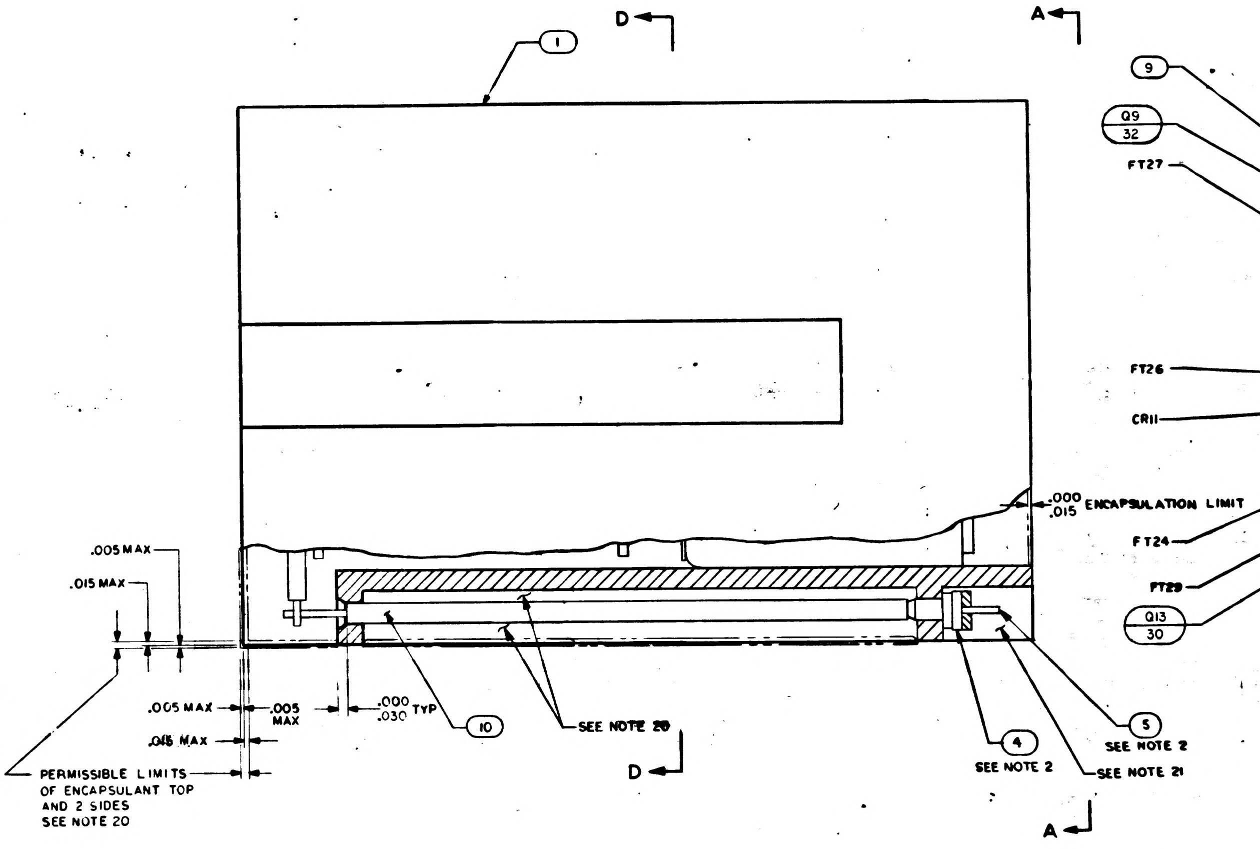
T3 33
FT25


1
D
A
.000
.015
ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
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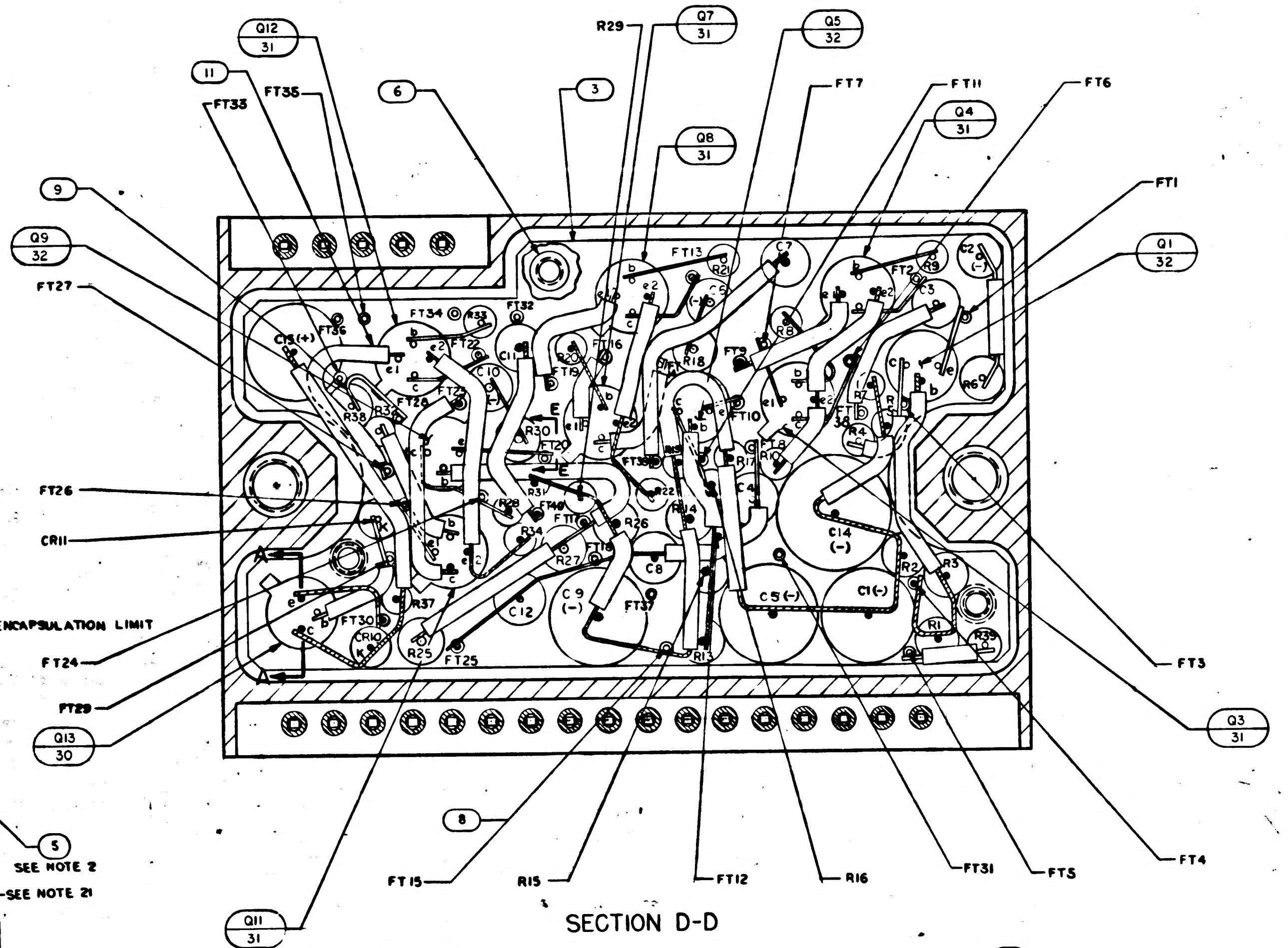
.015 MAX
.000
.030 TYP
10
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
D
A
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20


Q12 31
11
FT33
FT35
R29
Q7 31
Q5 32
6
3
Q8 31
FT7
FT11
Q4 31
FT6
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9
Q9 32
Q1 32
FT27
FT26
CR11
FT24
FT29
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FT34
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FT32
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FT28
FT23
FT13
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FT20
FT9
FT10
FT2
FT8
FT38
FT39
FT40
FT11
FT18
FT37
FT30
FT25
C15(+)
C11
C10 (-)
C7
C6 (-)
C2 (-)
C3
C14 (-)
C9 (-)
C8
C12
C5(-)
C1(-)
C4
R38
R32
R33
R30
R31
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R34
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R19
R17
R13
R8
R9
R7
R5
R4
R10
R6
R2
R3
R1
R39
CR10
E
e1
e2
b
c
K
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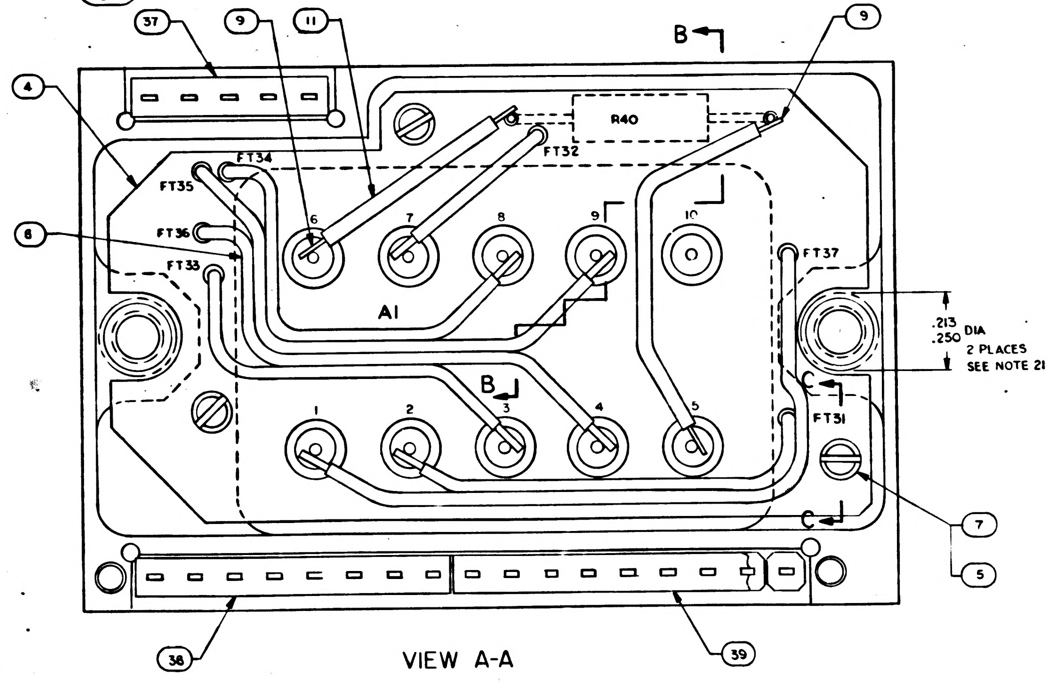
FT3
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11 31

SECTION D-D


37
9
11
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R40
FT32
FT34
FT35
FT36
FT33
8
6
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A1
FT37
.213
.250 DIA
2 PLACES
SEE NOTE 21
B
C
FT31
1
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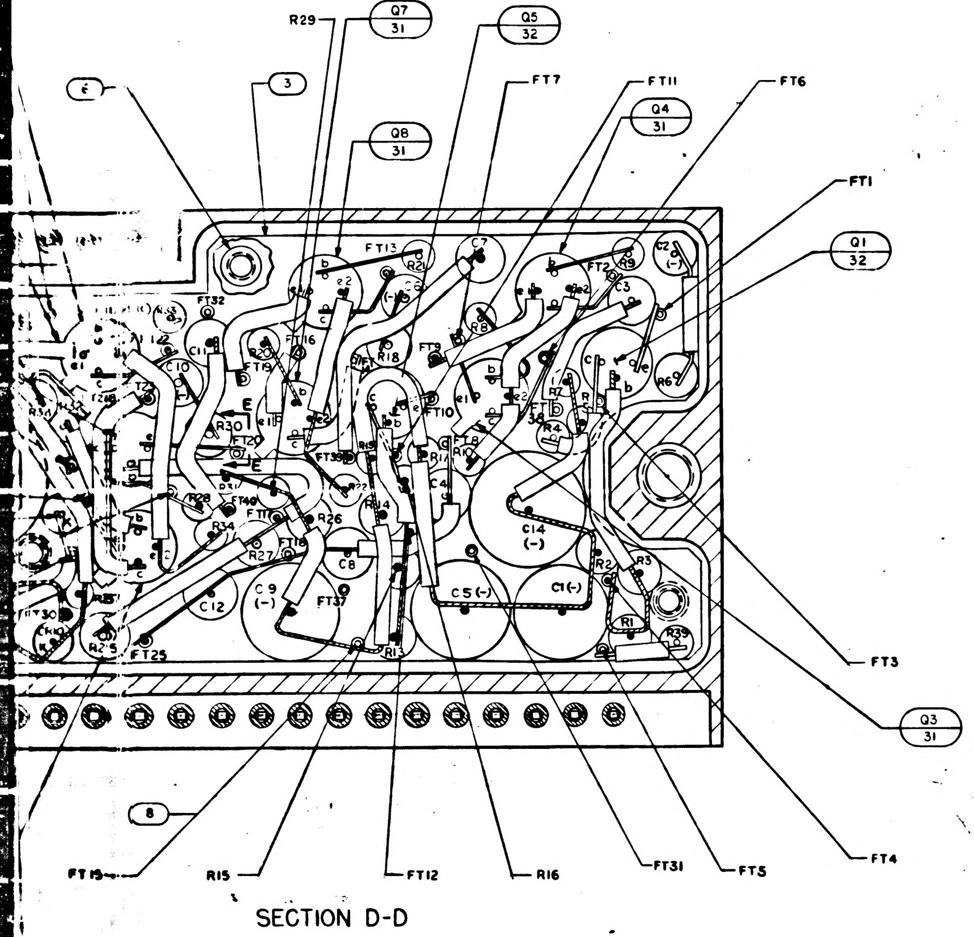
4
5
C
7
5
38
39

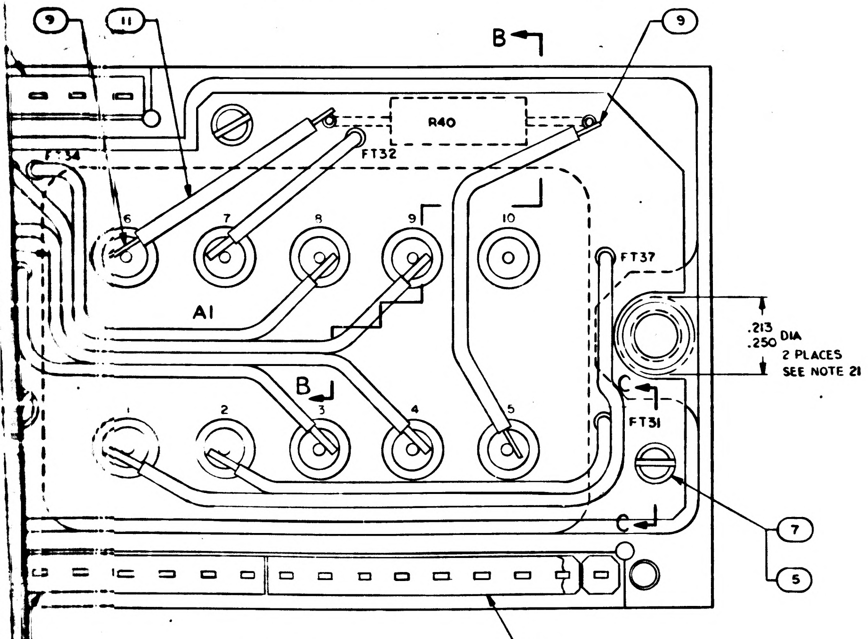
VIEW A-A

6007011	REV LTR H	SHT 1 OF 1

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.		17 JUN 66	
B		REVISED PER TDRR 29917	J.E.G.		14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S	29 JUL 66	
D		REVISED PER TDRR 30280	A N		28 AUG 66	
E		REVISED PER TDRR 30325	E.H.	NS	13 SEP 66	
F		REVISED PER TDRR 31390	TD	RLW	5 OCT 66	
G		REVISED PER TDRR 31486	EC	RLW	21 OCT 66	
H		REVISED PER TDRR 31699	JRK	CJP	28 OCT 66	


R29
Q7 31
Q5 32
E
3
FT7
FT11
FT6
Q8 31
Q4 31
FT1
Q1 32
FT13
FT32
C11
C10
R30
FT20
E
R28
R31
FT40
R34
R27
FT18
R26
FT16
FT19
R20
R21
C7
R18
FT9
R8
FT2
R9
C2 (-)
C3
R6
R7
R4
FT10
FT8
R19
R17
R10
R14
C4
FT39
R22
C14 (-)
C8
C9 (-)
FT37
C12
C5 (-)
C1 (-)
R13
R2
R3
R1
R39
FT30
R25
FT25
FT3
Q3 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D


9
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B
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R40
FT32
FT34
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8
9
10
A1
FT37
.213 .250 DIA
2 PLACES
SEE NOTE 21
B
C
FT31
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4
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C
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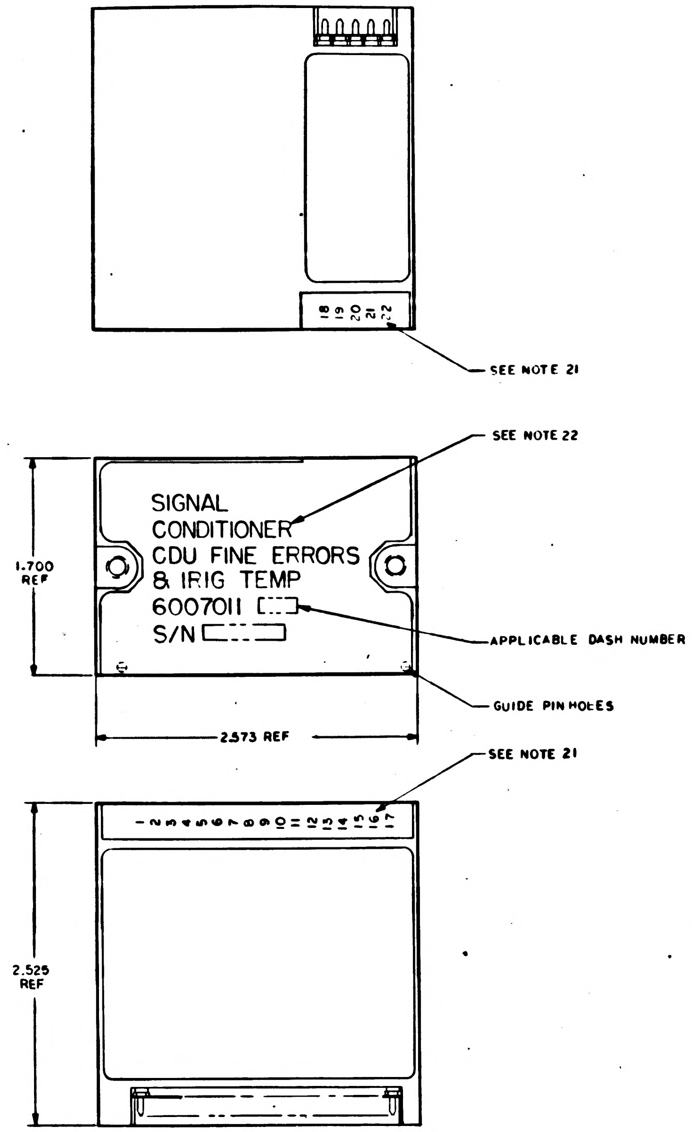
39

VIEW A-A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SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
1.700 REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
2.373 REF
SEE NOTE 21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2.525 REF

MARKING VIEW
SCALE 2/1

3H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-16	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
6	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1

-011 LIST OF MATERIALS

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Gr. Bell 15 Feb 66
CHECKED 4 Feb 66
APPROVED 7 Feb 66
APPROVED 7 Feb 66
APPROVED MIT 9 Feb 66
APPROVED MSC
DATE

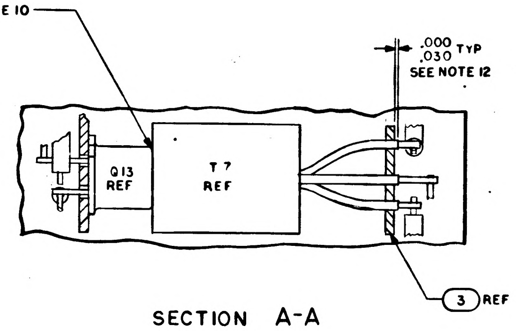
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CDU FINE ERRORS & IRIG TEMP
SIGNAL CONDITIONER
ASSEMBLY

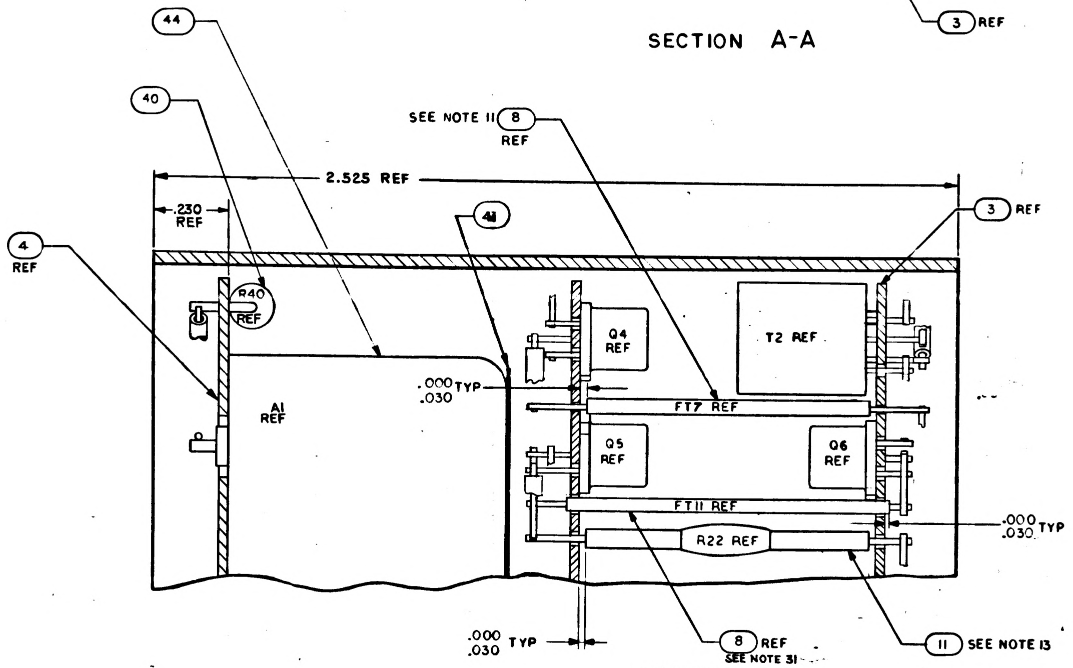
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007011
SCALE 5/1
SHEET 1 OF 1

6007011

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13
REF
T 7
REF
3 REF

SECTION A-A


44
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SEE NOTE 11
8
REF
2.525 REF
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REF
41
3 REF
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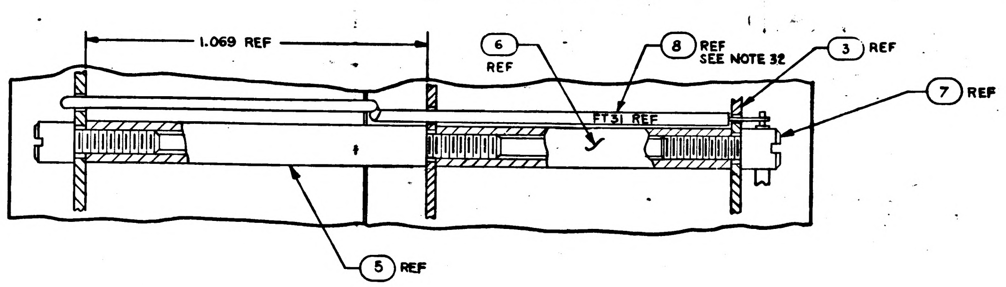
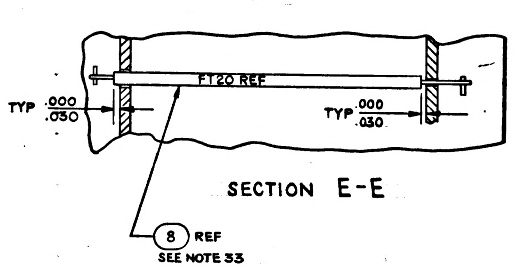
REF
R40
REF
A1
REF
Q4
REF
T2 REF
.000
.030
TYP
FT7 REF
Q5
REF
Q6
REF
FT11 REF
R22 REF
.000
.030 TYP
.000 TYP
.030
8 REF
SEE NOTE 31
11 SEE NOTE 13

SECTION B-B

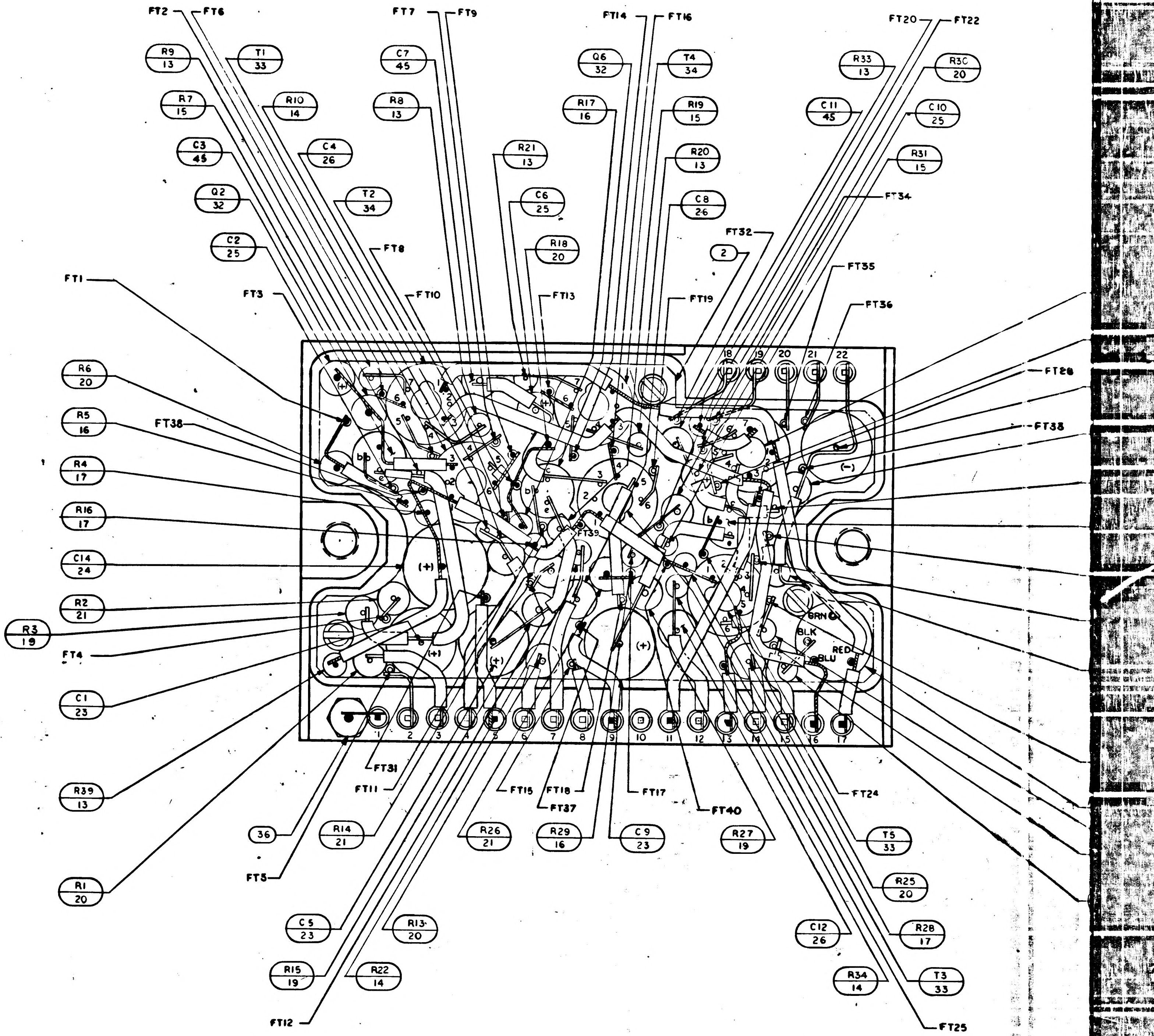
R40	
PART NUMBER	VALUE
1008878-001	5.300 K
-002	5.342 K
-003	5.385 K
-004	5.428 K
-005	5.471 K
-006	5.515 K
-007	5.559 K
-008	5.603 K
-009	5.648 K
-010	5.693 K
-011	5.739 K
-012	5.785 K
-013	5.831 K
-014	5.878 K
-015	5.925 K
-016	5.972 K
-017	6.020 K
-018	6.068 K
-019	6.117 K
1008878-020	6.166 K


1.069 REF
6
REF
8 REF
SEE NOTE 32
3 REF
7 REF
FT31 REF
5 REF

SECTION C-C


FT20 REF
TYP .000
.030
TYP .000
.030
8 REF
SEE NOTE 33

SECTION E-E


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9
13
T1
33
C7
45
Q6
32
T4
34
R33
13
R3C
20
R7
15
R10
14
R8
13
R17
16
R19
15
C11
45
C10
25
C3
45
C4
26
R21
13
R20
13
R31
15
Q2
32
T2
34
C6
25
C8
26
FT34
C2
25
FT8
R18
20
FT32
2
FT1
FT3
FT10
FT13
FT19
FT35
FT36
R6
20
R5
16
FT38
R4
17
R16
17
C14
24
R2
21
R3
19
FT4
C1
23
R39
13
36
FT5
R1
20
FT28
FT38
FT39
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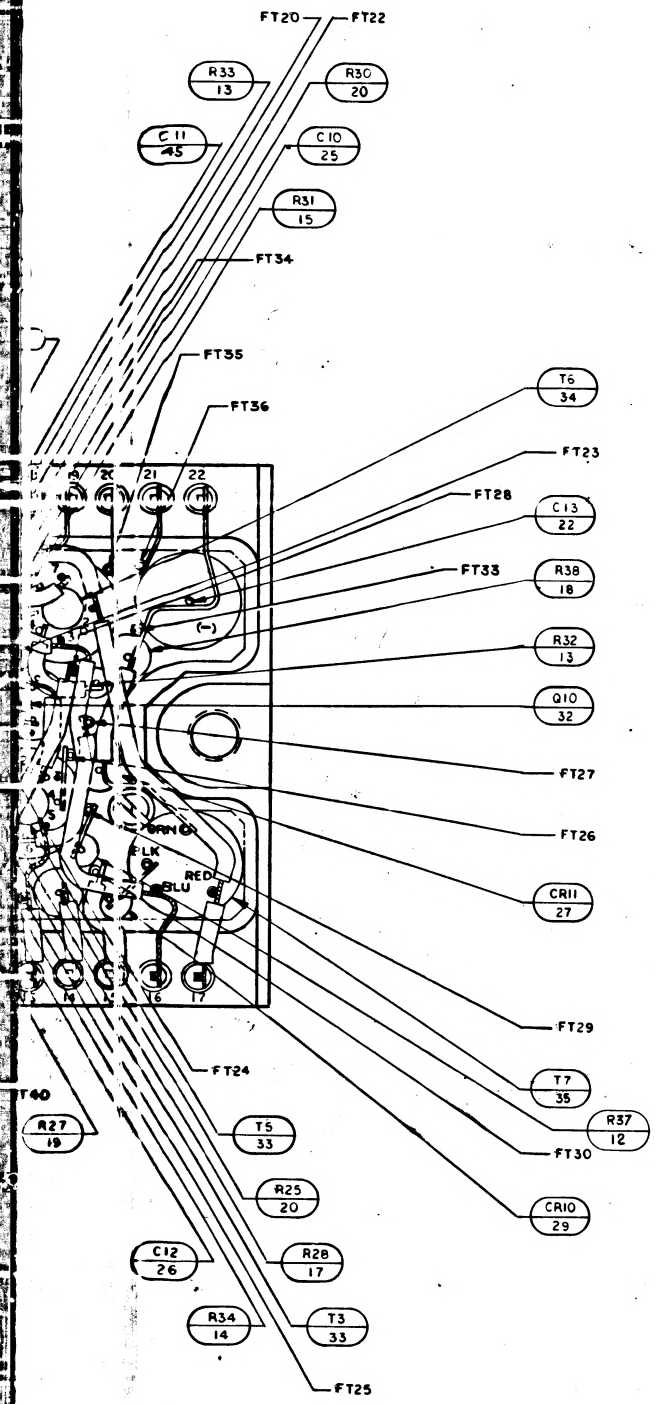
FT31
FT11
FT15
FT18
FT37
FT17
FT40
FT24
R14
21
R26
21
R29
16
C9
23
R27
19
T5
33
R25
20
C5
23
R13
20
C12
26
R28
17
R15
19
R22
14
R34
14
T3
33
FT12
FT25

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO.42 AND FIND NO.43 TO FIND NO.1 PER ND 1002136.
3. AR DENOTES AS REQUIRED.
4. FT DENOTES FEED THROUGH.
5. K DENOTES CATHODE SIDE OF DIODE.
6. + DENOTES POSITIVE SIDE OF CAPACITOR.
7. WELD PER ND 1002005.
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34 (T2,T4,T6) TO FIND NO.2. PER ND 1002004 TYPE I.
9. BOND FIND NO.30(Q13), FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I.
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I.
11. TYPICAL FOR FEED THRU'S FT2, FT4 THRU FT7, FT12 THRU FT19, FT21, FT22, FT24 THRU FT27, FT29 AND FT30.
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35.
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29.
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE.
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING.
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING.
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069.
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES.
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I.
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING.
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND.
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN.
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN.
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION.
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. *OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.*
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011.
27. FIND NOS. 44 AND 40 ARE MATCHED COMPONENTS. FIND NO. 40 SHALL BE SELECTED FROM CHART (R40) PER VALUE SPECIFIED ON FIND NO.44.
28. BOND FIND NO.41 TO FIND NO.44 PER ND1002004 TYPE I. (CENTRALIZE).
29. BOND FIND NO.40 TO FIND NO.4 PER ND1002004 TYPE I.
30. BOND FIND NO.44 TO FIND NO.1 PER ND1002004 TYPE I, FIND NO.44 MUST BE PRESSED TIGHTLY TO FIND NO.1.
31. TYPICAL FOR FEED THRU'S FT3, FT10, FT11, FT23 AND FT28.
32. TYPICAL FOR FEED THRU'S FT31 THRU FT37.
33. TYPICAL FOR FEED THRU'S FT1, FT8, FT9 AND FT20.
34. PAINT MODULE MOUNTING SURFACE PER ND 1002291, USING MIL-P-8585 ZINC CHROMATE PRIMER FOLLOWED BY 1012543-003 PAINT. MODULE GUIDE PIN HOLES TO BE FREE OF PAINT. TOTAL DRY FILM THICKNESS MUST NOT EXCEED 2 MILS.

6007011	REV LET J


FT20
FT22
R33 13
R30 20
C11 45
C10 25
R31 15
FT34
FT35
FT36
T6 34
FT23
FT28
C13 22
FT33
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
FT29
T7 35
R37 12
FT30
CR10 29
FT24
T5 33
R25 20
R28 17
T3 33
R34 14
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FT40
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17
ORN
BLK
RED
BLU
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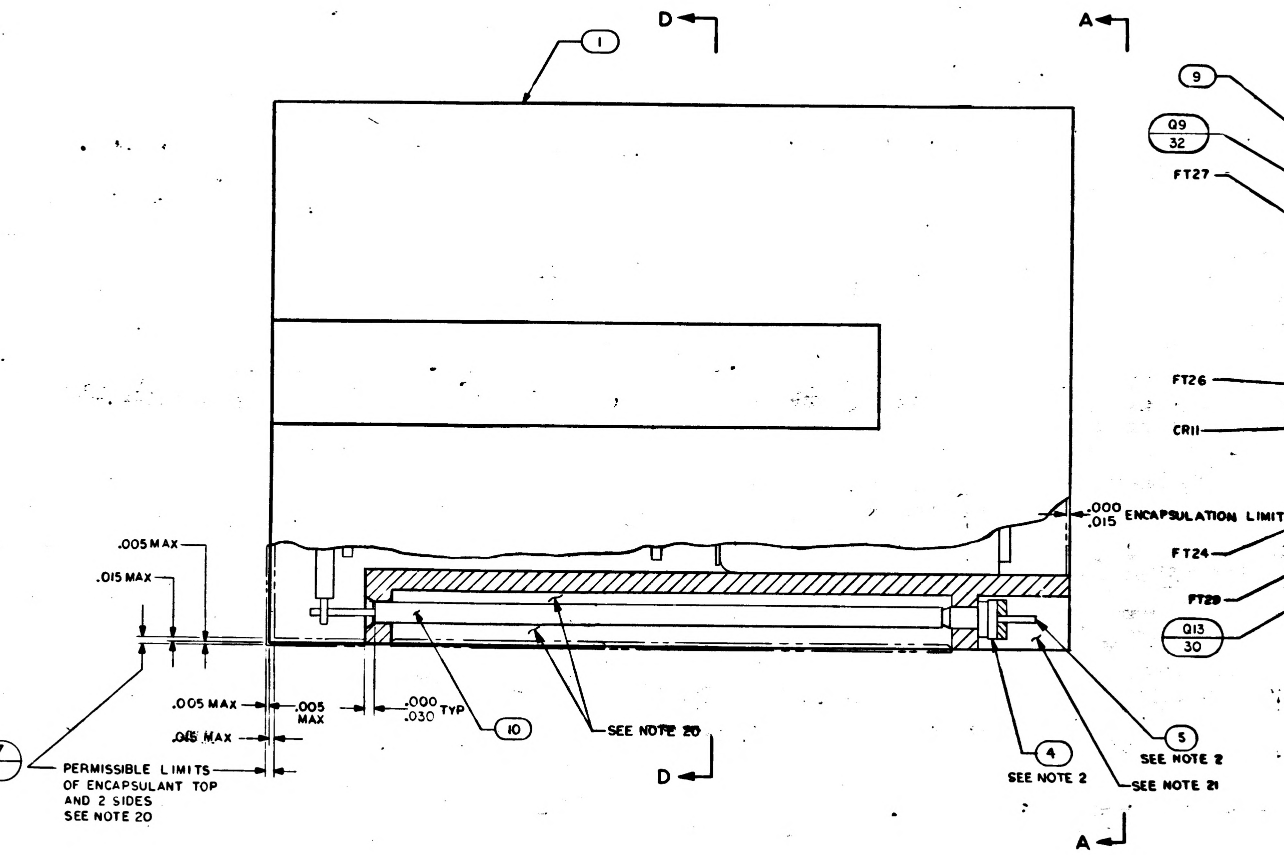
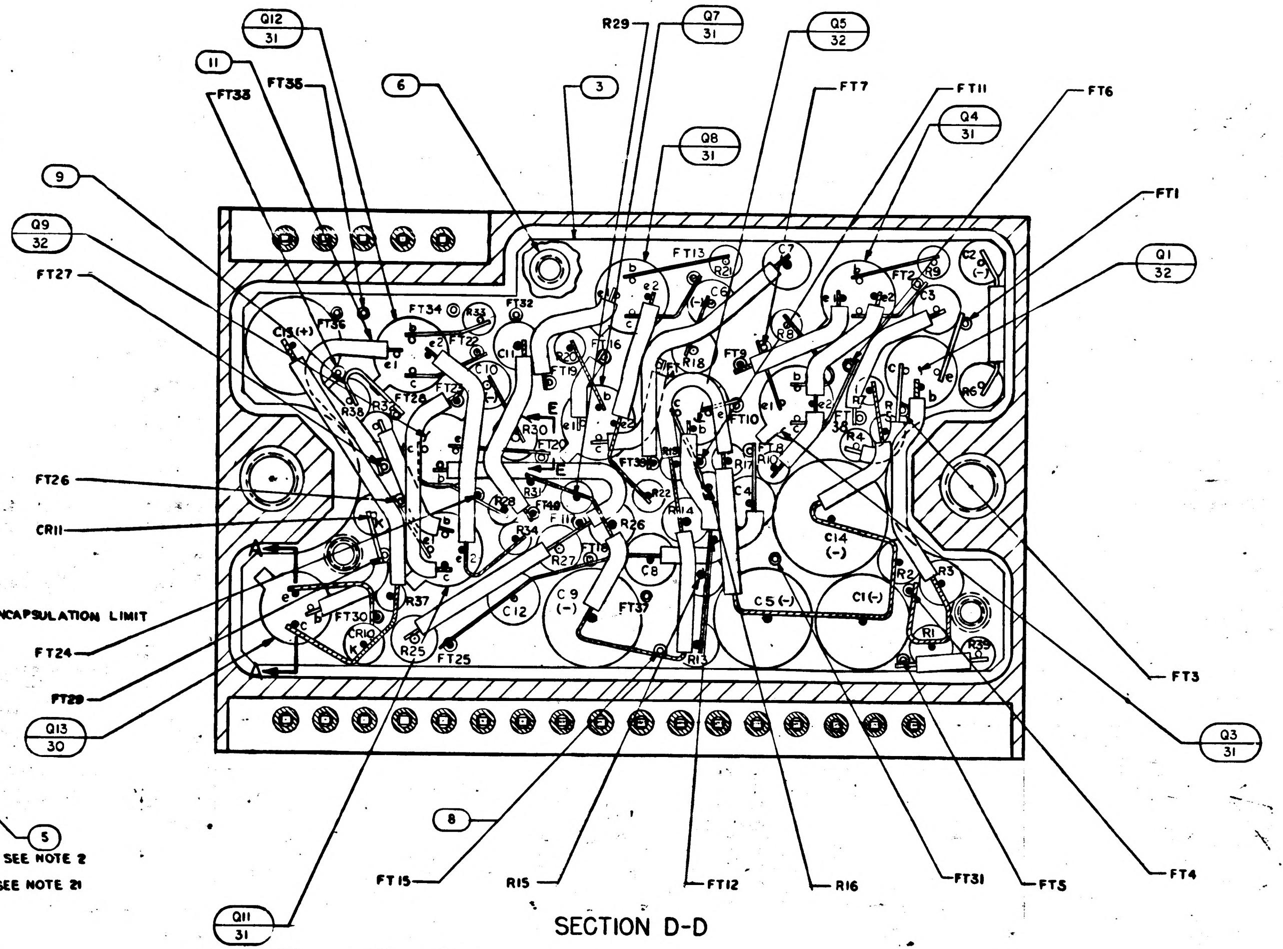

1
D
A
.000 .015 ENCAPSULATION LIMIT
.005 MAX
.015 MAX
.005 MAX
.005 MAX
.015 MAX
.000 .030 TYP
10
SEE NOTE 20
4
SEE NOTE 2
5
SEE NOTE 2
SEE NOTE 21
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND 2 SIDES SEE NOTE 20
D
A


Q12 31
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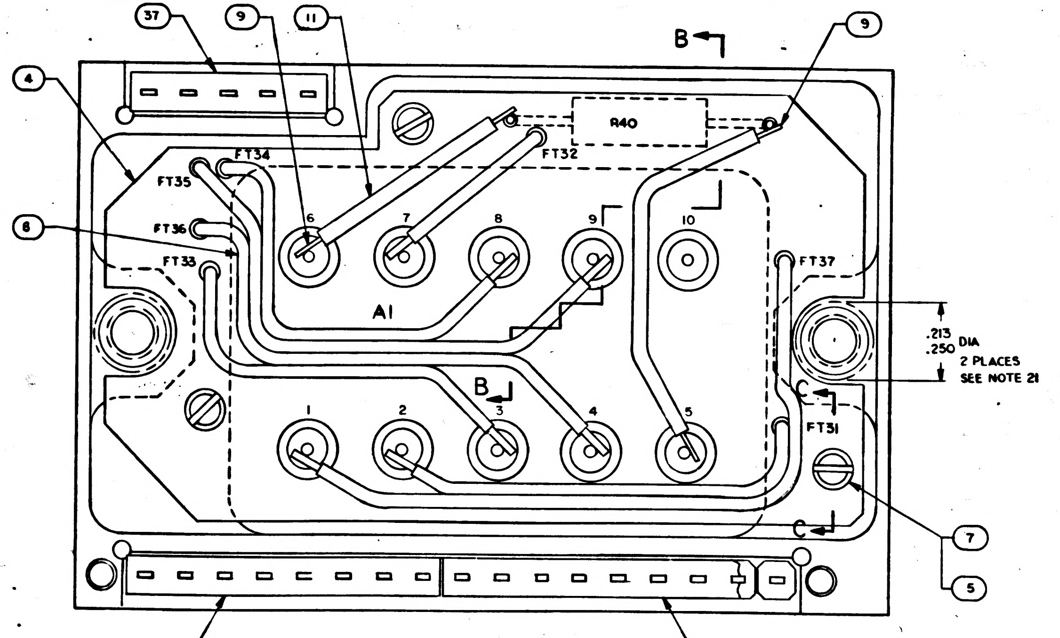
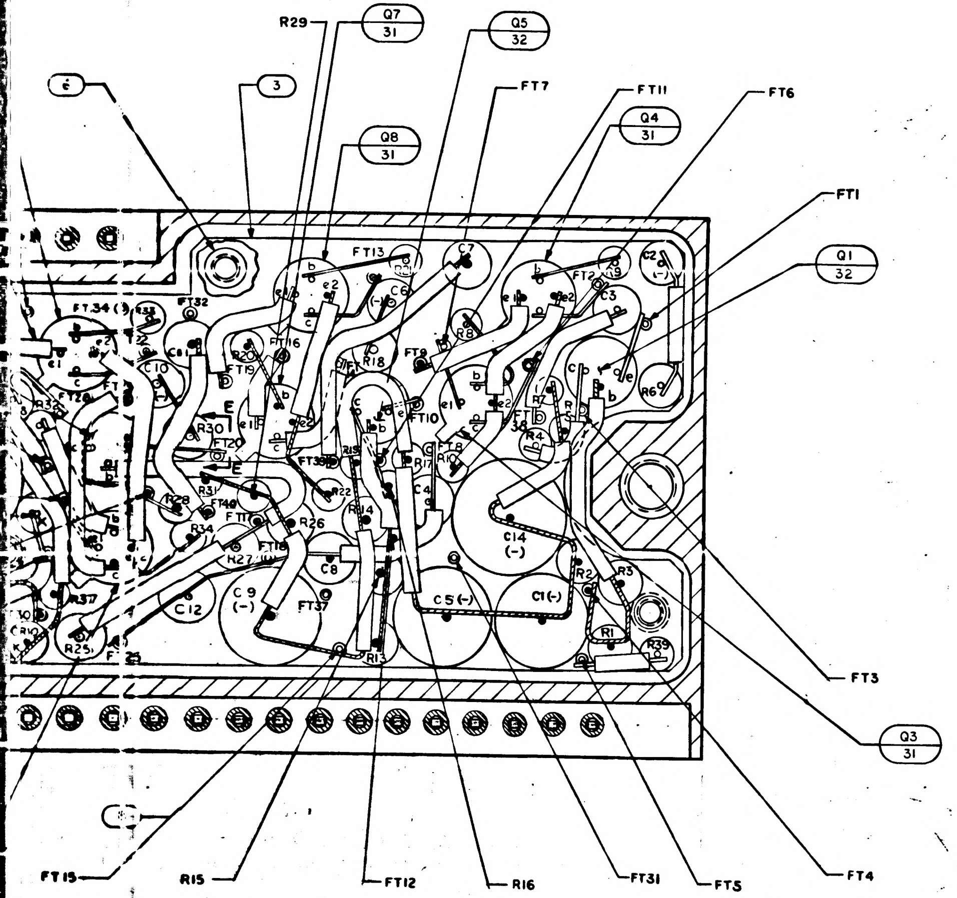
FT35
FT33
6
3
R29
Q7 31
Q5 32
FT7
FT11
FT6
Q4 31
Q8 31
9
Q9 32
FT27
FT1
Q1 32
FT26
CR11
FT24
FT29
Q13 30
FT3
Q3 31
8
FT15
R15
FT12
R16
FT31
FT5
FT4
Q11 31
C15(+)
FT34
FT32
FT13
C7
FT2
C2(−)
R9
C3
C6
R18
FT9
FT10
R30
R31
R26
R27
R14
C8
C9(−)
C12
FT37
C5(−)
C1(−)
C14(−)
R1
R2
R3
R13
R25
FT25
FT30
CR10
R37
R34
FT16
FT19
FT22
FT36
R38
SECTION D-D


37
9
11
B
9
4
R40
FT32
FT34
FT35
6
FT36
FT33
6
7
8
9
10
FT37
A1
.213 .250 DIA 2 PLACES SEE NOTE 21
B
C
1
2
3
4
5
FT31
7
5
C
38
39
VIEW A-A

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A.N.	CW	17 JUN 66	
B		REVISED PER TDRR 29917	JEG	JJS	14 JULY 66	
C		REVISED PER TDRR 30249	WAB	N.S.	29 JUL 66	
D		REVISED PER TDRR 30280	A.N.	Cm	29 AUG 66	
E		REVISED PER TDRR 30325	E.H.	NS	13 SEP 66	
F		REVISED PER TDRR 31390	TD	RLW	5 OCT 66	
G		REVISED PER TDRR 31486	EC	RLW	21 OCT 66	
H		REVISED PER TDRR 31599	JRK	CHP	28 OCT 66	
J		REVISED PER TDRR 32413	REM	N.W.	6 JAN 67	



R29
Q7
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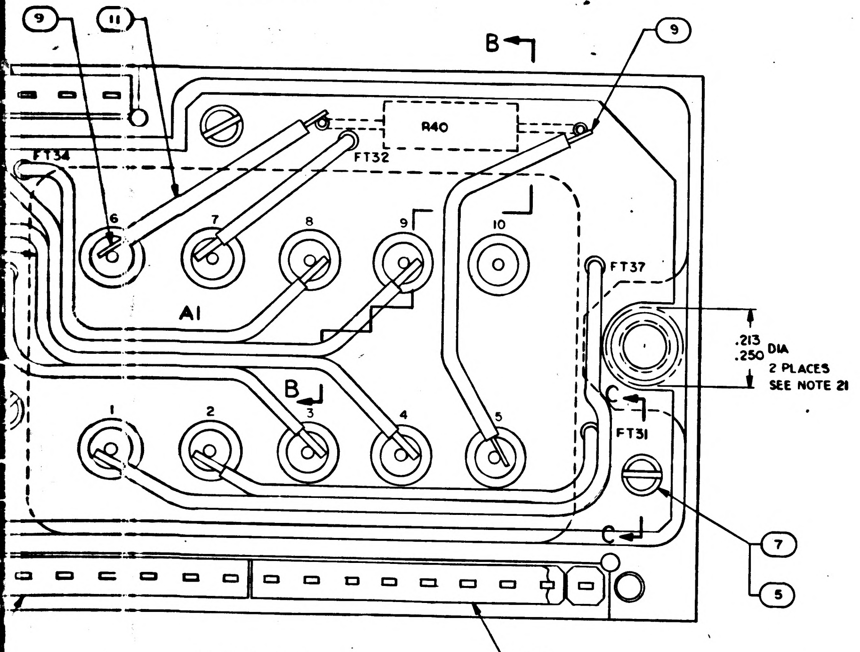
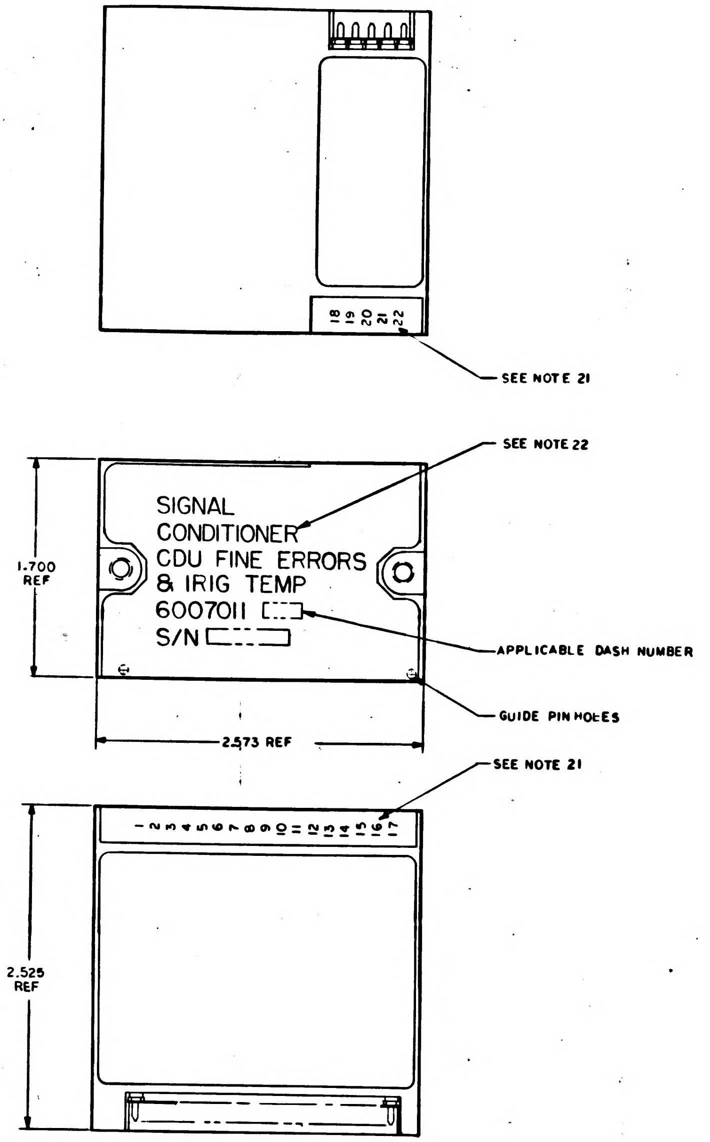
Q5
32
FT7
FT11
Q4
31
FT6
Q8
31
3
6
FT1
Q1
32
FT13
C7
FT2
C3
C2
FT34
FT32
C10
FT16
FT19
R18
FT9
C5
C6
R28
E
R30
FT20
FT10
R7
R6
R31
FT40
FT35
R22
R17
C4
C14
(-)
R34
FT11
R26
FT18
R27
C8
R3
R2
R5
C12
C9
(-)
FT37
C5(-)
C1(-)
R25
R13
R1
R39
FT3
Q3
31
FT15
R15
FT12
R16
FT31
FT5
FT4

SECTION D-D



9
11
B
9
R40
FT34
FT32
6
7
8
9
10
FT37
A1
.213
.250 DIA
2 PLACES
SEE NOTE 21
B
1
2
3
4
5
C
FT31
C
7
5
39

VIEW A-A



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21
22
SEE NOTE 21
SEE NOTE 22
SIGNAL
CONDITIONER
CDU FINE ERRORS
& IRIG TEMP
6007011
S/N
1.700
REF
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
2.573 REF
SEE NOTE 21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2.525
REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010006	SCHEMATIC	REF
3	1006777-31	CAPACITOR	45
1	2001466	IRIG TEMPERATURE TELEMETRY AMPLIFIER	44
22	1006782-16	CONTACT, WRAPOST, MALE, MINAT.	43
22	1006775	INSULATOR, WRAPOST, MALE, MINAT.	42
1	2010728	PLATE, INSULATION	41
1	SEE NOTE 27	RESISTOR	40
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
1	2008093 — 000	TERMINAL, THREADED	36
1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
6	1010597 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
1	1010837 — 001	DIODE	29
			28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
3	1006755 — 69	CAPACITOR	25
1	1006755 — 182	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 13	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
6	1008161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
3	2010729	STUD, EXTENSION	5
1	2010727	WIRING BOARD, BOTTOM	4
1	6008041	WIRING BOARD, MIDDLE	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1

-011 LIST OF MATERIALS

6007011

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Bell 3Feb66
CHECKED 4Feb66
APPROVED 7Feb66
APPROVED 7Feb66
APPROVED MIT 9Feb66
APPROVED MSC
DATE

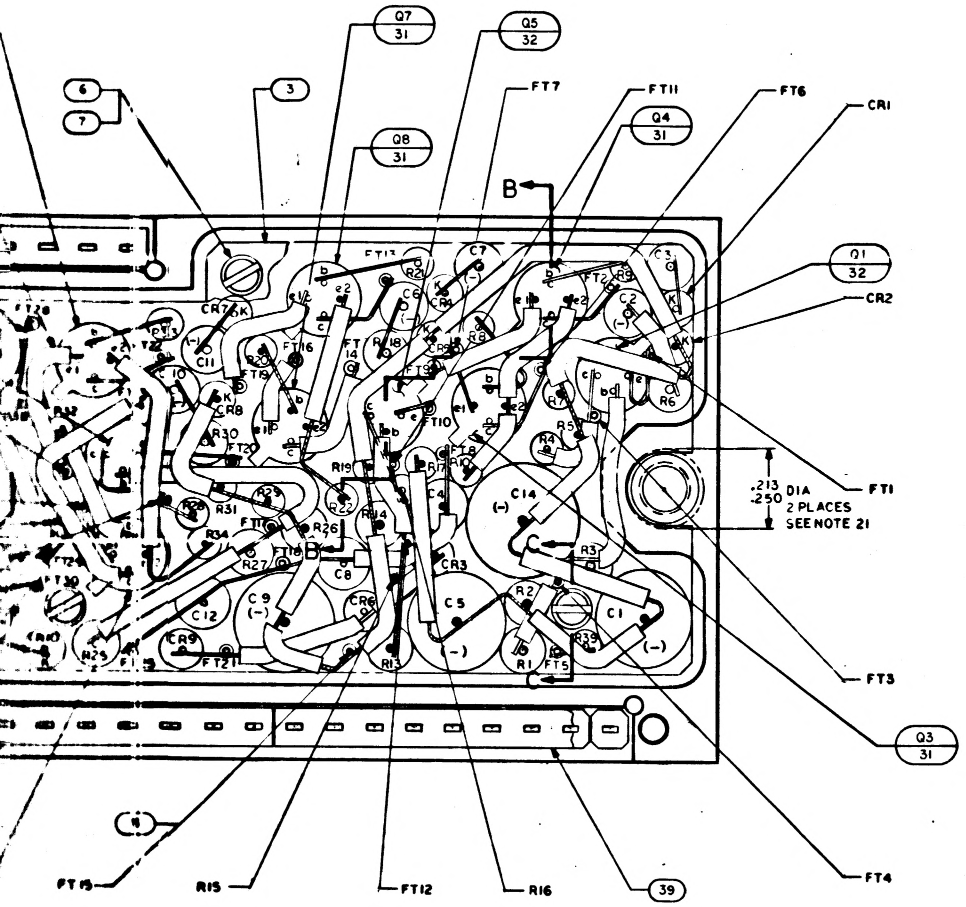
CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER ASSEMBLY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007011
SCALE 5/1
SHEET 1 OF 1

6007011 REV J SHT 1 OF 1

3760007011

REVISIONS 26026					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



Q7
31
Q5
32
FT7
FT11
FT6
CR1
6
7
3
Q8
31
Q4
31
B
Q1
32
CR2
FT1
.213
.250 DIA
2 PLACES
SEE NOTE 21
FT3
Q3
31
FT4
4
FT15
R15
FT12
R16
39
C7
C3
C2
C11
C14
C12
C9
C8
C5
C1
CR3
CR6
CR7
CR8
CR9
R1
R2
R3
R4
R5
R6
R13
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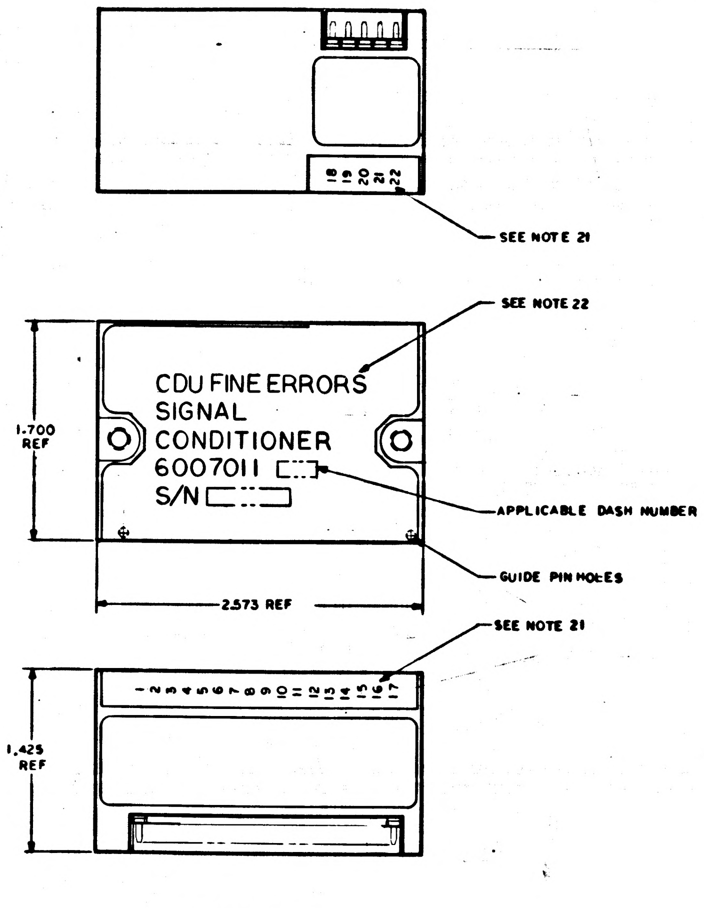
R30
R31
R34
R39
FT5
FT16
FT18
FT20
FT21



18
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SEE NOTE 21
SEE NOTE 22
CDU FINE ERRORS
SIGNAL
CONDITIONER
6007011
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES
1.700
REF
2.573 REF
SEE NOTE 21
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
1.425
REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010006	SCHEMATIC	REF
1	1008540 — 9	GASKET	39
1	1008540 — 8	GASKET	38
1	1008540 — 5	GASKET	37
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1	1010466	TRANSFORMER	35
3	1010365	TRANSFORMER	34
3	1010274	TRANSFORMER	33
7	1010397 — 1	TRANSISTOR	32
6	1010367	TRANSISTOR	31
1	1010357 — 1	TRANSISTOR	30
4	1010837 — 001	DIODE	29
6	1010372 — 15	DIODE	28
1	1010259-001	DIODE	27
3	1010279 — 114	CAPACITOR	26
6	1006755 — 118	CAPACITOR	25
1	1006755 — 89	CAPACITOR	24
3	1006755 — 34	CAPACITOR	23
1	1006755 — 15	CAPACITOR	22
3	1010364 — 769	RESISTOR	21
6	1010364 — 735	RESISTOR	20
3	1010364 — 707	RESISTOR	19
1	1010364 — 251	RESISTOR	18
3	1006750 — 72	RESISTOR	17
3	1006750 — 65	RESISTOR	16
3	1006750 — 56	RESISTOR	15
3	1006750 — 36	RESISTOR	14
7	1006750 — 25	RESISTOR	13
1	1006750 — 10	RESISTOR	12
AR	1006776 — 21	INSULATION, SLEEVING	11
AR	1006776 — 20	INSULATION, SLEEVING	10
AR	1006757 — 1	WIRE, ELECTRICAL	9
AR	1010848 — 2	WIRE, ELECTRICAL	8
3	10[illegible]8161 — 1	SCREW, CAP, SLOTTED HEAD, SPECIAL	7
3	1015135 — 015	SPACER, INSULATED	6
22	1006782 — 5	CONTACT, WRAPOST, MALE, MINAT	5
22	1006775	INSULATOR, WRAPOST, MALE, MINAT	4
1	6008041	WIRING BOARD, BOTTOM	3
1	6008039	WIRING BOARD, TOP	2
1	6008036	FRAME	1

-011 LIST OF MATERIALS

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED 7 Mar 66
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CDU FINE ERROR
SIGNAL CONDITIONER
ASSEMBLY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007011
SCALE 5/1
SHEET 1 OF 1

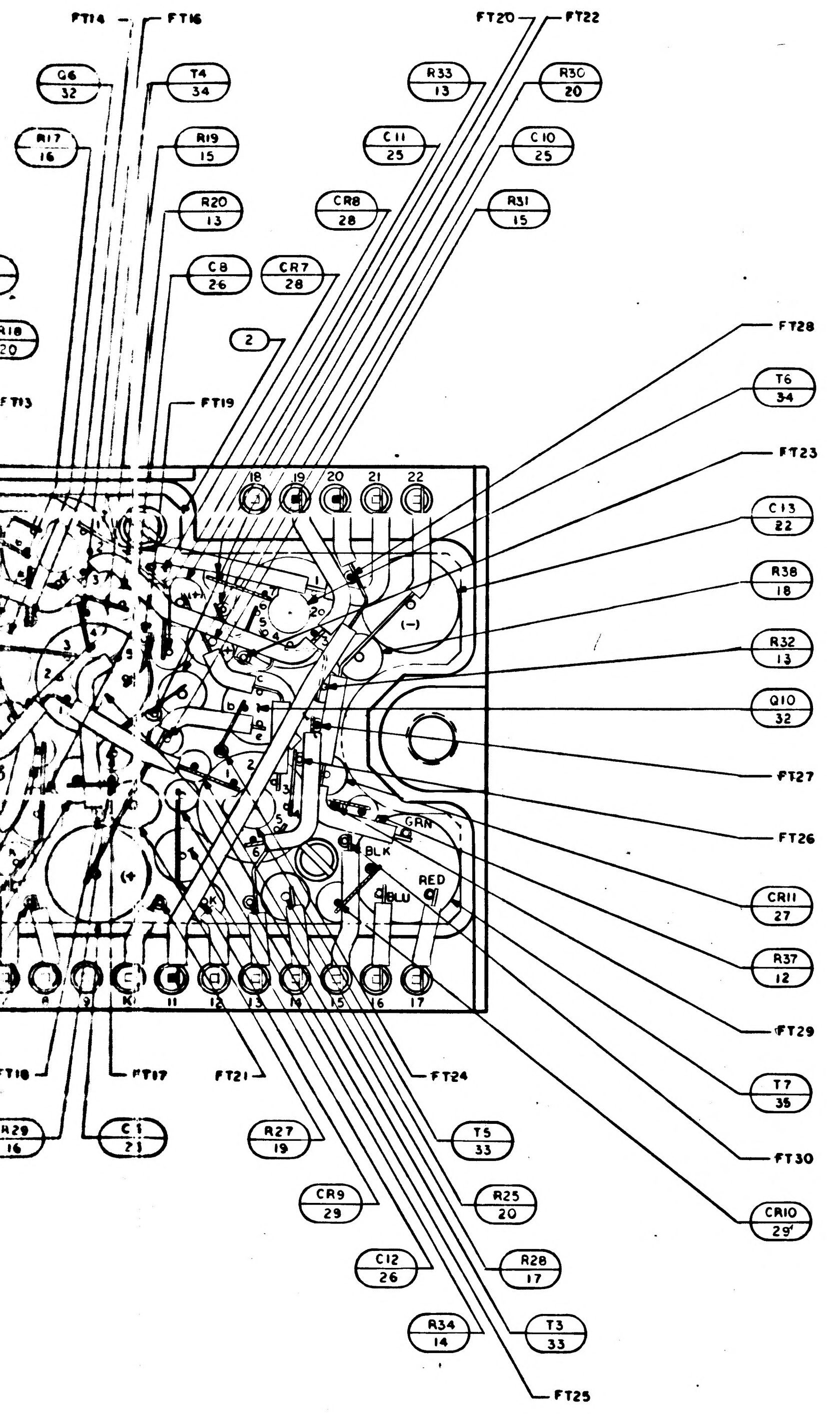
6007011

6007011

MASTER

FT3

3H


FT14
FT16
FT20
FT22
G6 32
T4 34
R33 13
R30 20
R17 16
R19 15
C11 25
C10 25
R20 13
CR8 28
R31 15
C8 26
CR7 28
R18 20
2
FT13
FT19
FT28
T6 34
FT23
C13 22
R38 18
R32 13
Q10 32
FT27
FT26
CR11 27
R37 12
FT29
T7 35
FT30
CR10 29
18
19
20
21
22
GRN
BLK
BLU
RED
11
12
13
14
15
16
17
FT18
FT17
FT21
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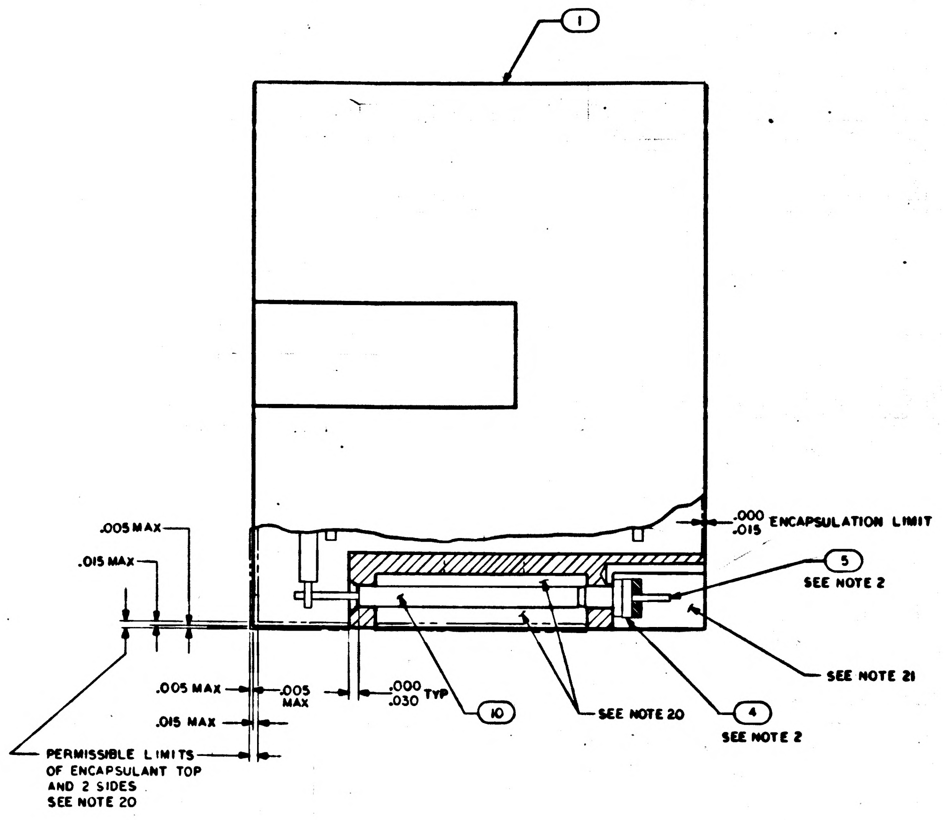
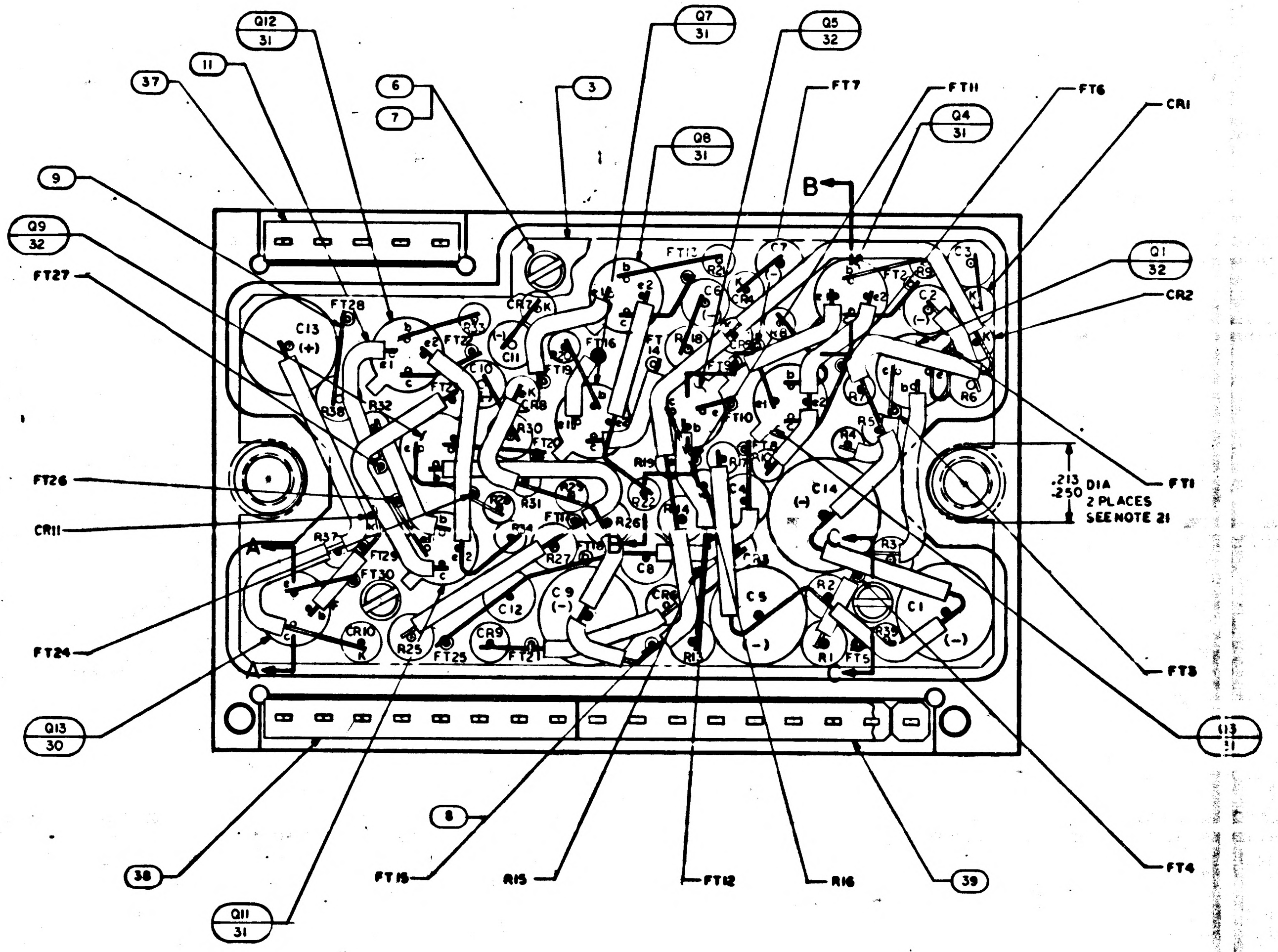
C1 21
R27 19
T5 33
CR9 29
R25 20
C12 26
R28 17
R34 14
T3 33
FT25


1
.000
.015 ENCAPSULATION LIMIT
5
SEE NOTE 2
SEE NOTE 21
4
SEE NOTE 2
SEE NOTE 20
10
.000
.030 TYP
.005 MAX
.015 MAX
.005 MAX
.015 MAX
.005 MAX
PERMISSIBLE LIMITS
OF ENCAPSULANT TOP
AND 2 SIDES
SEE NOTE 20


Q12 31
Q7 31
Q5 32
11
37
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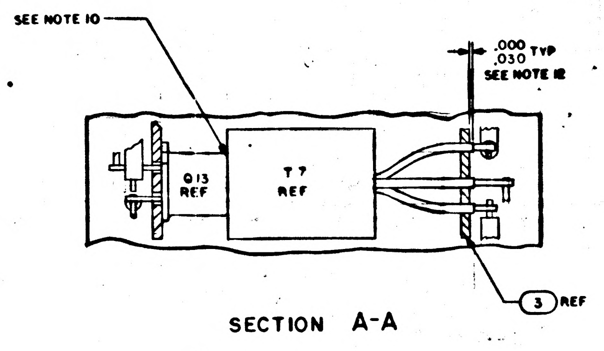
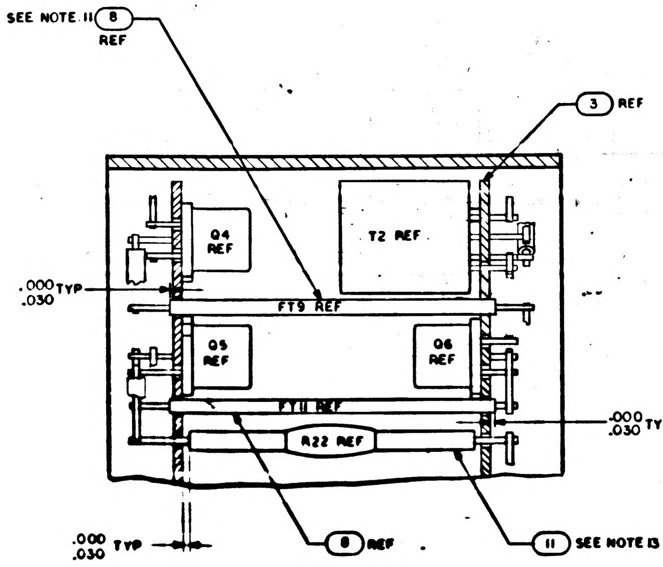
7
3
FT7
FT11
FT6
CR1
Q8 31
Q4 31
9
Q9 32
FT27
B
Q1 32
CR2
FT26
CR11
.213
.250 DIA
2 PLACES
SEE NOTE 21
FT1
A
FT24
FT3
Q13 30
Q3 31
38
Q11 31
8
FT18
R15
FT12
R16
39
FT4

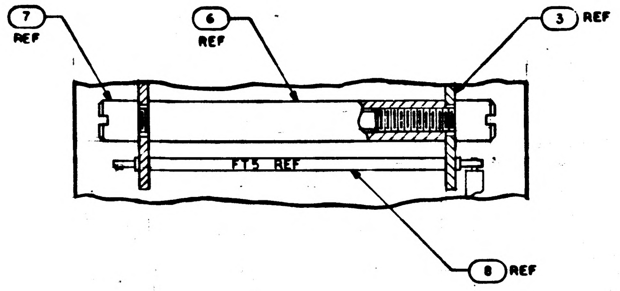
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 10
.000
.030 TYP
SEE NOTE 12
Q13
REF
T7
REF
3 REF

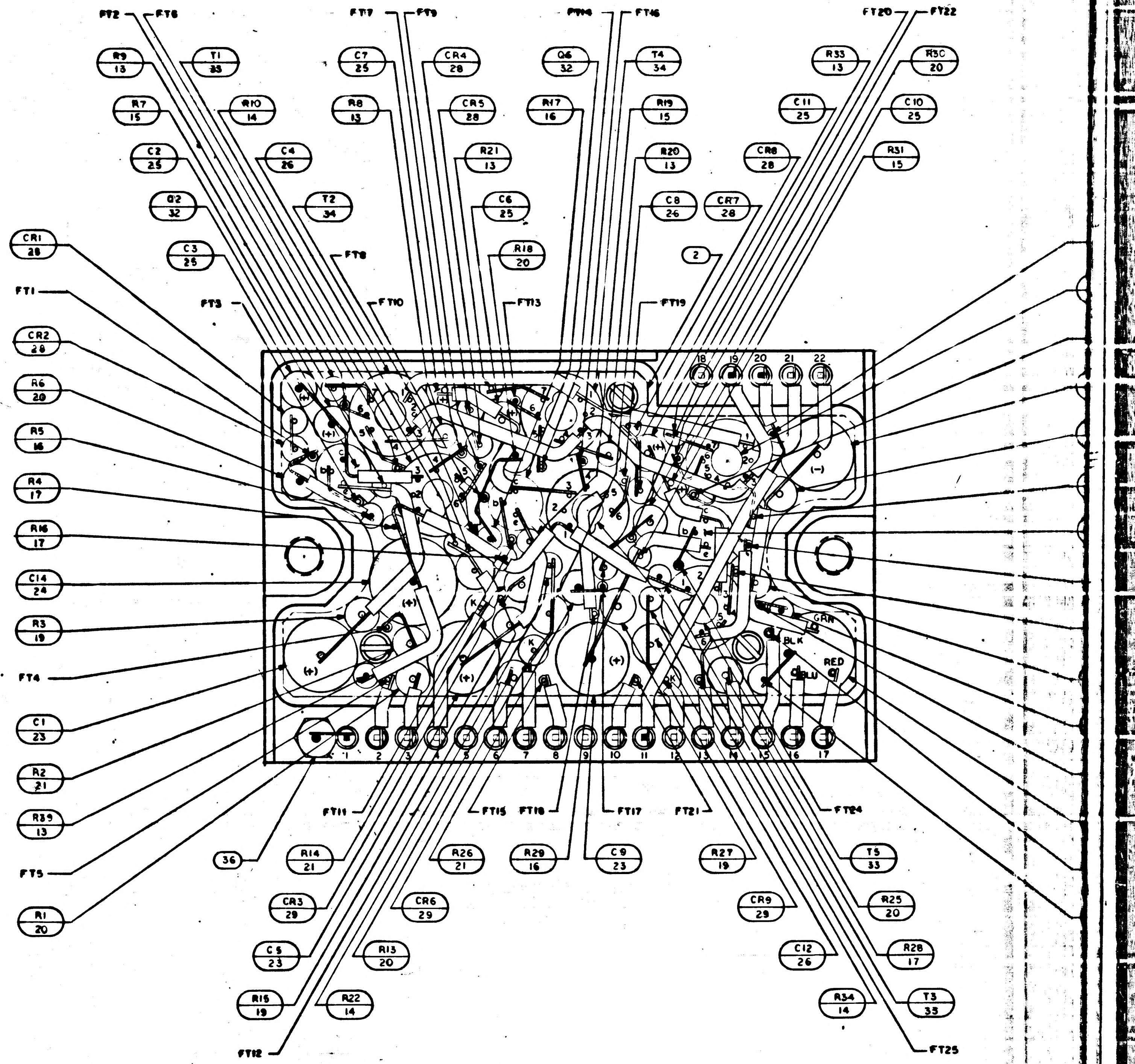
SECTION A-A


SEE NOTE 11
8
REF
3 REF
Q4
REF
T2 REF
.000
.030 TYP
FT9 REF
Q5
REF
Q6
REF
FT11 REF
R22 REF
.000
.030 TYP
.000
.030 TYP
8 REF
11 SEE NOTE 13

SECTION B-B


7
REF
6
REF
3 REF
FT5 REF
8 REF

SECTION C-C


FT2
FT6
FT7
FT9
FT14
FT16
FT20
FT22
R9 13
T1 33
C7 25
CR4 28
Q6 32
T4 34
R33 13
R30 20
R7 15
R10 14
R8 13
CR5 28
R17 16
R19 15
C11 25
C10 25
C2 25
C4 26
R21 13
R20 13
CR8 28
R31 15
Q2 32
T2 34
C6 25
C8 26
CR7 28
CR1 28
C3 25
FT8
R18 20
2
FT1
FT3
FT10
FT13
FT19
CR2 28
R6 20
R5 16
R4 17
R16 17
C14 24
R3 19
FT4
C1 23
R2 21
R39 13
FT5
R1 20
18
19
20
21
22
(+)
(−)
K
GRN
BLK
RED
BLU
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
36
FT11
FT15
FT18
FT17
FT21
FT24
R14 21
R26 21
R29 16
C9 23
R27 19
T5 33
CR3 29
CR6 29
CR9 29
R25 20
C5 23
R13 20
C12 26
R28 17
R15 19
R22 14
R34 14
T3 33
FT12
FT25

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO.4 AND FIND NO.5 TO FIND NO.1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THROUGH
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. BOND FIND NO.32(Q2,Q6,Q10) FIND NO.33(T1,T3,T5) AND FIND NO.34(T2,T4,T6) TO FIND NO.2 PER ND 1002004 TYPE I
9. BOND FIND NO.30(Q13),FIND NO.31(Q3,Q4,Q7,Q8,Q11,Q12) AND FIND NO.32(Q1,Q5,Q9) TO FIND NO.3, PER ND 1002004 TYPE I
10. BOND FIND NO.35(T7) TO FIND NO.30 (Q13) PER ND 1002004 TYPE I
11. TYPICAL SLEEVING FOR ALL FEED THRUS
12. TYPICAL SLEEVING FOR LEADS OF FIND NO. 35
13. TYPICAL SLEEVING FOR FIND NO.12 THRU 21,25,27,28 AND 29
14. TRIM UNUSED LEADS OF FIND NO.'S 33 AND 34 .010/.030 FROM CASE
15. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
16. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
18. MOUNTING TORQUE FOR FIND NO.36 TO BE 15-20 INCH OUNCES
19. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004 TYPE I
20. ENCAPSULATE PER ND 1002002. REMOVE FLASHING
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. MARK .100/.060 HIGH WHITE CHARACTERS PER ND 1002019, CENTRALIZE AS SHOWN
23. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023, CENTRALIZE AS SHOWN
24. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
25. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF PS 6007011

F-1

APOLLO G&N Specification
PS6007011 REV-
Original Issue Date: 14 June 1966
Release Authority: TDRR 29566
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

CDU FINE ERRORS SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007011

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 10 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R M Kowalski 7 June 66	6-14-66 MIT/IL	G H Krier ACSP

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 DC Current Drain. The dc current drain of the assembly shall be 45.0±4.5 ma.

3.1.2 Reference Input Current. The 28V rms, 800 cps, input current shall be less than 19.0 ma.

3.1.3 Offset Voltage. The offset voltages of assembly sections a, b, and c shall be ≤10 mvdc.

3.1.4 Scale Factor

3.1.4.1 Assembly Sections a, b, and c. The input signal voltage of assembly sections a, b, and c shall be 1.20±0.12V rms when the output voltage is +2.500±0.005 vdc.

3.1.4.2 Assembly Sections d. The output voltage of assembly section d shall be +2.500±0.250 vdc when a simulated thermistor resistance of 1280Ω±1 percent is connected across the input pins of assembly section d.

3.1.4.3 Assembly Section e. The output voltages of assembly section e shall be as specified in Table I when the respective simulated sensor resistances listed in Table I are connected individually across the input.

TABLE I

SECTION e SCALE FACTOR

SIMULATED SENSOR RESISTANCE (ohms ±0.05%)	OUTPUT VOLTAGE (vdc)
2037.4	5.00±0.20
2384.3	2.50±0.10
2816.0	0.00±0.20

3.1.5 Gain Stability. The scale factors of assembly sections a, b, and c specified in 3.1.4.1 shall not deviate by more than ±1 percent when the +28 vdc supply is enhanced to +33 vdc or degraded to +23 vdc.

3.1.6 Scale Factor Linearity. The scale factor linearity of each assembly section a, b, and c shall not deviate by more than 4 percent from the average of 6 individual, respective, assembly scale factors.

3.1.7 Output Impedance. The output impedance of assembly sections a, b, and c shall be <5k ohms.

3.1.8 Output Ripple and Noise. The output ripple and noise of assembly sections a, b, and c shall be less than 10 mv pp. The output ripple and noise of assembly section e shall be less than 50 mv pp.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007011 and all drawings and engineering data referenced thereon.

3.2.2 Standards of Manufacturing, Manufacturing Process, and Production

3.2.2.1 Insulation Resistance. The dc resistance between all assembly pins and pin 1 shall be ≥100 megohms.

3.2.2.2 Continuity and DC Resistance. The continuity and dc resistance shall be as specified in Table II.

TABLE II

CONTINUITY AND DC RESISTANCE

PINS		RESISTANCE (ohms)	
From	To	Min	Max
3	8	332k	-
6	8	332k	-
14	8	332k	-
16	17	-	120
11	22	975	1025
1	Chassis	-	0.5

3.2.2.3 Circuit Isolation. The dc resistance between any two low pins of the power, reference, and output circuits shall be ≥100 megohms, with the exception of the resistance between pins 15 and 22 which shall not be measured.

3.2.2.4 Diode Function. A +2.50±0.10 vdc output of assembly sections a, b, and c shall not decrease when pins 10 and 13 are connected together. A -2.50±0.10 vdc output for these assembly sections shall decrease to less than -1.0 vdc when the above pins are connected together.

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
DC Current Drain	3.1.1	4.3.6
Reference Input Current	3.1.2	4.3.7
Offset Voltages	3.1.3	4.3.8
Scale Factor	3.1.4	4.3.9
Gain Stability	3.1.5	4.3.10
Scale Factor Linearity	3.1.6	4.3.11
Output Impedance	3.1.7	4.3.12
Output Ripple and Noise	3.1.8	4.3.14
Drawing Compliance	3.2.1	4.3.1
Insulation Resistance	3.2.2.1	4.3.3
Continuity and DC Resistance	3.2.2.2	4.3.4
Circuit Isolation	3.2.2.3	4.3.5
Diode Function	3.2.2.4	4.3.13

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditons:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.1.2 Inputs. The following inputs are necessary for performance of the tests specified herein:

a. Adjustable DC Supply Voltage: 28.00±0.28 vdc, nominal
33.00±0.33 vdc, enhanced
23.00±0.23 vdc, degraded

b. AC Reference Voltage: 28.00±0.28V rms, 800.0±1.0 cps

c. Adjustable Input Signal Voltage: 0 to 1.5V rms, 800.0±1.0 cps, with 0° ±2° and 180° ±2° phase angles with respective to the reference voltage.

4.2.1.3 Test Connections. Unless otherwise specified, the tests specified herein shall be performed on each assembly section as shown in Figure 1, using the applicable input and output pins as detailed in Table III.

TABLE III

INPUT-OUTPUT PIN CONNECTIONS

ASSEMBLY SECTION	INPUT PINS		OUTPUT PINS	
	Hi	Lo	Hi	Lo
a	3	8	4	13
b	6	8	7	13
c	14	8	12	13
d	11	15	11	22
e	18	19 & 20	21	22

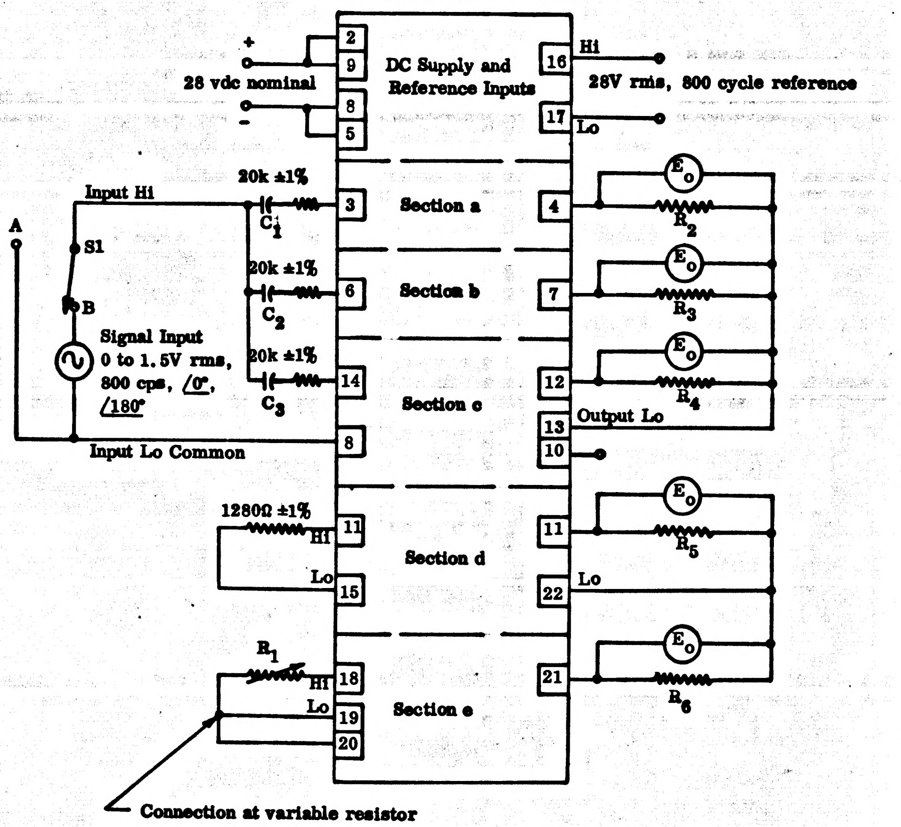
4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically reclassify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and re-examination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007011. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be vibrated with the input test voltage, and output loads and voltages connected and monitored as shown in Figure 1. The assembly shall be mounted in the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the axes shown in Figure 2. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/ 15 sec. The magnitude of vibration shall be 6.0g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency. Previbration output levels shall be set within the range of 2.50±0.25 vdc for assembly sections a, b, c, d and e. During vibration the output voltages shall not deviate by more than ±10 percent of the previbration levels for a period exceeding 1 msec. Any deviation exceeding these requirements shall be cause for rejection of the assembly. After vibration, the assembly shall be examined as specified in 4.3.1.

4.3.3 Insulation Resistance. The dc resistance between all assembly pins and pin 1 shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 microamperes. The insulation resistance shall be ≥ 100 megohms.


+
28 vdc nominal
-
2
9
8
5
DC Supply and Reference Inputs
16
Hi
28V rms, 800 cycle reference
17
Lo
20k ±1%
Input Hi
C_1
3
Section a
4
E_o
R_2
A
S1
20k ±1%
C_2
6
Section b
7
E_o
R_3
B
Signal Input
0 to 1.5V rms, 800 cps, /0°, /180°
20k ±1%
C_3
14
Section c
12
E_o
R_4
Output Lo
13
10
8
Input Lo Common
1280Ω ±1%
Hi
11
Lo
15
Section d
11
Lo
22
E_o
R_5
R_1
Hi
18
Lo
19
20
Section e
21
E_o
R_6
Connection at variable resistor

R_1 = value specified in Table I.

R_2 through R_6 = 1 meg ±1 percent unless otherwise specified.

$C_1 = C_2 = C_3 = 0.5$ μf.

S1 in position B unless otherwise specified.

LY TEST SETUP

ASSEMBLY TEST SETUP
FIGURE 1

4.3.4 Continuity and DC Resistance. The dc resistance between the pins listed in Table II shall be as specified when measured with a low-voltage, resistance measuring device using Method 303 of MIL-STD-202. To assure a good electrical connection when measuring between pin 1 and the chassis, the anodizing may be penetrated on the top of the module.

4.3.5 Circuit Isolation. Verification records shall be examined to verify that the requirement of 3.2.2.3 has been met.

4.3.6 DC Current Drain. With the respective input Hi and Lo pins of assembly sections a, b, and c connected as shown in Figure 1, S1 set to position A, and the reference voltage off, the dc current drain on the 28.0 vdc supply shall be 45.0±4.5 ma.

4.3.7 Reference Input Current. With the respective input Hi and Lo pins of assembly sections a, b, and c connected as shown in Figure 1, S1 set to position A, and the dc supply voltage applied, the current drain on the [illegible] rms, 800 cps reference supply shall be less than 19.0 ma.

4.3.8 Offset Voltages. With [illegible] respective input Hi and Lo pins of assembly sections a, b, and c specified in Table III connected as shown in Figure 1, S1 set to position A, and the operating voltages applied, the voltage at each pair of respective output pins shall be <10 mvdc.

4.3.9 Scale Factor

4.3.9.1 Assembly Sections a, b, and c. With the output of assembly sections a, b, and c adjusted to +2.500±0.005 vdc the input voltage shall be between 1.08 and 1.32V rms.

4.3.9.2 Assembly Section d. With a 1280Ω ±1 percent resistor connected across the input pins of assembly section d, the output voltage shall be +2.500±0.250 vdc.

4.3.9.3 Assembly Section e. With the resistances listed in Table I connected across the input pins of assembly section e (see Figure 1), the respective output voltages shall be as specified in Table I.

4.3.10 Gain Stability. With the inputs to assembly sections a, b, and c adjusted for corresponding outputs of +2.500±0.005 vdc, enhancing or degrading the +28 vdc supply shall not cause the output to deviate by more than ±25 mvdc.

4.3.11 Scale Factor Linearity. With the conditions specified below established for assembly sections a, b, and c, each of six respective assembly section scale factor values shall not deviate from the average of the six values by more than ±4 percent for each respective assembly section.

a. The fixed input level, E_s, determined by adjusting the input to obtain an output of +2.500±0.005 vdc.

b. The input voltage, E_{in}, consecutively adjusted to 0.600 and 0.200 of E_s and the respective outputs measured.

c. The phase of E_s reversed and the outputs measured for inputs of $1.000E_s$, $0.600E_s$, and $0.200E_s$.

d. The offset voltage at the output terminals measured with the respective input Hi and Lo pins connected together as shown in Figure 1 with S1 in position A.

e. The offset voltage algebraically subtracted from the six output measurements.

f. The outputs of 1.000E_s divided by 5, those at 0.600E_s by 3, and those at 0.200E_s by 1.000.

g. The six calculated values averaged and the deviation of each value from the average determined.

4.3.12 Output Impedanse. With the input voltage to assembly sections a, b, and c adjusted for respective outputs of +2.500±0.005 vdc and then a 100k ohm ±1 percent resistor substituted for the 1 megohm load resistor, the output voltage for assembly sections a, b, and c shall not decrease more than 120 mv.

4.3.13 Diode Function. With the output of assembly sections a, b, and c adjusted to +2.50±0.10 vdc, and pins 10 and 13 momentarily connected together, the respective output voltage levels shall not decrease. With the output of assembly sections a, b, and c adjusted to -2.50±0.10 vdc, momentarily connecting pin 10 to pin 13, shall reduce the respective output voltages below -1.0 vdc.

4.3.14 Output Ripple and Noise. With the output of assembly sections a, b, c, and e adjusted to 2.50±0.10 vdc, the ripple and noise voltage at the respective output pins shall be <10 mv pp for assembly sections a, b, c, and <50 mv pp for assembly section e.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

APOLLO G&N Specification
PS6007012 REV A
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A **Release**
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
9/22/66	A	31233	3, 4, 9, 10, 11 RDG/AC	MGM EA	—

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R.W. Kowalski 9 May 66 MIT/IL	G.W. Krier ACSP

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 DC Current Drain. The dc current drain of the assembly shall be 15.0±5.0 ma.

3.1.2 Reference Input Current. The 28V rms, 800 cps, input current shall be less than 30.0 ma.

3.1.3 Offset Voltages. The offset voltages of assembly sections a, b, c, and d shall be ≤10 mvdc. The offset voltage of assembly section e shall be less than 250 mvdc.

3.1.4 Scale Factor. The input voltage for assembly sections a, b, c, and d shall be 21.50±1.75V rms with a phase angle of +5° ±2° for a respective output voltage of 2.500±0.005 vdc. The input voltage for assembly section e shall be 85.0 vdc± 5 vdc and 135.0 vdc ±5 vdc for an output voltage of -2.500±0.005 vdc and +2.500±0.005 vdc respectively. The output voltage of assembly section f shall be a 25V pp minimum, 800 pps square wave, and a 22V pp minimum, 800 pps square wave for a 1 Megohm load and a 2K ohm load respectively.

3.1.5 Gain Stability. The scale factors of assembly sections a, b, c, and d specified in 3.1.4 shall not deviate by more than ±1 percent and the scale factor for section e ±3 percent when the +28 vdc supply is enhanced to +33 vdc or degraded to +23 vdc. The output voltage of assembly section f shall not be less than 18V pp, 800 pps, when the 28 vdc supply voltage is degraded to +23 vdc for an output load of 2K ohms.

3.1.6 Scale Factor Linearity. The scale factor linearity of each assembly section a, b, c, and d shall not deviate by more than 4 percent from the average of 6 individual, respective, assembly scale factors. The scale factor linearity of assembly section e shall not deviate by more than 4 percent from the average of 4 scale factors.

3.1.7 Output Impedance. The output impedance of assembly sections a, b, c, d, and e shall be <5K ohms.

3.1.8 Output Ripple and Noise. The output ripple and noise of assembly sections a, b, c, d, and e, shall be less than 10 mv pp for a respective output of +2.500±0.050 vdc.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007012 and all drawings and engineering data referenced thereon.

3.2.2 Standards of Manufacturing, Manufacturing Process, and Production

3.2.2.1 Insulation Resistance. The dc resistance between all assembly pins and pin 1 shall be ≥100 megohms.

3.2.2.2 Continuity and DC Resistance. The continuity and dc resistance shall be as specified in Table I.

4.3.3 Insulation Resistance. Using test equipment with a test potential of 500 vdc limited to a short circuit current of 6 u amps measure the resistance between pin 1 (Chassis ground) and all other assembly pins connected together. Verify that the insulation resistance is as specified in paragraph 3.2.2.1.

4.3.4 Continuity and DC Resistance. The dc resistance between the pins listed in Table I shall be as specified when measured with a low-voltage, resistance measuring device using Method 303 of Standard MIL-STD-202. To assure a good electrical connection when measuring between pin 1 and the chassis, the anodizing may be penetrated on the top of the module.

4.3.5 Circuit Isolation. Verification records shall be examined to verify that the requirement of 3.2.2.2. has been met.

4.3.6 DC Current Drain. With all the input pins specified in Table II connected together and the reference voltage off, the dc current drain on the 28.0 vdc supply shall be 15.0 ±5.0 ma.

4.3.7 Reference Current Drain. With all of the input pins specified in Table II connected together and the dc supply voltage applied, the current drain on the 28V rms, 800 cps reference supply shall be less than 80.0 ma.

4.3.8 Offset Voltage. With the pins of assembly sections a, b, c, and d specified in Table II connected together and the operating voltages applied, the voltage at each pair of respective output pins shall be ≤10mv dc. With an input voltage of 110.00±0.10 vdc applied to the input pins of assembly section e, as specified in Table II, the voltage at the respective output pins shall be less than 250 mvdc.

4.3.9 Scale Factor. With the outputs of assembly sections a, b, c, and d adjusted to 2.500±0.005 vdc, plus the measured offset voltage, the signal voltage at each corresponding set of input pins shall be between 19.75 and 23.25V rms with a phase angle of +5°±2°. With the output of assembly section e adjusted to -2.500±0.005 vdc, the input voltage shall be between 80.00 and 90.00 vdc. With the output of assembly section e adjusted to +2.500±0.005 vdc, the input voltage shall be between 130.0 and 140.0 vdc. With a 1 Megohm load across the output of assembly section f, the output voltage shall be a 800 pps square wave with a minimum amplitude of 25.0V pp. With a 2K ohm load across the output of assembly section f, the output voltage shall be ≥22.0V pp.

4.3.10 Gain Stability. With the inputs to assembly sections a, b, c, d, and e, adjusted for corresponding outputs of +2.500±0.005vdc, enhancing or degrading the +28 vdc supply shall not cause the outputs of a, b, c, and d to deviate by more than ±25 mvdc and section c shall not deviate by more than ±75 mvdc. Degrading the +28 vdc supply shall not cause the 800 pps square wave output of assembly section f to decrease below 18V pp with a 2KΩ ± 2 percent load.

4.3.11 Scale Factor Linearity.

4.3.11.1 Assembly sections a, b, c, and d. With the conditions specified below established for assembly sections a, b, c, and d, each of six calculated scale factor values shall not deviate from the average of the six values by more than ±4 percent.

4.3.13 Diode Function. With the output of assembly section e adjusted for +2.50±0.10 vdc, the output voltage shall remain constant when pins 31 and 8 are momentarily connected together. With the output of assembly section e adjusted to -2.500±0.010 vdc, repeating the above test shall cause the output to decrease below -1.0 vdc.

4.3.14 Output Ripple and Noise. With the output of assembly sections a, b, c, d, and e at 2.50±0.05 vdc, the ripple and noise voltage at the respective output pins shall be <10 mv pp.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. - None.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		INITIAL RELEASE CLASS A PER TDRR 28540.		16 MAR 66	
—		REPLACED BY CONFIGURATION DWG REV C PER TDRR —			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SELECT PER APPLICABLE P.S. FROM APPROPRIATE CHART.
3. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
4. THIS IS AN INCOMPLETE DRAWING.

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
SEE NOTE 3				1			1006777-31	CAPACITOR
				1			1010279-104	
				2			1006755-132	
				1			1006755-130	
				1			1006755-79	
				1			1006755-33	CAPACITOR
				1			1010357-1	TRANSISTOR
				1			1010342	TRANSISTOR
				2			1010259-000	SEMICONDUCTOR DEVISE, DIODE
				3			1010385	
				2			1010372-12	SEMICONDUCTOR DEVISE, DIODE
				2			1010274	TRANSFORMER
				2			1010710	TRANSFORMER
				2			1010365	TRANSFORMER
				9			1010837-001	SEMICONDUCTOR DEVICE, DIODE
				9			1010397-1	TRANSISTOR
				12			1010367	TRANSISTOR
				4			1008842	TRANSFORMER
				4			1010323	TRANSFORMER
SEE NOTE 3				4			1008832	TRANSFORMER
SEE NOTE 2&3				4			1010410-19	CAPACITOR
							1010410-18	
							1010410-17	
							1010410-16	
							1010410-15	
							1010410-14	
							1010410-13	
							1010410-12	
							1010410-11	
							1010410-10	
							1010410-9	
							1010410-8	
							1010410-7	
							1010410-6	
							1010410-5	
							1010410-4	
							1010410-3	
							1010410-2	
SEE NOTE 2&3							1010410-1	CAPACITOR

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
SEE NOTE 3				10			1010279-16	CAPACITOR
				4			1010410-19	
				1			1006755-89	
				7			1006755-69	
				8			1006755-34	
SEE NOTE 3				5			1006755-31	CAPACITOR
SEE NOTE 2&3				4			1010311-314	RESISTOR
							1010311-313	
							1010311-312	
							1010311-311	
							1010311-310	
							1010311-309	
							1010311-308	
							1010311-307	
							1010311-306	
							1010311-305	
							1010311-304	
							1010311-303	
							1010311-302	
							1010311-301	
							1010311-300	
							1010311-299	
							1010311-298	
							1010311-297	
SEE NOTE 2&3							1010311-296	
SEE NOTE 3				4			1010364-707	
				12			1010364-769	
				4			1010311-291	
				4			1010311-120	
				4			1006750-72	
				5			1006750-65	
				7			1006750-56	
				10			1006750-36	
SEE NOTE 3				9			1006750-25	RESISTOR

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS9-497

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN L. Litzau 25 FEB. 1966 DATE
CHECKED C. Pizzida 2 MAR 66
APPROVAL D. Van Zyland 2 MAR 66
APPROVAL
NASA APPROVAL A. C. METCHER
MIT APPROVAL W. Kupfer 3 Mar 66

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HOUSTON, TEXAS

RADAR RESOLVERS AND 120V
PIPA SUPPLY SIGNAL
CONDITIONER ASSEMBLY

CODE IDENT NO. 80230
SIZE D
6007012
SCALE —
SHEET 1 OF 2

B 6007012

SEE NOTE 3				1			1010377-54	RESISTOR	
				1			1010377-20		
				1			1010368-128		
				1			1010368-121		
				1			1010368-105		
				1			1006750-80		
				1			1006750-63		
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				2			1006750-41		
				1			1006750-38		
				2			1006750-32		
				1			1006750-8		
SEE NOTE 3				4			1006750-1		
SEE NOTES 2&3				1			1006750-44		
							-43		
							-42		
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							-2		
							1006750-1		
							1006750-80		
							-79		
							-78		
							-77		
							-76		
							-75		
SEE NOTES 2&3							1006750-74	RESISTOR	
				011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS			

MIL 10770-K

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		INITIAL RELEASE CLASS A PER TDRR 28540		16 MAR 66	
—		REPLACED BY CONFIGURATION DWG REV C PER TDRR			

SEE NOTES 2&3				1			1006750-73	RESISTOR	
							-72		
							-71		
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							-38		
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							-35		
							-34		
							-33		
SEE NOTES 2&3							1006750-32	RESISTOR	
				011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION	
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS			

(A1) THIS SHEET ADDED

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APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − DECIMALS + — − ANGLES + — −
DO NOT SCALE THIS DRAWING
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DRAWN R. Kirling DATE 8 MAR 66
CHECKED Zeiler 11 MAR 66
APPROVAL R.Osberg 11 MAR 66
APPROVAL
NASA APPROVAL A. C. METZGER
MIT APPROVAL 3 May 66

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RADAR RESOLVERS AND 120 V
PIPA SUPPLY SIGNAL
CONDITIONER ASSEMBLY

CODE IDENT NO. 80230
SIZE D
6007012
SCALE —
SHEET 2 OF 2

APOLLO G&N Specification
PS6007012 REV B
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
9/22/66	A	31233	3, 4, 9, 10, 11 RDG/AC	MGM EA	—
12/28/66	B	32440	6 RDG/RC	JP MGM	—

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	RWKowalski 9 May 66 MIT/IL	G W Krier ACSP

4.2.1.3 Test Connections. Unless otherwise specified, the tests specified herein shall be performed on each assembly section as shown in Figure 1, using the applicable input and output pins as detailed in Table II.

TABLE II

INPUT OUTPUT PIN CONNECTIONS

ASSEMBLY SECTION	INPUT PINS		OUTPUT PINS	
	Hi	Lo	Hi	Lo
a	15	10	37	36
b	19	24	40	36
c	16	11	13	36
d	20	23	22	36
e	30	32	7	31
f	—	—	2	4

4.2.2 Nonconforming Units. Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

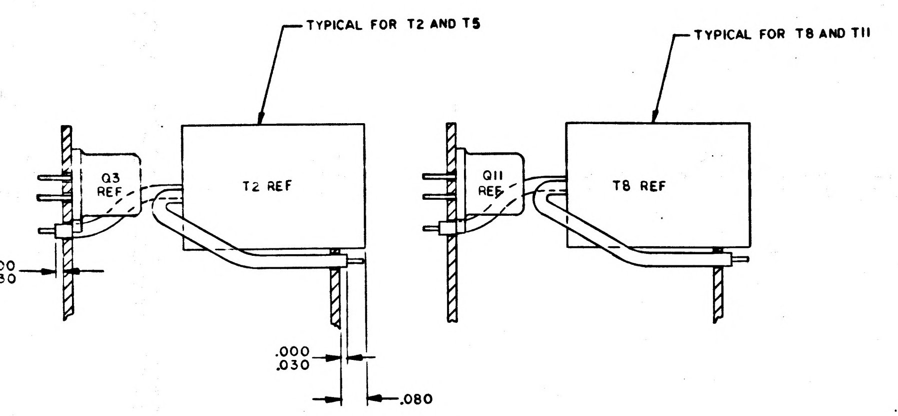
4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007012. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. The assembly shall be vibrated with the input test voltage, and output loads and voltages connected and monitored as shown in Figure 1. The assembly shall be mounted in the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the axes shown in Figure 2. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 6.0g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency. Previbration output levels shall be set within the range of 2.00±0.60 vdc for assembly sections a, b, c, d, and e. A 24.0±4.0V pp, 800 pps, square wave shall be present at the output pins of assembly section f. During vibration the output voltages shall not deviate by more than ±10 percent of the previbration levels for a period greater than 1 msec. Any deviation exceeding this requirement shall be cause for rejection of the assembly. After vibration, the assembly shall be examined as specified in 4.3.1.

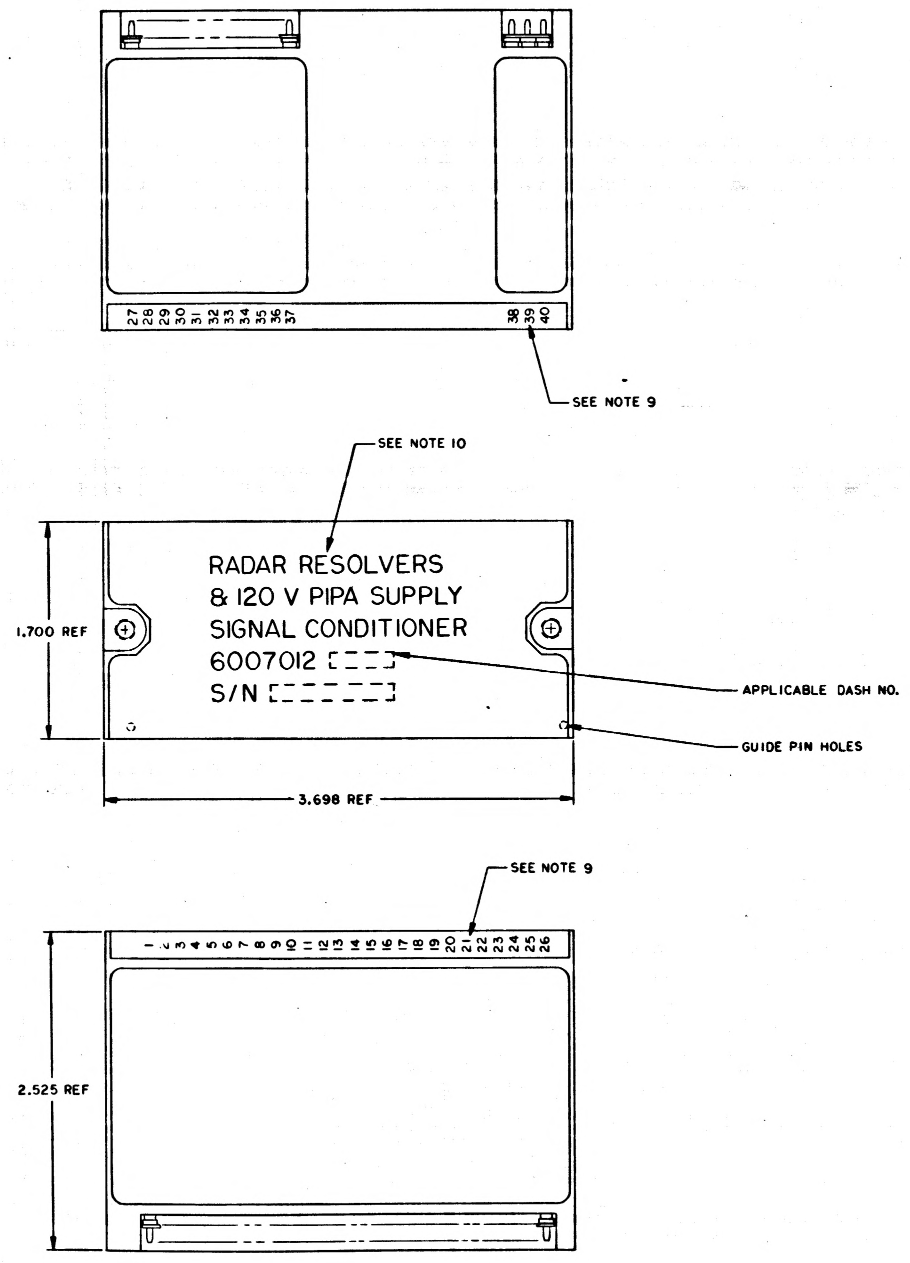
6007012	C

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	4/3/66	WK


TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.080

PARTIAL SECTION J-J


27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012 -
S/N
APPLICABLE DASH NO.
GUIDE PIN HOLES
1.700 REF
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW

SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
5	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-134	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-12	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

6007013	
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
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CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED 5 Apr 66
APPROVAL 5 Apr 66
APPROVAL 5 Apr '66
NASA APPROVAL A. C. METZGER
MIT APPROVAL 5 Apr 66

MANNED SPACECRAFT CENTER
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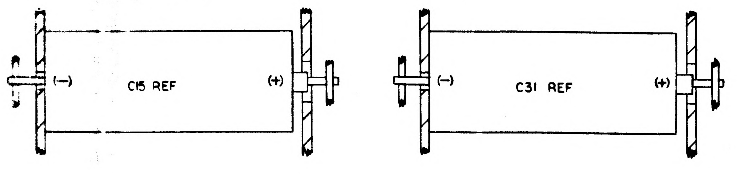
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2

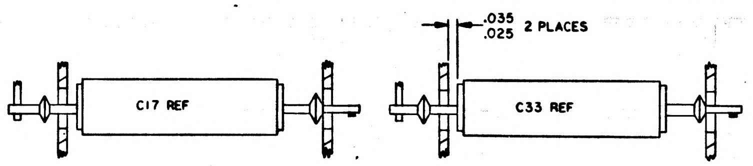
6007012 C

MASTER



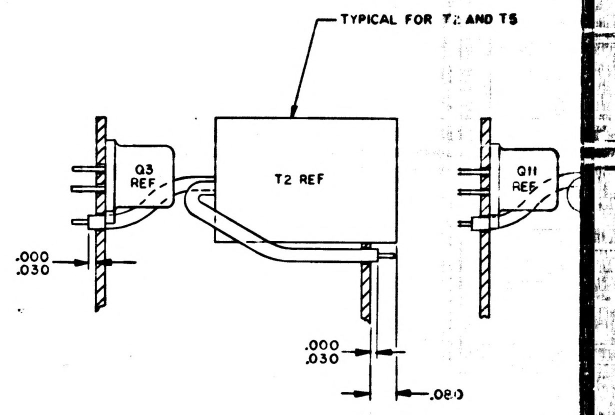
(−)
C15 REF
(+)
(−)
C31 REF
(+)

PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31



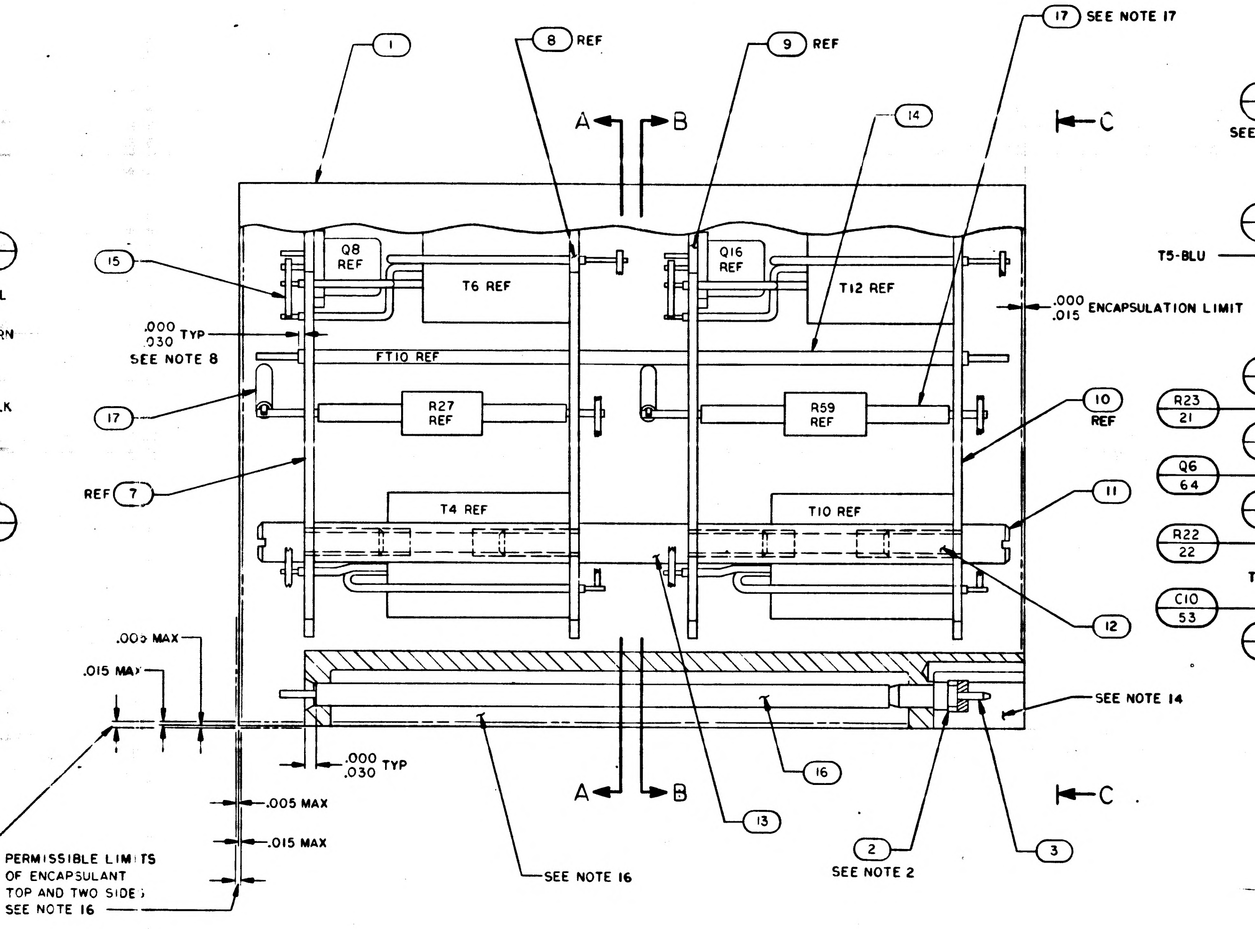
C17 REF
.035
.025
2 PLACES
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43

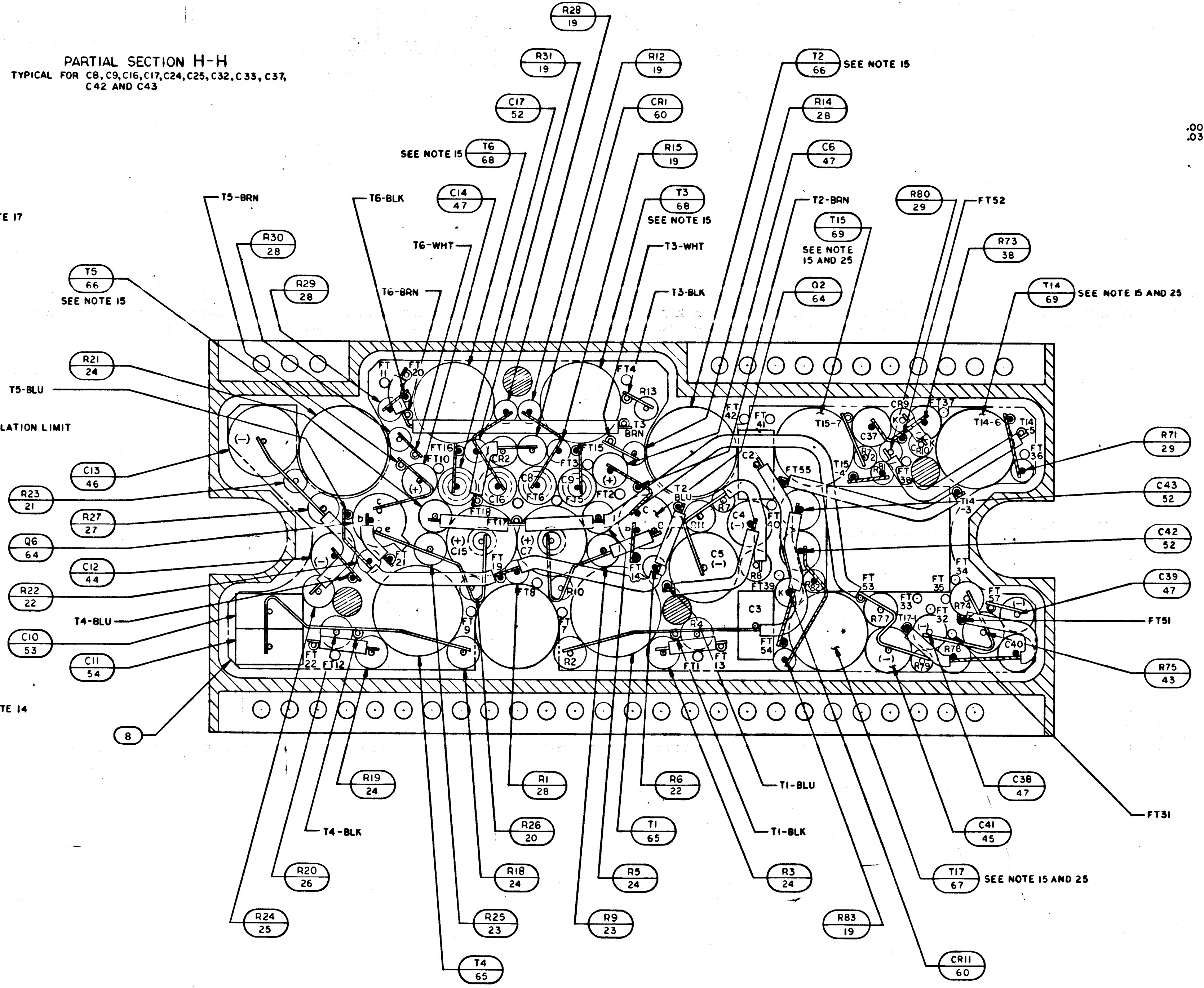


TYPICAL FOR T2 AND T5
Q3 REF
T2 REF
Q11 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J



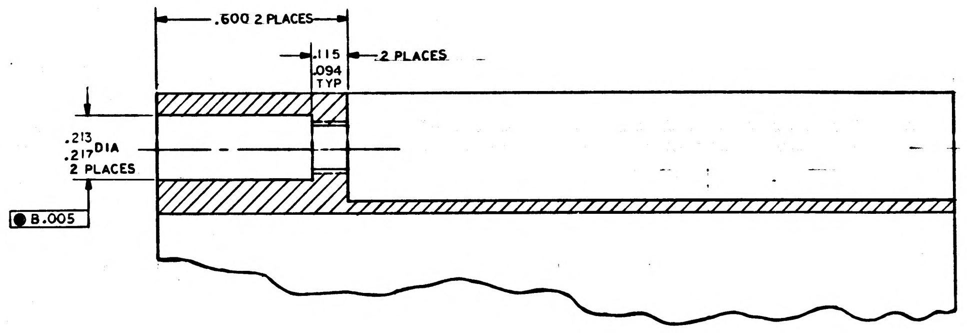
1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
15
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.015 ENCAPSULATION LIMIT
.000
.030 TYP
SEE NOTE 8
FT10 REF
R27 REF
R59 REF
17
10 REF
REF 7
T4 REF
T10 REF
11
12
.005 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX
SEE NOTE 14
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16
SEE NOTE 16
16
13
2
SEE NOTE 2
3



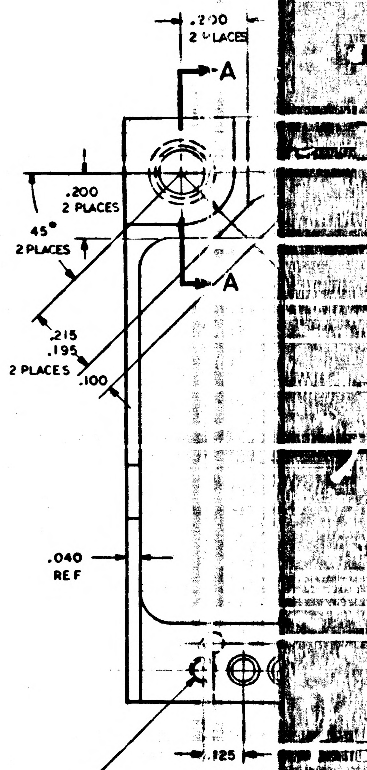
R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
CR1 60
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
T2-BRN
R80 29
FT52
R30 28
T6-WHT
T3-WHT
T15 69 SEE NOTE 15 AND 25
R73 38
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
T5 66 SEE NOTE 15
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
T4-BLU
FT51
C10 53
C11 54
R75 43
8
R19 24
T4-BLK
R1 28
R6 22
T1-BLU
T1-BLK
R26 20
T1 65
C38 47
FT31
C41 45
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65
FT11
FT20
FT4
R13
T3 BRN
FT42
FT41
T15-7
CR9
FT37
T14-6
T14-5
FT36
C37
R81
R82
R72
C40
FT38
FT16
FT10
CR2
C16
C8
C9
FT6
FT3
FT15
FT18
FT17
FT2
T2 BLU
C2
FT55
T15-4
T14-3
C15
FT19
C7
FT21
FT9
FT8
R10
FT7
FT14
R11
C4
FT40
C5
FT39
R8
R2
R4
FT1
FT13
C3
FT54
FT53
FT33
FT35
FT34
FT32
FT57
R77
T17-1
R74
R78
R79
FT22
FT12

SECTION A-A

[illegible]


.600 2 PLACES
.115
.094
TYP
2 PLACES
.213
.217
DIA
2 PLACES
● B.005

PARTIAL SECTION A-A

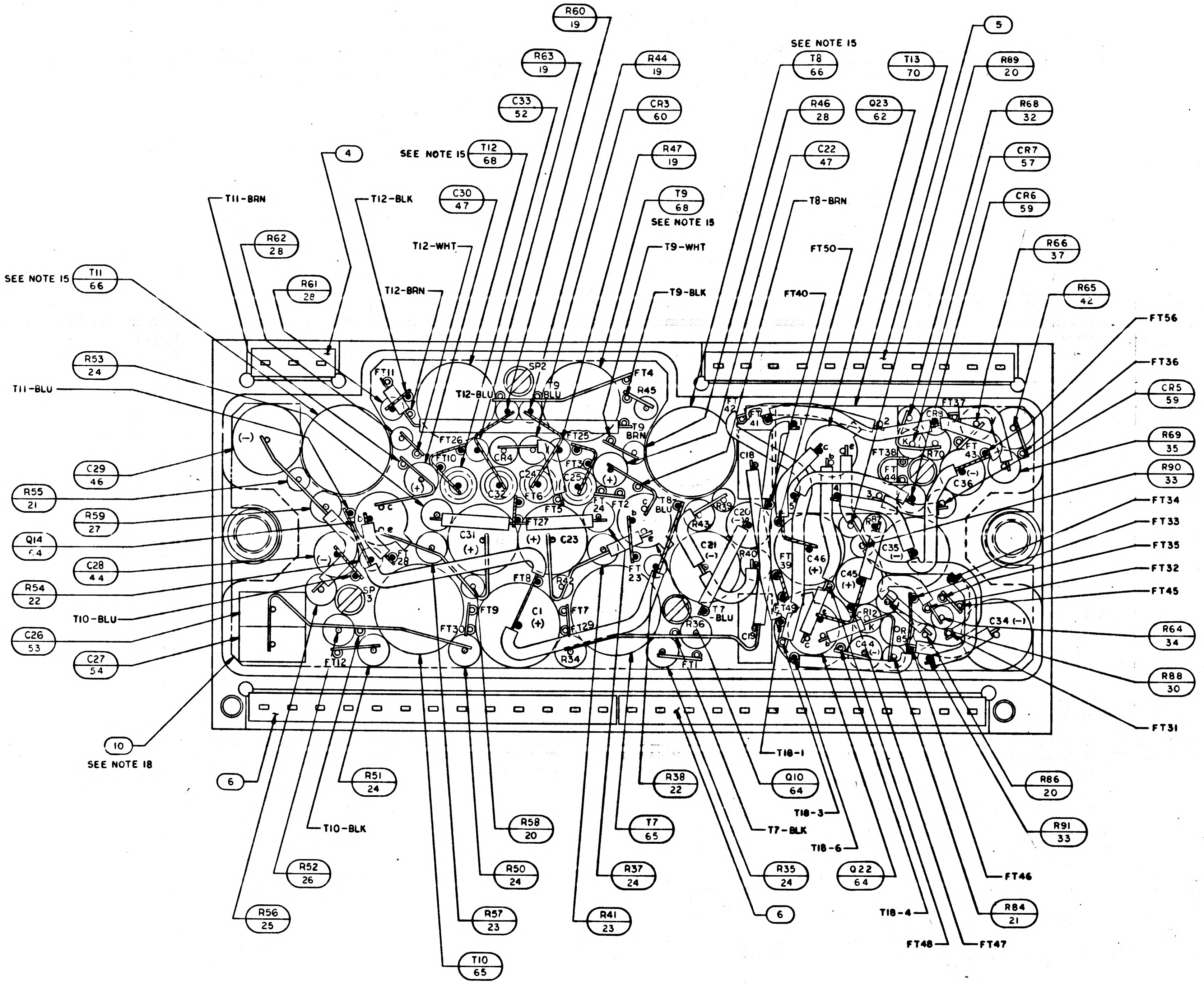

.200
2 PLACES
A
.200
2 PLACES
45°
2 PLACES
.215
.195
2 PLACES
.100
A
.040
REF
.125

NO. 2 (.086)-56 UNC-2B THRU
SEE NOTE 7

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED $\sqrt{125}$ ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040, DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. PER ND1002019

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/13/66	WK



R60 19
R63 19
R44 19
C33 52
CR3 60
SEE NOTE 15 T12 68
4
R47 19
C30 47
T9 68
SEE NOTE 15
T11-BRN
T12-BLK
R62 28
T12-WHT
T9-WHT
R61 28
T12-BRN
T9-BLK
SEE NOTE 15 T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R41 23
R37 24
T7 65
R38 22
SEE NOTE 15
T8 66
R46 28
C22 47
T8-BRN
FT50
FT40
T13 70
Q23 62
5
R89 20
R68 32
CR7 57
CR6 59
R66 37
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R86 20
R91 33
FT46
R84 21
FT47
FT48
T18-4
Q22 64
T18-6
R35 24
6
T18-3
T7-BLK
Q10 64
T18-1
FT4
R45
FT11
SP2
T12-BLU
FT26
FT10
CR4
C24
C25
FT25
FT5
FT6
FT27
C31
C23
FT8
R42
C1
FT7
FT29
FT9
FT30
FT12
SP3
R34
R36
FT1
T7 BLU
T8 BLU
T9 BRN
R43
R39
C21
C20
C18
C19
R40
FT39
FT49
C46
C45
C44
C35
C36
C34
FT37
FT38
FT43
FT44
CR9
R70
R12
CR8
(+)
(-)

VIEW C-C

EW SHOWN FOR REFERENCE ONLY

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers 24-3-66
CHECKED 4 Apr 66
APPROVED 5 Apr 66
APPROVED 5 Apr '66
APPROVED MIT
APPROVED MSC G. METZGER
DATE

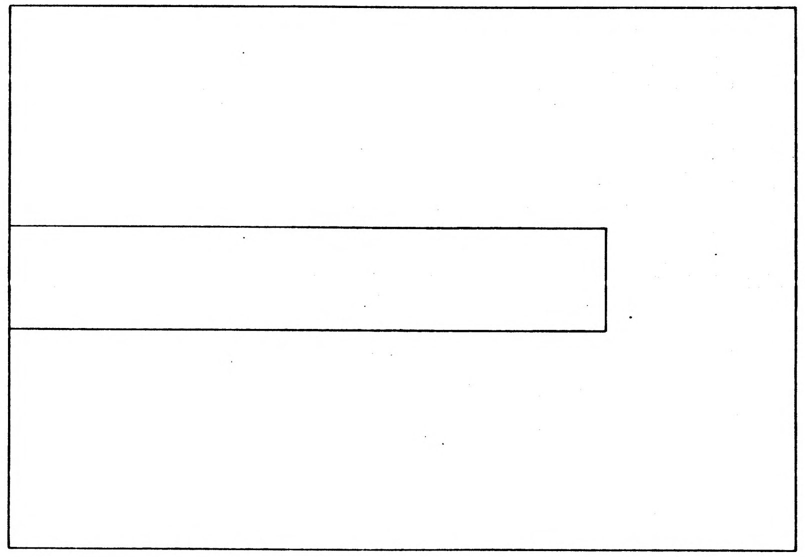
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS & 120 V PIPA SUPPLY SIGNAL CONDITIONER

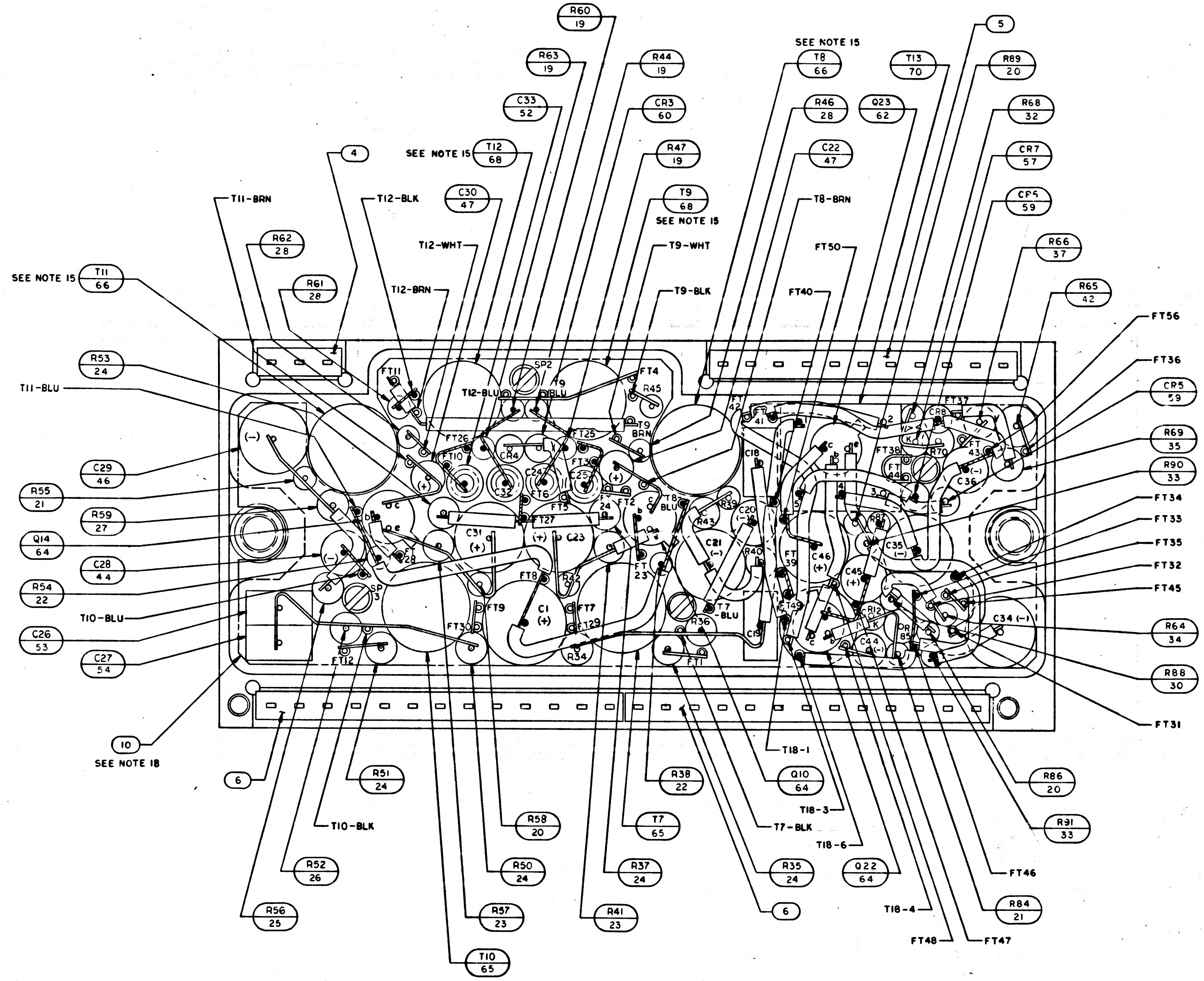
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007012
SCALE 5/1
SHEET 2 OF 2

SYM	ZONE	DESCRIPTION	DR	CHK	
REVISIONS					
C		REPLACES WORD DWG REV B PER TDRR			

15
3
-YEL
-GRN
5
-BLK
9
13
54



VIEW SHOWN FOR REFERENCE ONLY



R60 19
R63 19
R44 19
C33 52
CR3 60
SEE NOTE 15
T12 68
R47 19
4
C30 47
T9 68
SEE NOTE 15
T11-BRN
T12-BLK
R62 28
T12-WHT
T9-WHT
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
SEE NOTE 15
T8 66
R46 28
C22 47
T8-BRN
FT50
FT40
T13 70
Q23 62
5
R89 20
R68 32
CR7 57
CR5 59
R66 37
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R58 20
R52 26
R50 24
R56 25
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
Q10 64
T18-1
T18-3
T7-BLK
T18-6
R35 24
6
Q22 64
T18-4
FT48
FT47
FT46
R84 21
R86 20
R91 33
FT11
SP2
FT4
R45
T9 BLU
T12-BLU
FT26
FT10
CR4
C32
C24
T6
FT25
C25
FT3
T9 BRN
FT2
T8 BLU
R43
R39
C20
C18
FT42
FT41
CR8
FT37
FT38
R70
FT43
C36
R87
C35
C31
T27
C23
FT24
C21
R40
FT39
C46
C45
R12
C44
R85
C34
FT8
R42
FT23
FT9
C1
FT17
FT29
FT49
FT30
R34
FT12
SP3
FT28
R36
T7-BLU
FT1
C19

VIEW C-C

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS			

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

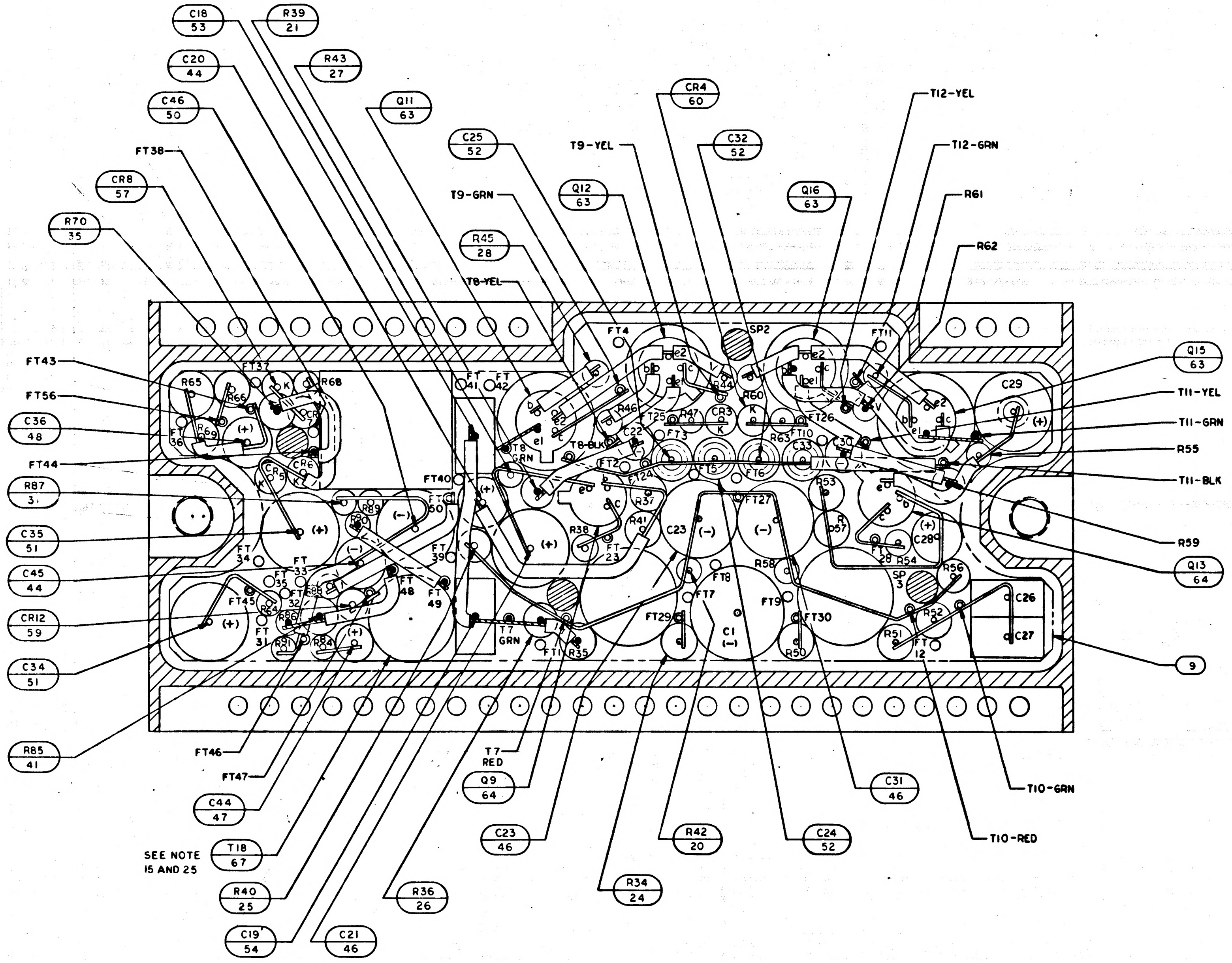
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Ed. Powers 24-3-66
CHECKED
APPROVED 5 APR 66
APPROVED
APPROVED MIT
APPROVED MSC R. C. METZLER

RADAR RESOLVERS & 120 V PIPA SUPPLY SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007012
SCALE 5/1
DATE
SHEET

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


C18 53
R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
C25 52
CR4 60
T9-YEL
C32 52
T12-YEL
T12-GRN
T9-GRN
Q12 63
Q16 63
R61
CR8 57
R70 35
R45 28
R62
T8-YEL
FT43
FT56
C36 48
FT44
R87 3
C35 51
C45 44
CR12 59
C34 51
R85 41
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT46
FT47
C44 47
SEE NOTE 15 AND 25
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-GRN
T10-RED
SP2
FT4
C29
C26
C27
C1
C23
C28
R65
R68
FT37
R66
FT 41
FT 42
FT40
FT 50
FT 39
FT 48
FT 49
FT 34
FT 35
FT 33
FT 32
FT 31
FT45
T7 GRN
FT1
R35
T8 GRN
T8-BLK
R46
FT25
R47
CR3
R60
FT26
R63
FT10
C33
C30
FT11
FT3
FT2
FT24
FT6
FT27
R37
R38
R41
FT 23
R58
FT18
FT7
FT9
FT29
FT30
R50
R53
R57
R54
R56
SP 3
R52
R51
FT 12
FT 28
C22
R44
R89
(+)
(−)

SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

APOLLO G&N Specification
PS6007012 REV C
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓐ 9/22/66	A	31233	3, 4, 9, 10, 11 RDC/AC	MGM EA	—
Ⓜ 12/28/66	B	32440	6 RDC/AC	JP MGM	--
2/3/67	C	32907	3 and 9	MGM EA	--

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R. Kowalski 9 May 66 MIT/IL	ACSP

APOLLO G&N Specification
PS6007012 REV C
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓐ 9/22/66	A	31233	3, 4, 9, 10, 11 RDC/AC	MGM EA	—
Ⓜ 12/28/66	B	32440	6 RDC/AC	JP MGM	--
2/3/67	C	32907	3 and 9	MGM EA	--

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	9 May 66 MIT/IL	ACSP

4.3.3 Insulation Resistance. Using test equipment with a test potential of 500 vdc limited to a short circuit current of 6 u amps measure the resistance between pin 1 (Chassis ground) and all other assembly pins connected together. Verify that the insulation resistance is as specified in paragraph 3.2.2.1.

4.3.4 Continuity and DC Resistance. The dc resistance between the pins listed in Table I shall be as specified when measured with a low-voltage, resistance measuring device using Method 303 of Standard MIL-STD-202. To assure a good electrical connection when measuring between pin 1 and the chassis, the anodizing may be penetrated on the top of the module.

4.3.5 Circuit Isolation. Verification records shall be examined to verify that the requirement of 3.2.2.2. has been met.

4.3.6 DC Current Drain. With all the input pins specified in Table II connected together and the reference voltage off, the dc current drain on the 28.0 vdc supply shall be 15.0 ±5.0 ma.

4.3.7 Reference Current Drain. With all of the input pins specified in Table II connected together and the dc supply voltage applied, the current drain on the 28V rms, 800 cps reference supply shall be less than 30.0 ma.

4.3.8 Offset Voltage. With the pins of assembly sections a, b, c, and d specified in Table II connected together and the operating voltages applied, the voltage at each pair of respective output pins shall be ≤10mv dc. With an input voltage of 110.00±0.10 vdc applied to the input pins of assembly section e, as specified in Table II, the voltage at the respective output pins shall be less than 250 mvdc..

4.3.9 Scale Factor. With the outputs of assembly sections a, b, c, and d adjusted to 2.500±0.005 vdc, plus the measured offset voltage, the signal voltage at each corresponding set of input pins shall be between 19.35 and 23.65V rms with a phase angle of +5°±2°. With the output of assembly section e adjusted to -2.500±0.005 vdc, the input voltage shall be between 80.00 and 90.00 vdc. With the output of assembly section e adjusted to +2.500±0.005 vdc, the input voltage shall be between 130.0 and 140.0 vdc. With a 1 Megohm load across the output of assembly section f, the output voltage shall be a 800 pps square wave with a minimum amplitude of 25.0V pp. With a 2K ohm load across the output of assembly section f, the output voltage shall be ≥22.0V pp.

4.3.10 Gain Stability. With the inputs to assembly sections a, b, c, d, and e, adjusted for corresponding outputs of +2.500±0.005vdc, enhancing or degrading the +28 vdc supply shall not cause the outputs of a, b, c, and d to deviate by more than ±25 mvdc and section c shall not deviate by more than ±75 mvdc. Degrading the +28 vdc supply shall not cause the 800 pps square wave output of assembly section f to decrease below 18V pp with a 2KΩ±2 percent load.

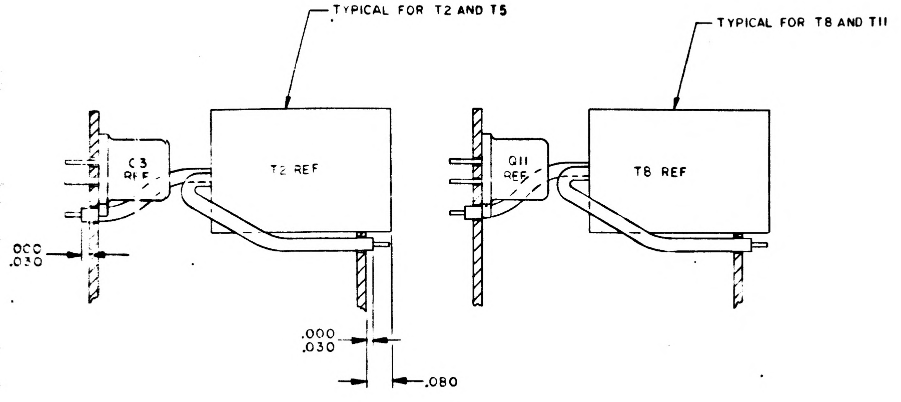
4.3.11 Scale Factor Linearity.

4.3.11.1 Assembly sections a, b, c, and d. With the conditions specified below established for assembly sections a, b, c, and d, each of six calculated scale factor values shall not deviate from the average of the six values by more than ±4 percent.

6007012	D

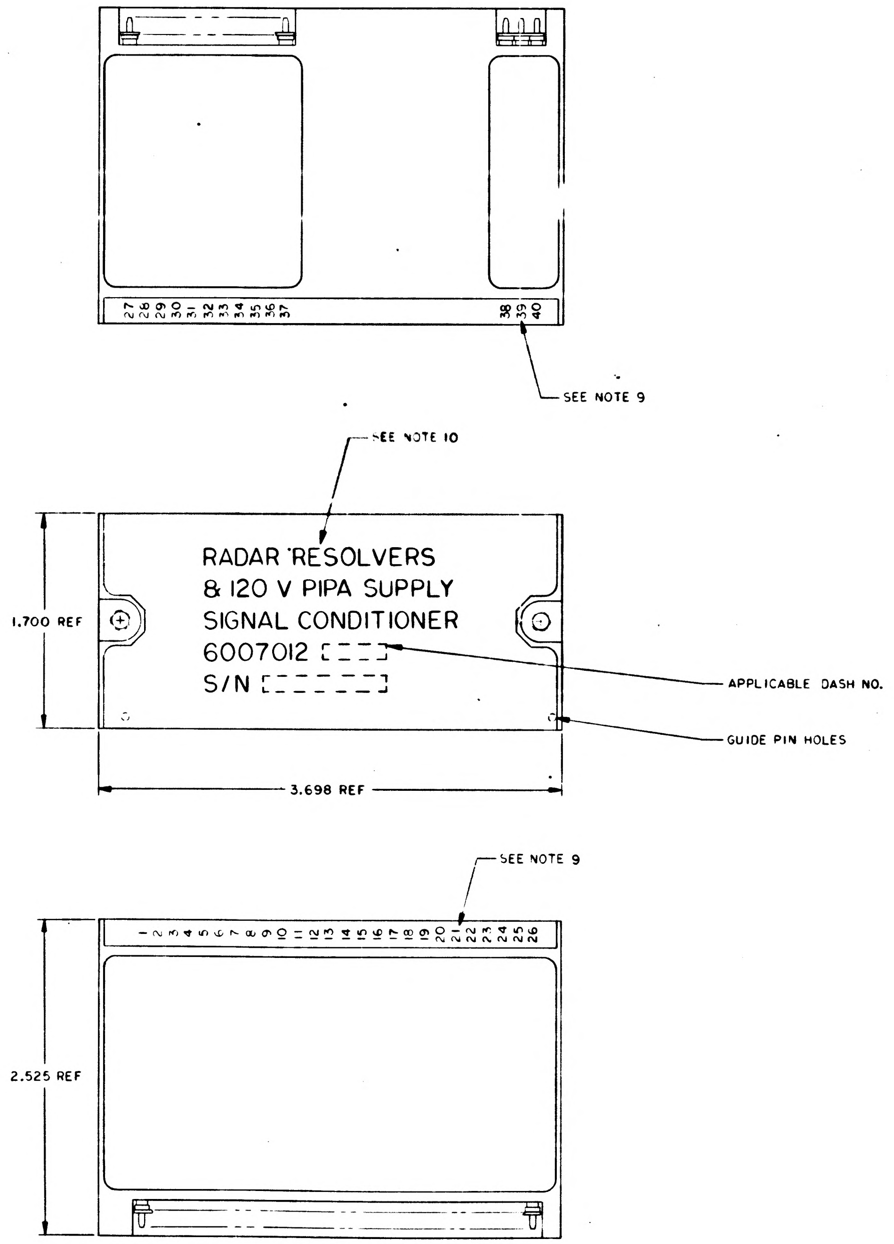
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	9/3/66	WK
D	REVISED PER TDRR 29921	13-JUL-66	B.



TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
C3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J



27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012
S/N
1.700 REF
APPLICABLE DASH NO.
GUIDE PIN HOLES
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
5	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-134	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRIC	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-12	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1
-011	LIST OF MATERIALS		

6007013	
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED
APPROVAL 5 APR 66
APPROVAL 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

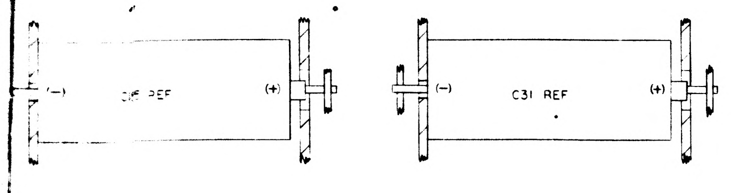
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO 80230
SIZE J
NASA DRAWING NO 6007012
SCALE 5/1
WT
SHEET 1 OF 2

6007012	D

4H.

376007012



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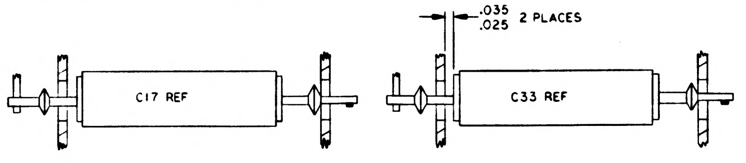
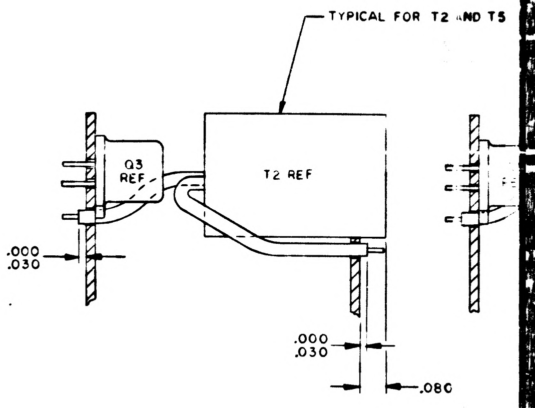
C? REF
(+)
(−)
C31 REF
(+)

PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31



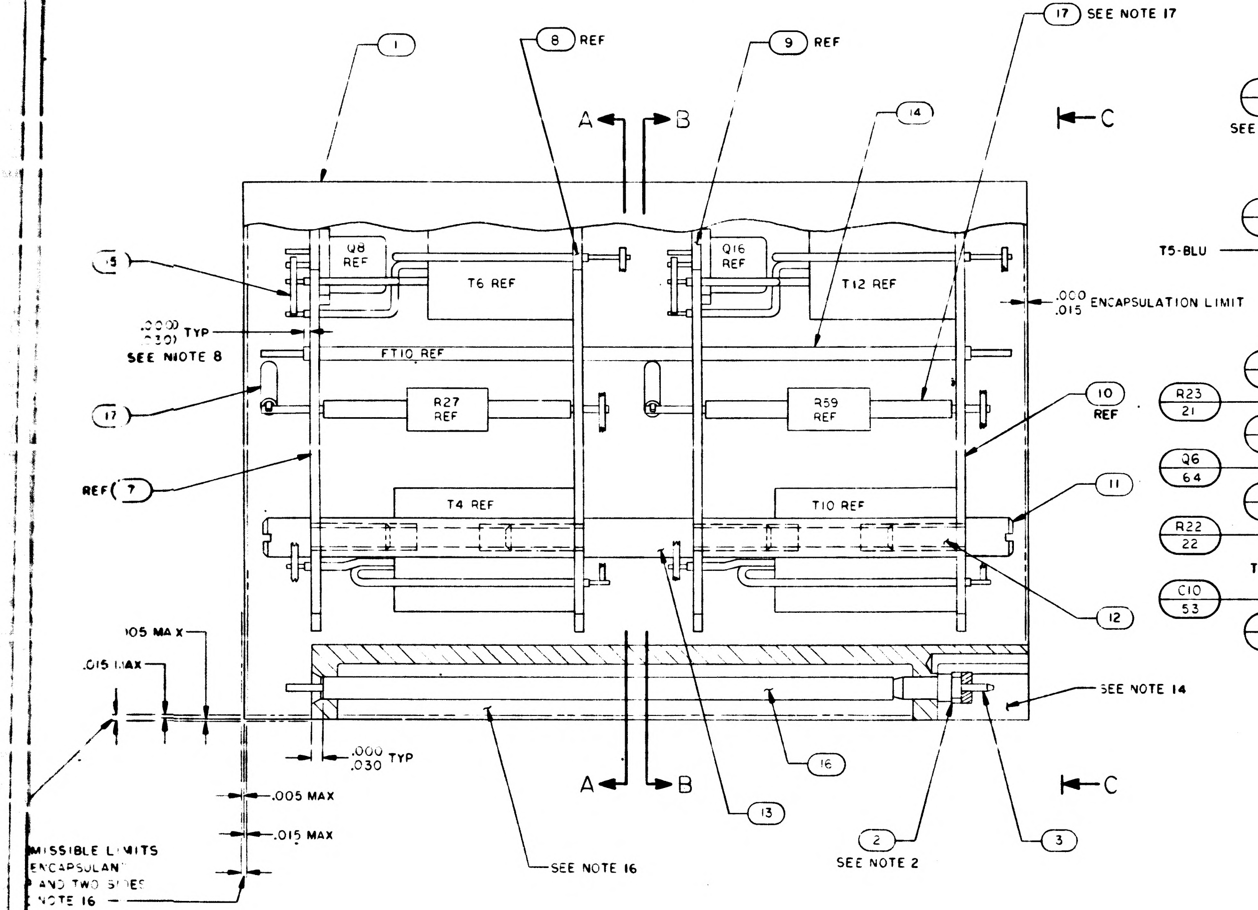
.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43

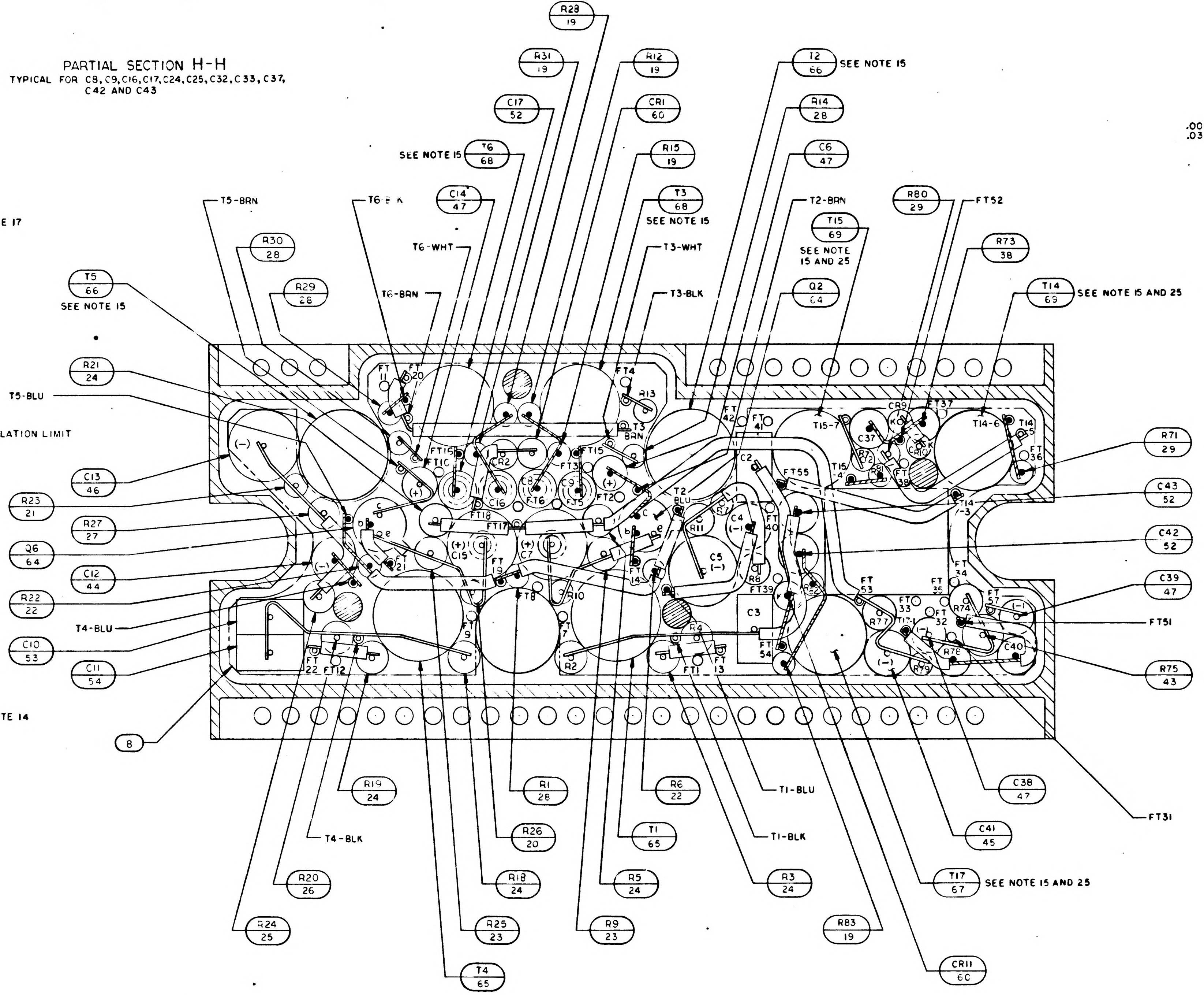


TYPICAL FOR T2 AND T5
Q3 REF
T2 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-



1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
15
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.030 TYP
SEE NOTE 8
FT10 REF
.000
.015 ENCAPSULATION LIMIT
17
R27 REF
R59 REF
10 REF
REF 7
T4 REF
T10 REF
11
12
.005 MAX
.015 MAX
.000
.030 TYP
SEE NOTE 14
A
B
C
16
13
2
SEE NOTE 2
3
.005 MAX
.015 MAX
MISSIBLE LIMITS
ENCAPSULAN
AND TWO SIDES
NOTE 16
SEE NOTE 16

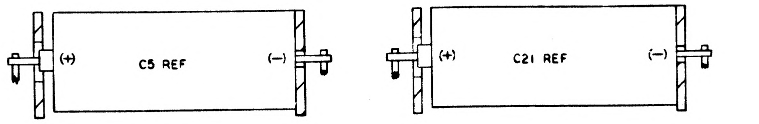


R28 19
R31 19
R12 19
12 66 SEE NOTE 15
C17 52
CR1 60
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
T2-BRN
R80 29
FT52
T15 69 SEE NOTE 15 AND 25
R73 38
R30 28
T6-WHT
T3-WHT
T5 66 SEE NOTE 15
R29 26
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
C13 46
R23 21
R27 27
Q6 64
C12 44
R22 22
T4-BLU
C10 53
C11 54
8
R71 29
C43 52
C42 52
C39 47
FT51
R75 43
FT 11
FT 20
FT4
R13
T3 BRN
FT 42
FT 41
T15-7
CR9
FT37
C37
T14-6
T14-5
FT36
FT16
FT10
CR2
FT3
FT15
C16
FT6
FT5
FT2
T2 BLU
C2
FT55
T15-4
FT38
T14-3
FT18
FT17
C15
C7
C4
FT 40
R11
C5
R6
FT39
FT8
R10
C3
FT 53
FT 33
FT 35
FT 34
FT 32
R77
R74
R76
R79
C40
FT 22
FT12
FT 9
R2
R4
FT1
FT 13
FT 54
R19 24
T4-BLK
R1 28
R26 20
R6 22
T1 65
T1-BLU
T1-BLK
C38 47
C41 45
FT31
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65

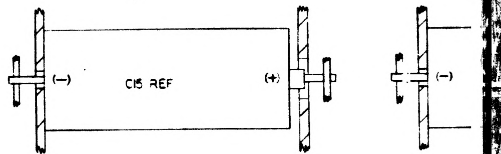
SECTION A-A

2/6007012

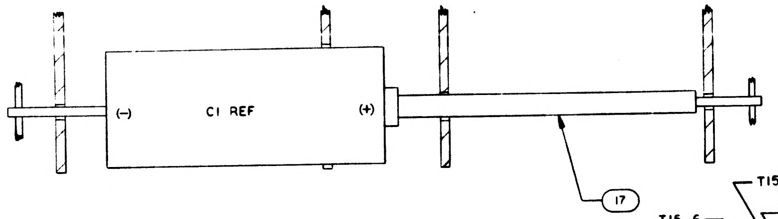
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO


(+)
C5 REF
(−)
(+)
C21 REF
(−)

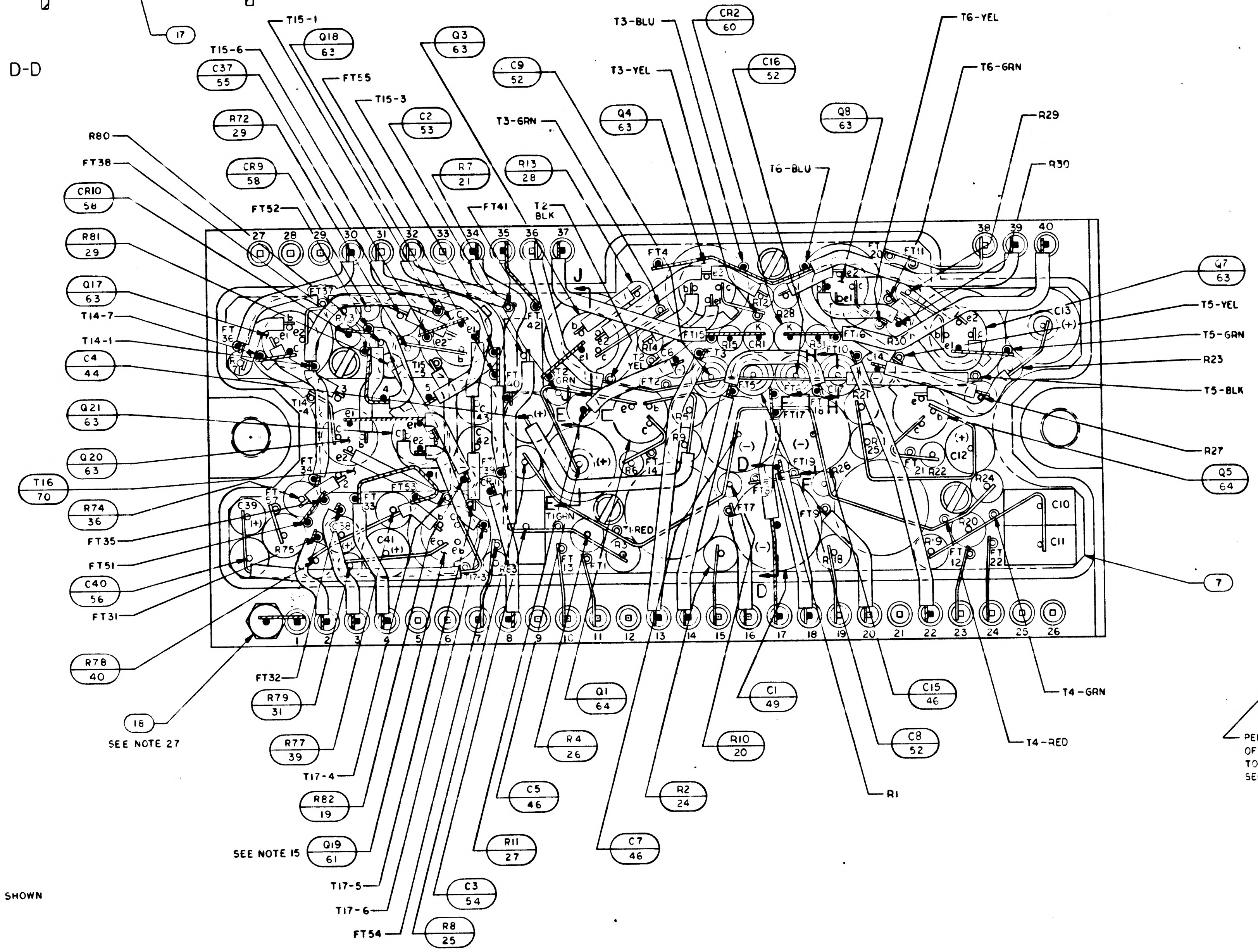
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29

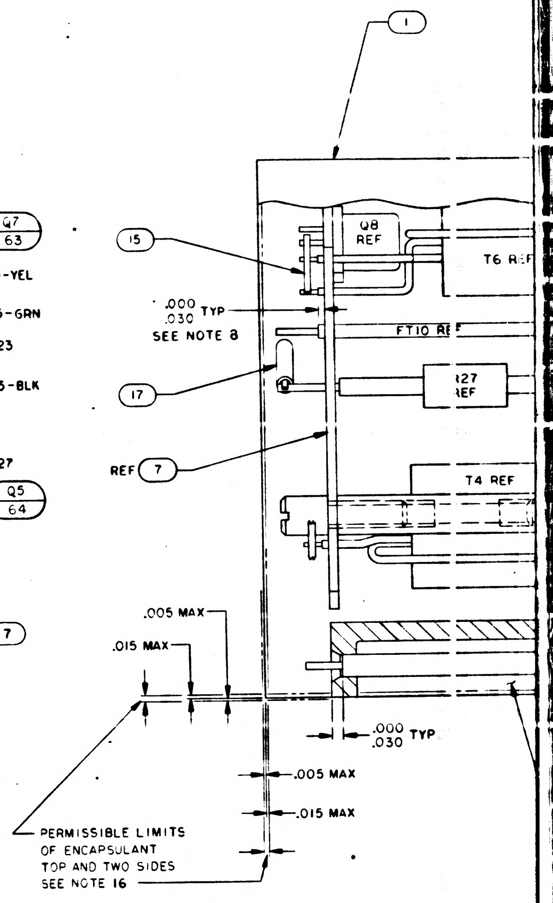


PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C3



PARTIAL SECTION D-D


T15-1
T15-6
Q18 63
Q3 63
C37 55
FT55
T15-3
C9 52
T3-BLU
CR2 60
T6-YEL
T3-YEL
C16 52
T6-GRN
C2 53
R72 29
T3-GRN
Q4 63
Q8 63
R29
R80
CR9 58
R7 21
R13 28
T6-BLU
R30
FT38
FT52
FT41
T2 BLK
CR10 58
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
C10
C11
C13
C12
C39
C41
J
H
E
F
D
27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
FT32
R79 31
R77 39
T17-4
R82 19
Q19 61
SEE NOTE 15
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
R10 20
C1 49
C8 52
C15 46
R1
T4-RED
T4-GRN
18
SEE NOTE 27

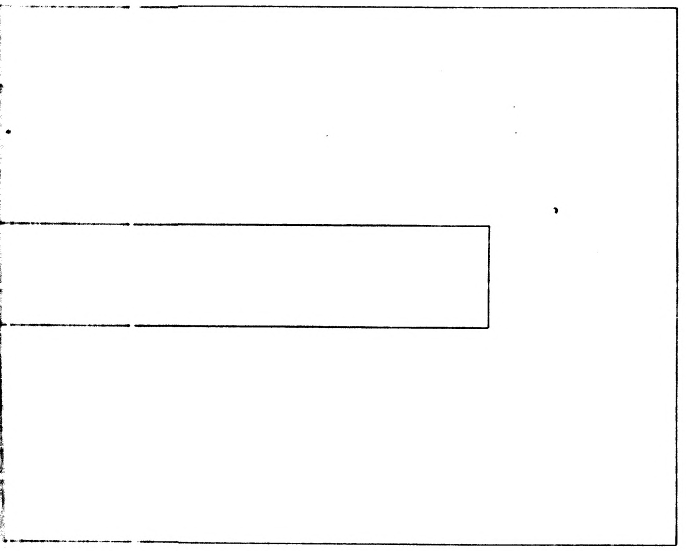

1
15
Q8 REF
T6 REF
.000 .030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000 .030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16

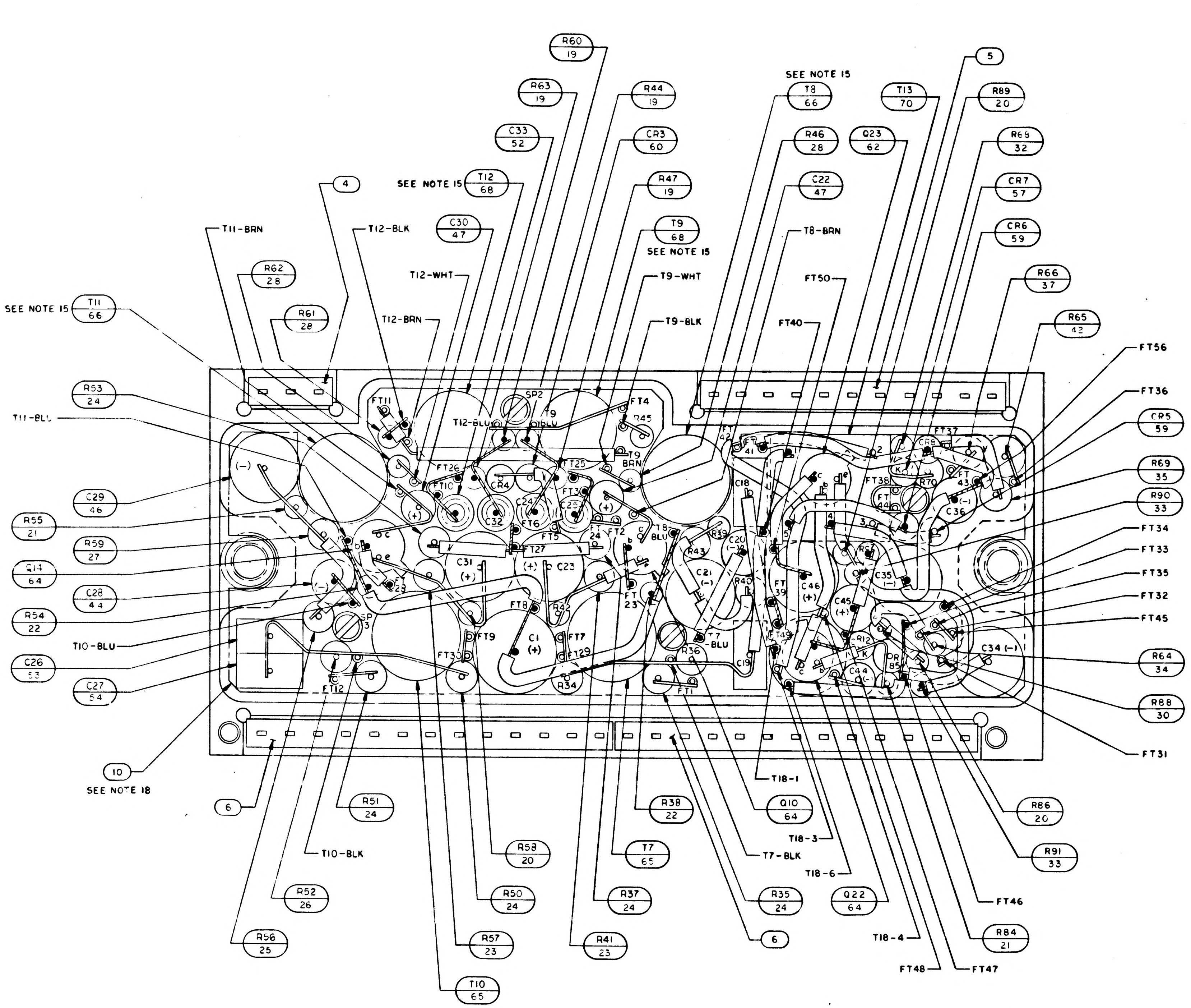
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002.36
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22 Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND1002279 USING 1010992 PRIMER AND 10 3809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. [illegible] ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES

6007012 D

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			13/...	WK
D		REVISION STATUS CHANGED	B.		13-JUL-66	


VIEW SHOWN FOR REFERENCE ONLY



R60 19
R63 19
C33 52
SEE NOTE 15 T12 68
4
T11-BRN
T12-BLK
C30 47
R62 28
R61 28
T12-WHT
T12-BRN
SEE NOTE 15 T11 66
R44 19
CR3 60
R47 19
T9 68 SEE NOTE 15
T9-WHT
T9-BLK
SEE NOTE 15 T8 66
R46 28
C22 47
T8-BRN
FT50
FT40
Q23 62
T13 70
5
R89 20
R68 32
CR7 57
CR6 59
R66 37
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
T18-1
Q10 64
T18-3
T7-BLK
T18-6
R35 24
6
Q22 64
T18-4
FT48
FT47
R84 21
FT46
R86 20
R91 33
FT11
SP2
T9 BLU
FT4
R45
T12-BLU
FT26
FT1C
CR4
C24
C32
FT6
C25
FT22
FT3
T9 BRN
T8 BLU
R43
R53
C18
C20
C21
R40
FT39
C46 (+)
C45 (+)
FT38
R70
C36
C35
C44
C34 (-)
R12
FT27
FT5
C31 (+)
C23
FT2
FT8
R52
FT9
C1 (+)
FT7
FT29
R34
FT33
FT12
R36
T7 BLU
C19
FT1
FT23
FT49

VIEW C-C

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers 24-66
CHECKED
APPROVED 5 Jan 66
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS & 120 V PIPA SUPPLY SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007012
SCALE 5/1
SHEET 2 OF

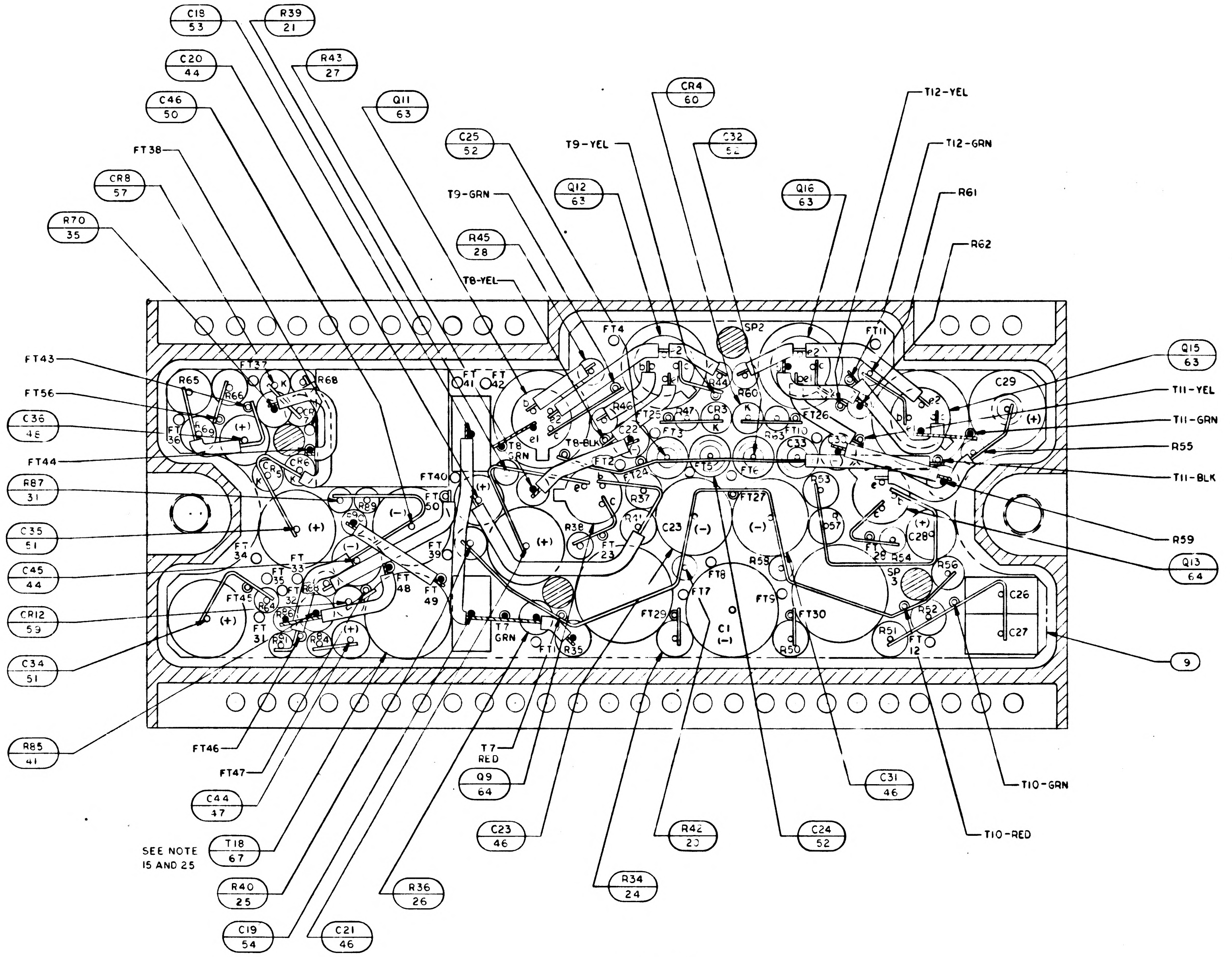
6007012 D

3H

6007012 D

2/6007012

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


C18 53
R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
T9-GRN
Q12 63
R45 28
T8-YEL
CR4 60
C32 52
Q16 63
T12-YEL
T12-GRN
R61
R62
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
FT46
FT47
C44 47
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-RED
T10-GRN
9
Q13 64
R59
T11-BLK
R55
T11-GRN
T11-YEL
Q15 63
R65
R66
R68
FT37
FT 36
R69
CR7
CR5
CR6
K
(+)
(-)
R89
C90
FT 50
FT40
FT 41
FT 42
FT 34
FT 33
FT 35
FT45
R64
R88
R86
FT 32
FT 31
R81
R84
FT 48
FT 49
FT 39
T8 GRN
T8-BLK
e1
e2
b
c
FT4
R46
C22
FT25
FT3
FT2
FT24
R47
CR3
R44
R60
SP2
R63
FT10
C33
C30
FT26
FT11
C29
R38
R37
R41
FT 23
C23
FT27
FT5
FT6
R53
R57
C28
FT 28
R54
R56
SP 3
R58
FT8
FT7
FT9
FT29
FT30
C1 (-)
R50
R51
R52
FT 12
C26
C27
T7 GRN
FT1
R35

SEE NOTE 15 AND 25

SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

APOLLO G&N Specification
PS6007012 REV D
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

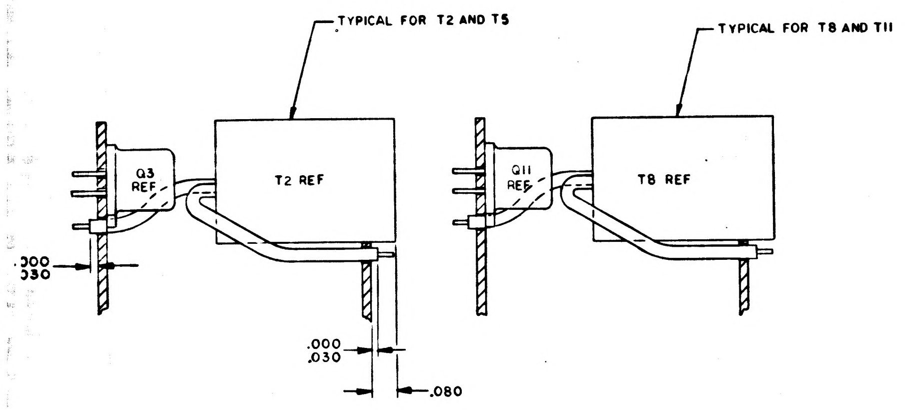
Date	Revision Letter	TDRR No.	Pages Revised	Approvals AC	Approvals NASA
9/22/66	A	31233	3, 4, 9, 10, 11 RDG/AC	MGM EA	—
12/28/66	B	32440	6 RDG/AC	JP MGM	--
2/3/67	C	32907	3 and 9 RDG/AC	MGM EA	--
2/9/67	D	32944	9 RDG/AC	MGM EA	--

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R. W. Kowalski 9 May 66 MIT/IL	G. W. Krier ACSP

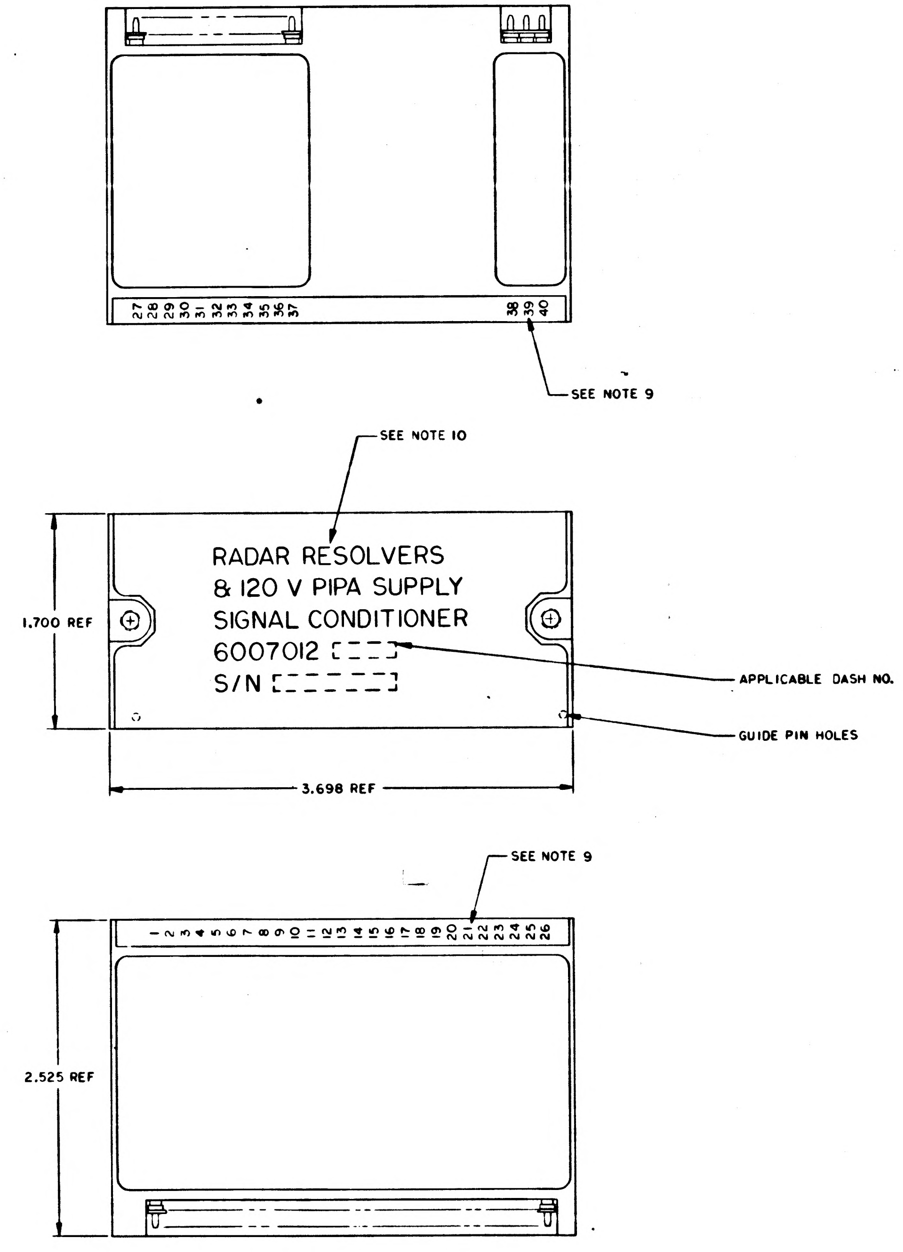
	6007012	E	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	9/3/66	WK
D	REVISED PER TDRR 29921	13-JUL -66	B.
E	REVISED PER TDRR30151	20 JUL 66	A.M.



TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.300
.330
.000
.030
.080

PARTIAL SECTION J-J



27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012
S/N
1.700 REF
APPLICABLE DASH NO.
GUIDE PIN HOLES
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-134	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-12	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1
-011	LIST OF MATERIALS		

6007012 E

6007013	
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED 5 Apr 66
APPROVAL 5 Apr 66
APPROVAL 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL 5 Apr 66

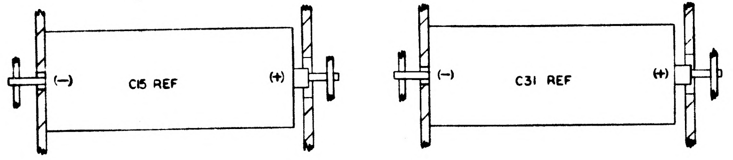
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

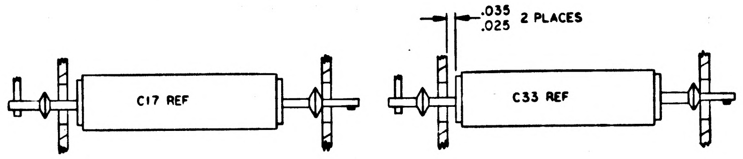
CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	J	6007012
SCALE 5/1	WT	SHEET 1 OF 2

6007012 E

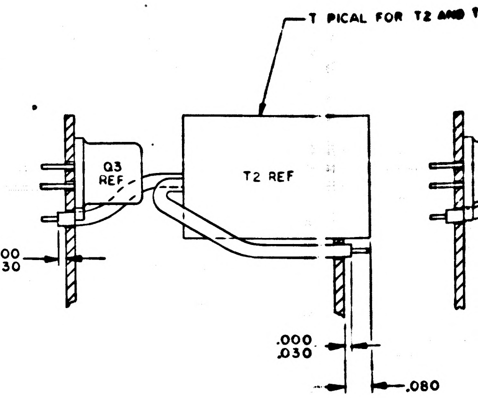
6007012 E


(−)
C15 REF
(+)
(−)
C31 REF
(+)

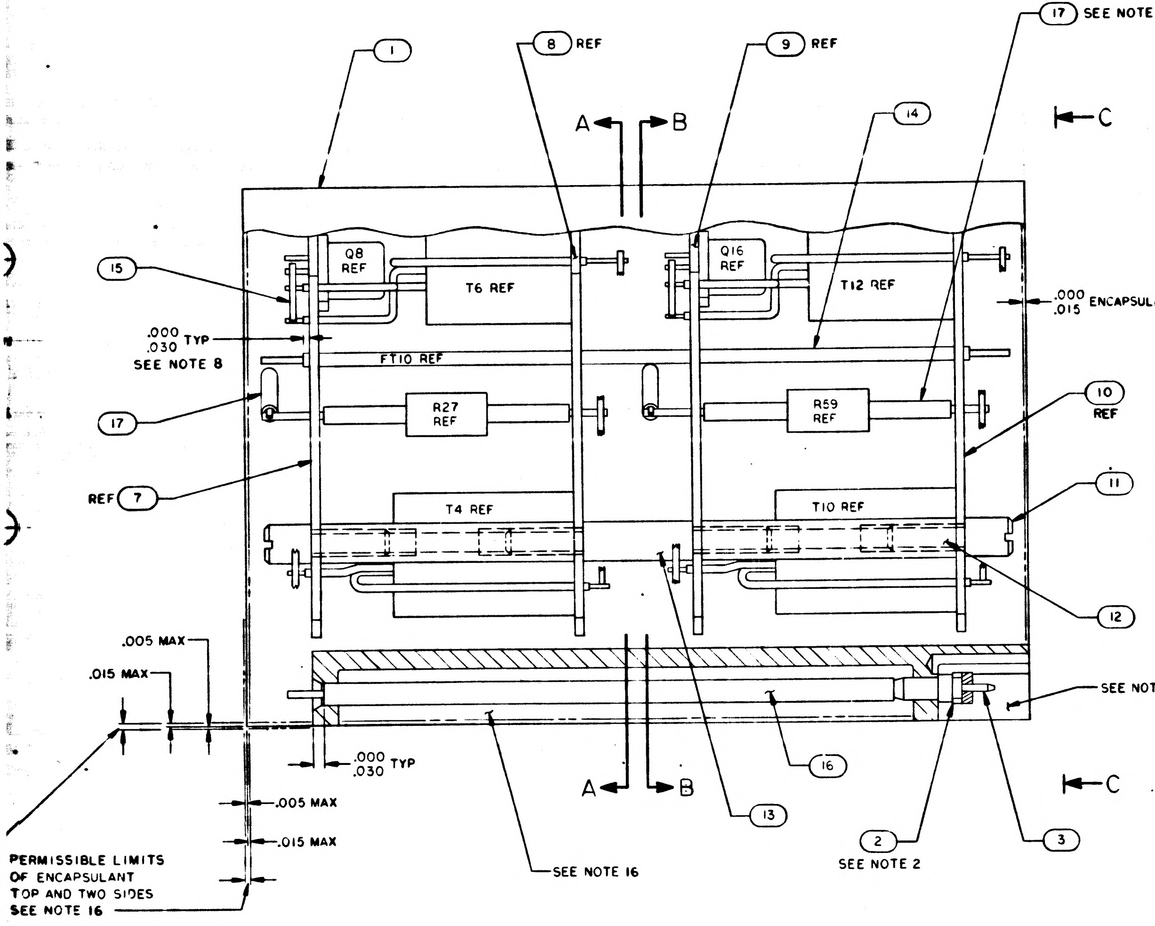
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31

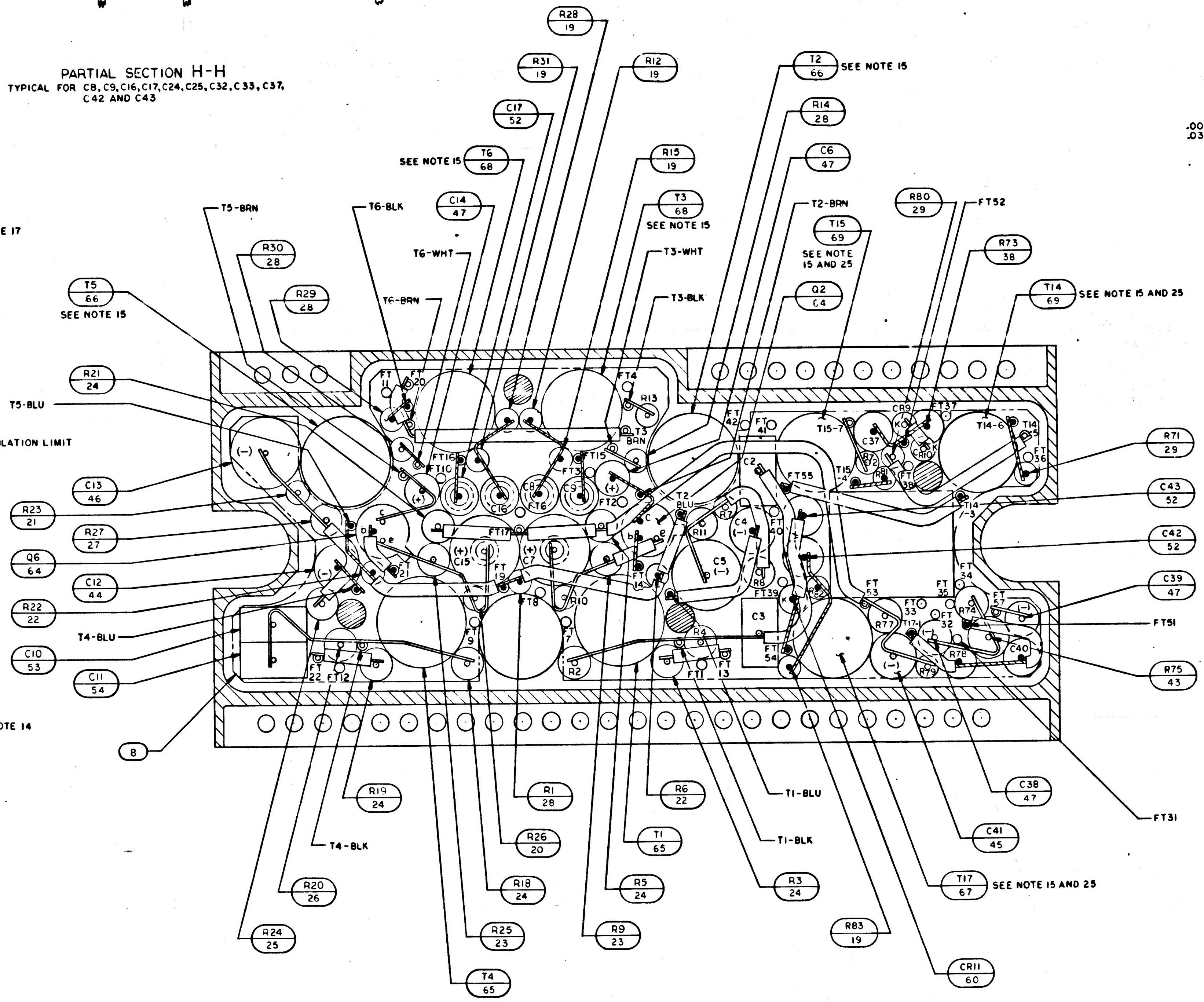

.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43


T PICAL FOR T2 AND T
Q3
REF
T2 REF
.000
.030
.000
.030
.080

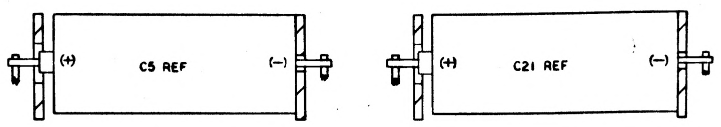
PAI TIAL SECTION


1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
15
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.015 ENCAPSULATION LIMIT
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
R59 REF
10 REF
REF 7
11
T4 REF
T10 REF
12
.005 MAX
.015 MAX
.000
.030 TYP
SEE NOTE 14
16
.005 MAX
.015 MAX
A
B
C
13
2
SEE NOTE 2
3
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16
SEE NOTE 16

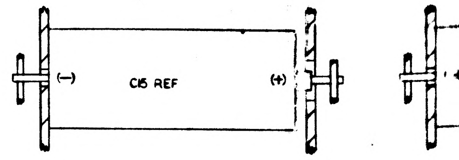

R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
SEE NOTE 15
T6 68
R15 19
C6 47
T5-BRN
T6-BLK
C14 47
T3 68 SEE NOTE 15
T2-BRN
R80 29
FT52
R30 28
T6-WHT
T3-WHT
T15 69 SEE NOTE 15 AND 25
R73 38
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
T4-BLU
FT51
C10 53
C11 54
R75 43
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
FT31
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65
FT 11
FT 20
FT4
R13
T3 BRN
FT 42
FT 41
T15-7
CR9
FT37
C37
T14-6
T14 5
FT 36
FT16
FT10
FT13
C16
C8
C9
FT15
FT2
C2
FT55
T15 4
T14 3
T2 BLU
R11
C4 (−)
FT 40
C5 (−)
FT17
(+) C15
(+) C7
FT 19
FT 14
R8
FT39
FT8
R10
C3
FT 53
FT 33
FT 35
FT 34
FT 57
R77
T17-1
FT 32
R74
C40
R78
R79
FT 9
FT 7
R4
FT 54
FT 22
FT12
R2
FT11
FT 13
(−)
(+)

SECTION A-A

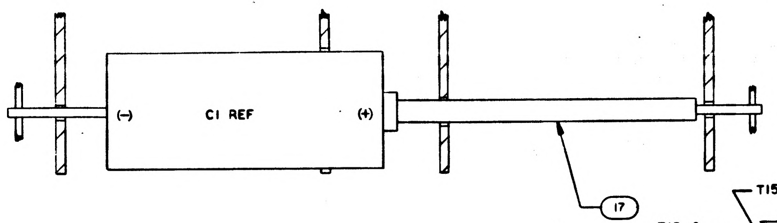
NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


(+)
C5 REF
(−)
(+)
C21 REF
(−)

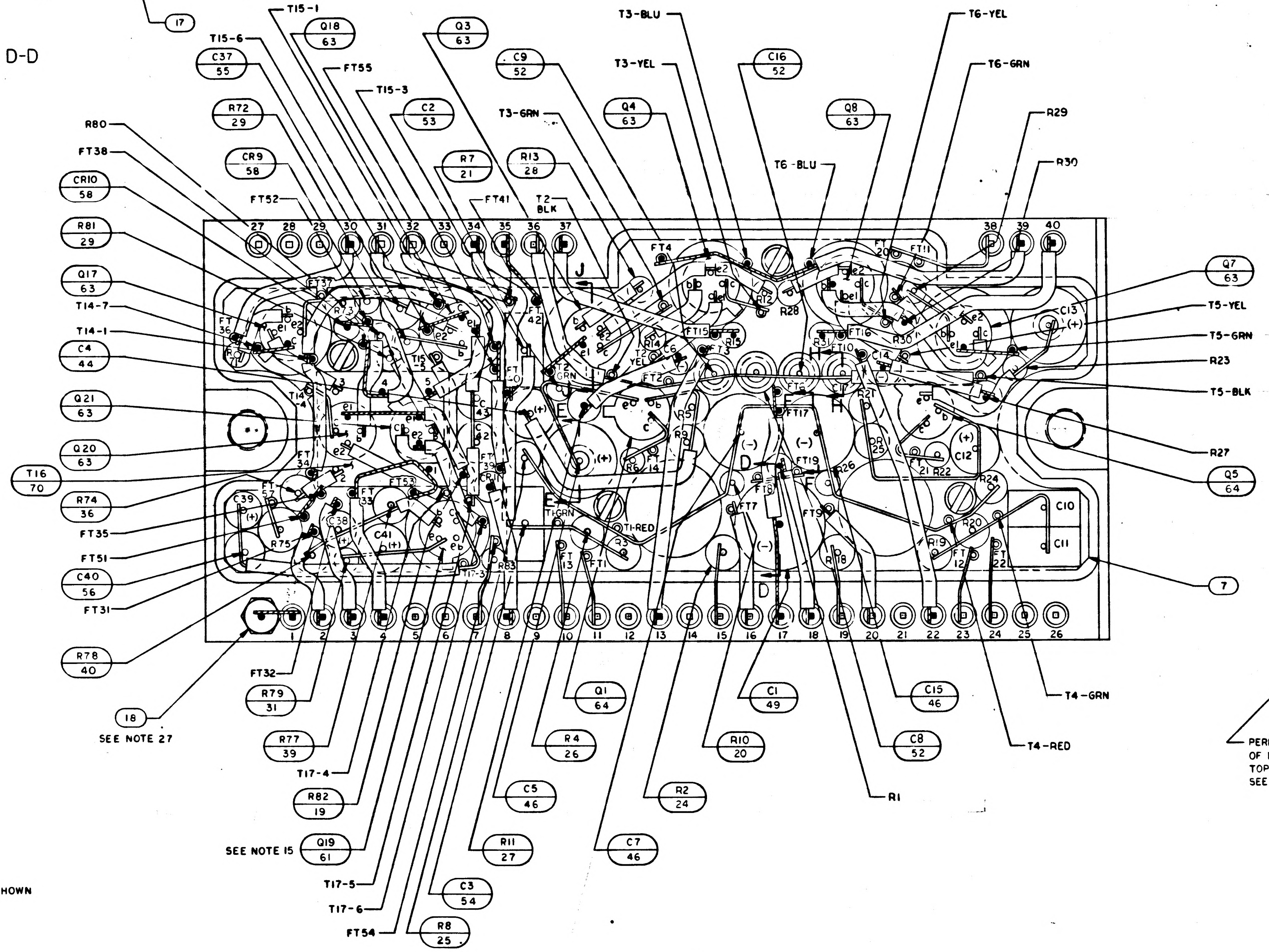
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29

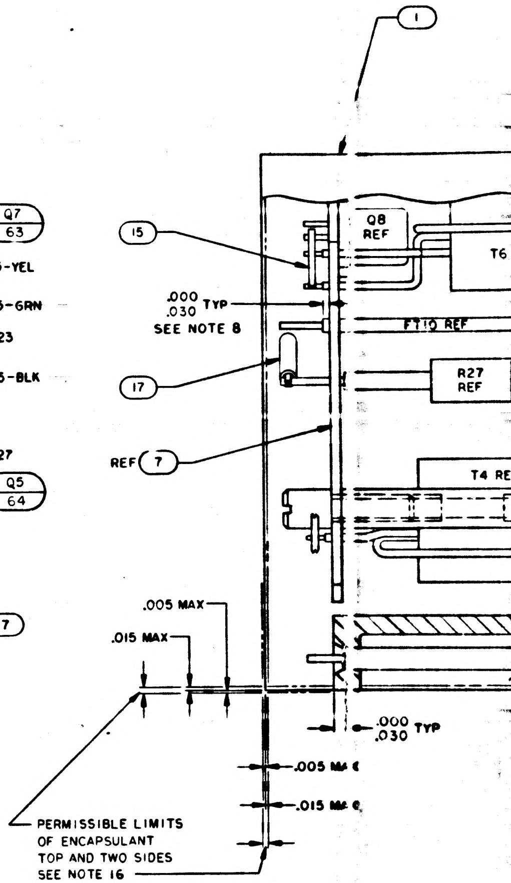


PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND



PARTIAL SECTION D-D

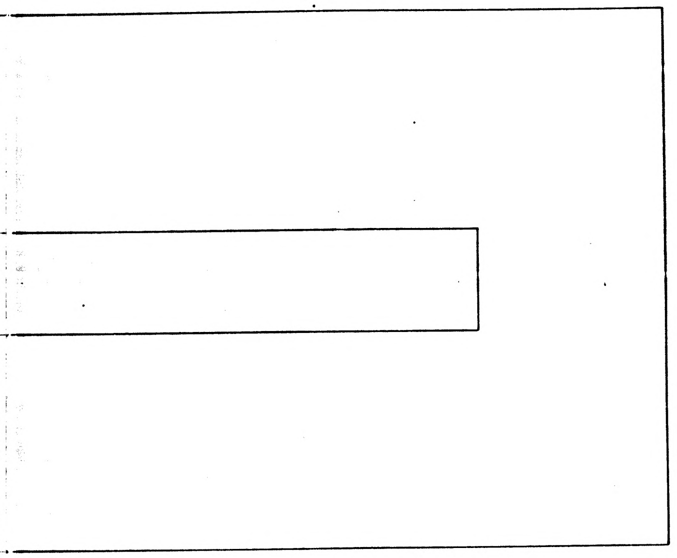

T15-1
Q18 63
T15-6
C37 55
FT55
T15-3
C2 53
Q3 63
C9 52
T3-BLU
T3-YEL
T3-GRN
C16 52
Q4 63
Q8 63
T6-YEL
T6-GRN
R29
R30
T6-BLU
R72 29
CR9 58
R7 21
R13 28
FT41
T2-BLK
FT52
R80
FT38
CR10 58
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
R10 20
C1 49
R1
C8 52
C15 46
T4-RED
T4-GRN
7
Q5 64
R27
T5-BLK
R23
T5-GRN
T5-YEL
Q7 63
C13
C10
C11
C39
C41
J
D
E
H
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40


1
15
Q8 REF
T6
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16
.000
.030 TYP
.005 MAX
.015 MAX

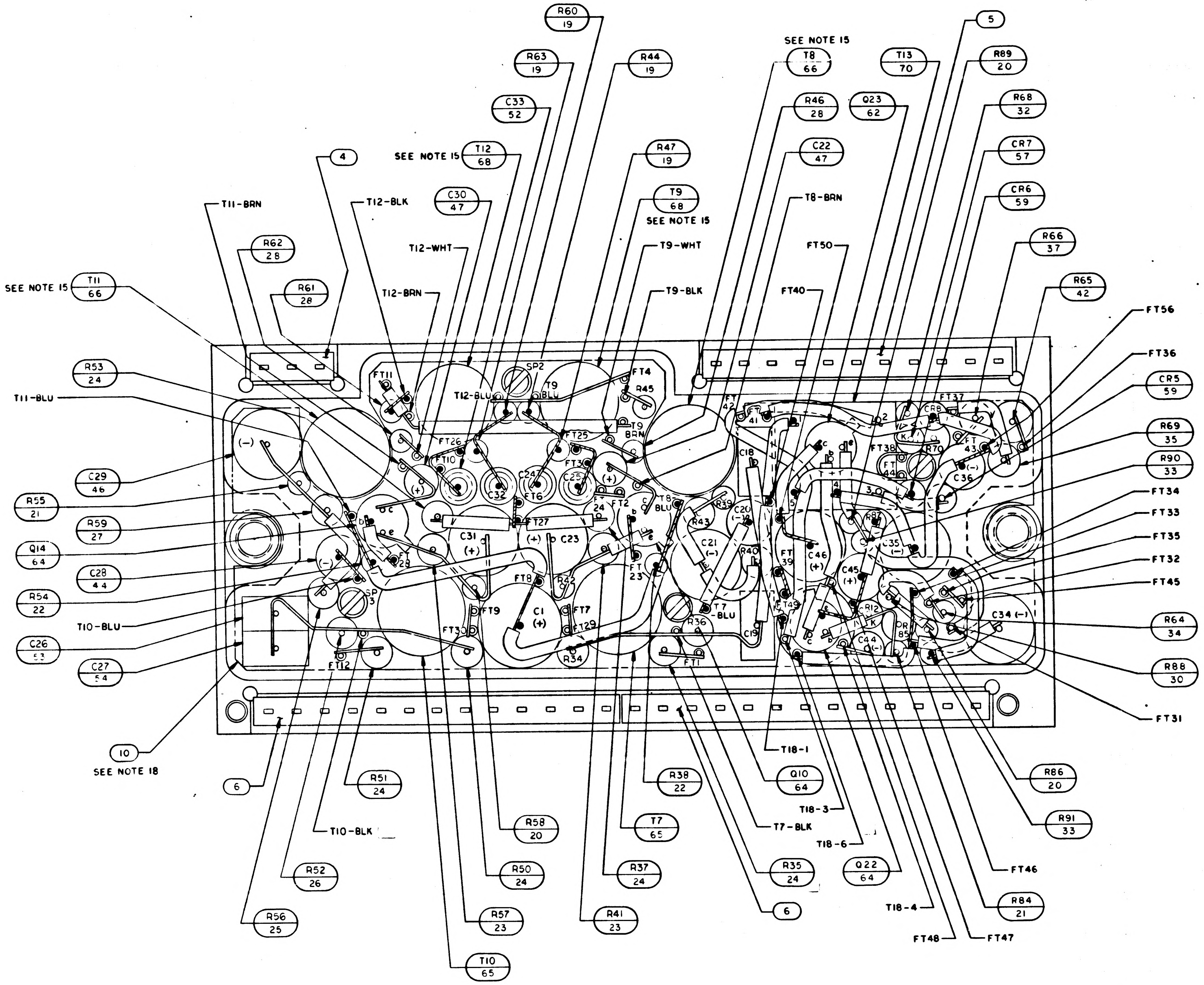
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.1C HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NC. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/13/66	WK
D		REVISION STATUS CHANGED	D.	PJ	13-JUL-66	
E		REVISED PER TDRR 30151	A.N.		20 JUL 66	



VIEW SHOWN FOR REFERENCE ONLY


R60 19
R63 19
R44 19
C33 52
SEE NOTE 15
T12 68
R47 19
4
T11-BRN
T12-BLK
C30 47
T9 68
SEE NOTE 15
R62 28
T12-WHT
T9-WHT
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
Q10 64
T7-BLK
R35 24
6
T18-1
T18-3
T18-6
Q22 64
T18-4
FT48
FT47
FT46
R84 21
R86 20
R91 33
FT31
R88 30
R64 34
FT45
FT32
FT35
FT33
FT34
R90 33
R69 35
CR5 59
FT36
FT56
R65 42
R66 37
CR6 59
CR7 57
R68 32
R89 20
5
T13 70
Q23 62
SEE NOTE 15
T8 66
R46 28
C22 47
T8-BRN
FT50
FT40
C31 (+)
C23
C1 (+)
C24
C25
C32
C20
C21
C46 (+)
C45 (+)
C35 (-)
C44
C34 (-)
C36
C18
C19
FT27
FT26
FT25
FT11
FT10
FT4
FT3
FT2
FT8
FT9
FT7
FT12
FT1
FT38
FT44
FT37
R42
R43
R40
R34
R36
R45
R70
R12
SP2
T9 BLU
T9 BRN
T12-BLU
T8 BLU
T7 BLU
FT 23
FT 39
FT 49

VIEW C-C

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	Ed Powers	24-3-66
CHECKED	R.P.	
APPROVED		5 APR 66
APPROVED		
APPROVED MIT	W Kupfer	
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

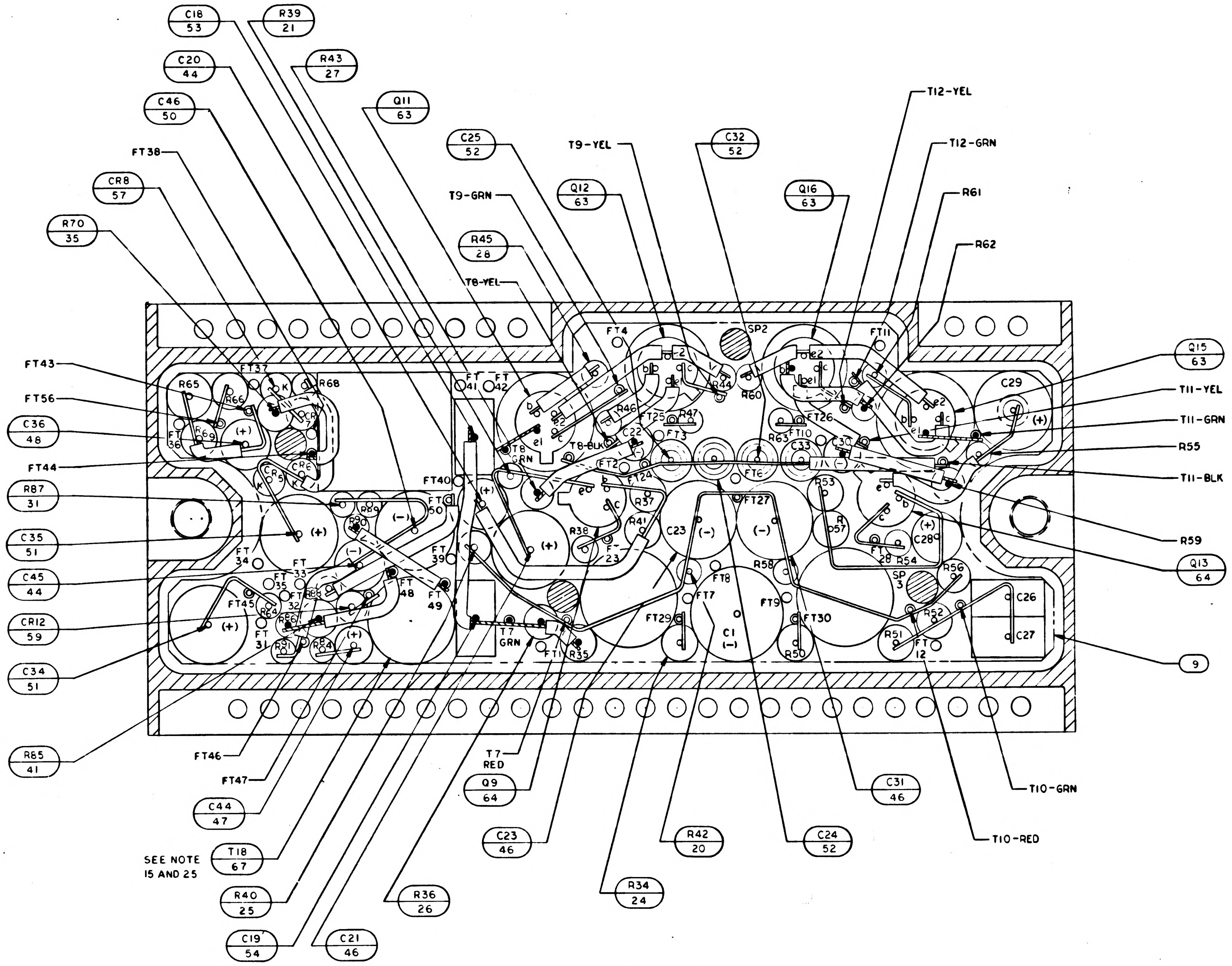
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007012
SCALE 5/1		SHEET 2 OF 2

6007012 E

6007012 E

2/6007012

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


C18 53
R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T9-GRN
Q12 63
R45 28
T8-YEL
Q16 63
T12-YEL
T12-GRN
R61
R62
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R65 41
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT46
FT47
C44 47
T18 67
R40 25
C19 54
C21 46
T7 RED
Q9 64
C23 46
R36 26
R34 24
R42 20
C24 52
C31 46
T10-GRN
T10-RED
FT4
SP2
FT11
C29
R65
R66
R68
FT37
FT41
FT42
R46
FT25
R47
R44
R60
FT26
R63
FT10
C33
C22
T8-BLK
FT2
FT24
FT3
FT6
FT40
FT50
FT34
FT33
FT35
FT45
FT31
FT48
FT49
FT39
R38
R37
R41
C23
FT27
R53
R57
FT28
R54
C28
R58
R56
SP3
C26
C27
FT9
FT30
R51
R52
FT12
R50
FT29
FT7
FT8
C1
T7 GRN
FT1
R35
(+)
(−)

SEE NOTE 15 AND 25

SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

8 7 6 5

D C B A

6007012	E

1/-6007012

APOLLO G&N Specification
PS6007012 REV E
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓜ 9/22/66	A	31233	3, 4, 9, 10, 11 RDC/AC	MGM EA	—
Ⓜ 12/28/66	B	32440	6 RDC/AC	JP MGM	--
2/3/67	C	32907	3 and 9 RDC/AC	MGM EA	--
Ⓜ 2/9/67	D	32944	9 RDC/AC	MGM EA	--
8/18/67	E	34363	4 RDC/AC	MGM EA	--

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	R Kowalski 9 May 66 / W G Ulerhu SKR MIT/IL	G W Krier / G C Hamm AC

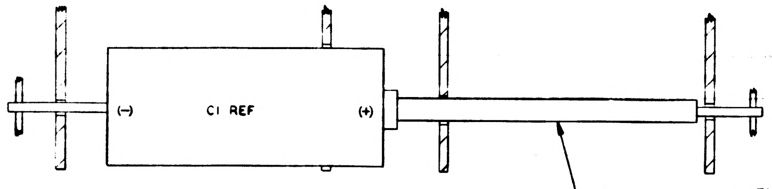
TABLE I

CONTINUITY AND DC RESISTANCE

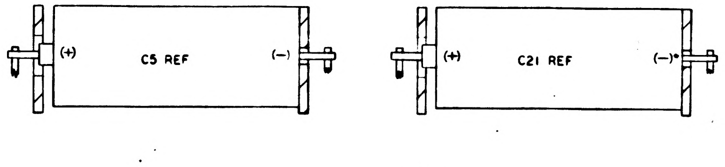
FROM	TO	RESISTANCE
15	10	992k to 1.02 meg
19	24	↕
16	11	
20	23	992k to 1.02 meg
34	35	<600Ω
17	4	<0.5Ω
1	Chassis	<0.5Ω

3.2.2.3 Circuit Isolation. The dc resistance between any two low pins of the power, reference, input, and output circuits shall be ≥100 megohms, except between pins 4 and 17.

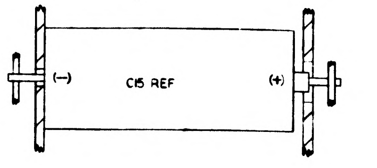
3.2.2.4 Diode Function. A +2.50±0.10 vdc output for assembly section e shall not decrease when pin 8 is connected to pin 31. A -2.50±0.10 vdc output for assembly section e shall decrease below -1.0 vdc when pin 8 is connected to pin 31.



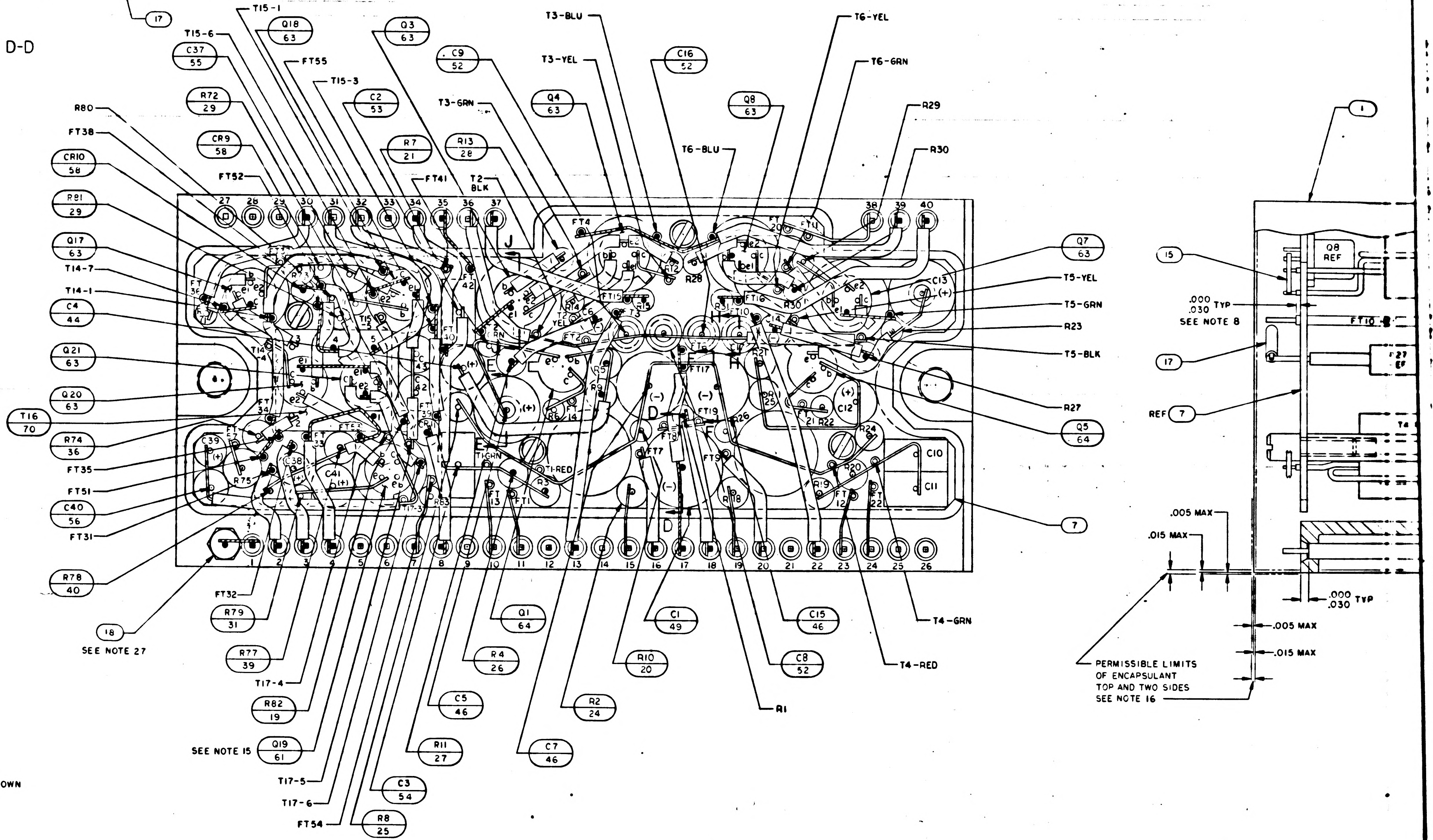
PARTIAL SECTION D-D


(+)
C5 REF
(−)
(+)
C21 REF
(−)

PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29

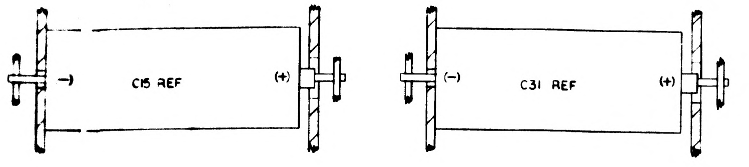


PARTIAL SECTION F
TYPICAL FOR C7, C15, C23

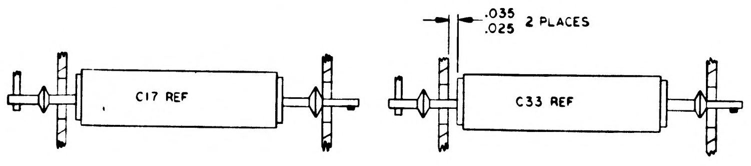

T15-1
T15-6
Q18 63
Q3 63
C37 55
FT55
C9 52
T3-BLU
T3-YEL
C16 52
T6-YEL
T6-GRN
T15-3
C2 53
Q4 63
Q8 63
R72 29
R29
R80
T3-GRN
FT38
CR9 58
R7 21
R13 28
T6-BLU
R30
CR10 58
FT52
FT41
T2 BLK
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
R10 20
C1 49
C8 52
R1
C15 46
T4-RED
T4-GRN
7
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
C10
C11
C12
C13
C39
C41
C38
J
H
D
E
27 28 29 30 31 32 33 34 35 36 37
38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
1
15
Q8 REF
.000 TYP
.030
SEE NOTE 8
FT10
17
REF 7
.005 MAX
.015 MAX
.000 TYP
.030
.005 MAX
.015 MAX
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16

NOTES:

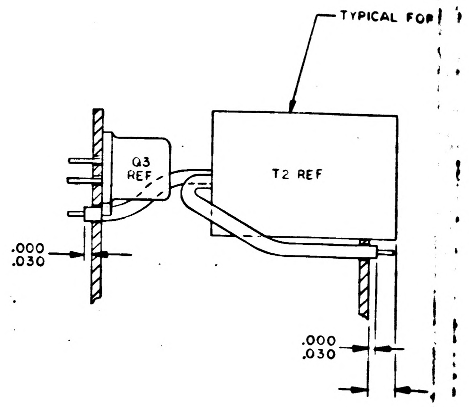
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING.
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002C04 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES


C15 REF
(-)
(+)
C31 REF
(-)
(+)

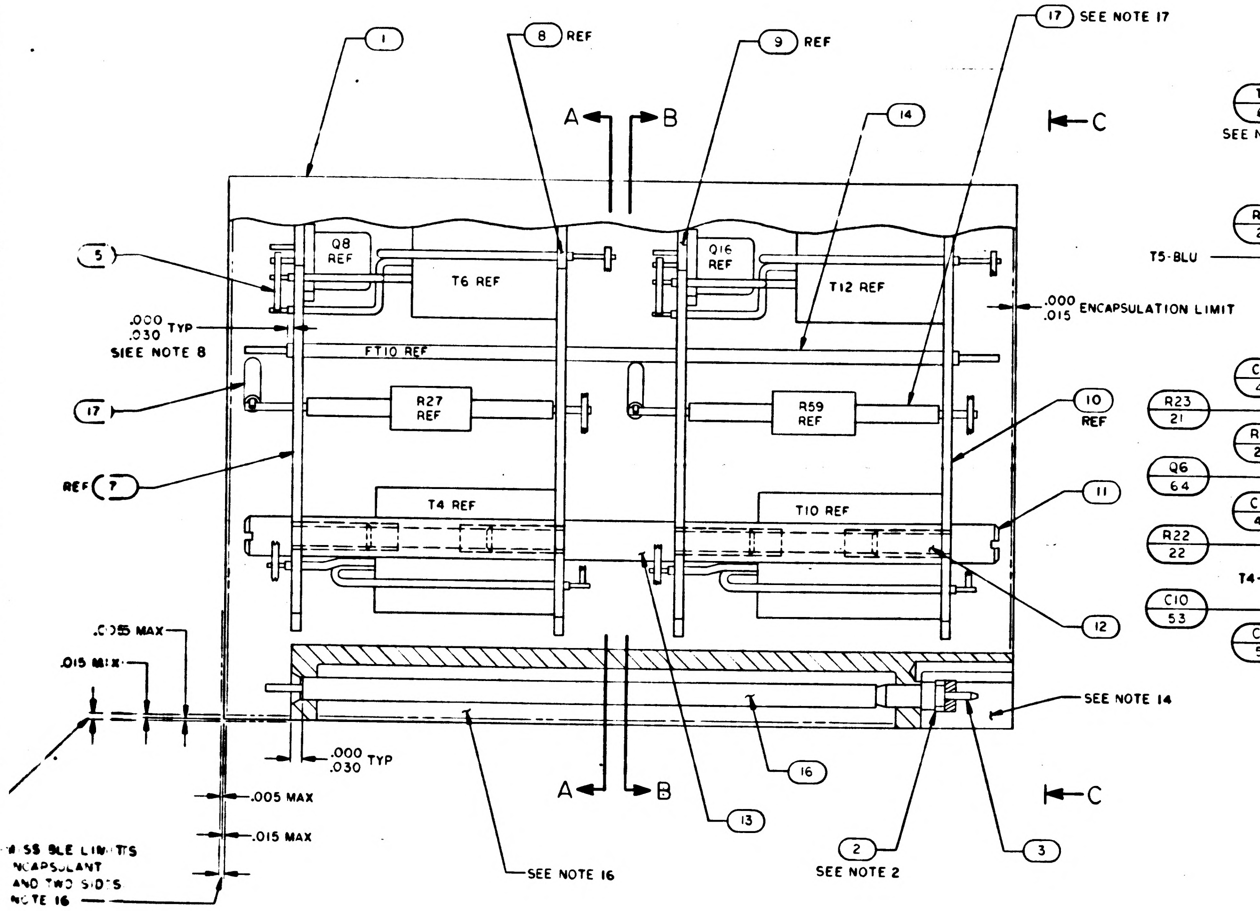
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31

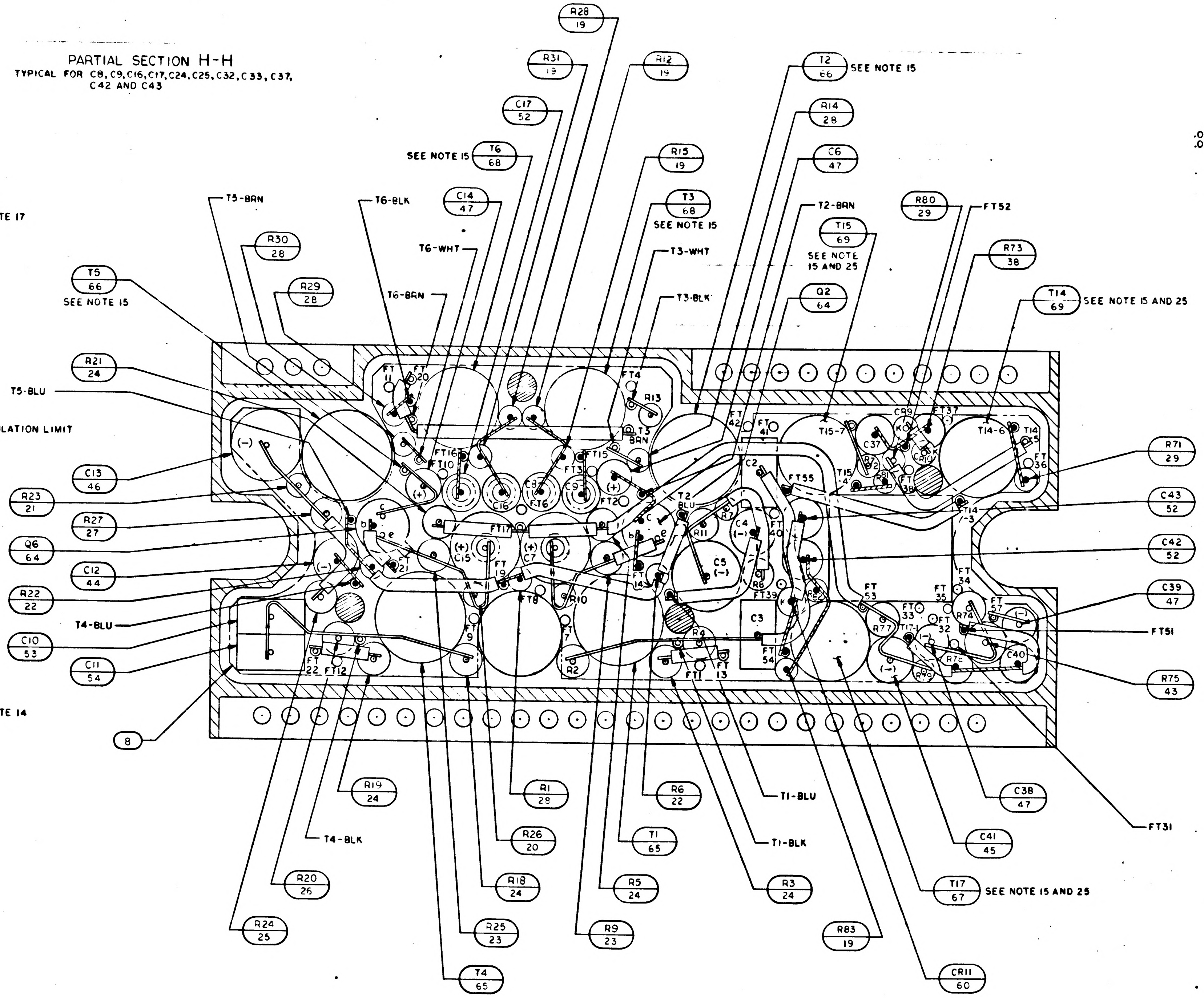

.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43


TYPICAL FOR
Q3 REF
T2 REF
.000
.030
.000
.030

PARTIAL SE

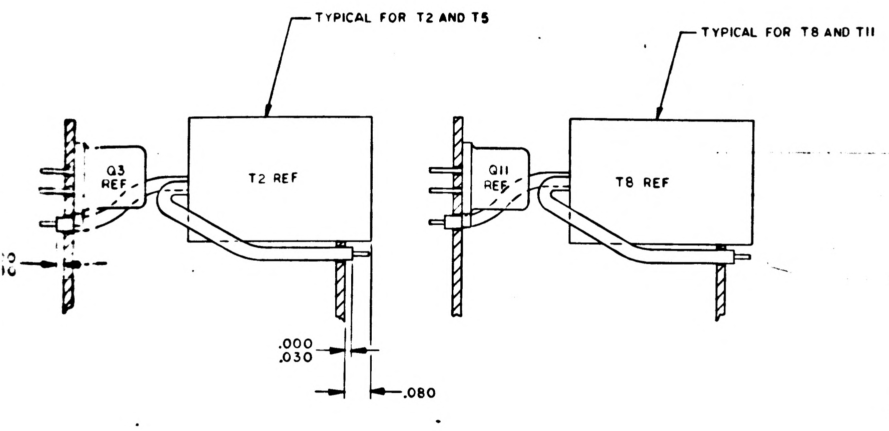

1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
5
Q8 REF
T6 REF
Q16 REF
T12 REF
.000 TYP
.030
SEE NOTE 8
.000
.015 ENCAPSULATION LIMIT
FT10 REF
17
R27 REF
R59 REF
10 REF
REF 7
T4 REF
T10 REF
11
12
.0055 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX
A
B
C
16
13
2
SEE NOTE 2
3
SEE NOTE 14
SEE NOTE 16
ENCAPSULANT
AND TWO SIDES
NOTE 16


R28 19
R31 19
R12 19
C17 52
SEE NOTE 15 T6 68
R15 19
I2 66 SEE NOTE 15
R14 28
C6 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
C14 47
T6-WHT
R30 28
R29 28
T6-BRN
T2-BRN
T15 69 SEE NOTE 15 AND 25
T3-WHT
T3-BLK
Q2 64
R80 29
FT52
R73 38
T14 69 SEE NOTE 15 AND 25
T5 66 SEE NOTE 15
R21 24
T5-BLU
C13 46
R23 21
R27 27
Q6 64
C12 44
R22 22
T4-BLU
C10 53
C11 54
8
R71 29
C43 52
C42 52
C39 47
FT51
R75 43
R19 24
T4-BLK
R20 26
R24 25
R1 29
R26 20
R18 24
R25 23
T4 65
R6 22
T1 65
R5 24
R9 23
T1-BLU
T1-BLK
R3 24
R83 19
CR11 60
C38 47
C41 45
T17 67 SEE NOTE 15 AND 25
FT31
FT11
FT20
FT4
R13
T3 BRN
FT42
FT41
T15-7
C37
CR9
FT37
T14-6
FT16
FT10
C16
C8
T16
FT3
C9
FT15
FT2
C2
FT55
T15-4
FT36
T14-3
(+)
(-)
FT17
T2 BLU
C4
R11
FT40
R8
(+) C15
FT19
(+) C7
C5 (-)
FT8
R10
FT16
FT39
C3
FT54
FT53
FT35
FT34
FT33
FT32
R77
T17-1
R74
R76
C40
FT57
FT9
FT7
R2
R4
FT1
FT13
FT22
FT12
R21

SECTION A-A

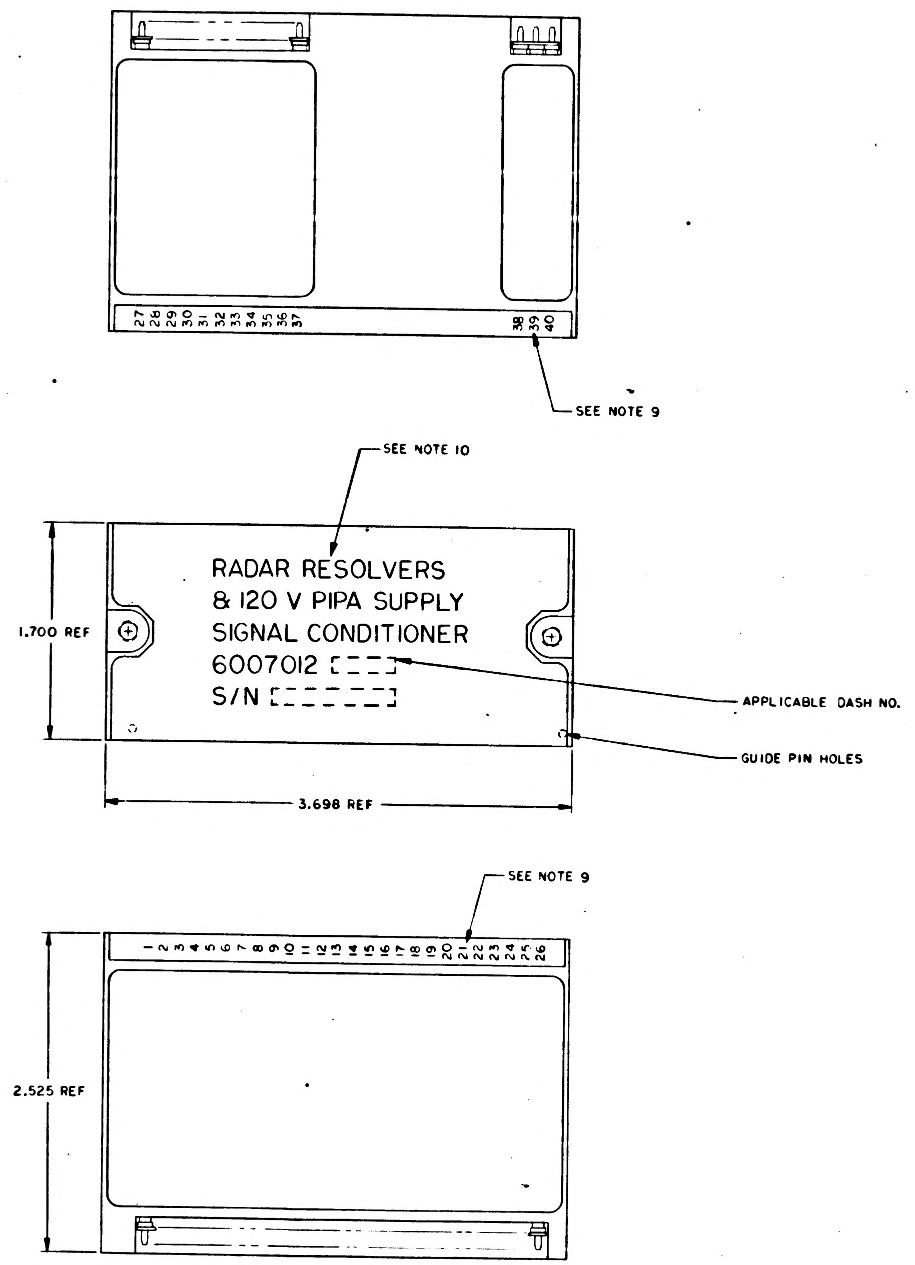
6007012	F

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	9/4/66	wk
D	REVISED PER TDRR 23921	13-JUL-66	B. / PF
E	REVISED PER TDRR 30151	20 JUL 66	A.N.
F	REVISED PER TDRR 30249	17 AUG 66	JL



TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.080

PARTIAL SECTION J-J



27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012 [ ]
S/N [ ]
1.700 REF
APPLICABLE DASH NO.
GUIDE PIN HOLES
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW

SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-12	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6006037	FRAME	1
-011	LIST OF MATERIALS		

6007013	
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED [illegible] 5 Apr 66
APPROVAL [illegible] 5 Apr 66
APPROVAL [illegible] 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL [illegible] 5 Apr 66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2

4H

6007012	F

3/6007012

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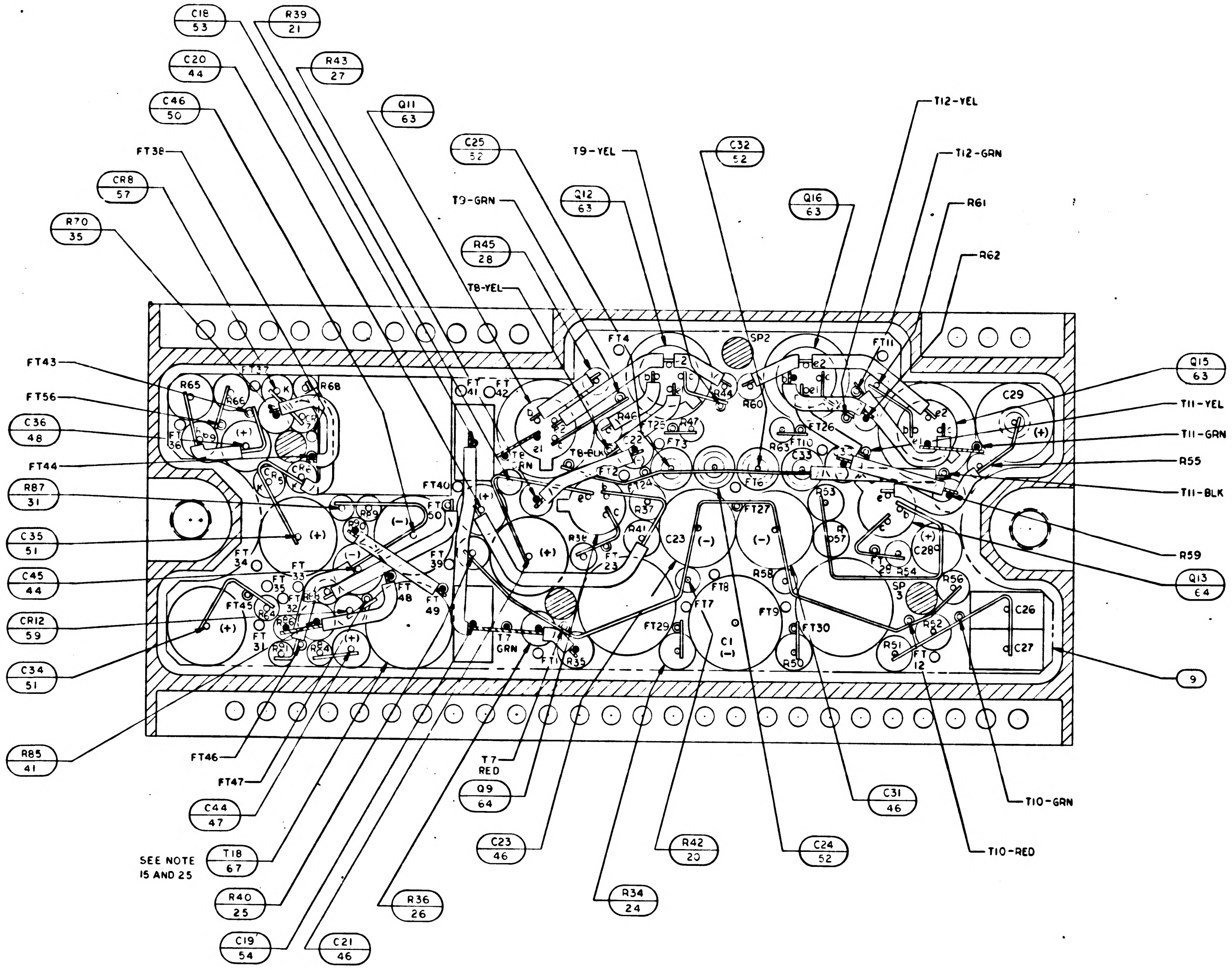
D

C

B

A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R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T9-GRN
Q12 63
Q16 63
R45 28
T8-YEL
T12-YEL
T12-GRN
R61
R62
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
FT46
FT47
C44 47
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-RED
T10-GRN
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
SP2
FT4
FT11
C29
R65
R66
R68
FT 41
FT 42
T8-BLK
R46
R47
R44
R60
R63
FT10
FT26
C33
FT40
FT 50
FT 39
FT 48
FT 49
FT 34
FT 33
FT45
FT 31
R37
R38
R41
C23
FT27
R53
R57
R58
C28
R56
SP 3
C26
C27
FT7
FT8
FT9
FT29
FT30
C1
R50
R51
R52
FT 12
FT1
R35
T7 GRN
(+)
(-)

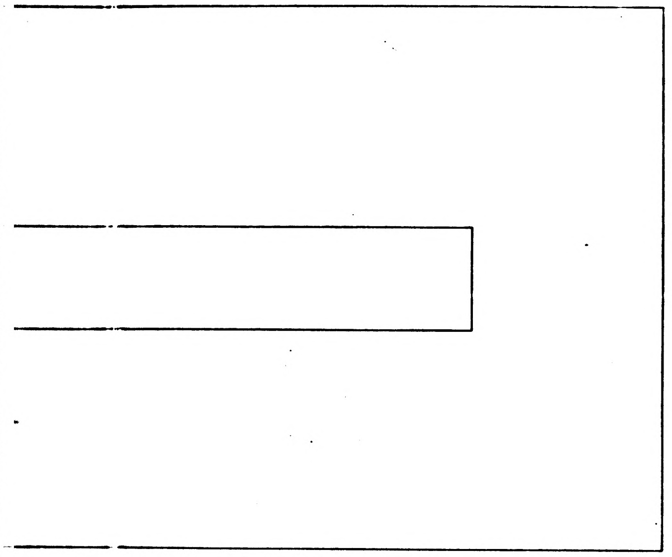
SEE NOTE 15 AND 25

SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

6007012	F

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/3/66	WK
D		REVISION STATUS CHANGED	B.	PJ	13 JUL 66	
E		REVISED PER TDRR 30151	A.N.		20 JUL 66	
F		REVISION STATUS CHANGED		JI	17 AUG 66	



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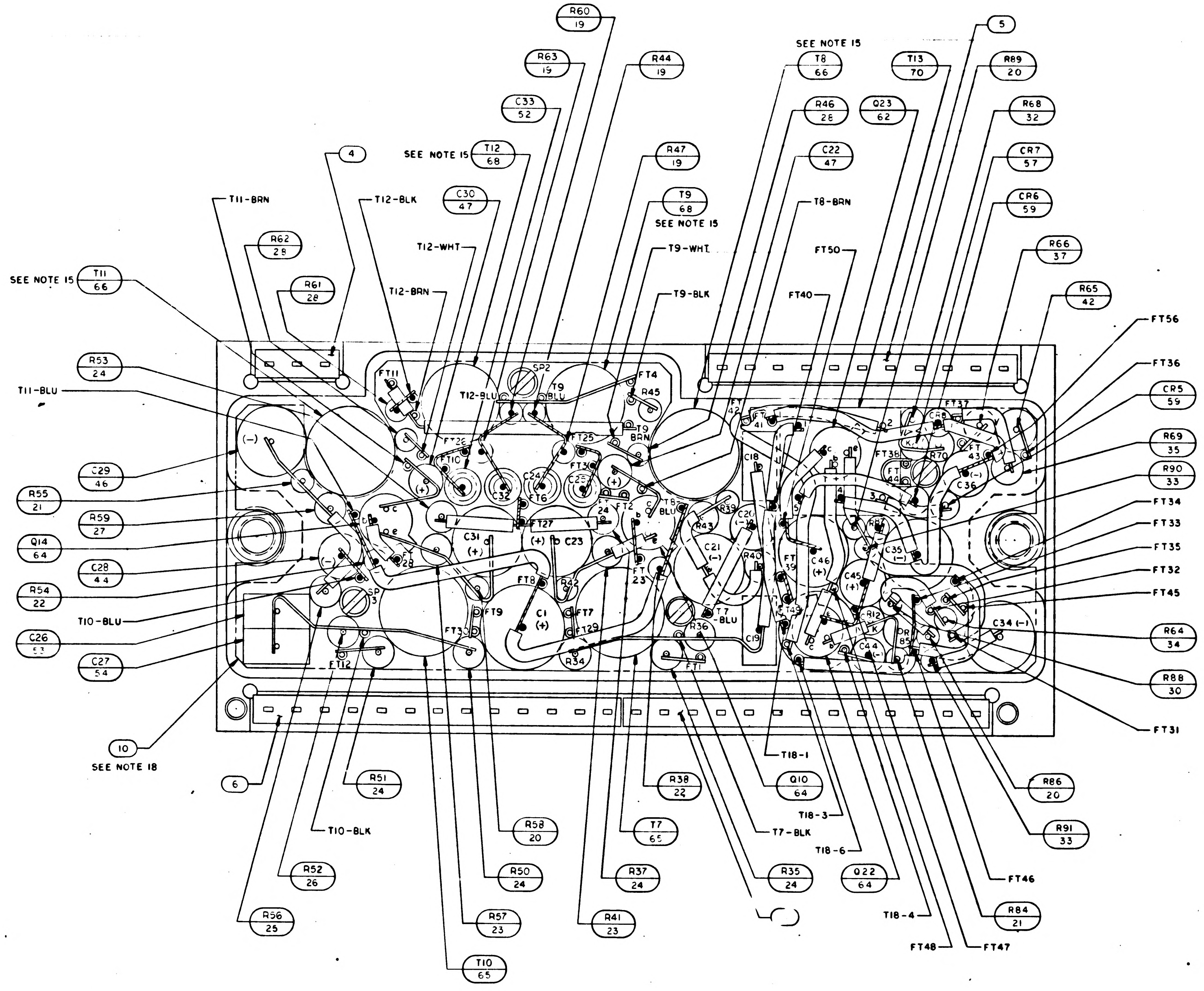
R60 19
R63 19
R44 19
C33 52
SEE NOTE 15 T12 68
4
R47 19
C30 47
T11-BRN
T12-BLK
T9 68 SEE NOTE 15
R62 28
T12-WHT
T9-WHT
R61 28
T12-BRN
T9-BLK
SEE NOTE 15 T11 66
SEE NOTE 15 T8 66
T13 70
R89 20
5
R46 26
Q23 62
R68 32
C22 47
CR7 57
T8-BRN
CR6 59
FT50
R66 37
FT40
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R86 20
R91 33
FT46
R84 21
FT47
FT48
T18-4
Q22 64
R35 24
T18-6
T7-BLK
T18-3
Q10 64
T18-1
R38 22
T7 65
R37 24
R41 23
R58 20
R50 24
R57 23
T10 65
R51 24
T10-BLK
R52 26
R56 25
6
10 SEE NOTE 18
C27 54
C26 53
T10-BLU
R54 22
C28 44
Q14 64
R59 27
R55 21
C29 46
T11-BLU
R53 24
SP2
T9 BLU
FT4
R45
T9 BRN
T12-BLU
FT11
FT26
FT10
C32
C24
FT6
FT25
C25
FT27
C31
C23
C1
FT8
R42
FT9
FT7
FT29
R34
FT33
FT12
SP3
T8 BLU
R39
R43
C20
C21
R40
T7 BLU
R36
FT1
C19
C18
FT41
C46
C45
C35
C44
FT38
R70
C36
FT37
R12
R85
C34

VIEW C-C

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN µf RESISTOR VALUES ARE IN OHMS TOLERANCES ON: FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING
		MATERIAL
NEXT ASSY	USED ON	
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Ed Powers	24-3-66
CHECKED		
APPROVED		5 APR 66
APPROVED		
APPROVED MIT	WKaffer	
APPROVED MSC		

RADAR RESOLVERS
&120V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007012
SCALE 5/1		SHEET 2 OF 2

6007012 F

3H

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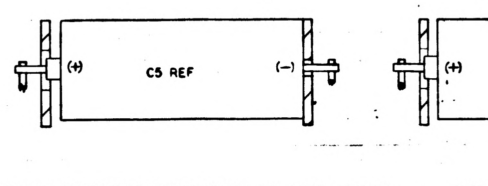
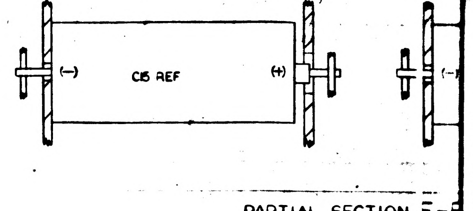
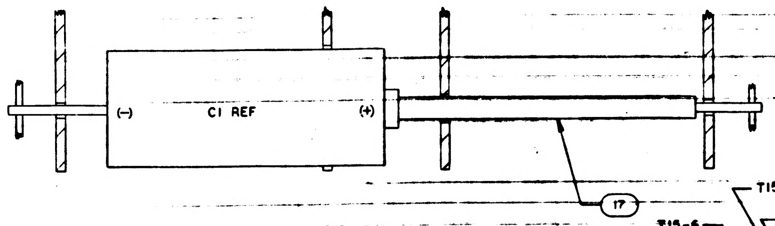

(+)
C5 REF
(−)
(+)
C21 REF
(−)

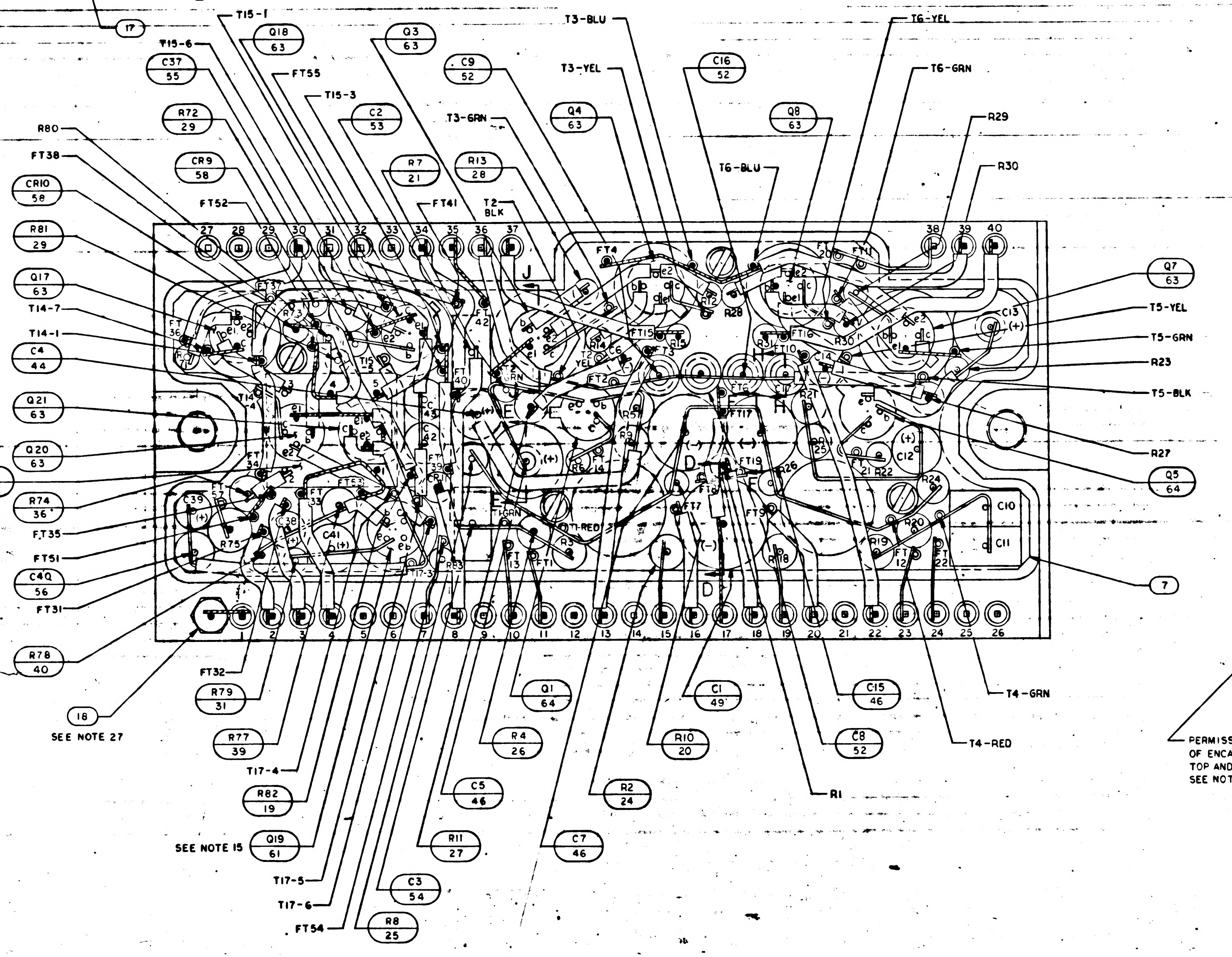
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C



PARTIAL SECTION D-D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Q18 63
T15-6
Q3 63
C37 55
FT55
T15-3
C2 53
R72 29
R80
FT38
CR9 58
R7 21
R13 28
CR10 58
FT52
FT41
T2 BLK
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
C7 46
R4 26
Q1 64
R2 24
R10 20
C1 49
R1
C8 52
C15 46
T4-RED
T4-GRN
7
Q5 64
R27
T5-BLK
R23
T5-GRN
T5-YEL
Q7 63
R30
R29
T6-GRN
T6-YEL
Q8 63
C16 52
T6-BLU
T3-BLU
T3-YEL
Q4 63
C9 52
T3-GRN
J
E
H
D
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C11
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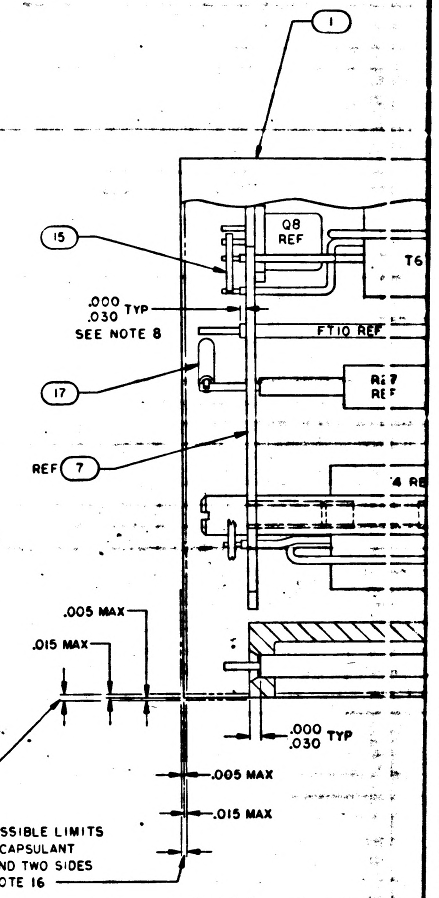
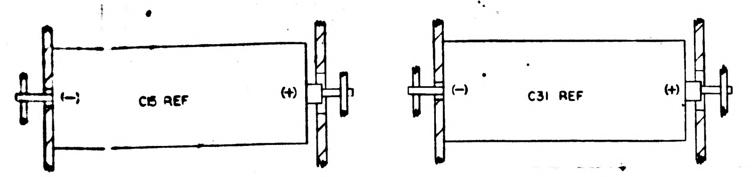

1
15
Q8 REF
T6
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
.005 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX

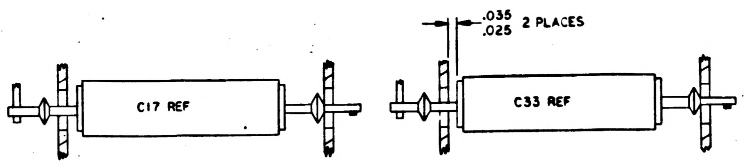
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16

NOTES:

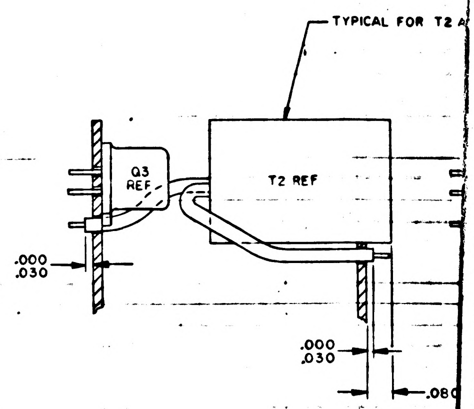
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND 1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES


C15 REF
(−)
(+)
C31 REF

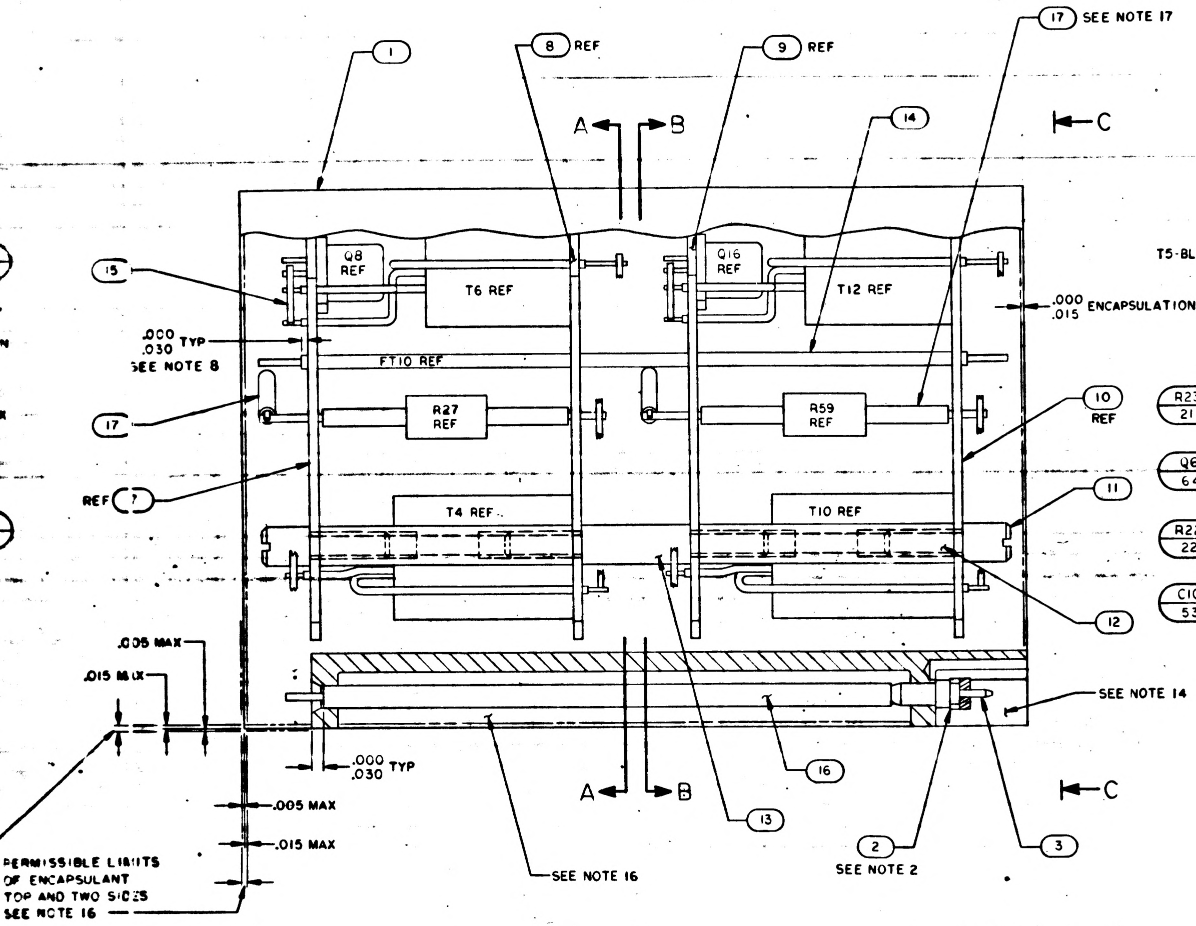
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31

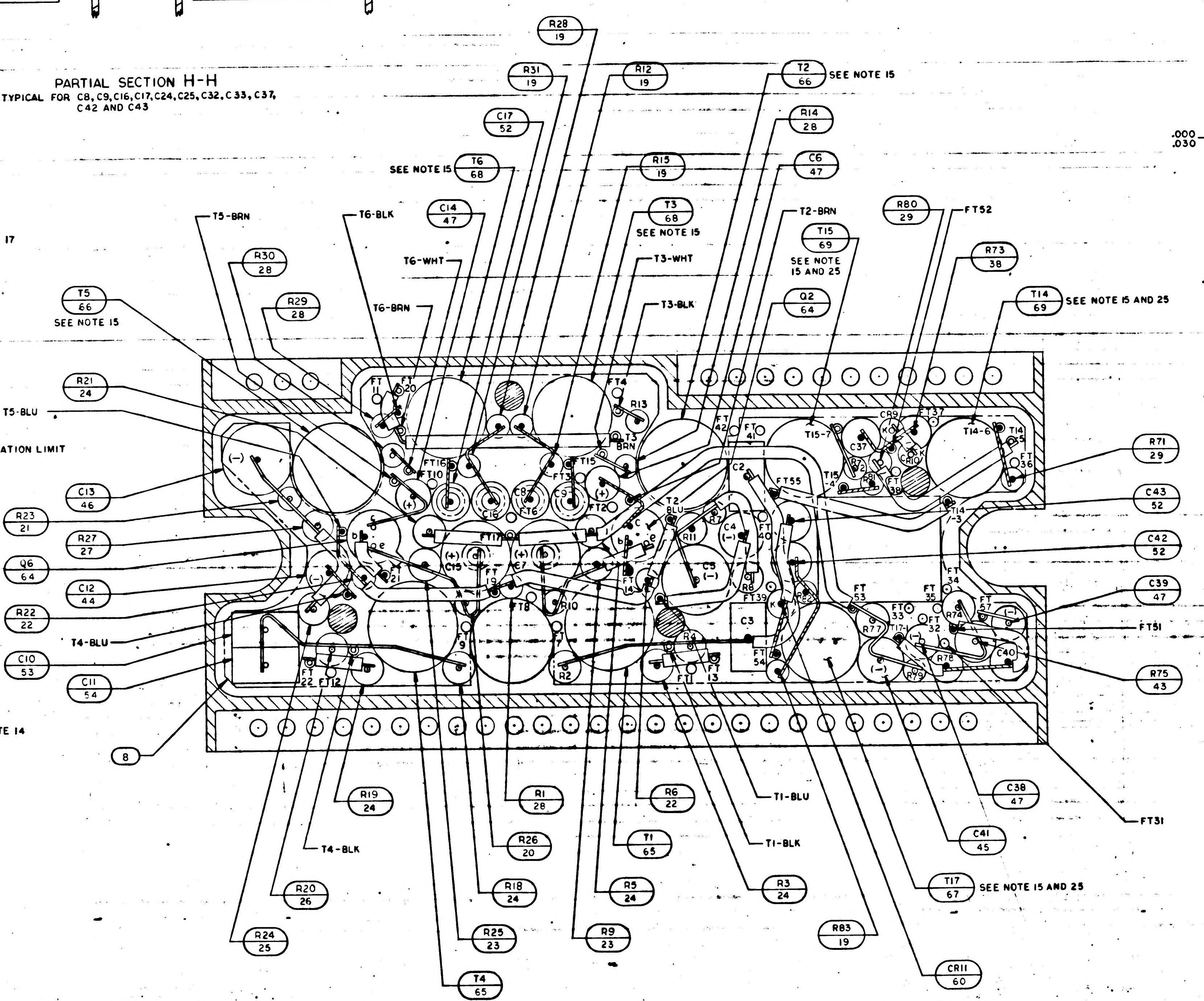

.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43


TYPICAL FOR T2 A
Q3 REF
T2 REF
.000
.030
.000
.030
.080

PARTIAL SECT

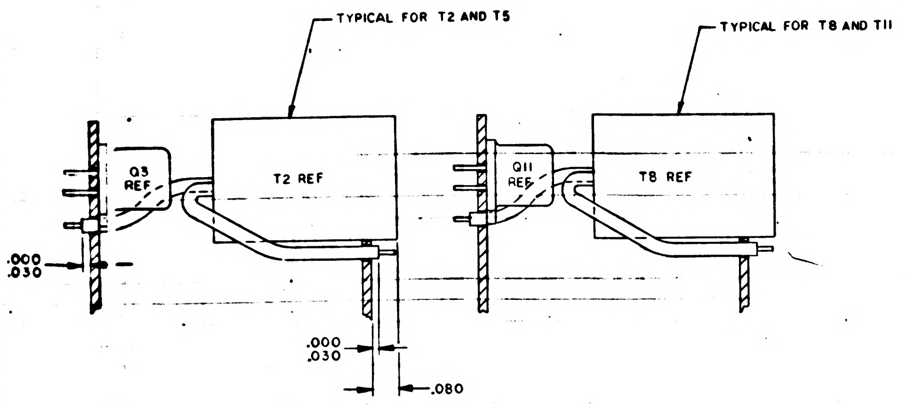

1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
15
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.030 TYP
SEE NOTE 8
.000
.015 ENCAPSULATION LIMIT
FT10 REF
17
R27 REF
R59 REF
10 REF
REF 7
11
T4 REF
T10 REF
12
.005 MAX
.015 MAX
SEE NOTE 14
.000
.030 TYP
.005 MAX
.015 MAX
16
A
B
C
13
2
3
SEE NOTE 2
SEE NOTE 16
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16


R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
T6 68 SEE NOTE 15
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
T2-BRN
R80 29
FT52
T5-BRN
T6-BLK
T15 69 SEE NOTE 15 AND 25
R73 38
R30 28
T6-WHT
T3-WHT
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
T4-BLU
FT51
C10 53
R75 43
C11 54
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
FT31
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65
C3
C4
C5
C2
C8
C9
C15
C16
C37
C40
FT55
FT53
FT54
FT39
FT40
FT41
FT42
FT32
FT33
FT34
FT35
FT36
FT37
FT38
FT11
FT12
FT13
FT14
FT15
FT16
FT17
FT19
FT20
FT21
FT22
R2
R4
R7
R8
R10
R11
R13
R74
R76
R77
R78
R79
T14-6
T14-7
T15-7
T17-1
T3 BRN
T2 BLU
(+)
(−)

SECTION A-A

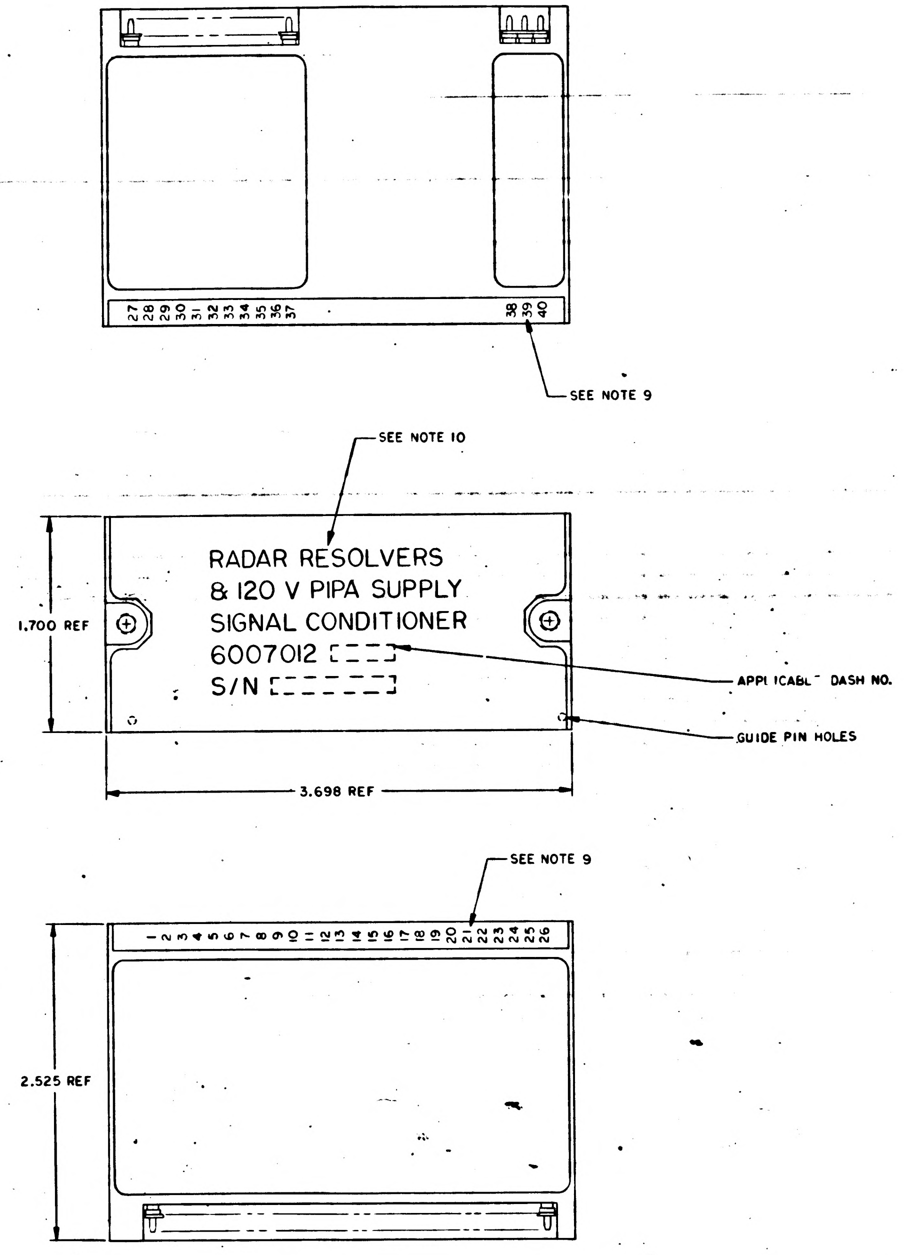
	6007012	G

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541		
D	REVISED PER TDRR 29921	13-JUL-66	B. / PZ
E	REVISED PER TDRR30151	20 JUL 66	A.N.
F	REVISED PER TDRR 30249	17 AUG 66	JL
G	REVISED PER TDRR 30326	24 AUG 66	JL



TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q5 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J



27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012
S/N
APPLICABLE DASH NO.
GUIDE PIN HOLES
1.700 REF
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW

SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	100675[illegible]-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-9	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1
-011	LIST OF MATERIALS		

6007012 G

4H

6007013	
6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 20 Apr 66
CHECKED
APPROVAL
APPROVAL 5 Apr 66
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J NASA DRAWING NO. 6007012
SCALE 5/1 WT SHEET 1 OF 2

6007012 G

3/6007012

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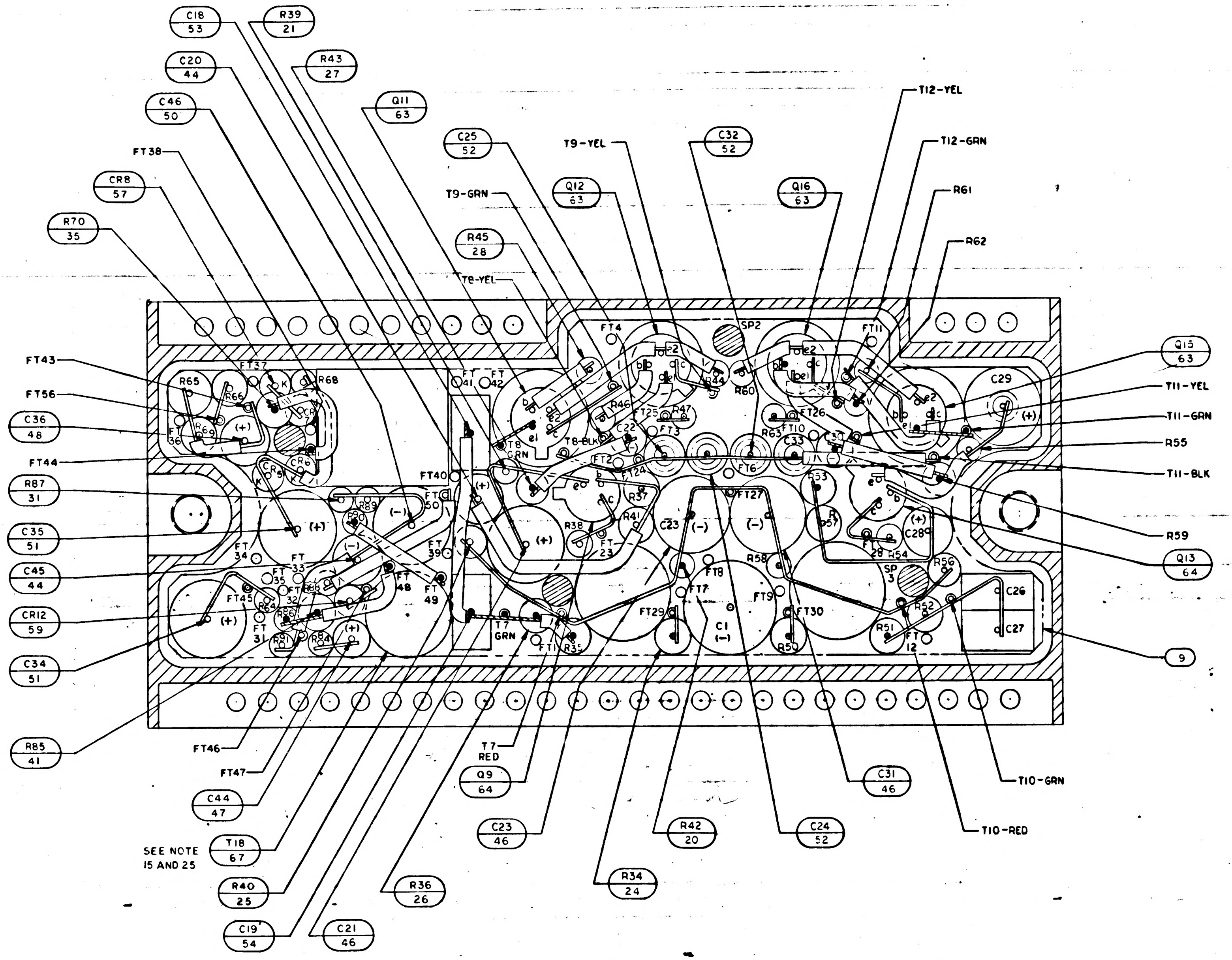
D

C


C18 53
R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T9-GRN
Q12 63
Q16 63
T12-YEL
T12-GRN
R61
R62
R45 28
T8-YEL
FT4
SP2
FT11
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
R65
R66
R68
C29
(+)
(-)
FT40
FT41
FT42
R46
R47
R60
R63
C33
FT26
FT10
FT27
FT6
FT24
FT25
R37
R38
R41
C23
C28
R54
R53
R56
C26
C27
R58
FT18
FT9
FT29
FT30
C1
R50
R51
R52
FT12
SP3
FT45
FT48
FT49
FT39
T8-BLK
T8 GRN
T7 GRN
FT46
FT47
C44 47
T18 67
SEE NOTE 15 AND 25
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-RED
T10-GRN

SECTION B-B

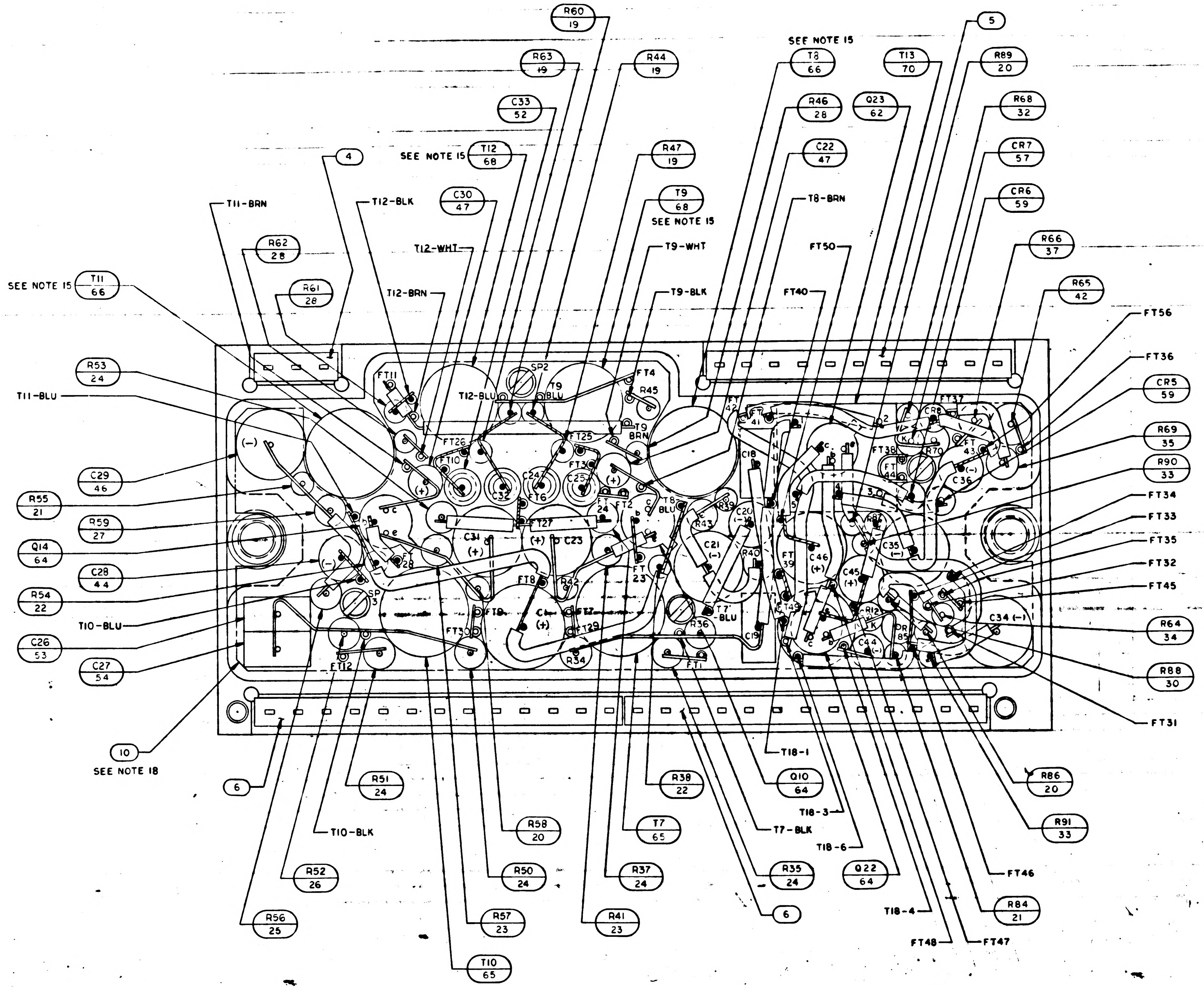
B

VIEW SHOWN FOR REFERENCE ONLY

A

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/3/66	WK
D		REVISION STATUS CHANGED	B.	PJ	13 JUL 66	
E		REVISED PER TDRR 30151	A.N.		20 JUL 66	
F		REVISION STATUS CHANGED		JI	7 AUG 66	
G		REVISION STATUS CHANGED		JI	24 AUG 66	

VIEW SHOWN FOR REFERENCE ONLY


R60 19
R63 19
R44 19
C33 52
T12 68
SEE NOTE 15
4
C30 47
R47 19
T9 68
SEE NOTE 15
T11-BRN
T12-BLK
T12-WHT
T9-WHT
R62 28
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R58 20
R50 24
R56 25
R57 23
T10 65
R41 23
R37 24
T7 65
R38 22
T7-BLK
R35 24
6
Q10 64
T18-1
T18-3
T18-6
Q22 64
T18-4
FT48
FT47
R84 21
FT46
R91 33
R86 20
FT31
R88 30
R64 34
FT45
FT32
FT35
FT33
FT34
R90 33
R69 35
CR5 59
FT36
FT56
R65 42
R66 37
CR6 59
CR7 57
R68 32
R89 20
5
T13 70
Q23 62
T8 66
R46 28
C22 47
T8-BRN
FT50
FT40
SEE NOTE 15
SP2
FT4
R45
T9 BLU
T12-BLU
FT26
FT10
FT11
FT25
C24
C25
C32
T6
FT27
C31
C23
FT8
R42
C
FT3
FT9
FT29
R34
FT1
R36
T7 BLU
C19
C18
C20
C21
R40
R43
FT39
C46
C45
C35
C36
C34 (−)
C44
R12
CR8
R70
FT38
FT37
FT44
FT41
FT42
FT43
FT12
SP3
FT28
FT23
FT24
FT2

VIEW C-C

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers 24-2-66
CHECKED
APPROVED 5 Apr 66
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007012
SCALE 5/1 SHEET 2 OF 2

6007012 G

6007012 | G

3H

2/6007012

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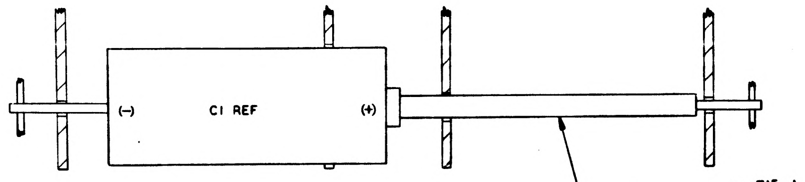
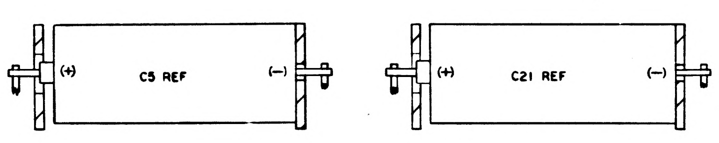
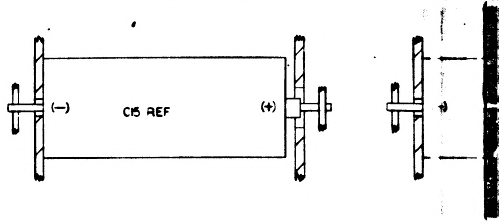


PARTIAL SECTION D-D

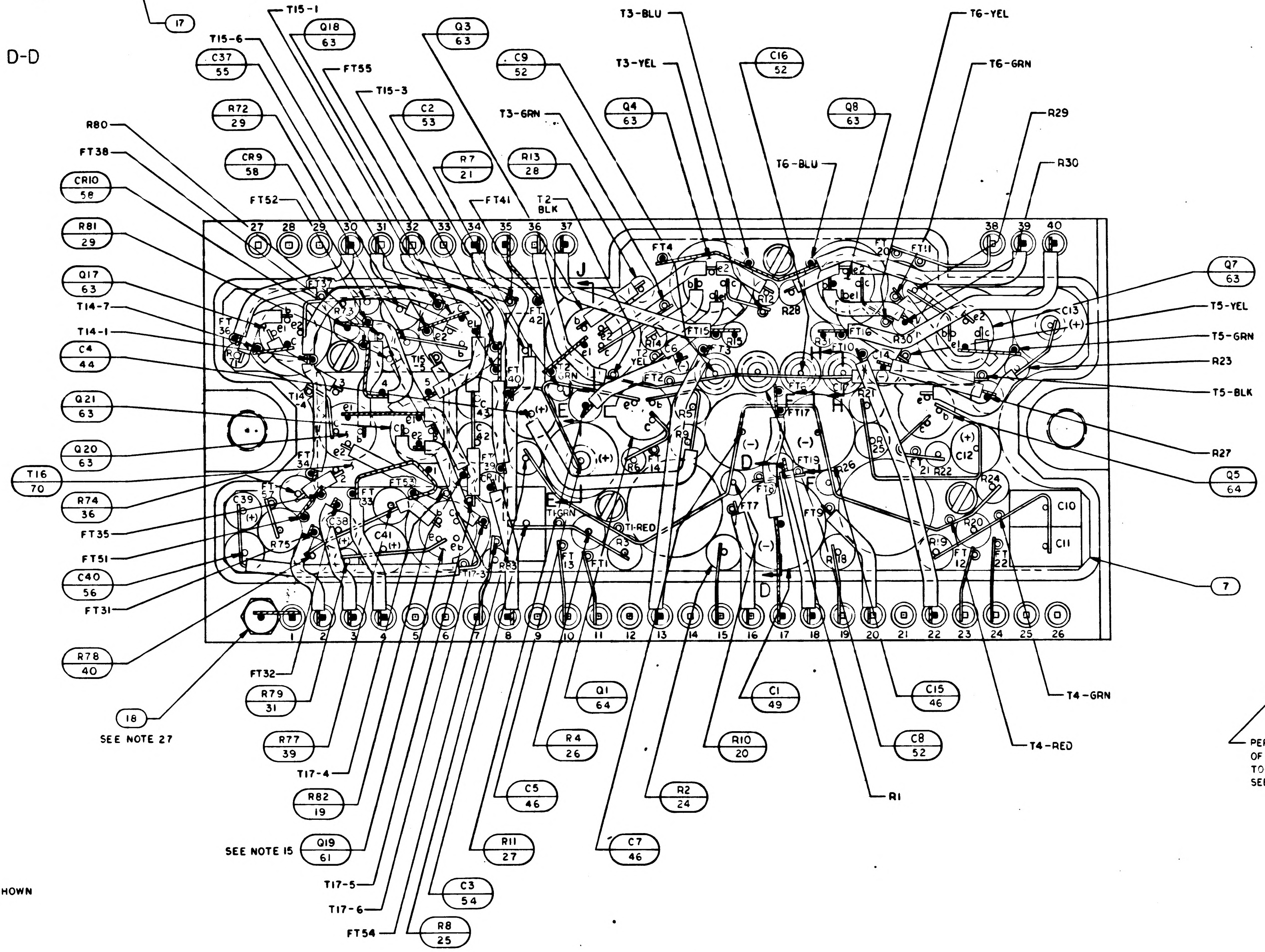


(+)
C5 REF
(−)
(+)
C21 REF
(−)

PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AN. C3



T15-1
Q18 63
T15-6
C37 55
FT55
T15-3
R72 29
C2 53
R80
FT38
CR9 58
CR10 58
FT52
R7 21
R13 28
FT41
T2 BLK
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
Q3 63
C9 52
Q4 63
T3-BLU
T3-YEL
T3-GRN
C16 52
Q8 63
T6-BLU
T6-YEL
T6-GRN
R29
R30
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
C3 54
R8 25
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
C1 49
R10 20
R1
C8 52
C15 46
T4-RED
T4-GRN
27 28 29 30 31 32 33 34 35 36 37
38 39 40
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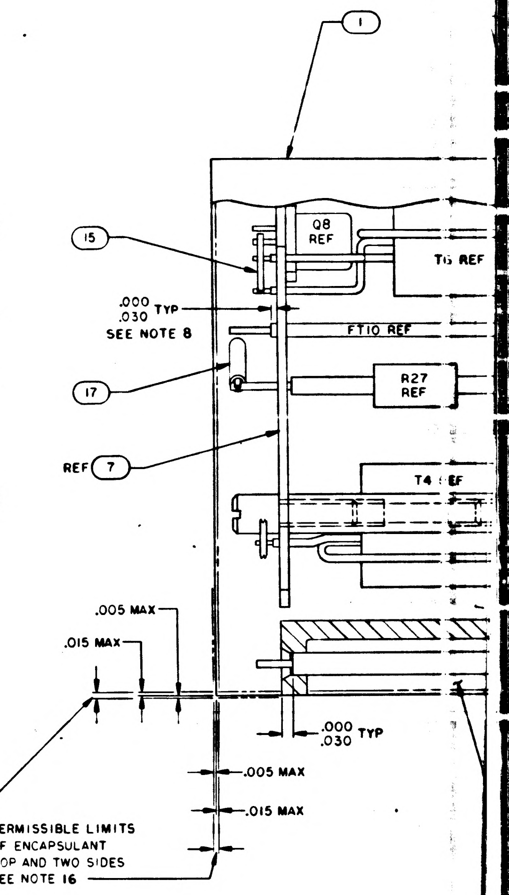
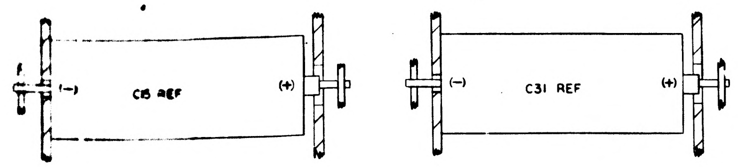
C10
C11
C12
C13
C39
C41



1
15
Q8 REF
T6 REF
.000 .030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000 .030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES
SEE NOTE 16

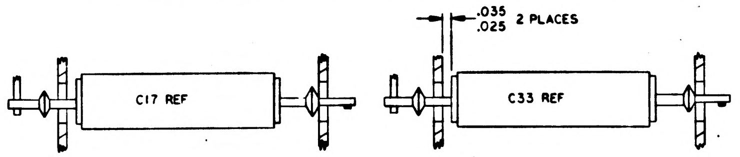
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.1C HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND 1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES



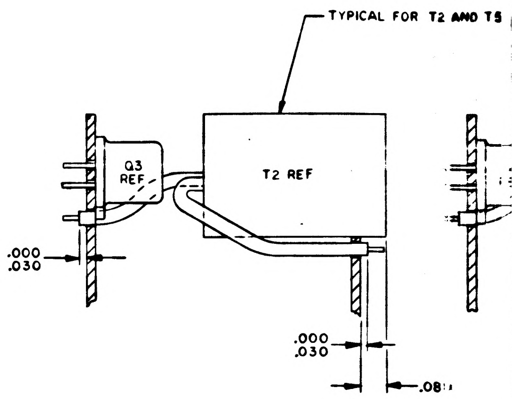
(−)
C15 REF
(+)
(−)
C31 REF
(+)

PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31



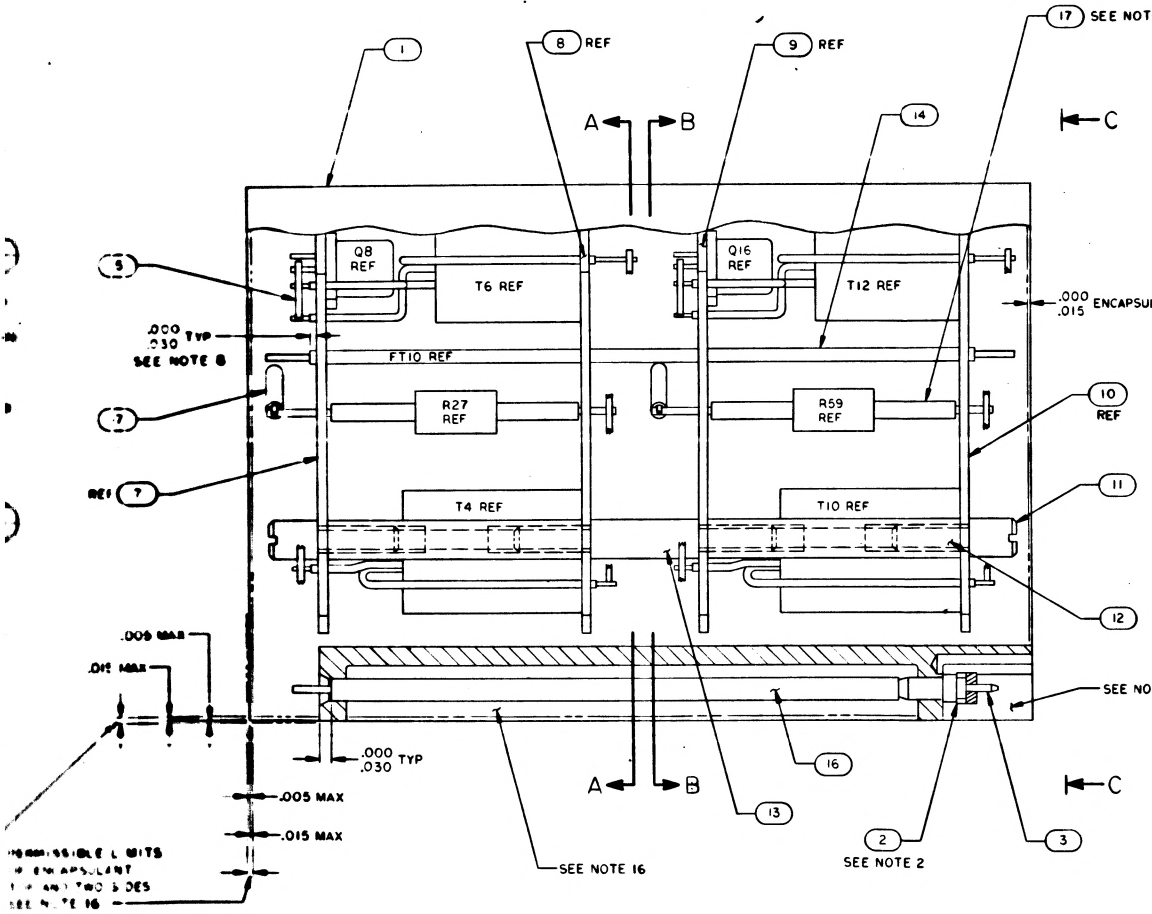
.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43

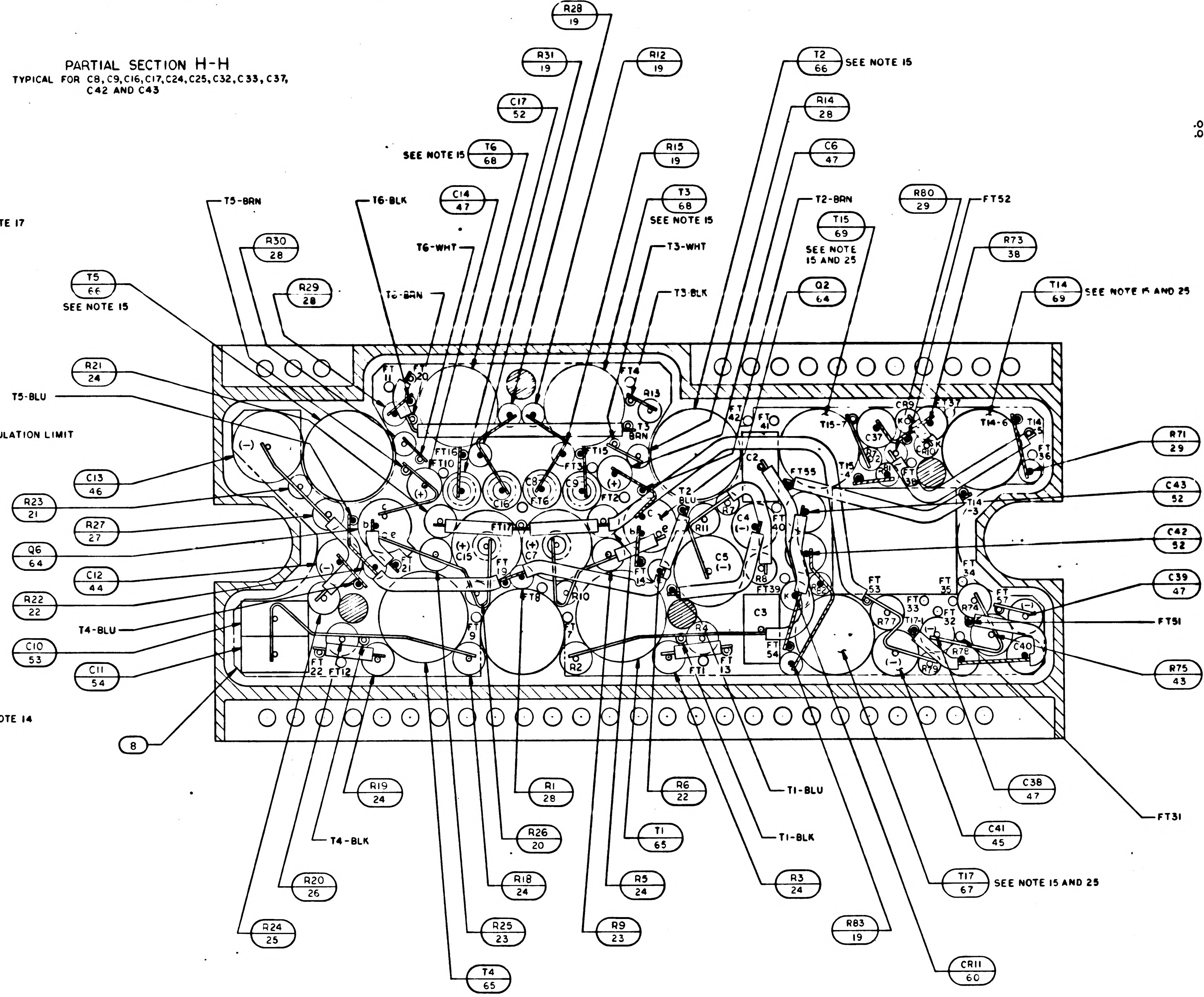


TYPICAL FOR T2 AND T5
Q3
REF
T2 REF
.000
.030
.000
.030
.08

PARTIAL SECTION J



1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
5
Q8
REF
T6 REF
Q16
REF
T12 REF
.000
.015 ENCAPSULATION LIMIT
.000
.030 TYP
SEE NOTE 8
FT10 REF
7
R27
REF
R59
REF
10
REF
REF 7
T4 REF
T10 REF
11
12
.005 MAX
.015 MAX
.000 TYP
.030
SEE NOTE 14
16
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16
.005 MAX
.015 MAX
A
B
C
13
2
SEE NOTE 2
3
SEE NOTE 16

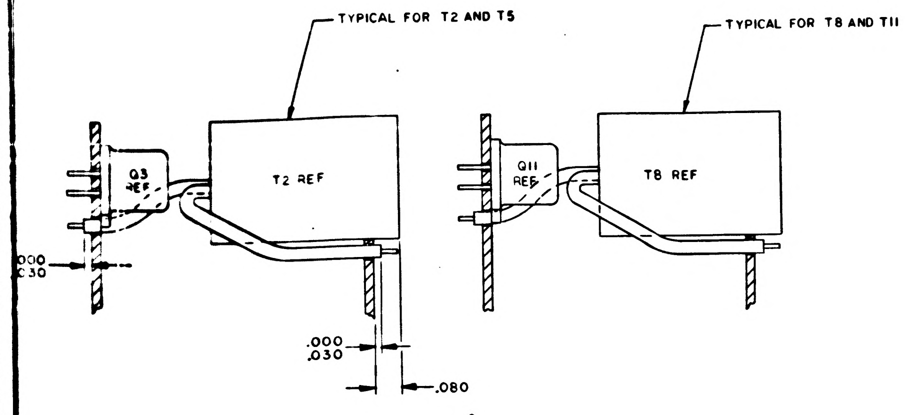


R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
C6 47
SEE NOTE 15 T6 68
R15 19
T3 68 SEE NOTE 15
C14 47
T5-BRN
T6-BLK
R30 28
T6-WHT
T3-WHT
T2-BRN
T15 69
SEE NOTE 15 AND 25
R80 29
FT52
R73 38
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
R71 29
C13 46
R23 21
C43 52
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
T4-BLU
FT51
C10 53
C11 54
R75 43
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
FT31
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65

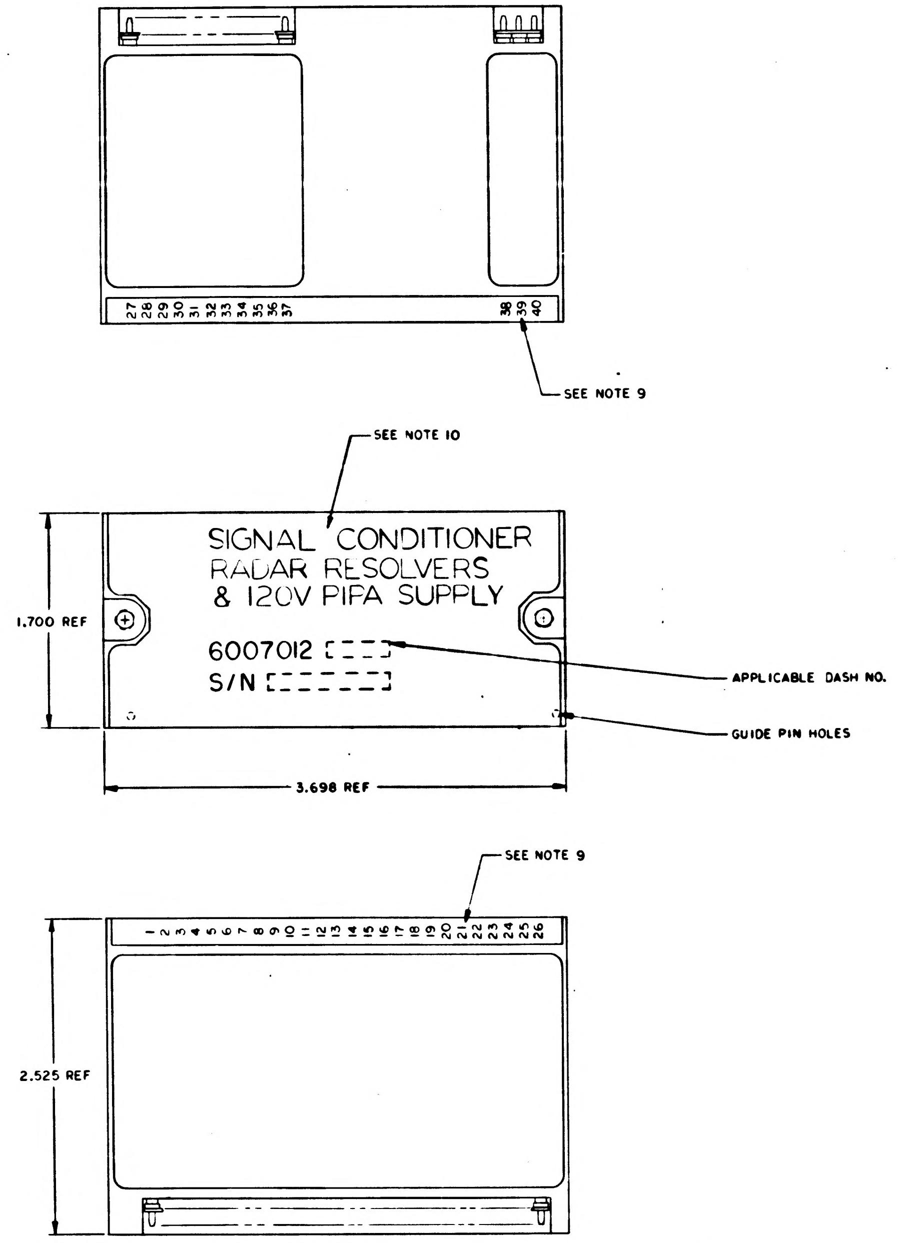
SECTION A-A

6007012 H

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	9/4/66	wk
D	REVISED PER TDRR 29921	13-JUL-66	B.
E	REVISED PER TDRR30151	20 JUL 66	A.N.
F	REVISED PER TDRR 30249	AUG 66	
G	REVISED PER TDRR 30326	AUG 66	A.W.
H	REVISED PER TDRR 30432	1 SEPT 66	JJB


TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J


27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
6007012 [---]
S/N [------]
APPLICABLE DASH NO.
GUIDE PIN HOLES
1.700 REF
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-003	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-36	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-9	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

4H

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED
APPROVAL 5 Apr 66
APPROVAL 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2

6007012 H

3/6007012

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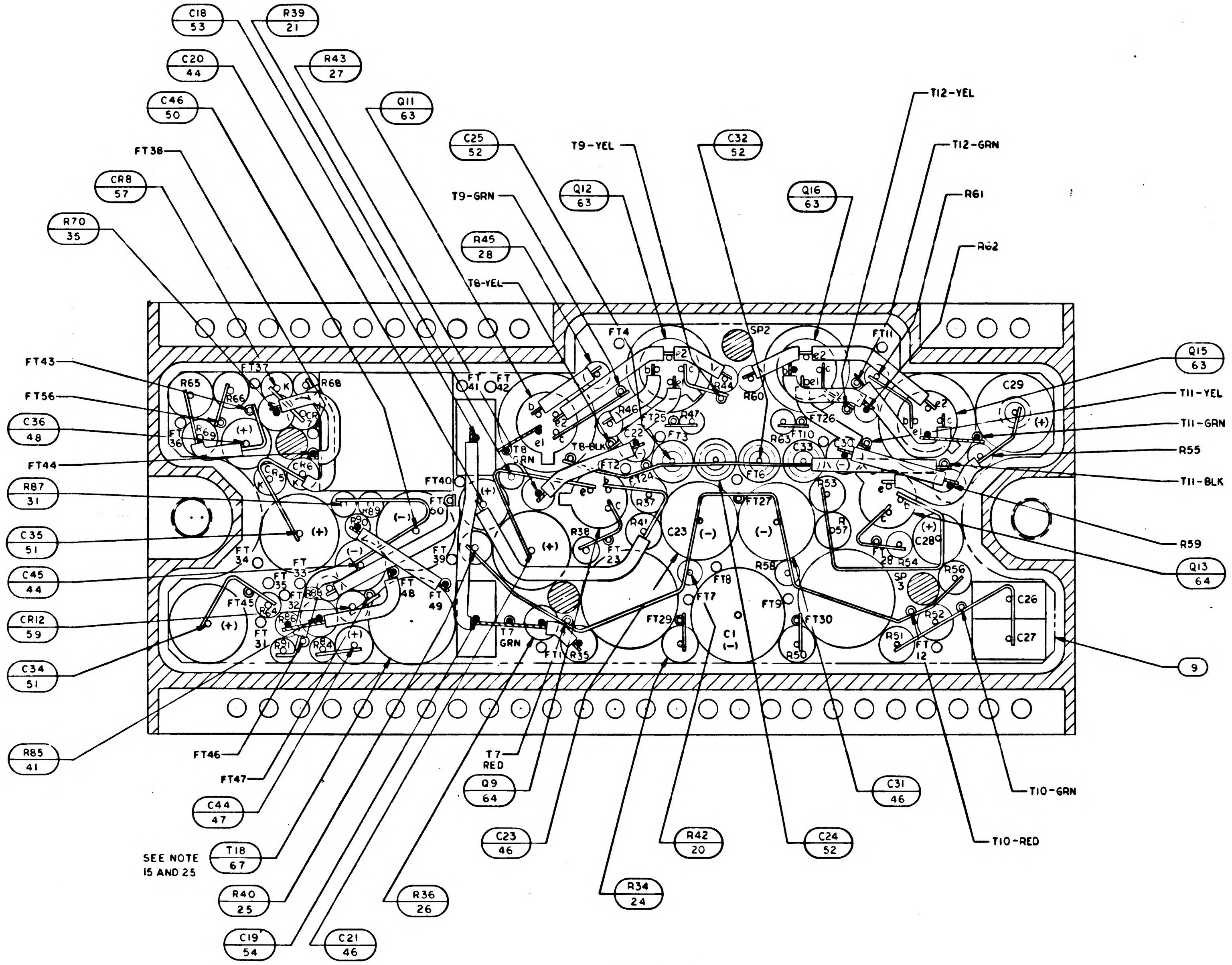
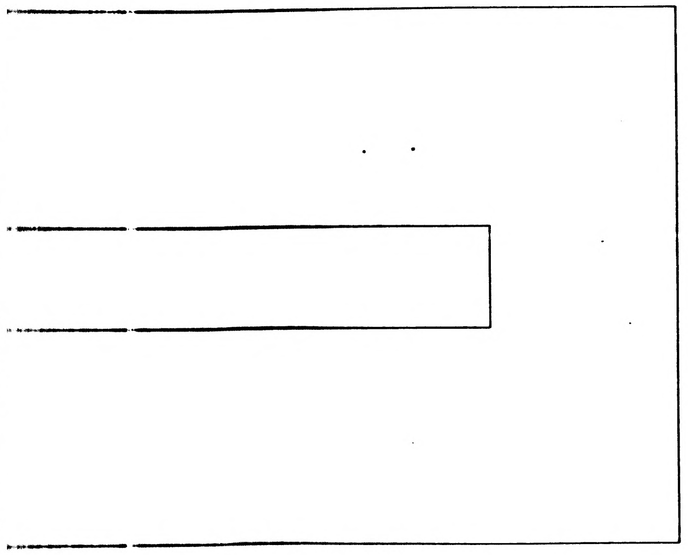

C18 53
R39 21
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T9-GRN
Q12 63
Q16 63
T12-YEL
T12-GRN
R61
R62
R45 28
T8-YEL
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT37
R65
R66
R68
CR7
R69
FT36
CR5
CR6
K
(+)
(−)
R89
R90
FT50
FT40
FT41
FT42
FT34
FT33
FT35
FT32
R88
FT45
R64
R86
FT31
R91
R84
FT48
FT49
FT39
T7 GRN
FT1
R35
T8 GRN
T8-BLK
FT4
b
c
e1
e2
R46
FT25
R47
C22
FT2
FT24
FT3
R37
R38
R41
FT23
R44
SP2
R60
FT6
FT27
C23
FT8
FT7
FT29
C1 (−)
FT9
FT30
R50
R58
R63
FT10
C33
FT26
C30
FT11
C29
R53
R57
FT28
R54
C28
SP3
R56
R52
R51
FT12
C26
C27
FT46
FT47
C44 47
T7 RED
Q9 64
T18 67
C23 46
R42 20
C24 52
C31 46
T10-GRN
T10-RED
R40 25
R36 26
R34 24
C19 54
C21 46

SEE NOTE 15 AND 25

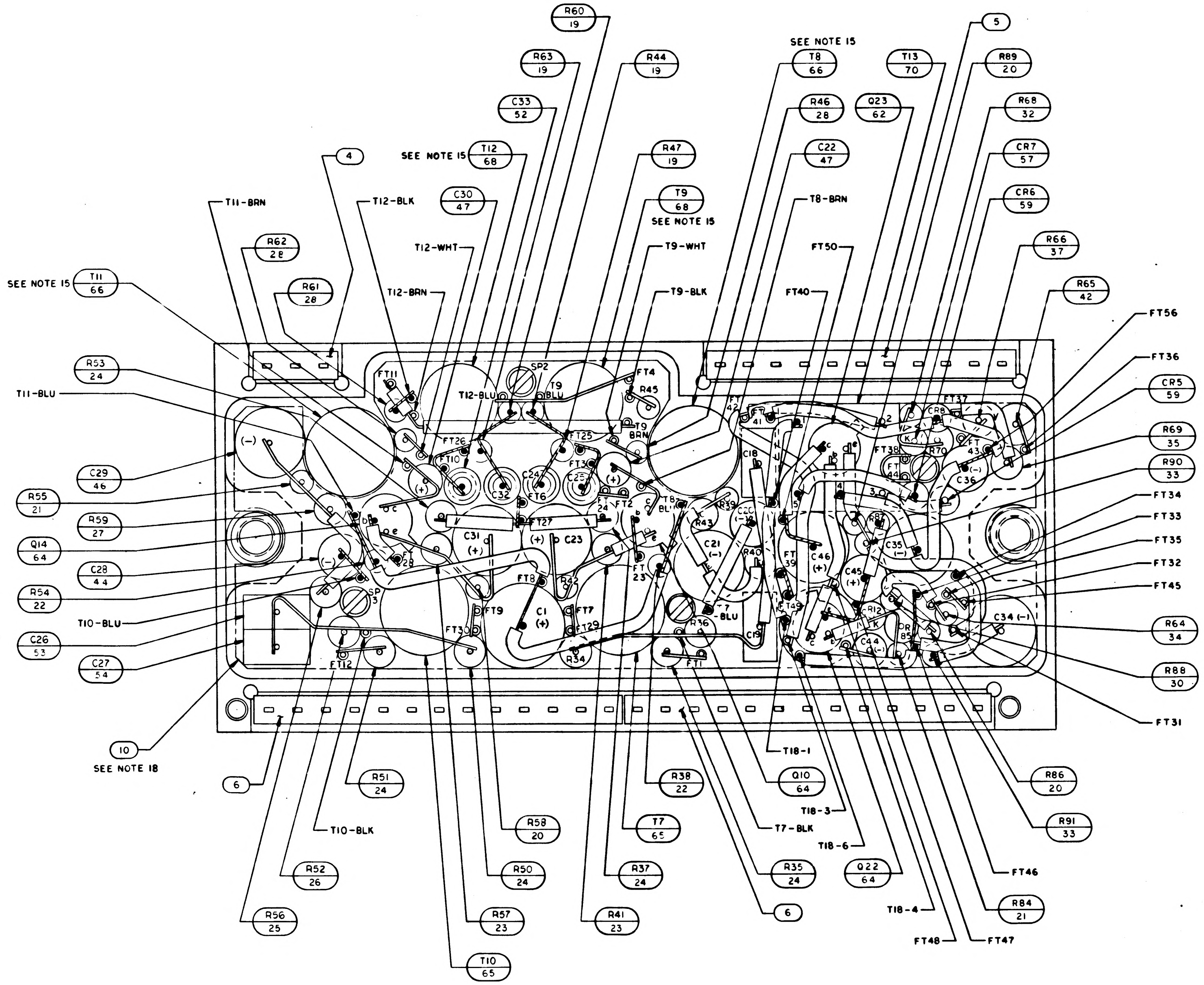
SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/3/66	WK
D		REVISION STATUS CHANGED	D.	PJ	13-JUL-66	
E		REVISED PER TDRR 30151	AN		20 JUL 66	
F		REVISION STATUS CHANGED	D.J.V.	JI	7 AUG 66	
G		REVISION STATUS CHANGED	RW	JI	24 AUG 66	
H		REVISION STATUS CHANGED	JJB	JI	1 SEP 66	



VIEW SHOWN FOR REFERENCE ONLY



R60 19
R63 19
R44 19
C33 52
SEE NOTE 15
T12 68
R47 19
4
C30 47
T9 68
SEE NOTE 15
T11-BRN
T12-BLK
T12-WHT
T9-WHT
R62 28
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
T8 66
SEE NOTE 15
T13 70
R89 20
5
R46 28
Q23 62
R68 32
C22 47
CR7 57
T8-BRN
CR6 59
FT50
R66 37
FT40
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R86 20
R91 33
T18-1
Q10 64
T18-3
T7-BLK
T18-6
R35 24
Q22 64
6
T18-4
FT46
R84 21
FT48
FT47
SP2
FT11
FT4
R45
T12-BLU
T9 BLU
T9 BRN
FT26
FT10
FT25
FT6
C24
C25
C32
FT3
FT27
C31
C23
C1
FT7
FT29
FT8
FT9
FT33
FT12
R42
R34
SP
T8 BLU
FT2
FT 23
R43
R39
C21
R40
R36
T7 BLU
FT1
C18
FT 39
C46
C45
T49
C35
CR8
FT 41
FT 42
FT37
FT38
R70
FT 43
C36
C34
C44
R12
CR 8
(+)
(-)

VIEW C-C

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Ed Powers	24-2-66
CHECKED	R.P. Kerrigan	
APPROVED	Burder	5 APR 66
APPROVED		
APPROVED MIT	W Kupfer	
APPROVED MSC		DATE

RADAR RESOLVERS
&120V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6007012
SCALE 5/1		SHEET 2 OF 2

6007012 H

3H

6007012 H

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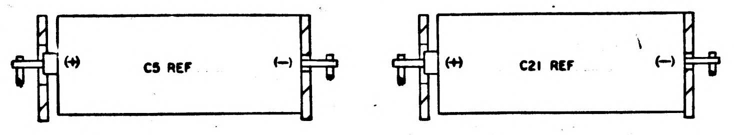
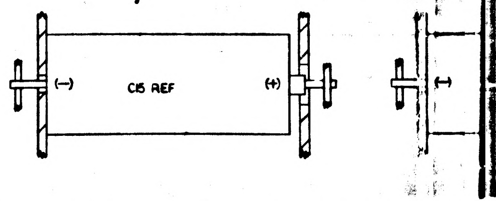
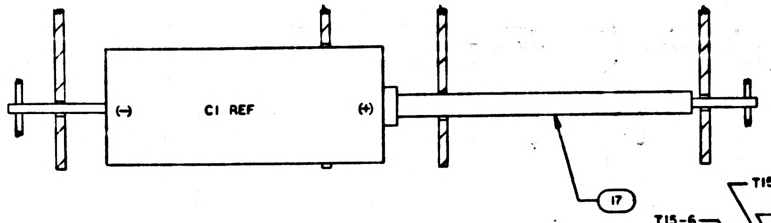

(+)
C5 REF
(−)
(+)
C21 REF
(−)

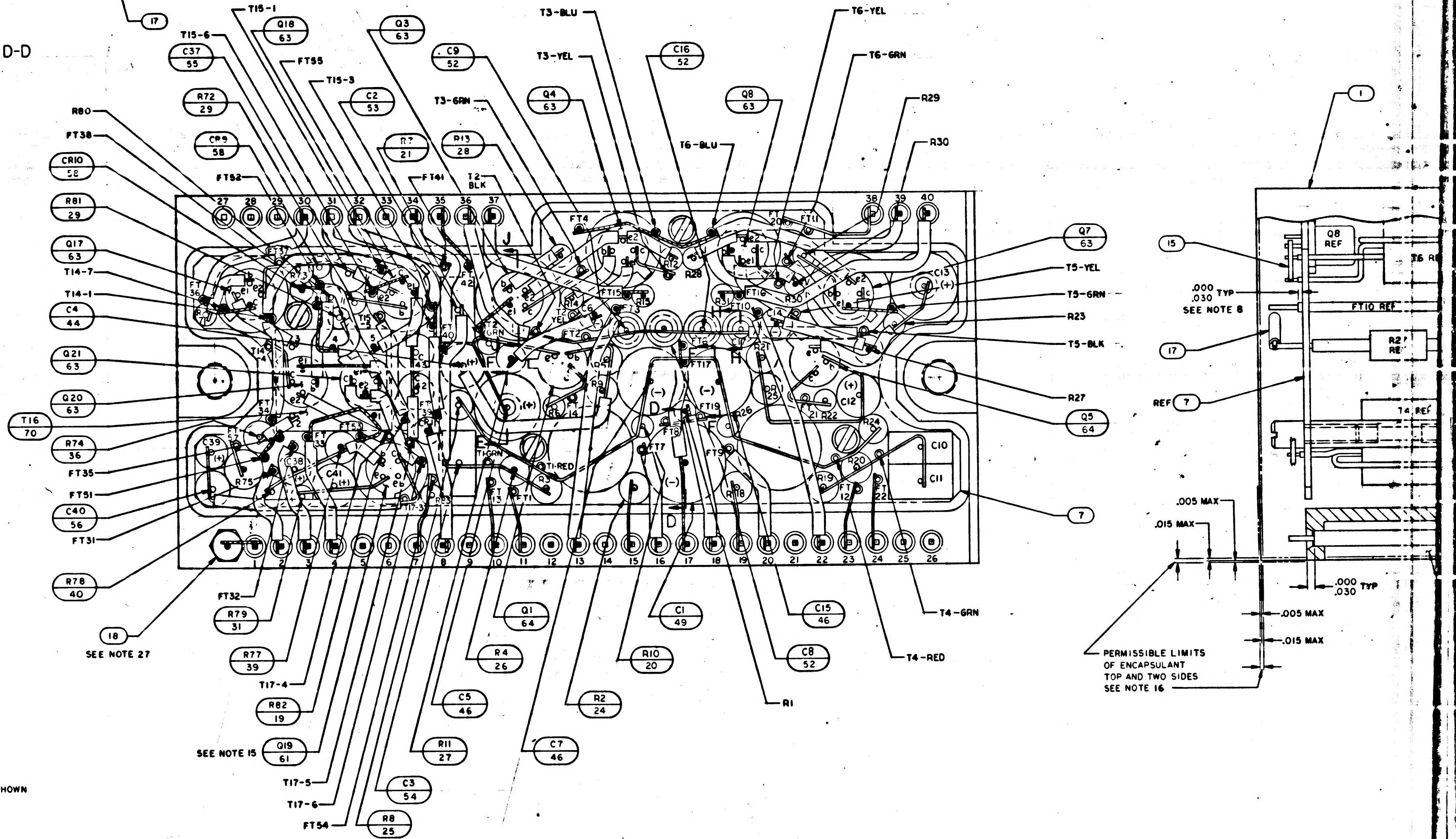
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C3

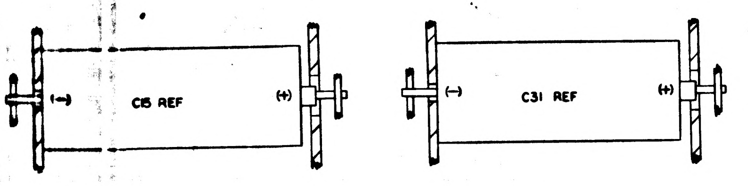


PARTIAL SECTION D-D


T15-1
Q18 63
T15-6
C37 55
FT55
Q3 63
T15-3
C2 53
C9 52
T3-BLU
T3-YEL
T3-GRN
Q4 63
C16 52
T6-YEL
T6-GRN
Q8 63
R29
R30
T6-BLU
R72 29
C29 58
R7 21
R13 28
T2 BLK
FT41
FT52
R80
FT38
CR10 58
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
FT32
18
SEE NOTE 27
R79 31
R77 39
T17-4
R82 19
Q19 61
SEE NOTE 15
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
Q1 64
R2 24
C7 46
R10 20
C1 49
C8 52
R1
C15 46
T4-GRN
T4-RED
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
C10
C11
1
15
Q8 REF
T6 REF
.000 .030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000 .030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES
SEE NOTE 16
27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

NOTES:

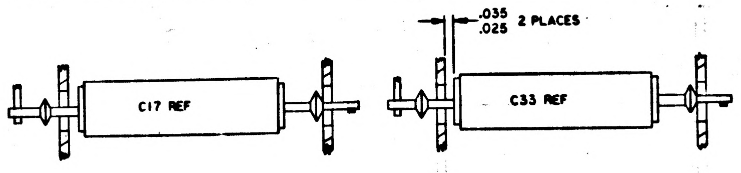
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND 1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007012.
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES



(−)
C15 REF
(+)
(−)
C31 REF
(+)

PARTIAL SECTION F-F

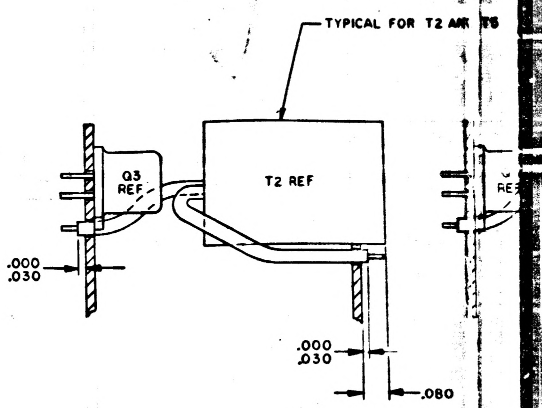
TYPICAL FOR C7, C15, C23 AND C31



.035
.025
2 PLACES
C17 REF
C33 REF

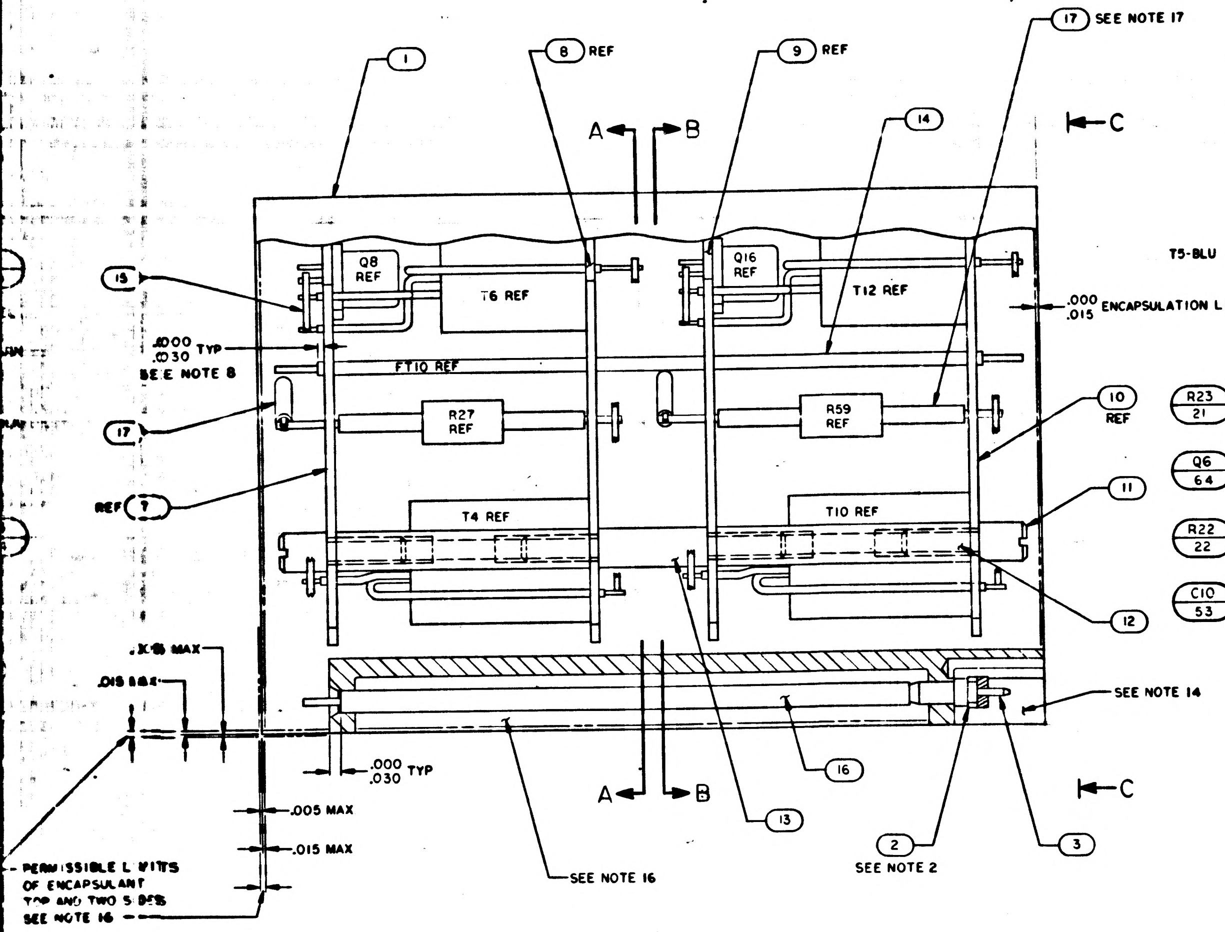
PARTIAL SECTION H-H

TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43

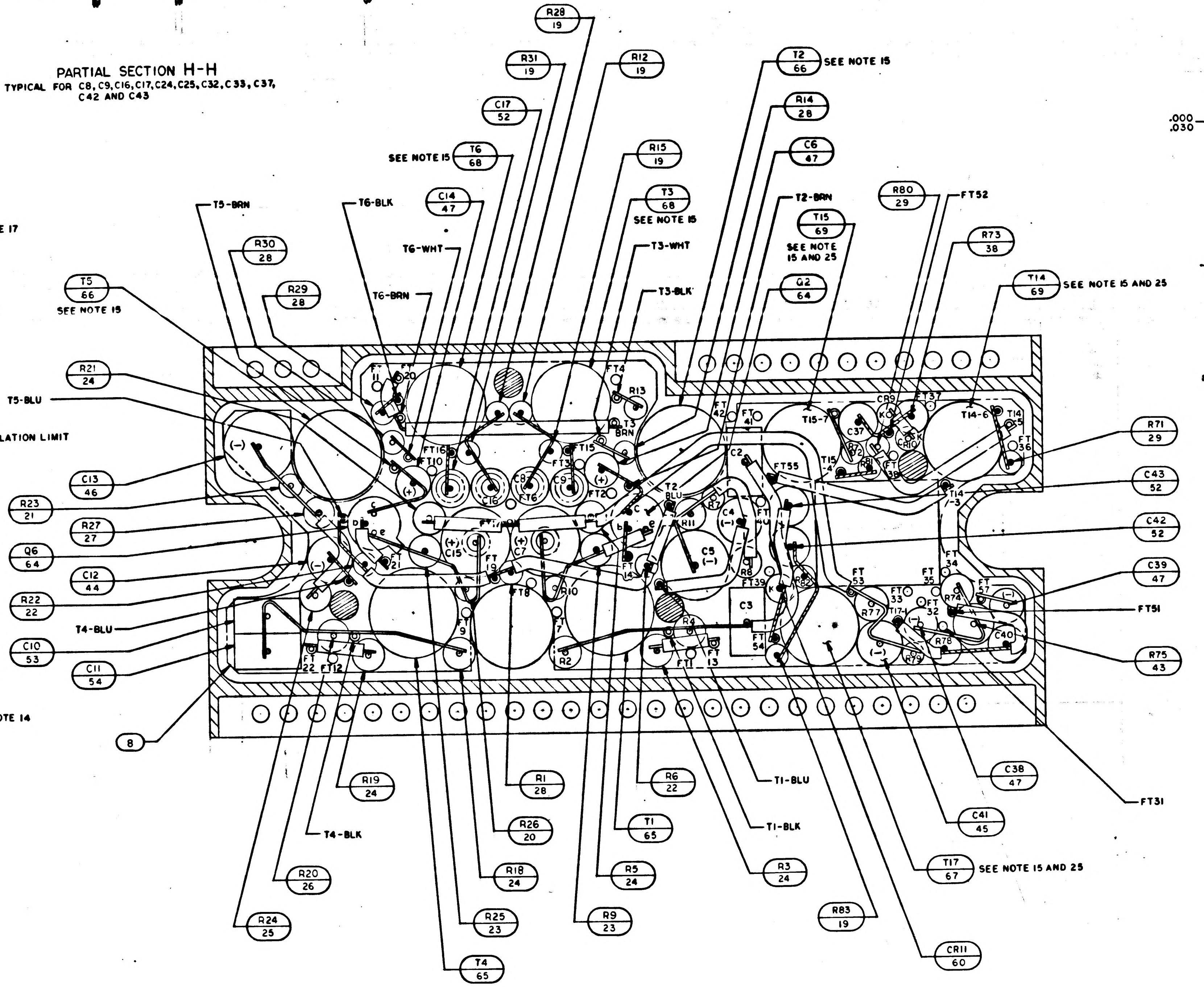


TYPICAL FOR T2 AND T6
Q3 REF
T2 REF
RE
.000
.030
.000
.030
.080

PARTIAL SECTION J



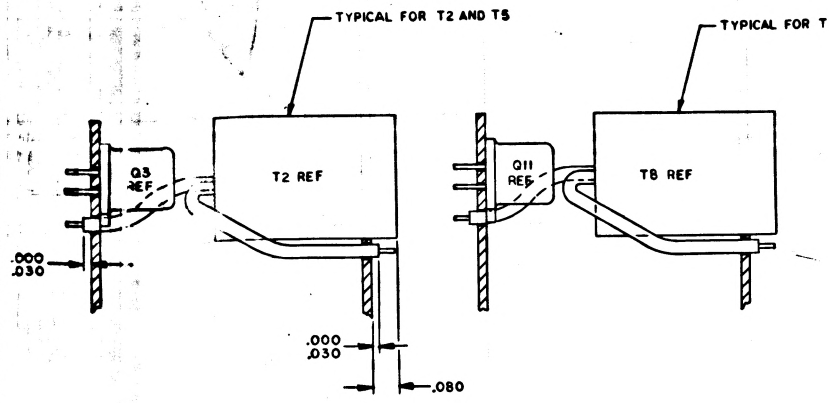
1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
15
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.015
ENCAPSULATION LIMIT
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
R59 REF
10 REF
REF 7
T4 REF
T10 REF
11
12
.XX MAX
.015 MAX
.000
.030 TYP
SEE NOTE 14
16
A
B
C
13
2
SEE NOTE 2
3
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16
SEE NOTE 16



R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
R80 29
FT52
T5-BRN
T6-BLK
T2-BRN
T15 69 SEE NOTE 15 AND 25
R73 38
R30 28
T6-WHT
T3-WHT
T14 69 SEE NOTE 15 AND 25
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
FT51
T4-BLU
C10 53
R75 43
C11 54
8
R19 24
T4-BLK
R20 26
R24 25
T4 65
R25 23
R18 24
R26 20
R1 28
R9 23
R5 24
T1 65
R6 22
T1-BLU
T1-BLK
R3 24
R83 19
T17 67 SEE NOTE 15 AND 25
CR11 60
C41 45
C38 47
FT31
C5 (−)
C3
C2
C4
C15
C7
C8
C9
C16
T15-7
T14-6
T14-3
CR9
CR10
C37
C40
R13
R11
R10
R2
R4
R7
R8
R72
R74
R76
R77
R78
R79
FT11
FT20
FT16
FT10
FT4
FT42
FT41
FT55
FT53
FT33
FT35
FT32
FT34
FT57
FT36
FT37
FT38
FT39
FT54
FT13
FT11
FT7
FT8
FT9
FT14
FT12
FT22
FT21
FT15
FT19
FT17
FT6
FT2
(+)
(−)

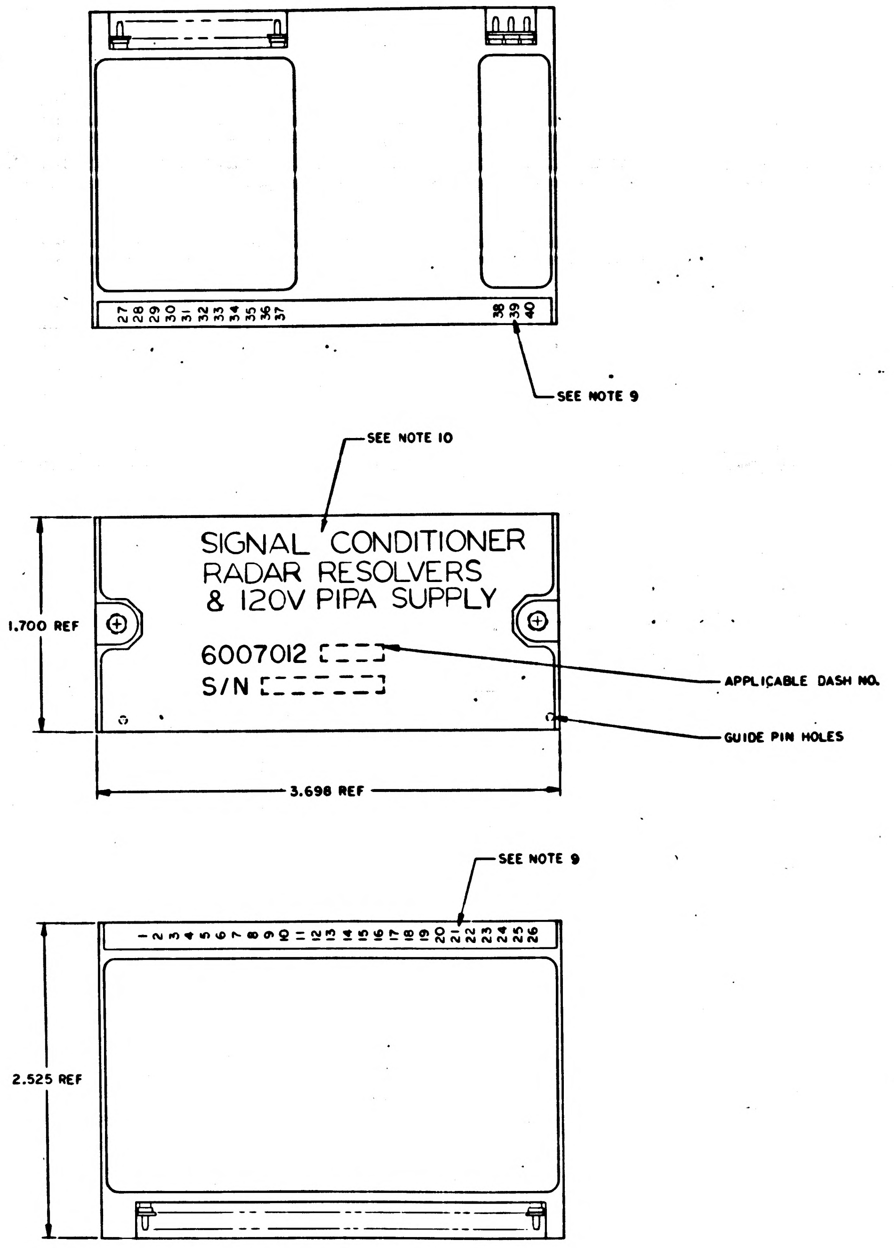
SECTION A-A

SYM	DESCRIPTION	DATE	APPROVAL
REVISIONS			
C	REPLACES WORD DWG REV B PER TDRR 28541	9/7/66	WK
D	REVISED PER TDRR 29921	13-JUL -66	B. PF
E	REVISED PER TDRR30151	20 JUL 66	AN.
F	REVISED PER TDRR 30249	17 AUG 66	JL
G	REVISED PER TDRR 30326	24 AUG 66	RLW JL
H	REVISED PER TDRR 30432	1 SEPT 66	JJB JL
J	REVISED PER TDRR 31238	28 SEP 66	TD



TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J



27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
6007012 [ ]
S/N [ ]
1.700 REF
APPLICABLE DASH NO.
GUIDE PIN HOLES
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-003	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-36	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-9	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 ... 66
CHECKED ... 4 Apr 66
APPROVAL ... 5 Apr 66
APPROVAL ... 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL ... 5 Apr 66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

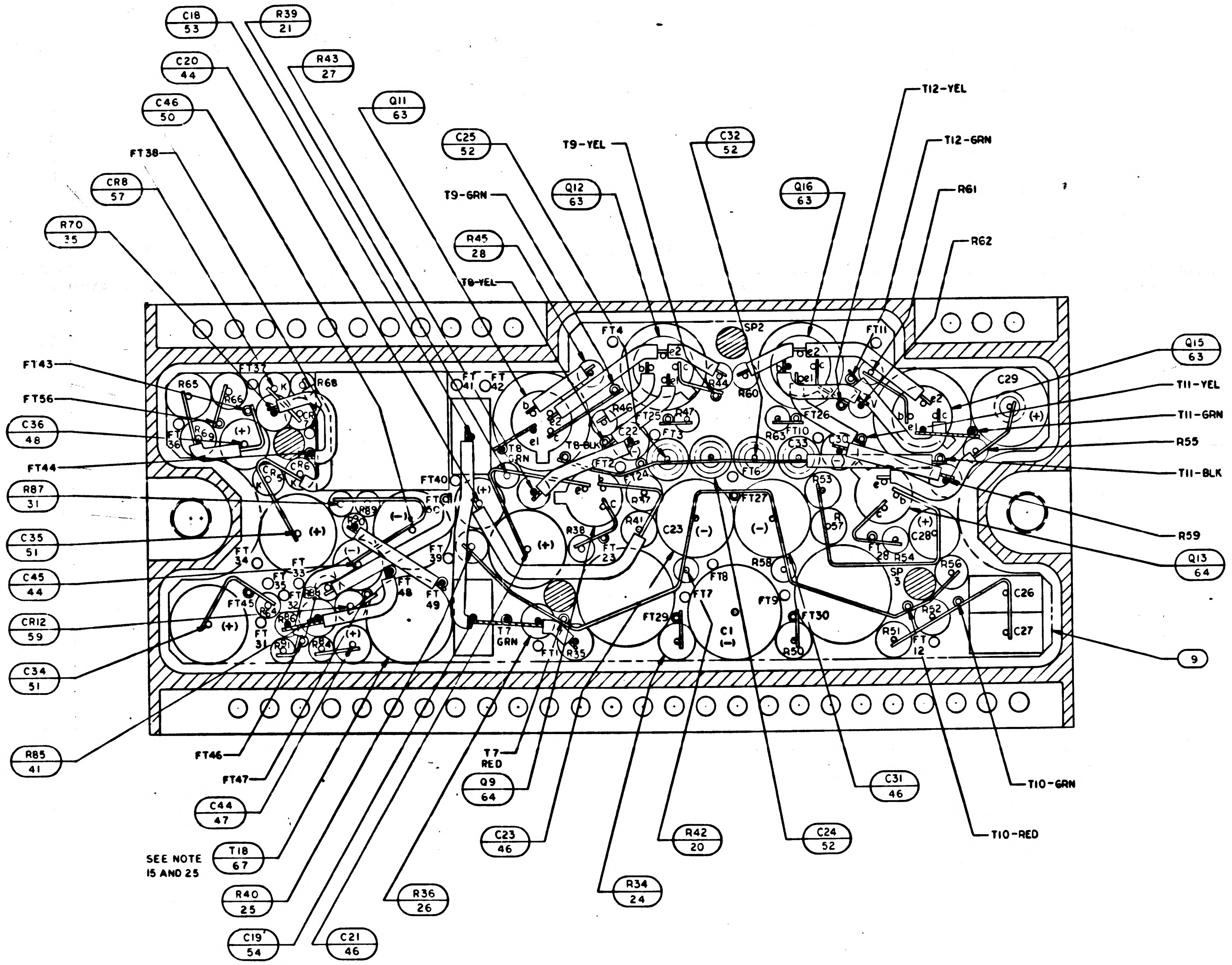
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J NASA DRAWING NO. 6007012
SCALE 5/1 WT SHEET 1 OF 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

D

C


C18 53
R39 21
C20 44
R43 27
Q11 63
C46 50
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T12-YEL
T12-GRN
R61
R62
T9-GRN
Q12 63
Q16 63
R45 28
T8-YEL
FT4
SP2
FT11
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
FT37
R65
R66
R68
CR7
R69
FT 36
CR5
CR6
K
(+)
(-)
R89
R90
FT 34
FT 33
FT 35
FT 32
FT45
R64
R86
R88
FT 31
R91
R84
FT 48
FT 49
FT 41
FT 42
FT40
FT 50
FT 39
T8 GRN
T8-BLK
T7 GRN
FT1
R35
R46
R47
R44
R60
FT25
FT3
FT2
FT24
C22
R37
R38
R41
FT 23
C23
FT8
FT7
FT29
C1 (-)
FT27
FT6
FT9
FT30
R58
R50
R63
FT10
C33
C30
FT26
R53
R57
FT 28
R54
C28
SP 3
R56
R52
R51
FT 12
C26
C27
C29
e1
e2
b
c
FT46
FT47
C44 47
T7 RED
Q9 64
C23 46
R42 20
C24 52
C31 46
T10-GRN
T10-RED
SEE NOTE 15 AND 25
T18 67
R40 25
R36 26
R34 24
C19 54
C21 46

SECTION B-B

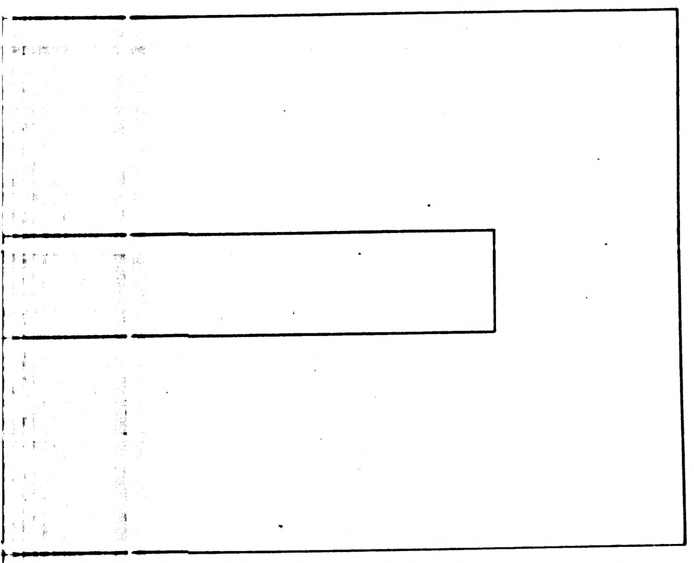
B

VIEW SHOWN FOR REFERENCE ONLY

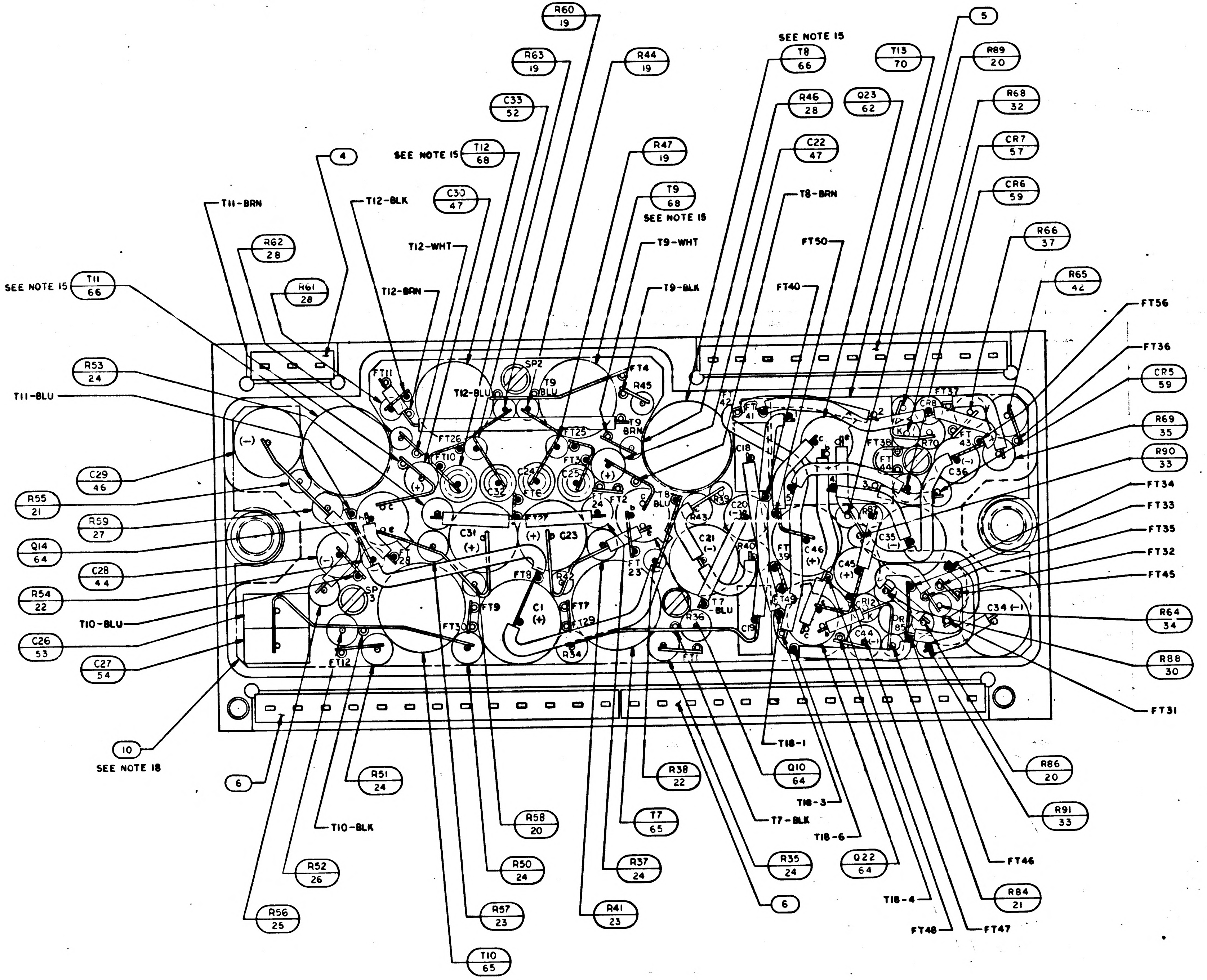
A

6007012	J

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/3/66	
D		REVISION STATUS CHANGED	J.	PJ	13-JUL-66	
E		REVISED PER TDRR30151	A.N.		20 JUL 66	
F		REVISION STATUS CHANGED		JI	17 AUG 66	
G		REVISION STATUS CHANGED	RLW	JI	24 AUG 66	
H		REVISION STATUS CHANGED	JJB	JI	1 SEP 66	
J		REVISION STATUS CHANGED	TD	RLW	28 SEP 66	



VIEW SHOWN FOR REFERENCE ONLY



R60 19
R63 19
R44 19
C33 52
SEE NOTE 15 T12 68
R47 19
4
C30 47
T11-BRN
T12-BLK
T9 68
SEE NOTE 15
T9-WHT
T12-WHT
R62 28
R61 28
T12-BRN
T9-BLK
SEE NOTE 15 T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
T7 65
R37 24
R41 23
R38 22
SEE NOTE 15 T8 66
5
T13 70
R89 20
R46 28
Q23 62
R68 32
C22 47
CR7 57
T8-BRN
CR6 59
FT50
R66 37
FT40
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R86 20
R91 33
Q10 64
T18-1
T18-3
T7-BLK
T18-6
Q22 64
R35 24
FT46
R84 21
6
T18-4
FT48
FT47
(-)
(+)
FT11
SP2
T9 BLU
FT4
R45
T12-BLU
FT26
FT10
FT25
FT3
C24
C25
C32
FT6
T9 BRN
FT2
T8 BLU
R49
R43
C20
C21
C18
R40
C19
FT39
C46
C45
C44
C35
C36
C34 (-)
FT37
CR8
R70
FT38
FT44
FT43
R12
CR 85
FT49
FT1
R36
T7-BLU
R34
FT7
FT29
C1
FT8
FT9
FT30
R42
C23
C31
FT59
FT28
SP 3
FT12
FT23
FT24

VIEW C-C

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	Ed Powers	24-3-66
CHECKED	R.P.	
APPROVED		5 Apr 66
APPROVED		5 Apr 66
APPROVED MIT	W Kaffer	
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007012
SCALE 5/1		SHEET 2 OF 2

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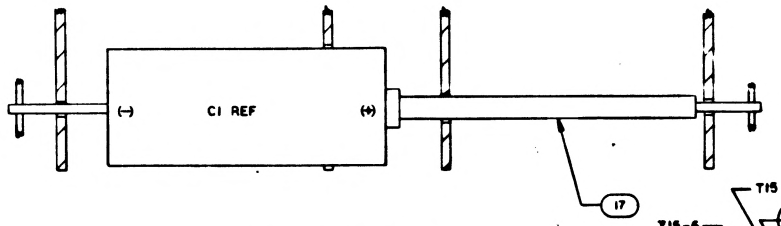
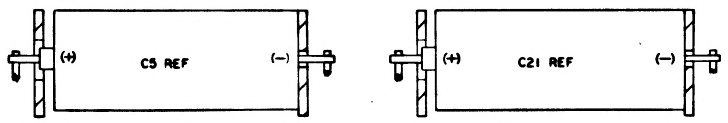
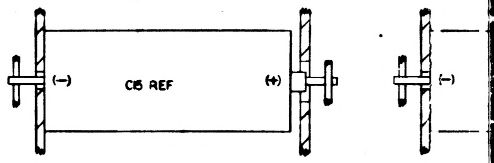


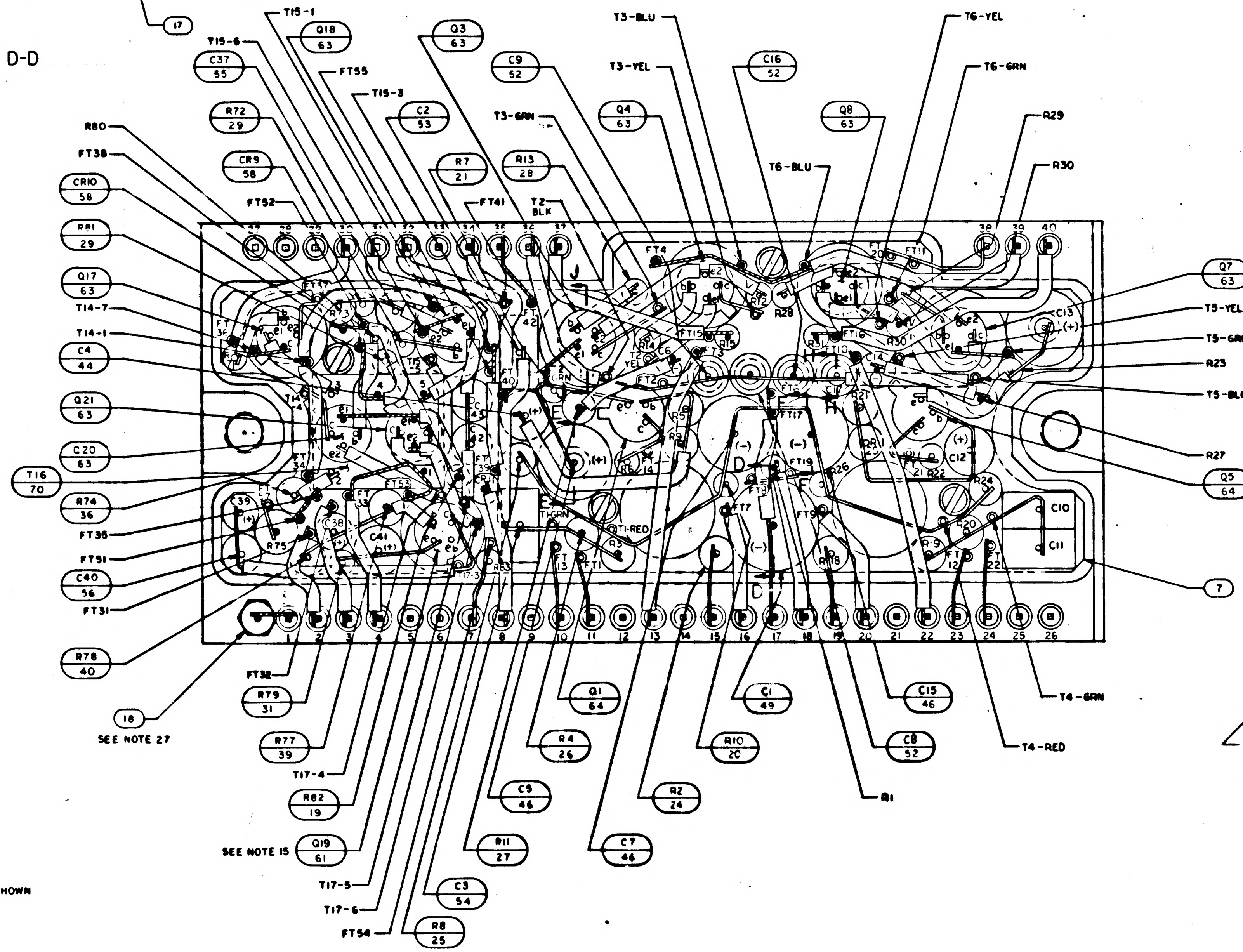
PARTIAL SECTION D-D

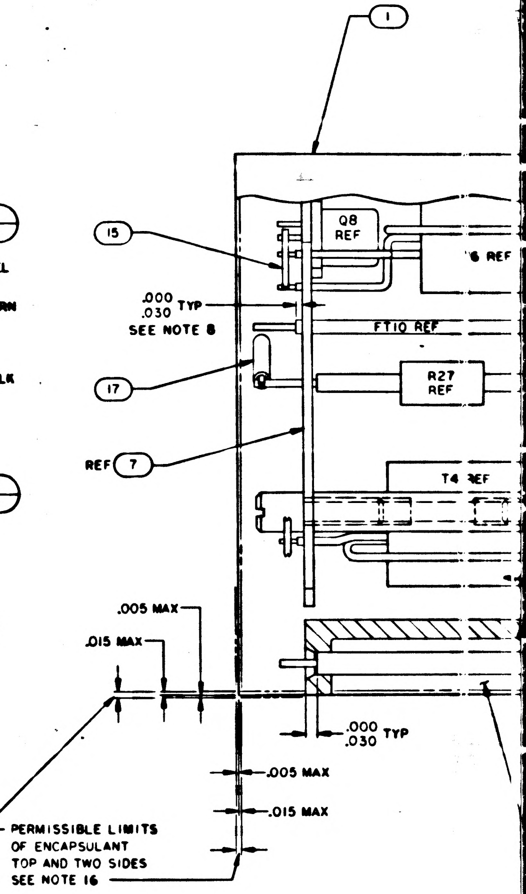

(+)
C5 REF
(–)
(+)
C21 REF
(–)

PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



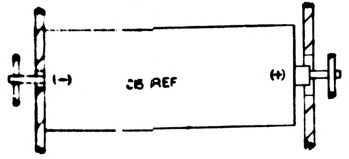
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31


T15-1
Q18 63
Q3 63
T15-6
C37 55
FT55
T15-3
R72 29
C2 53
R80
FT38
CR9 58
R7 21
CR10 58
FT52
FT41
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
C20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
C9 52
T3-BLU
T3-YEL
T3-GRN
Q4 63
R13 28
T2 BLK
C16 52
T6-BLU
Q8 63
T6-YEL
T6-GRN
R29
R30
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
Q1 64
R4 26
C5 46
R11 27
C3 54
R8 25
C7 46
R2 24
R10 20
C1 49
R1
C8 52
C15 46
T4-GRN
T4-RED
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40
C10
C11
C12
C13


1
15
Q8 REF
6 REF
.000 .030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000 .030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16

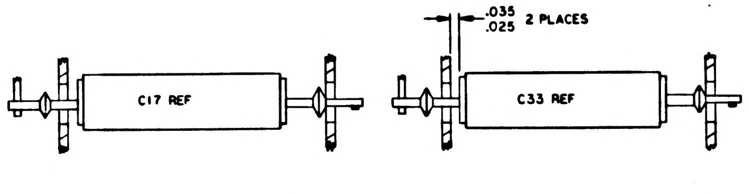
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND 1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007012.
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES


(−)
C8 REF
(+)
(−)
C31 REF
(+)

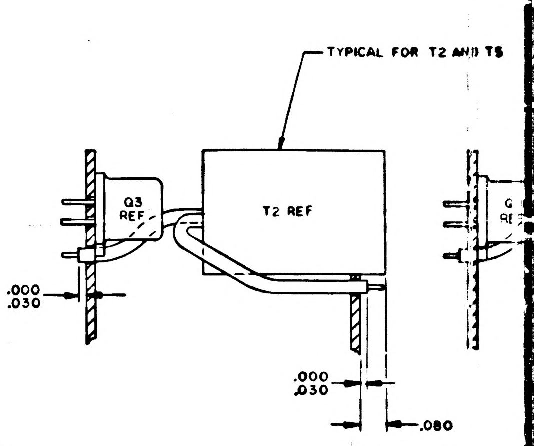
PARTIAL SECTION F-F

TYPICAL FOR C7, C15, C23 AND C31

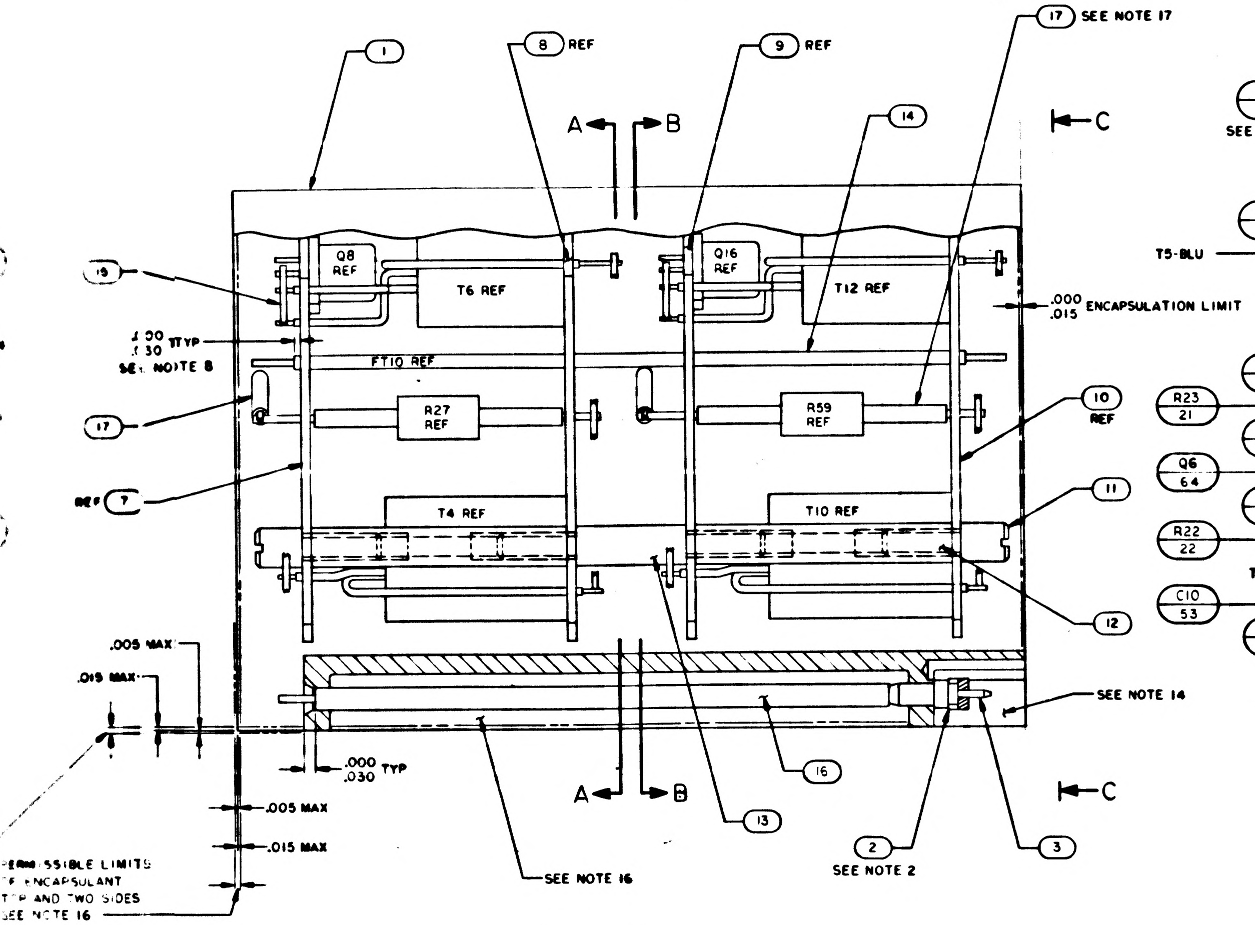

.035
.025 2 PLACES
C17 REF
C33 REF

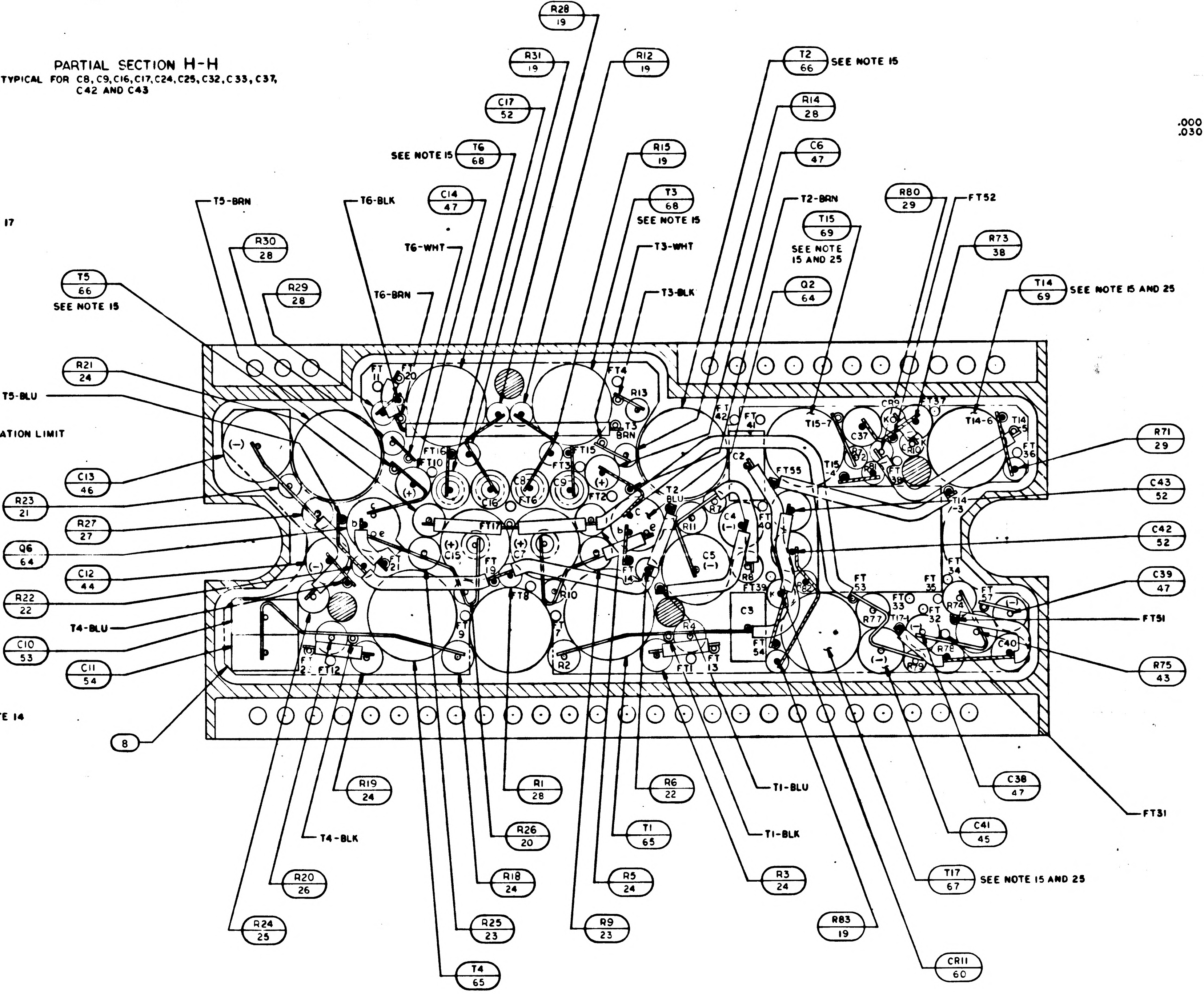
PARTIAL SECTION H-H

TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43


TYPICAL FOR T2 AND T5
Q3 REF
T2 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J


1
8 REF
9 REF
14
17 SEE NOTE 17
A
B
C
Q8 REF
T6 REF
Q16 REF
T12 REF
.000
.015 ENCAPSULATION LIMIT
19
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
R59 REF
10 REF
7 REF
T4 REF
T10 REF
11
12
.005 MAX
.015 MAX
SEE NOTE 14
.000
.030 TYP
.005 MAX
.015 MAX
A
B
C
13
16
2
SEE NOTE 2
3
SEE NOTE 16
PERMISSIBLE LIMITS OF ENCAPSULANT TYP AND TWO SIDES SEE NOTE 16

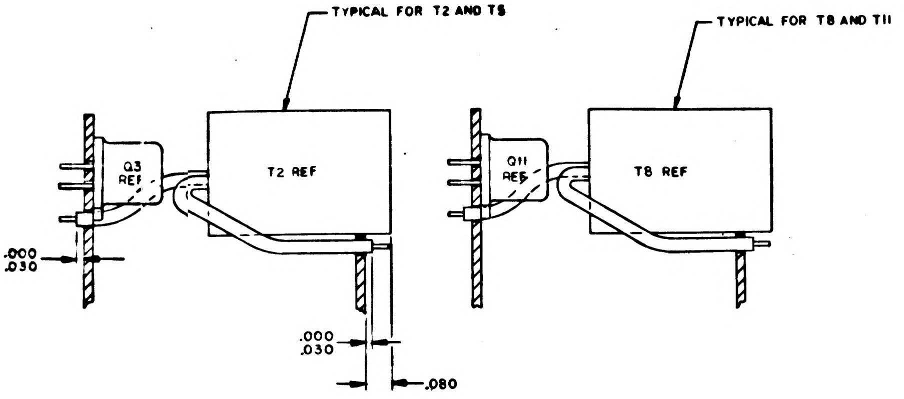

R28 19
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
R30 28
T6-WHT
T3-WHT
T2-BRN
R80 29
FT52
T15 69 SEE NOTE 15 AND 25
R73 38
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
FT51
T4-BLU
C10 53
C11 54
R75 43
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
FT31
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65
FT55
C5
C3
C4
C2
C37
C40
C15
C16
C7
C8
C9
R2
R4
R7
R11
R13
R72
R74
R76
R77
R79
T15-7
T14-6
T14-3

SECTION A-A

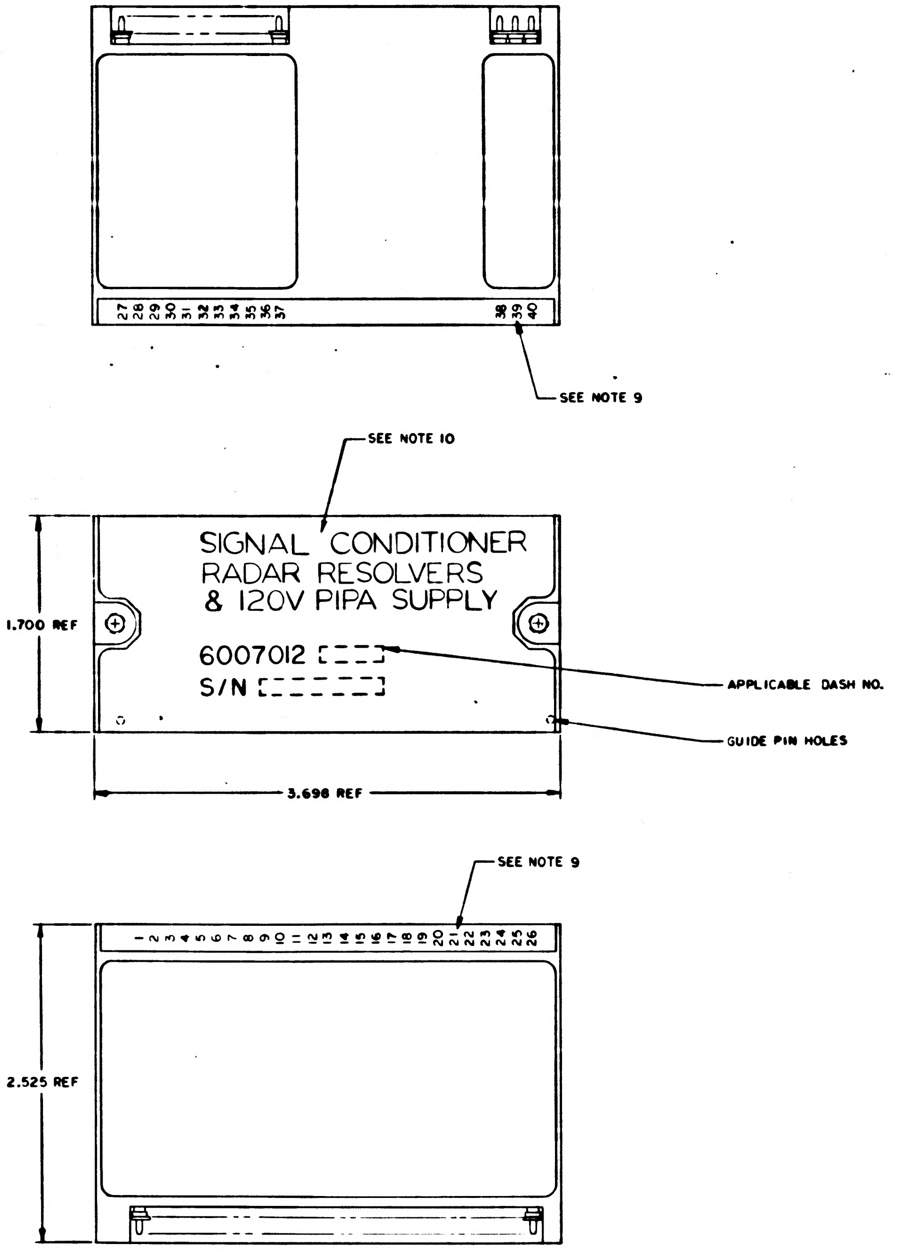
	6007012	K

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	7/1/66	[illegible]
D	REVISED PER TDRR 29921	13-JUL-66	[illegible]
E	REVISED PER TDRR 30151	20 JUL 66	[illegible]
F	REVISED PER TDRR 30249	[illegible] 66	[illegible]
G	REVISED PER TDRR 30326	[illegible] 66	[illegible]
H	REVISED PER TDRR 30432	1 SEPT 66	[illegible]
J	REVISED PER TDRR 31230	28 SEP 66	[illegible]
K	REVISED PER TDRR 31486	21 OCT 66	[illegible]


TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J


27 28 29 30 31 32 33 34 35 36 37
38 39 40
SEE NOTE 9
SEE NOTE 10
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
6007012
S/N
1.700 REF
APPLICABLE DASH NO.
GUIDE PIN HOLES
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW

SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-003	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-36	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-16	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jun 66
CHECKED [illegible]
APPROVAL [illegible] 5 Aug 66
APPROVAL [illegible] 5 Aug 66
NASA APPROVAL A. C. Metzger
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2

6007012	K

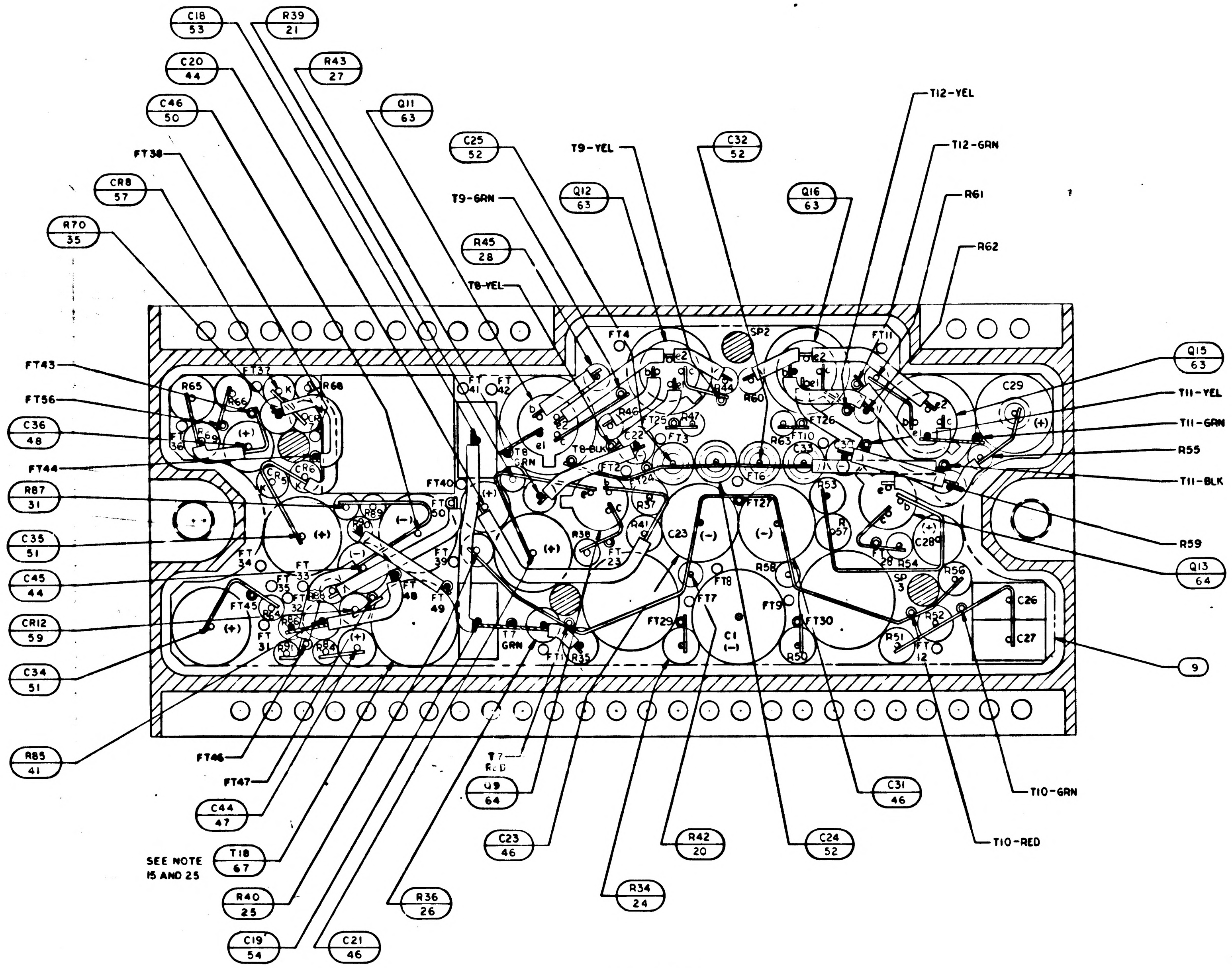
4H

3/6007012

[illegible]

D

C


C18
53
R39
21
C20
44
R43
27
C46
50
Q11
63
C25
52
T9-YEL
C32
52
FT38
CR8
57
T9-GRN
Q12
63
Q16
63
T12-YEL
T12-GRN
R61
R62
R70
35
R45
28
T8-YEL
FT4
SP2
FT11
FT37
R65
R66
R68
FT 41
FT 42
R46
R47
FT25
FT3
C22
R44
R60
FT26
FT10
R63
C33
C29
(+)
FT43
FT56
C36
48
FT 36
R69
FT44
CR6
R87
31
C35
51
C45
44
CR12
59
C34
51
R85
41
FT40
FT 50
R89
FT 34
FT 33
FT 35
FT45
R86
R64
FT 31
R91
R84
FT 32
FT 48
FT 49
FT 39
T8 GRN
T8-BLK
FT24
FT27
R37
R38
R41
FT 23
C23
(-)
FT6
FT8
FT7
FT9
FT29
FT30
C1
(-)
R50
R53
R57
R58
FT 28
R54
C28
SP 3
R56
R51
R52
FT 12
C26
C27
T7 GRN
FT1
R35
Q15
63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13
64
9
FT46
FT47
C44
47
T7
RED
Q9
64
SEE NOTE
15 AND 25
T18
67
R40
25
C19
54
C21
46
R36
26
C23
46
R34
24
R42
20
C24
52
C31
46
T10-GRN
T10-RED

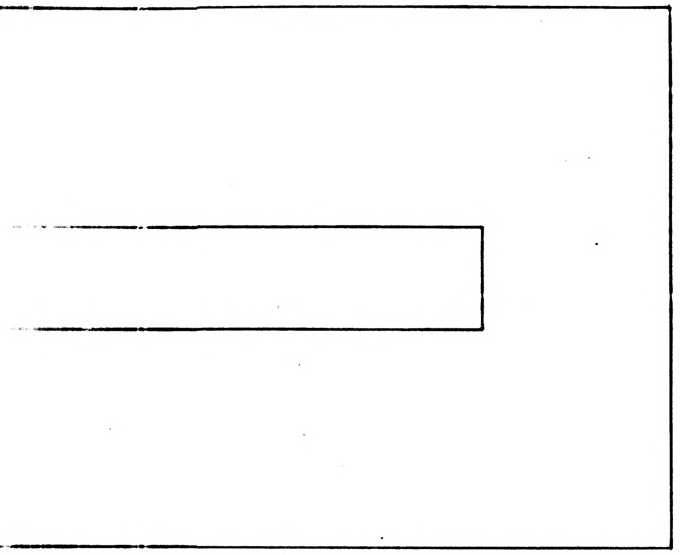
SECTION B-B

B

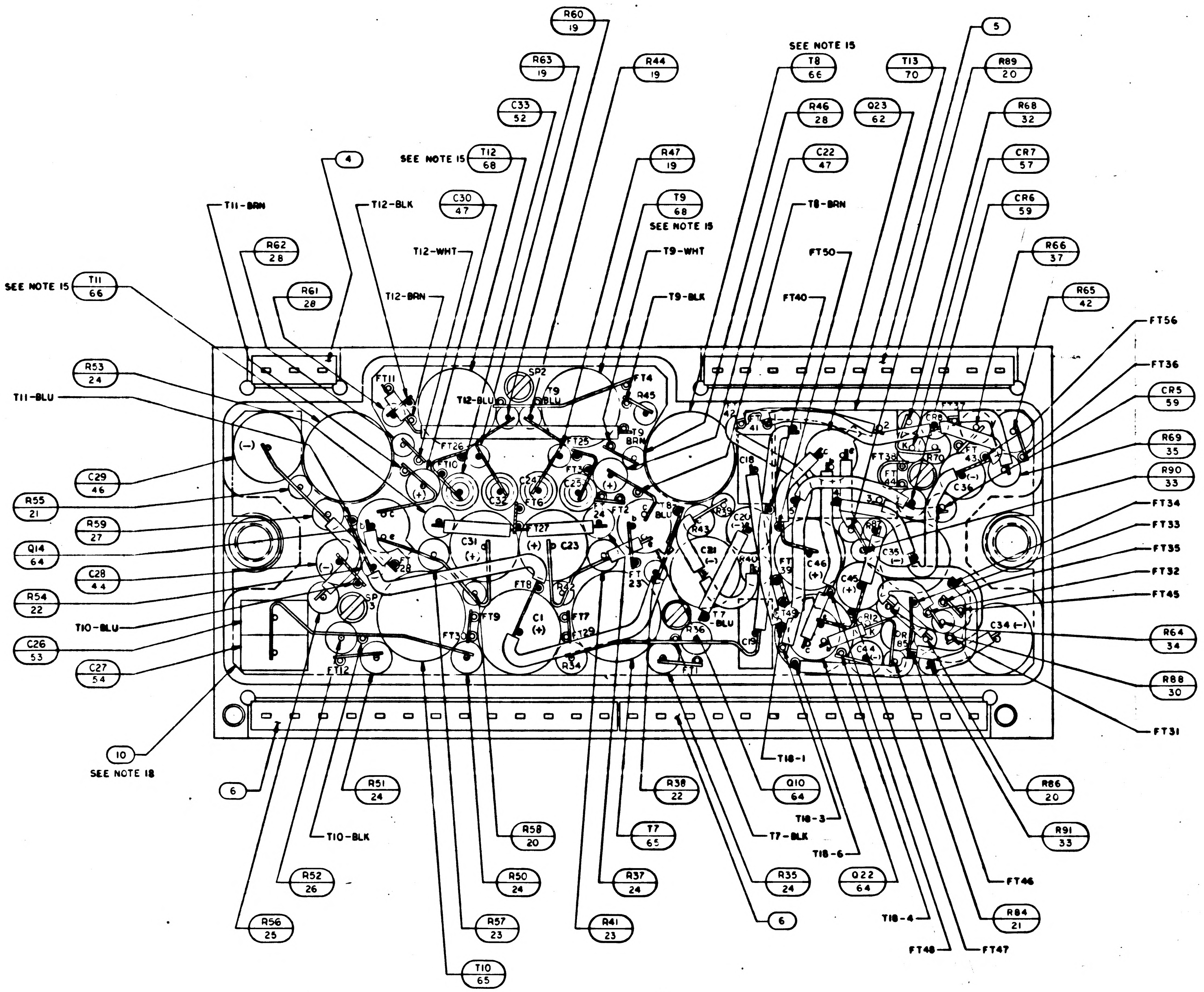
VIEW SHOWN FOR REFERENCE ONLY

A

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 2F541				
D		REVISION STATUS CHANGED			13-JUL-66	
E		REVISED PER TDRR 30151	AN		30 JUL 66	
F		REVISION STATUS CHANGED		JI	7 AUG 66	
G		REVISION STATUS CHANGED		JI	24 AUG 66	
H		REVISION STATUS CHANGED.	JJB	JI	SEP 66	
J		REVISION STATUS CHANGED	TD	RLW	28 SEP 66	
K		REVISION STATUS CHANGED	EC	RLW	21 OCT 66	



VIEW SHOWN FOR REFERENCE ONLY



R60 19
R63 19
R44 19
C33 52
SEE NOTE 15 T12 68
R47 19
C30 47
T9 68
SEE NOTE 15
4
T11-BRN
T12-BLK
R62 28
R61 28
T12-WHT
T9-WHT
T12-BRN
T9-BLK
SEE NOTE 15 T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
Q10 64
T18-1
T18-3
T7-BLK
T18-6
R35 24
6
Q22 64
T18-4
FT48
FT47
R84 21
FT46
R91 33
R86 20
FT31
R88 30
R64 34
FT45
FT32
FT35
FT33
FT34
R90 33
R69 35
CR5 59
FT36
FT56
R65 42
R66 37
CR6 59
CR7 57
R68 32
R89 20
T13 70
5
Q23 62
R46 28
C22 47
SEE NOTE 15
T8 66
T8-BRN
FT50
FT40
SP2
T9 BLU
T12-BLU
FT11
FT26
FT10
FT25
FT4
R45
T9 BRN
C24
C23
C31
C1
FT27
FT8
FT9
FT7
FT29
R34
R42
FT33
SP3
FT12
C16
C21
C20
R43
R40
C46
C45
C44
C19
R36
T7 BLU
FT1
FT39
FT49
FT41
FT42
CR8
FT38
R70
FT44
C36
C35
R87
R12
CR
C34

VIEW C-C

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN pf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY	USED ON
APPLICATION	

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

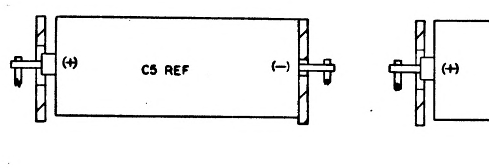
DRAWN	Ed. Powers	24
CHECKED	R.P.	
APPROVED		5
APPROVED		
APPROVED MIT		
APPROVED MSC		DATE

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

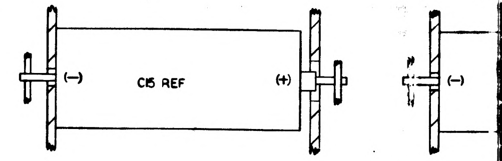
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007012

SCALE 5/1 SHEET 2 OF 2

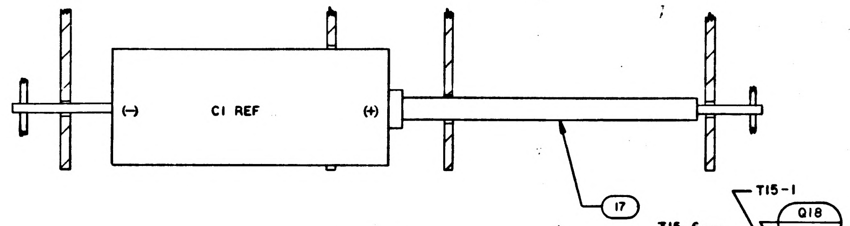
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


(+)
C5 REF
(–)
(+)
C21 REF
(–)

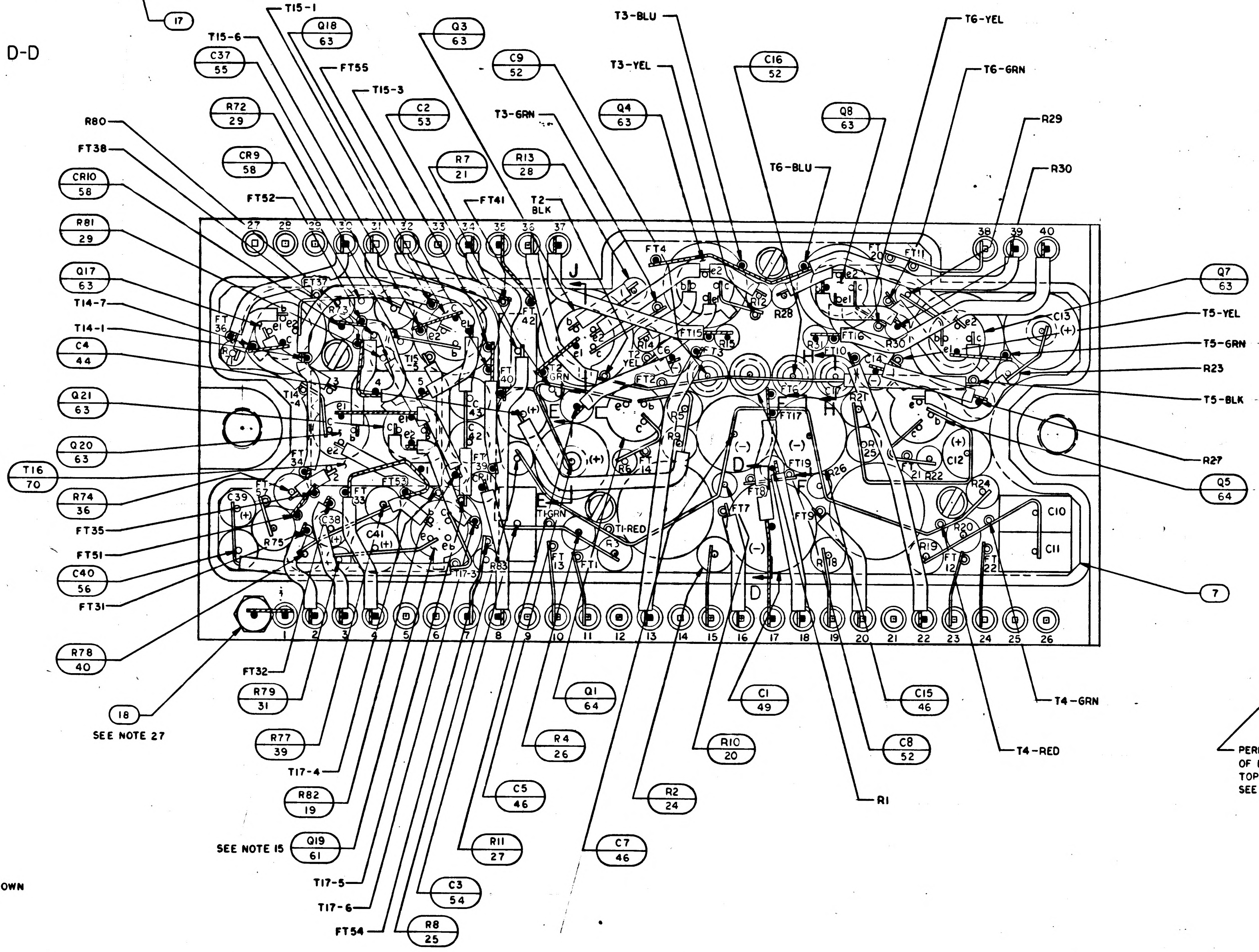
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29

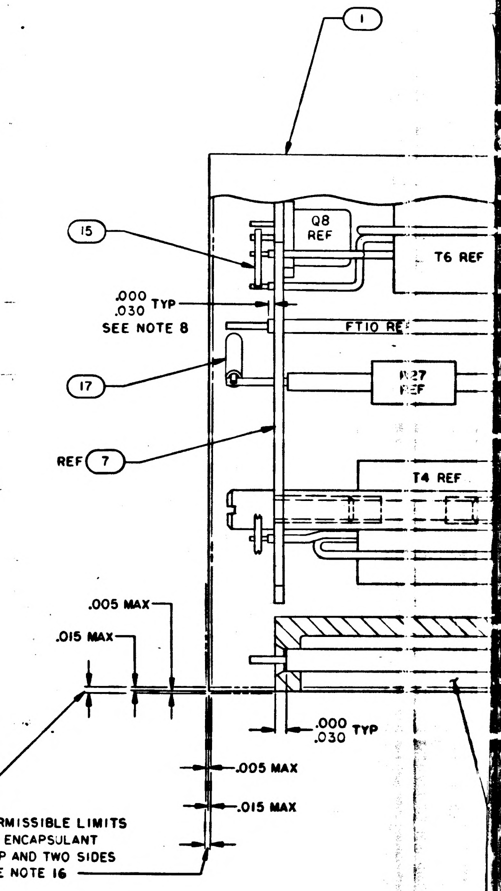


PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31



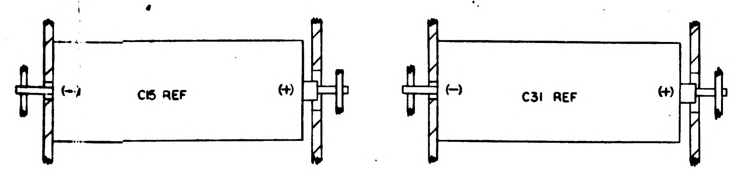
PARTIAL SECTION D-D


T15-1
Q18 63
T15-6
C37 55
FT55
T15-3
Q3 63
C9 52
T3-BLU
T3-YEL
C16 52
T6-YEL
T6-GRN
R72 29
C2 53
T3-GRN
Q4 63
Q8 63
R29
R80
CR9 58
R7 21
R13 28
T6-BLU
R30
FT38
FT52
FT41
T2-BLK
CR10 58
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
18
SEE NOTE 27
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
FT32
R79 31
R77 39
T17-4
R82 19
SEE NOTE 15
Q19 61
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
C7 46
R2 24
Q1 64
R10 20
C1 49
R1
C8 52
C15 46
T4-RED
T4-GRN
J
H
D
E
F
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40
C10
C11
C12
C13
C38
C39
C41

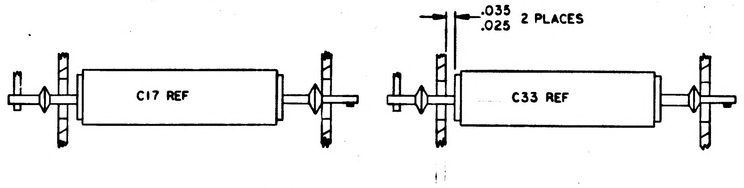

1
15
Q8 REF
T6 REF
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16

NOTES:

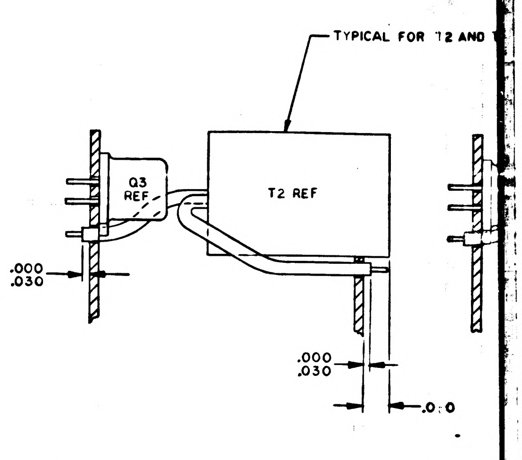
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002C04 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007012.
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES
28. PAINT MODULE MOUNTING SURFACE PER ND 1002291, USING MIL-P-8585 ZINC CHROMATE PRIMER FOLLOWED BY 1012543-003 PAINT. MODULE GUIDE PIN HOLES TO BE FREE OF PAINT. TOTAL DRY FILM THICKNESS MUST NOT EXCEED 2 MILS.


(-)
C15 REF
(+)
(-)
C31 REF
(+)

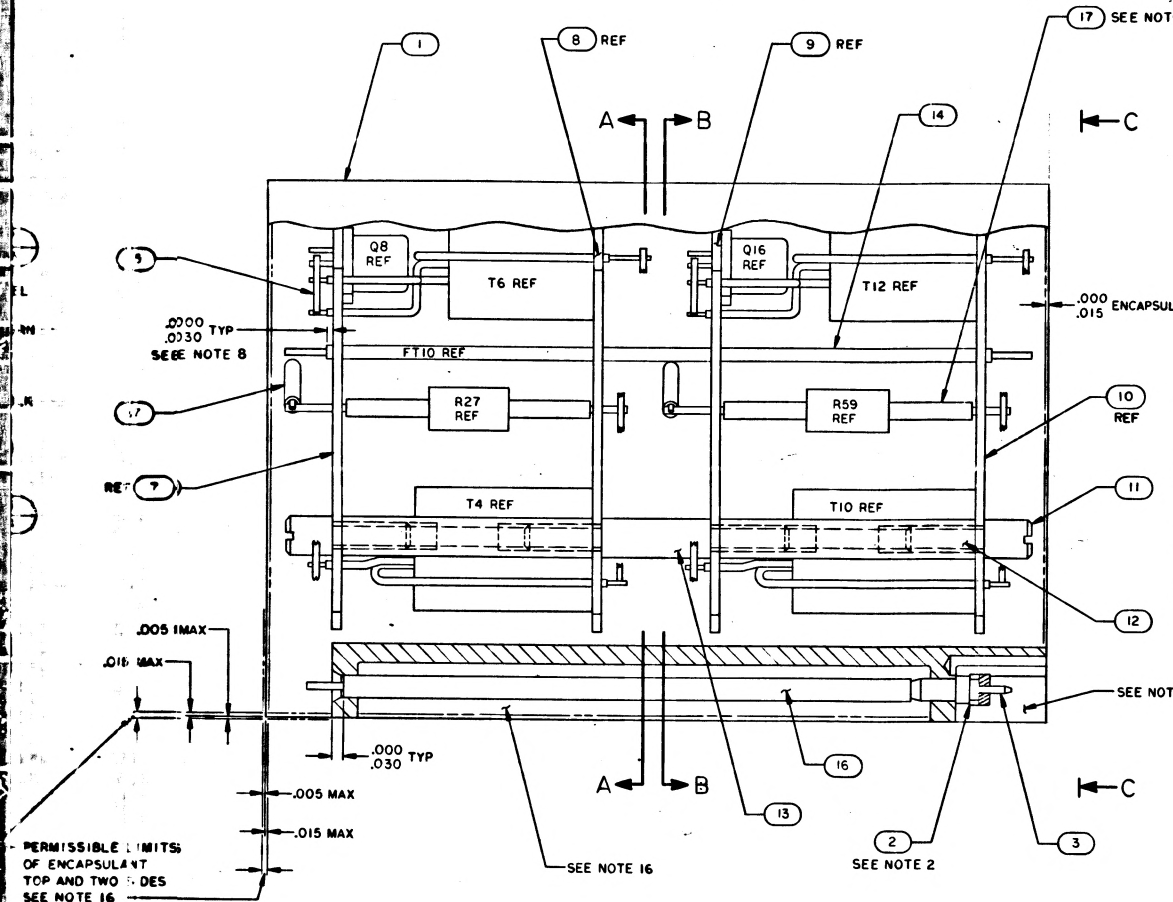
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31

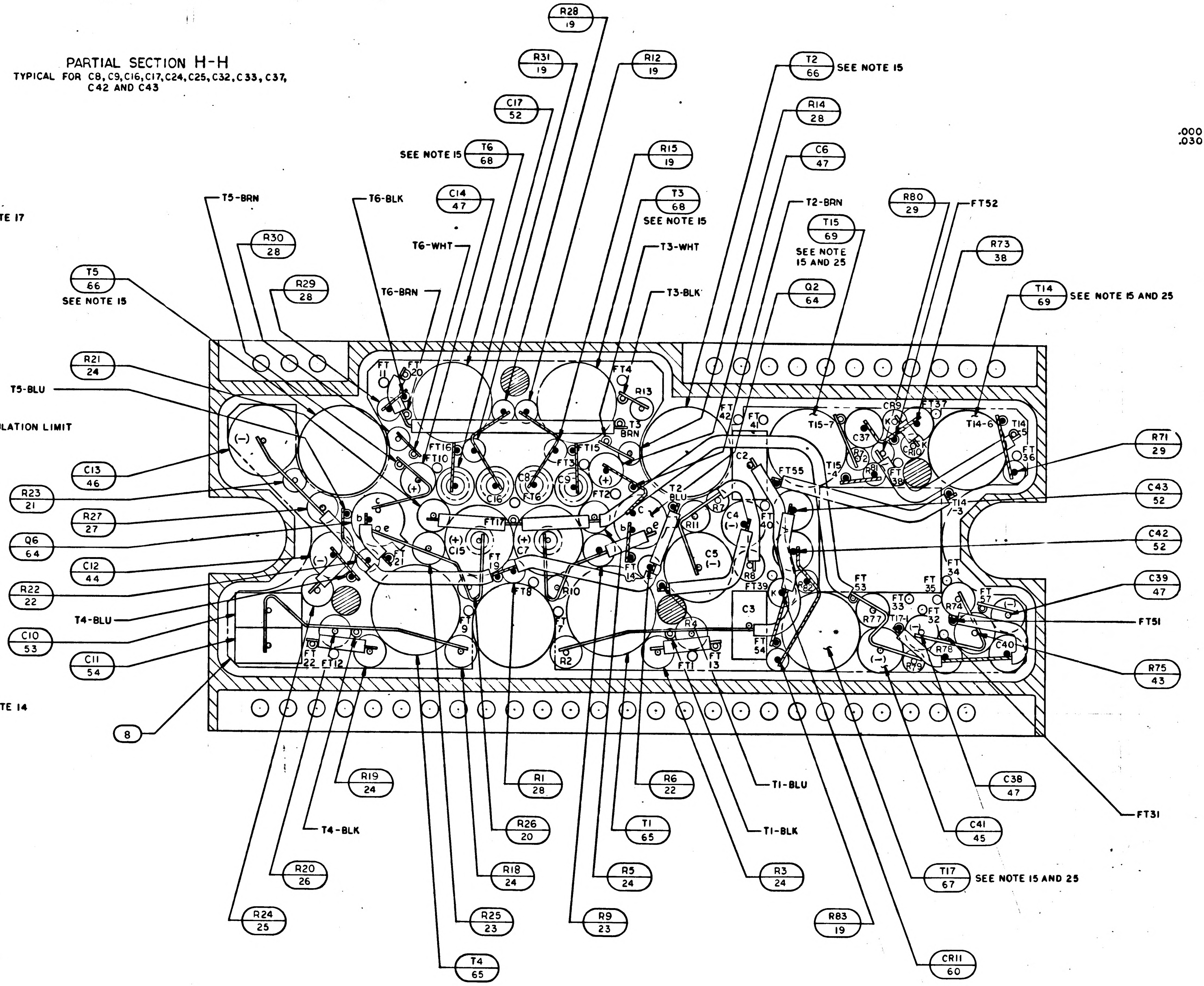

.035
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43


TYPICAL FOR T2 AND T
Q3 REF
T2 REF
.000
.030
.000
.030
.010

PARTIAL SECTION

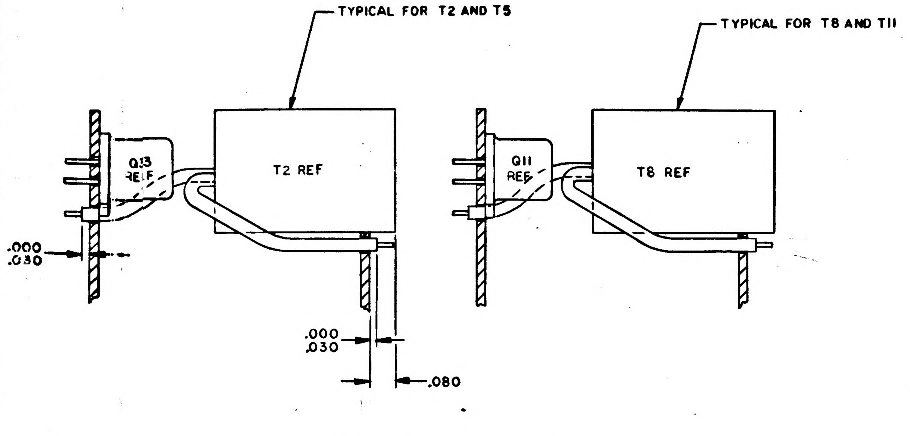

1
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
Q8 REF
T6 REF
Q16 REF
T12 REF
.0200
.0300 TYP
SEE NOTE 8
FT10 REF
.000
.015 ENCAPSULATION LIMIT
R27 REF
R59 REF
10 REF
11
T4 REF
T10 REF
12
.005 MAX
.015 MAX
.000
.030 TYP
SEE NOTE 14
16
13
2
SEE NOTE 2
3
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULANT TOP AND TWO SIDES SEE NOTE 16
SEE NOTE 16


R28 19
R31 19
R12 19
C17 52
T2 66 SEE NOTE 15
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
C14 47
R80 29
FT52
R30 28
T6-WHT
T3-WHT
T2-BRN
T15 69 SEE NOTE 15 AND 25
R73 38
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
R71 29
C13 46
C43 52
R23 21
R27 27
Q6 64
C42 52
C12 44
R22 22
C39 47
T4-BLU
FT51
C10 53
C11 54
R75 43
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
FT31
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65

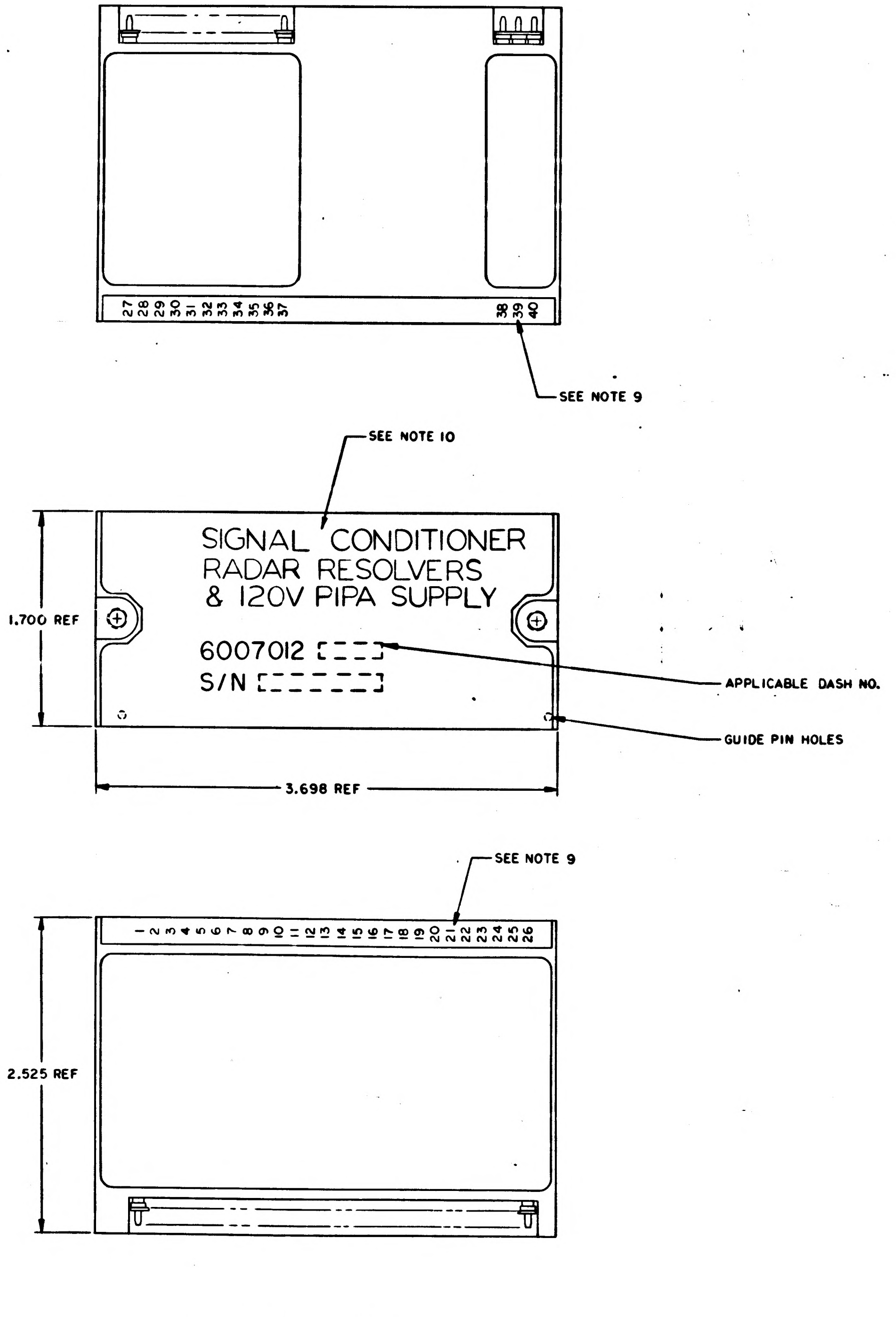
SECTION A-A

2/6007012

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	9/7/66	WK
Ⓜ D	REVISED PER TDRR 29921	13-JUL -66	B. PJ
Ⓜ E	REVISED PER TDRR30151	20 JUL 66	A.N.
F	REVISED PER TDRR 30249	17 AUG 66	JI
G	REVISED PER TDRR 30326	24 AUG 66	JI
Ⓜ H	REVISED PER TDRR 30432	1 SEPT 66	JJB JI
Ⓜ J	REVISED PER TDRR 31239	28 SEP 66	TD
Ⓜ K	REVISED PER TDRR 31486	21 OCT 66	EC
L	REVISED PER TDRR 32414	10 JAN 67	AF



PARTIAL SECTION J-J



MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-003	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-36	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-16	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers DATE 28 Jan 66
CHECKED 4 Apr 66
APPROVAL 5 APR 66
APPROVAL 5 Apr '66
NASA APPROVAL A. C. METZGER
MIT APPROVAL 5 Apr 66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2

4H

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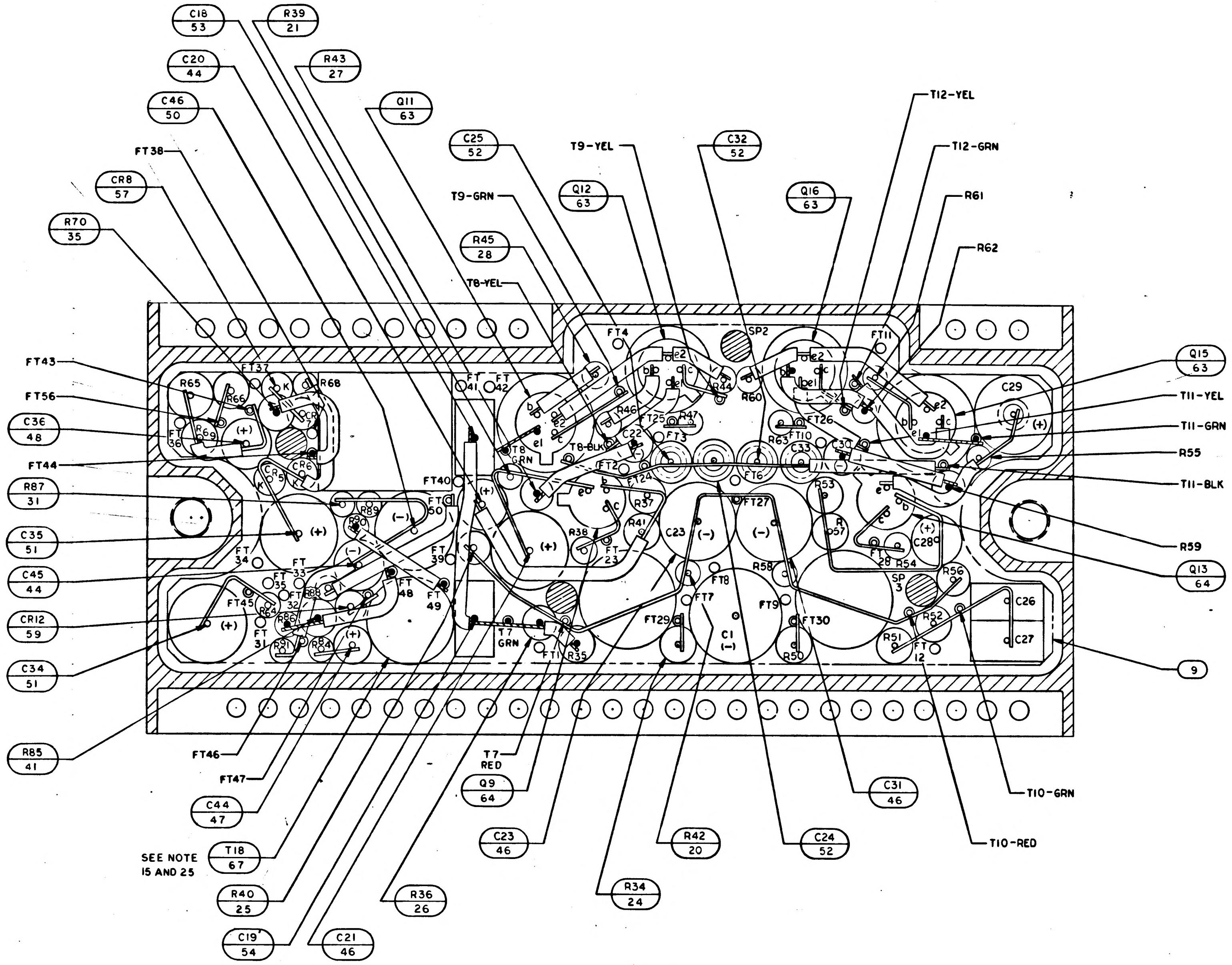
D

C

B

A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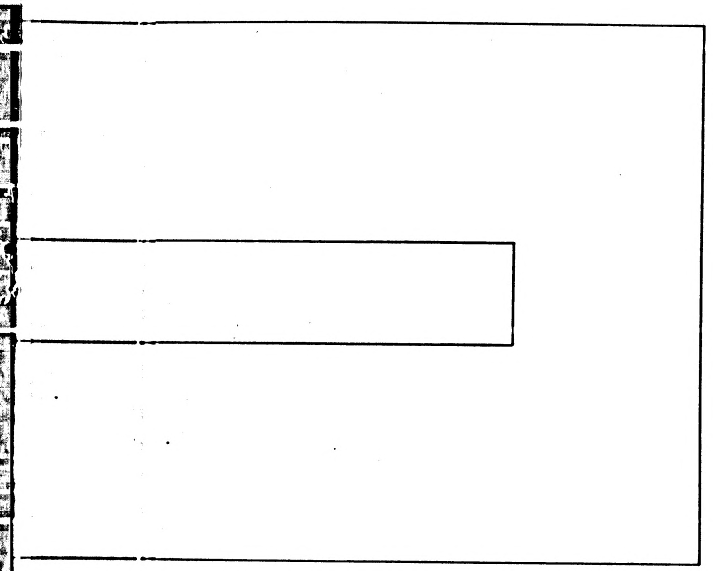
C20 44
R43 27
C46 50
Q11 63
FT38
CR8 57
R70 35
C25 52
T9-YEL
C32 52
T12-YEL
T12-GRN
T9-GRN
Q12 63
Q16 63
R61
R45 28
R62
T8-YEL
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
Q15 63
T11-YEL
T11-GRN
R55
T11-BLK
R59
Q13 64
9
FT46
FT47
C44 47
SEE NOTE 15 AND 25
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-GRN
T10-RED
SP2
SP3
FT4
FT11
R65
R66
R68
FT37
C29
(+)
(−)
FT41
FT42
R46
R44
R60
FT25
R47
FT3
C22
T8 GRN
T8-BLK
FT2
FT24
FT16
FT10
R63
FT26
C33
C30
FT40
FT50
R89
R37
R38
R41
FT23
C23
FT27
R53
R57
C28
FT28
R54
FT34
FT33
FT35
FT45
FT32
FT31
R91
R84
FT48
FT49
FT39
T7 GRN
FT1
R35
FT29
FT7
FT18
R58
FT9
C1
FT30
R50
R51
R52
FT12
R56
C26
C27

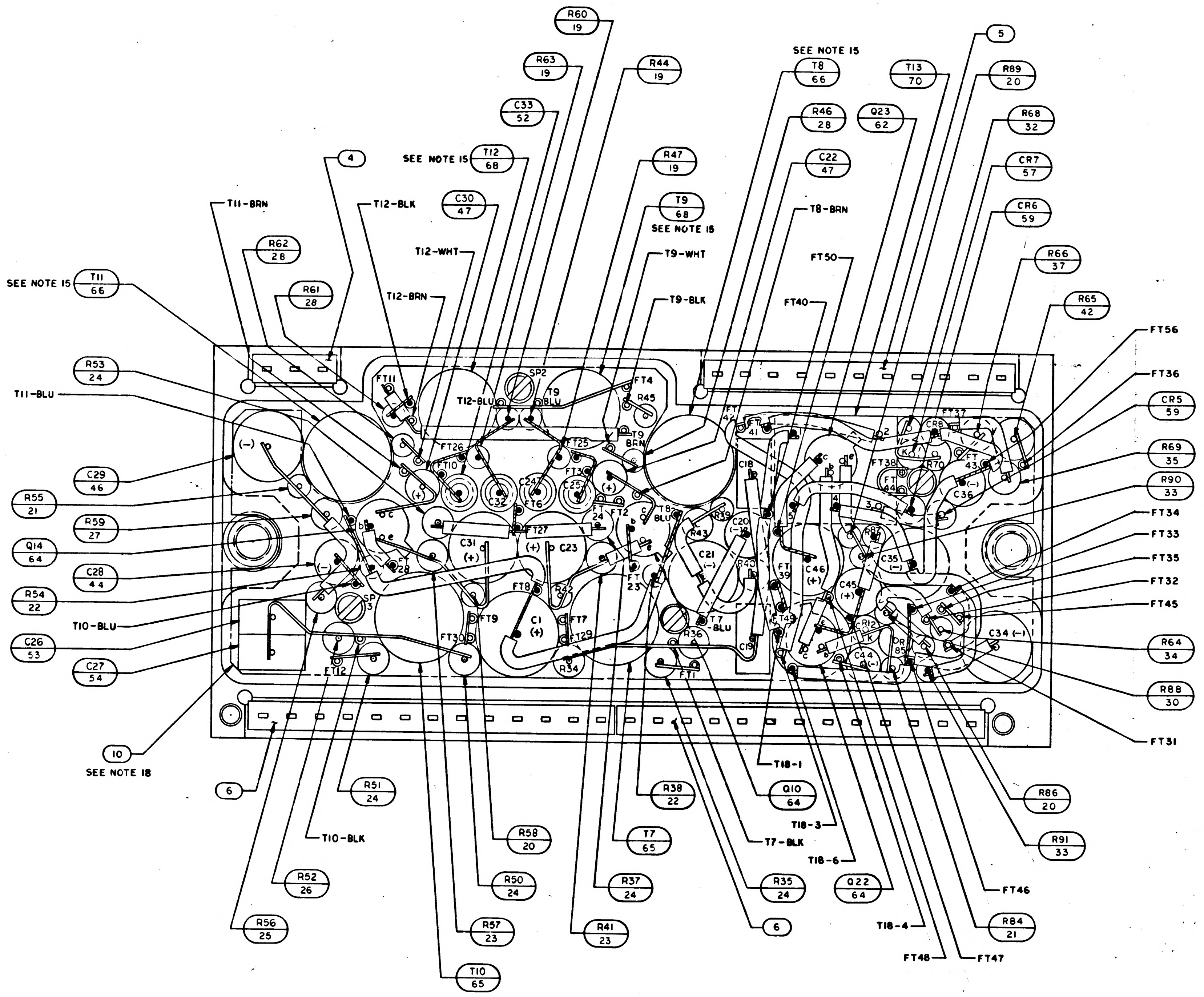
SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 28541			5/3/66	WK
D		REVISION STATUS CHANGED		PJ	13-JUL-66	
E		REVISED PER TDRR30151	A.N.		20 JUL 66	
F		REVISION STATUS CHANGED		JI	17 AUG 66	
G		REVISION STATUS CHANGED		JI	24 AUG 66	
H		REVISION STATUS CHANGED.	JJB	JI	1 SEP 66	
J		REVISION STATUS CHANGED	TD	RLW	28 SEP 66	
K		REVISION STATUS CHANGED	EC		21 OCT 66	
L		REVISION STATUS CHANGED	AF		16 JAN 67	



VIEW SHOWN FOR REFERENCE ONLY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R63 19
R44 19
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4
R47 19
T9 68
SEE NOTE 15
C30 47
T11-BRN
T12-BLK
T12-WHT
T9-WHT
R62 28
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
T7 65
R37 24
R41 23
R38 22
Q10 64
T18-1
T18-3
T7-BLK
T18-6
R35 24
Q22 64
6
T18-4
FT48
FT47
R84 21
FT46
R91 33
R86 20
FT31
R88 30
R64 34
FT45
FT32
FT35
FT33
FT34
R90 33
R69 35
CR5 59
FT36
FT56
R65 42
R66 37
CR6 59
CR7 57
R68 32
R89 20
5
T13 70
Q23 62
R46 28
C22 47
T8-BRN
FT50
FT40
T8 66
SEE NOTE 15
C1 (+)
C23
C31 (+)
C24
C25
C20
C21
C46 (+)
C45 (+)
C35 (-)
C36
C34 (-)
C44
C18
C19
SP2
SP1
FT1
FT2
FT3
FT4
FT7
FT8
FT9
FT10
FT11
FT12
FT25
FT26
FT27
FT29
FT30
FT39
FT41
FT43
FT44
FT49
T12-BLU
T9 BLU
T9 BRN
T8 BLU
T7 BLU
R34
R36
R39
R42
R43
R45
R70
CR8
Q8

VIEW C-C

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

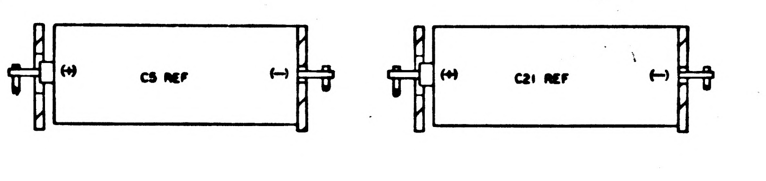
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Ed Powers 24-3-66
CHECKED
APPROVED 5 APR 66
APPROVED
APPROVED MIT
APPROVED MSC L. METZGER

RADAR RESOLVERS
&120V PIPA SUPPLY
SIGNAL CONDITIONER

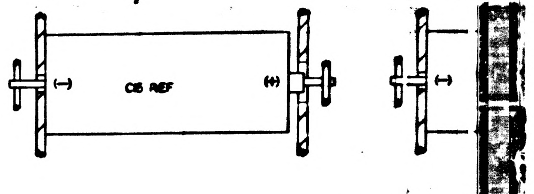
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007012
DATE
SCALE 5/1
SHEET 2 OF 2

6007012 L

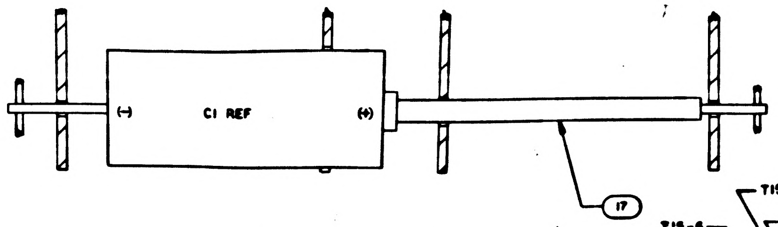


(+)
C5 REF
(−)
(+)
C21 REF
(−)

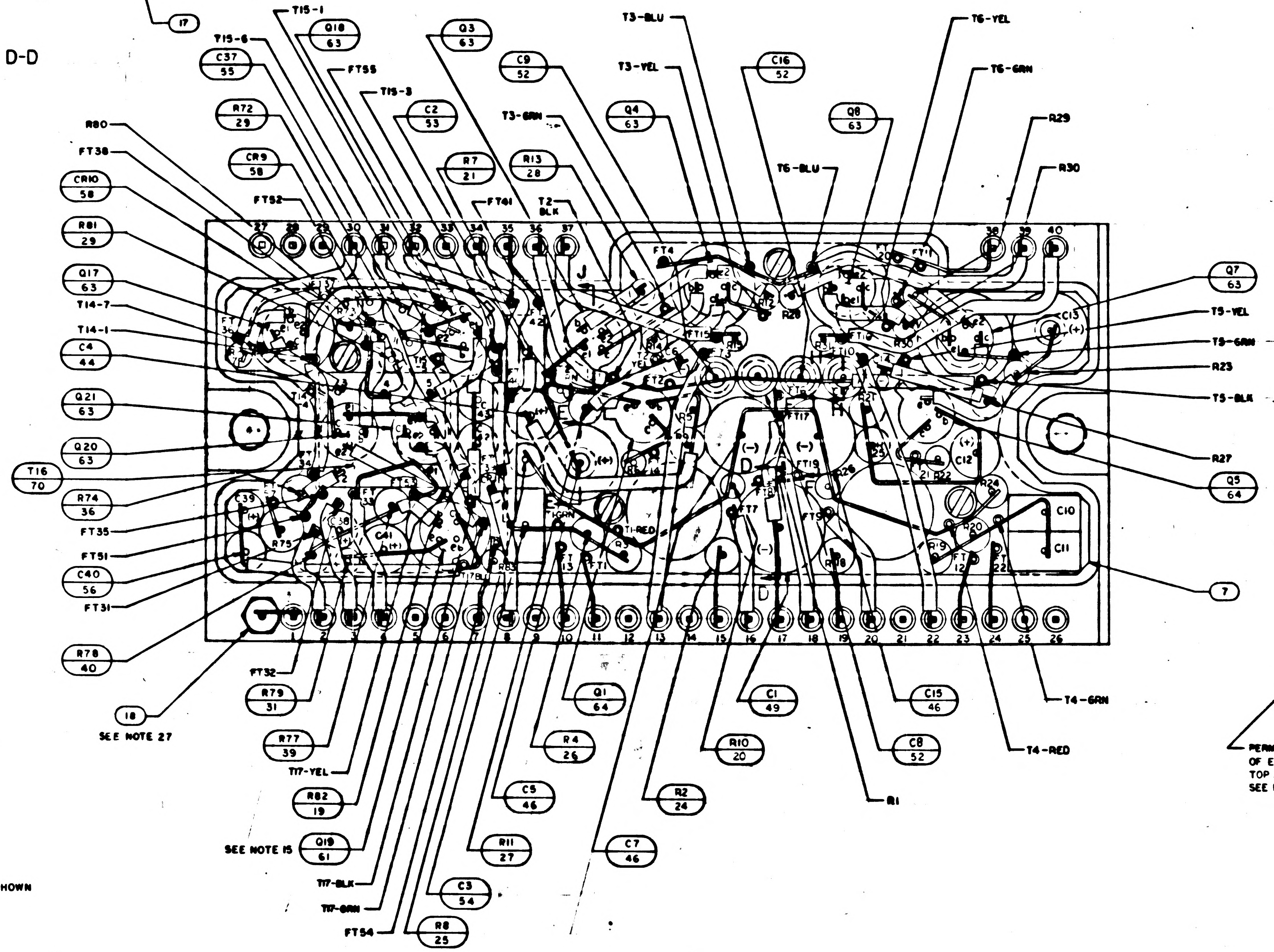
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



PARTIAL SECTION F-F
TYPICAL FOR C7, C16, C23 AND C3



PARTIAL SECTION D-D



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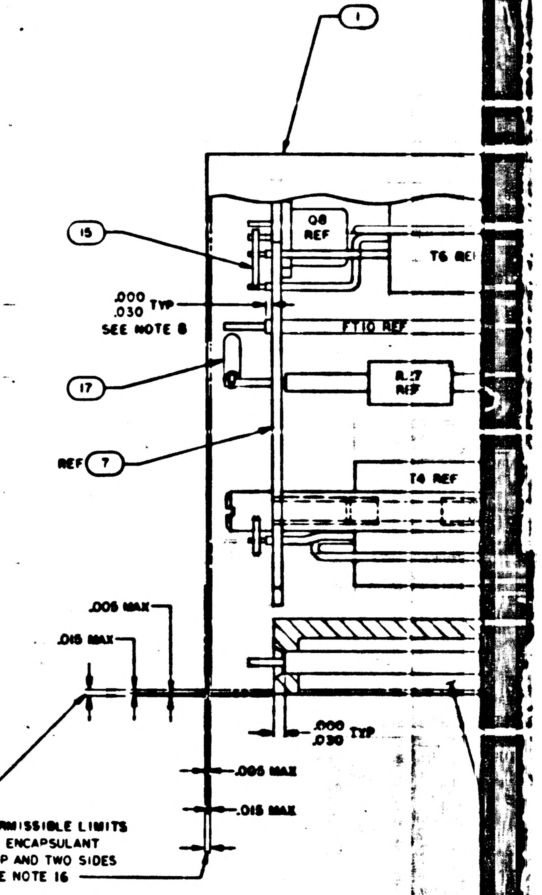
Q3 63
T15-6
C37 55
FT55
C9 52
C16 52
T3-BLU
T6-YEL
T3-YEL
T6-GRN
T15-3
C2 53
R72 29
T3-GRN
Q4 63
Q8 63
R29
R80
CR9 58
R7 21
R13 28
T6-BLU
R30
FT38
FT52
FT41
T2 BLK
CR10 58
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
18
SEE NOTE 27
FT32
R79 31
R77 39
T17-YEL
R82 19
SEE NOTE 15
Q19 61
T17-BLK
T17-GRN
FT54
C3 54
R8 25
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
R10 20
C1 49
R1
C8 52
C15 46
T4-RED
T4-GRN
27 28 29 30 31 32 33 34 35 36 37
38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
C10
C11
C12
C13
C39
C41
(+)
(−)

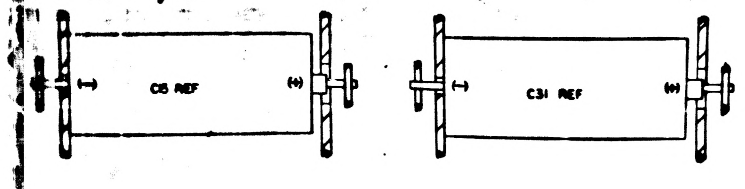


1
15
Q8 REF
T6 RE
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R17 REF
REF 7
T4 REF
.005 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16

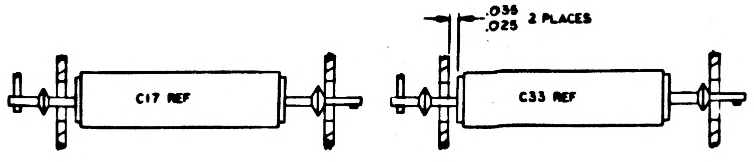
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND 1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. OVERCOAT PER ND1002291 USING 1012543-003. PIN BLADES AND INSULATORS TO BE FREE OF PAINT.
25. SLEEVE FIND NO. ~~67 AND~~ 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007012.
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES
28. PAINT MODULE MOUNTING SURFACE PER ND 1002291, USING MIL-P-8585 ZINC CHROMATE PRIMER FOLLOWED BY 1012543-003 PAINT. MODULE GUIDE PIN HOLES TO BE FREE OF PAINT. TOTAL DRY FILM THICKNESS MUST NOT EXCEED 2 MILS.

6007012 M


C8 REF
(−)
(+)
C31 REF

PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31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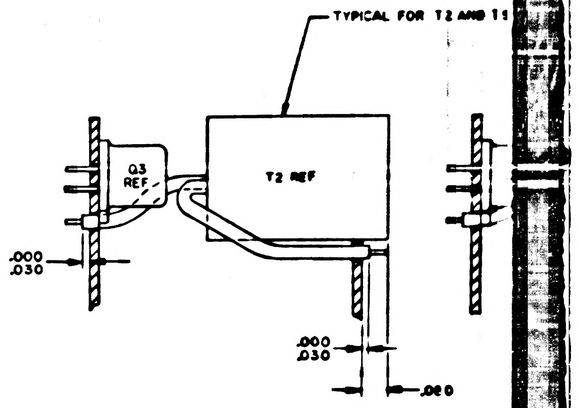
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43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Q3 REF
T2 REF
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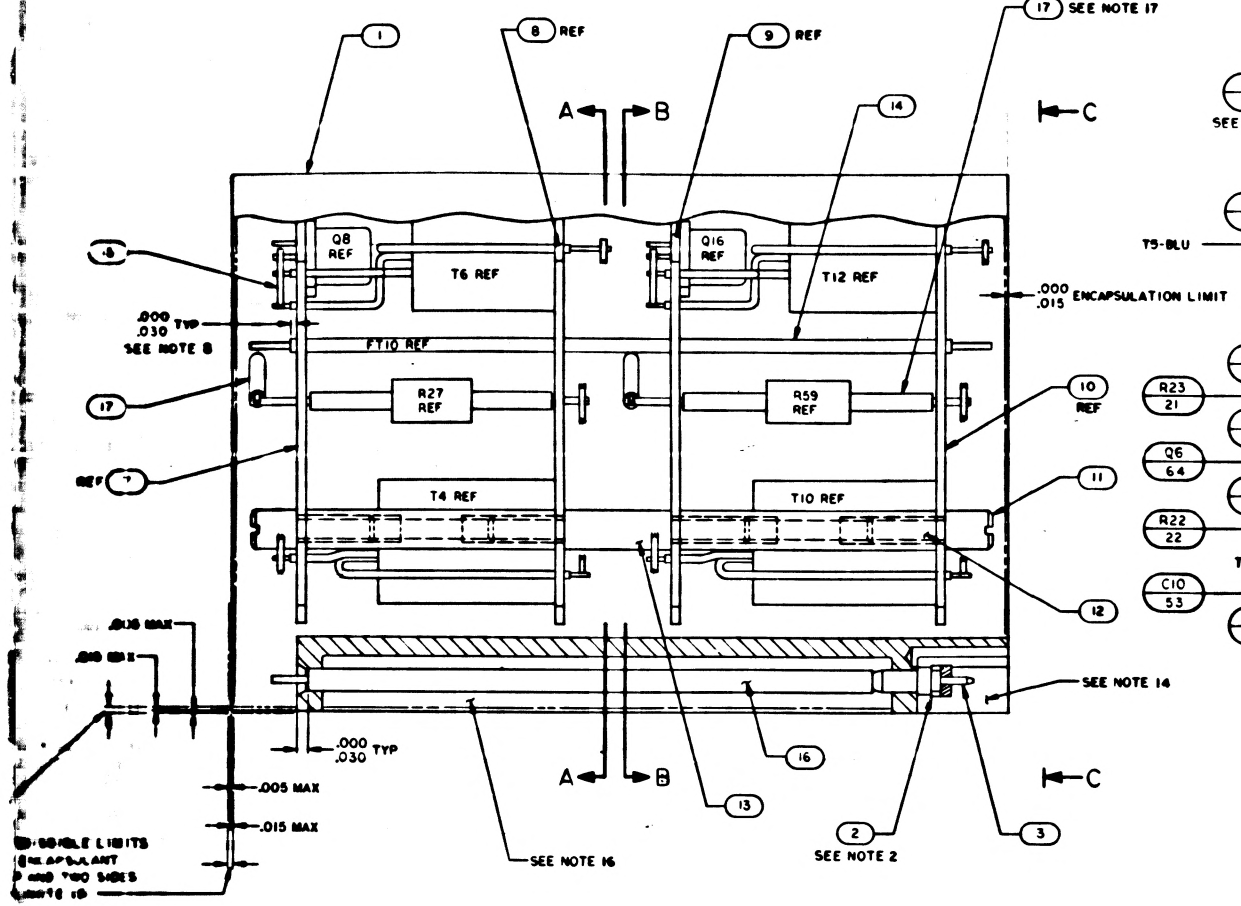
.020

PARTIAL SECTION J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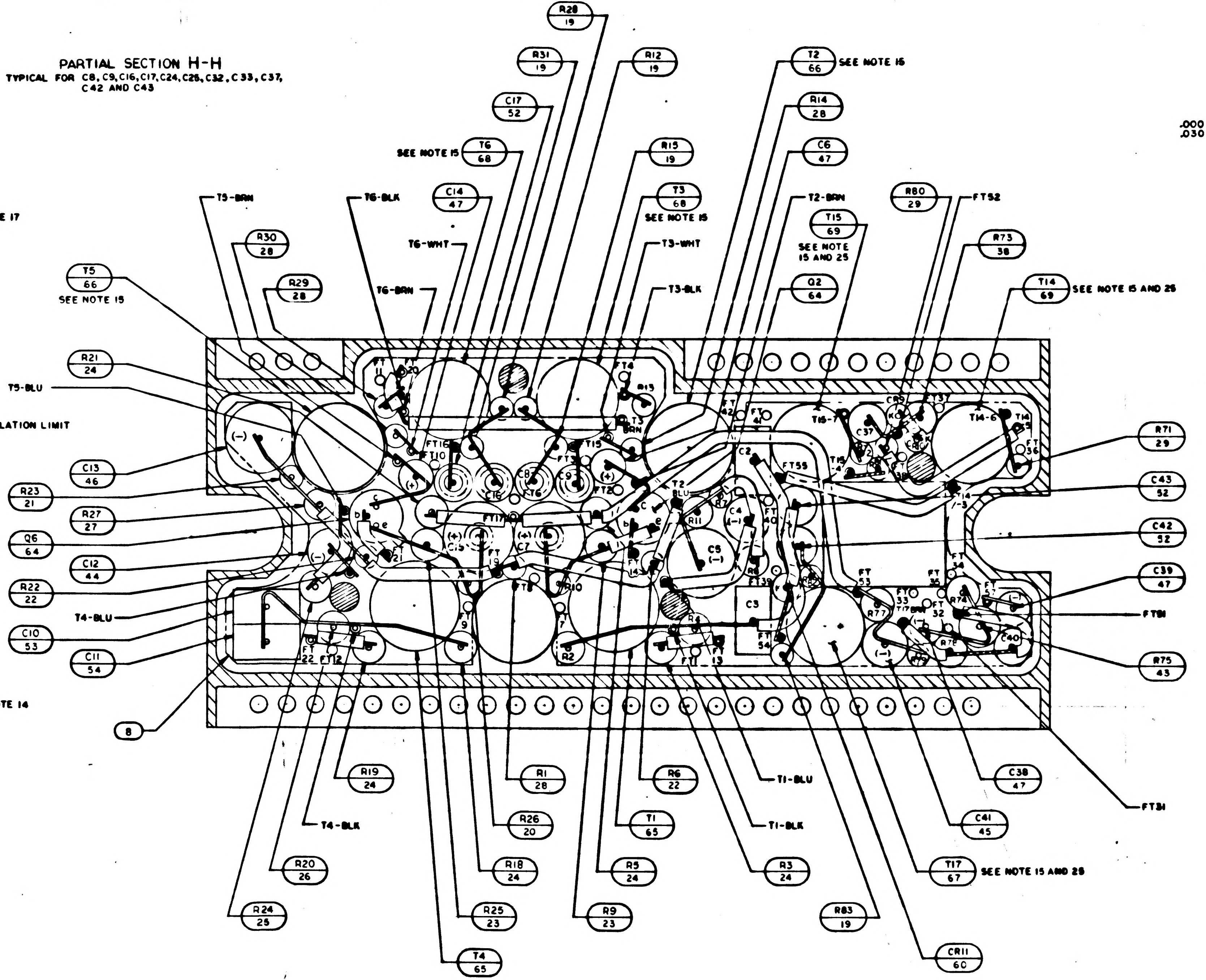
8 REF
9 REF
17 SEE NOTE 17
14
A
B
C
Q8 REF
T6 REF
Q16 REF
T12 REF
.000 ENCAPSULATION LIMIT
.015
.000 TYP
.030
SEE NOTE 8
FT10 REF
R27 REF
R59 REF
10 REF
17
7 REF
T4 REF
T10 REF
11
12
.015 MAX
.010 MIN
SEE NOTE 14
.000 TYP
.030
16
.005 MAX
.015 MAX
A
B
C
13
2
SEE NOTE 2
3
SEE NOTE 16
ENCAPSULANT
AND TWO SIDES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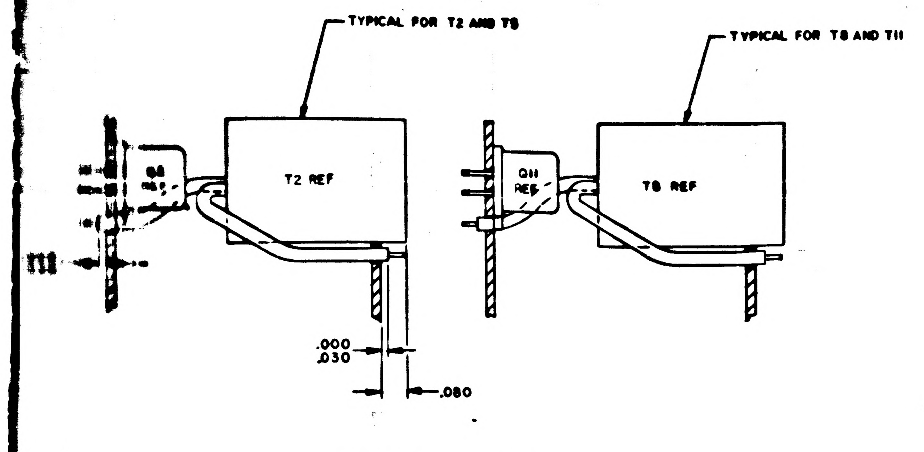
R31 19
R12 19
T2 66 SEE NOTE 15
C17 52
R14 28
SEE NOTE 15 T6 68
R15 19
C6 47
C14 47
T3 68 SEE NOTE 15
T5-BRN
T6-BLK
T2-BRN
R80 29
FT52
R30 28
T6-WHT
T3-WHT
T15 69 SEE NOTE 15 AND 25
R73 38
T5 66 SEE NOTE 15
R29 28
T6-BRN
T3-BLK
Q2 64
T14 69 SEE NOTE 15 AND 25
R21 24
T5-BLU
C13 46
R71 29
R23 21
C43 52
R27 27
C42 52
Q6 64
C12 44
C39 47
R22 22
T4-BLU
FT81
C10 53
C11 54
R75 43
C5
C4
C2
C7
C9
C16
C8
T16
T14
CR11
FT55
FT16
FT10
FT17
FT13
FT15
FT39
FT31
FT36
8
R19 24
R1 28
R6 22
T1-BLU
C38 47
T4-BLK
R26 20
T1 65
T1-BLK
C41 45
FT31
R20 26
R18 24
R5 24
R3 24
T17 67 SEE NOTE 15 AND 25
R24 25
R25 23
R9 23
R83 19
CR11 60
T4 65

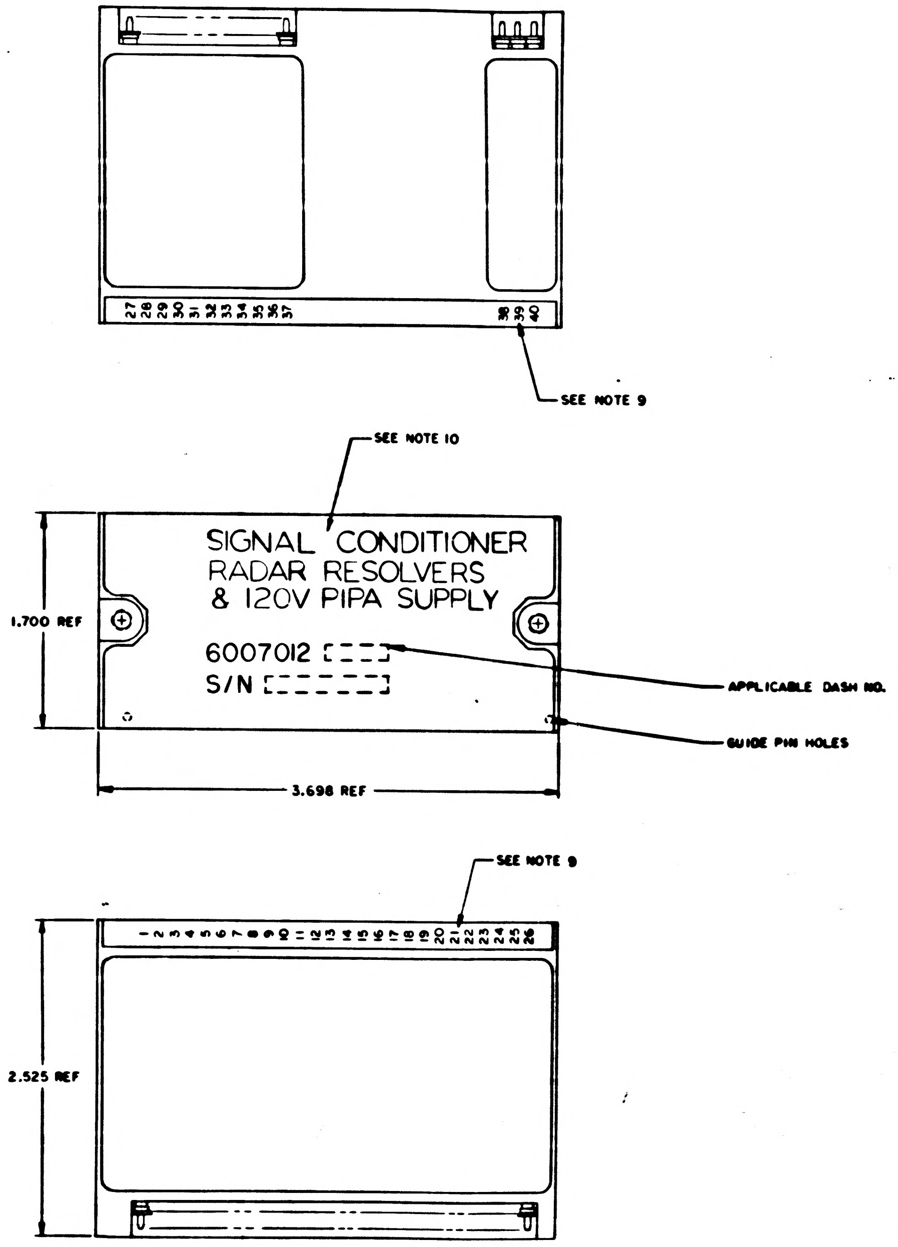
SECTION A-A

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES WORD DWG REV B PER TDRR 28541	[illegible]	[illegible]
D	REVISED PER TDRR 29821	18-JUL-66	[illegible]
E	REVISED PER TDRR 30151	20 JUL 66	[illegible]
F	REVISED PER TDRR 30249	[illegible] 66	[illegible]
G	REVISED PER TDRR 30326	[illegible]	[illegible]
H	REVISED PER TDRR 30432	1 SEPT 66	[illegible]
J	REVISED PER TDRR 31230	28 SEP 66	[illegible]
K	REVISED PER TDRR 31486	3 OCT 66	[illegible]
L	REVISED PER TDRR 32414	[illegible]	[illegible]
M	REVISED PER TDRR 33007	[illegible]	[illegible]



PARTIAL SECTION J-J



MARKING VIEW

SCALE 2/1

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2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010324	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
1	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-003	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
1	1006755-182	CAPACITOR	49
1	1006755-79	CAPACITOR	48
7	1006755-69	CAPACITOR	47
8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
1	1010364-471	RESISTOR	37
1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-86	RESISTOR	33
1	1006750-38	RESISTOR	32
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1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-16	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ed [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL A. C. [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

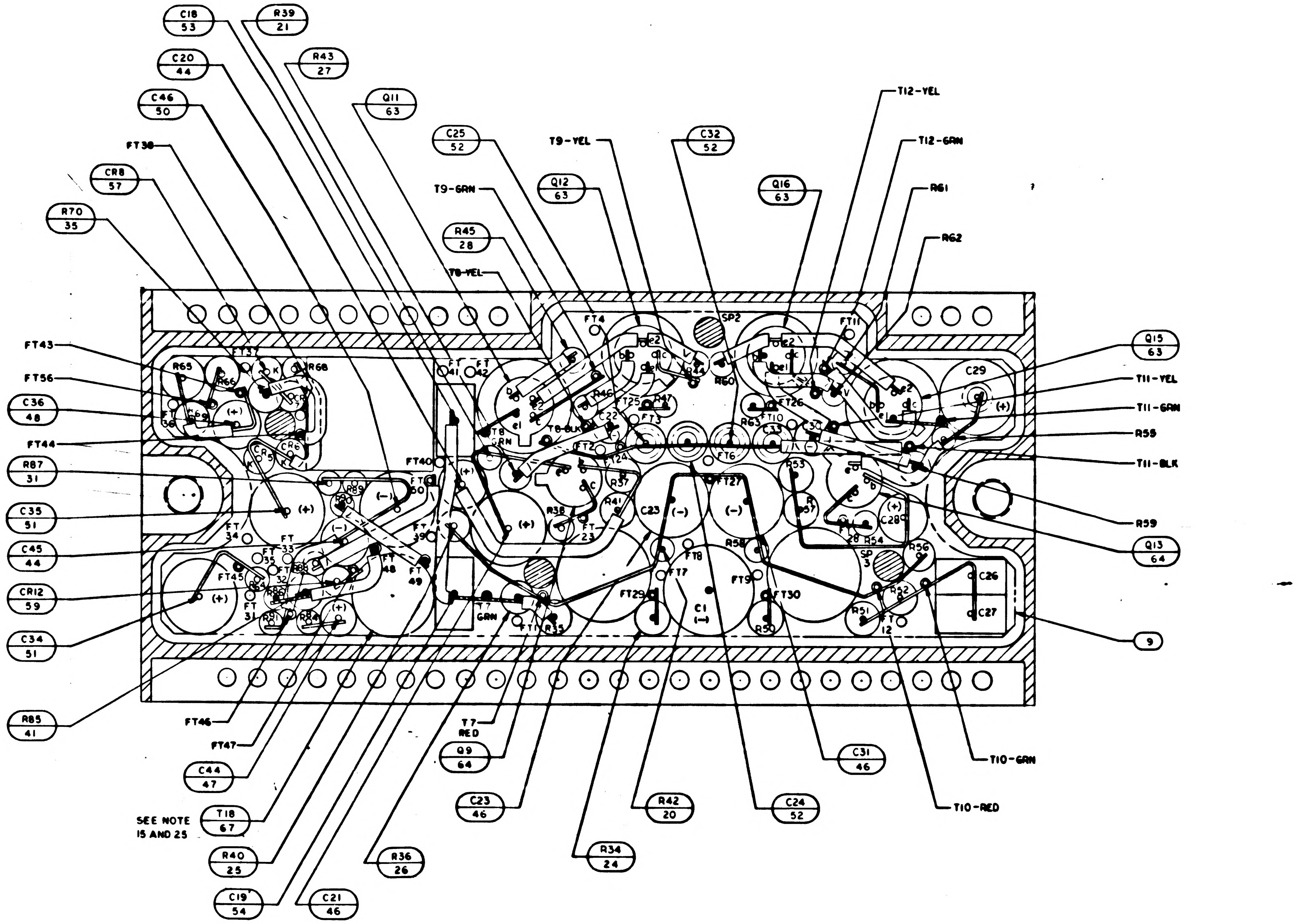
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007012

SCALE 5/1 WT SHEET 1 OF 2

MASTER

3/6007012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C20 44
R43 27
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Q11 63
C25 52
T9-YEL
C32 52
FT38
CR8 57
T9-GRN
Q12 63
Q16 63
T12-YEL
T12-GRN
R61
R70 35
R45 28
R62
T9-YEL
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
Q15 63
T11-YEL
T11-GRN
R59
T11-BLK
R59
Q13 64
9
FT46
FT47
C44 47
SEE NOTE 15 AND 25
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
T10-GRN
T10-RED
SP2
C29
C26
C27
C1
C23
FT4
FT11
FT29
FT30
FT40
R65
R66
R68
(+)
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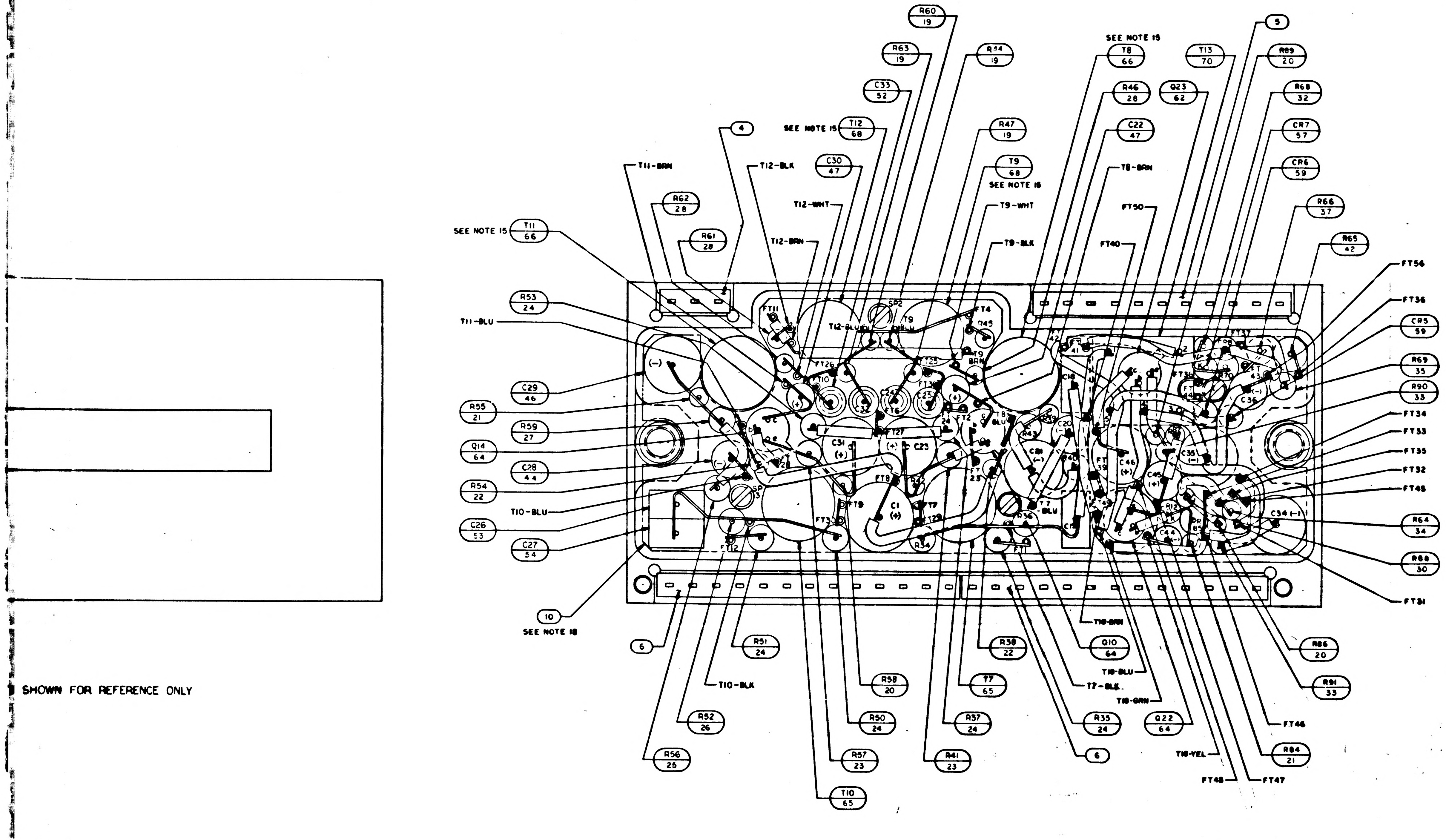
SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

REVISIONS

C		REPLACES WORD DWG REV B PER TDRR 21541				
D		REVISION STATUS CHANGED			13 JUL 66	
E		REVISED PER TDRR 30181	AH			
F		REVISION STATUS CHANGED				
G		REVISION STATUS CHANGED				
H		REVISION STATUS CHANGED.	JJB			
J		REVISION STATUS CHANGED	TD	AH		
K		REVISION STATUS CHANGED	EC		2 OCT	
L		REVISION STATUS CHANGED				
M		REVISED PER TDR 33007	KES			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R47 19
T9 68
SEE NOTE 16
C30 47
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T12-BLK
T12-WHT
T12-BRN
T9-WHT
T9-BLK
R62 28
R61 28
SEE NOTE 15
T11 66
T8 66
T13 70
R89 20
5
R46 28
Q23 62
R68 32
C22 47
T8-BRN
CR7 57
CR6 59
FT50
FT40
R66 37
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R57 23
T10 65
R58 20
R50 24
R38 22
T7 65
R37 24
R41 23
Q10 64
T18-BRN
T18-BLU
T7-BLK.
T18-GRN
R35 24
Q22 64
6
T18-YEL
FT48
FT47
FT46
R84 21
R91 33
R86 20
C31 (+)
C23
C1 (+)
C34 (+)
C46 (+)
C35
C44
C36
C18
C20
SP2
SP
T9 BLU
T12-BLU
FT4
FT11
FT26
FT10
FT25
FT27
FT8
FT9
FT7
FT12
FT33
FT2
FT3
T7 BLU
T8 BLU
R49
R43
R34
(-)
(+)

SHOWN FOR REFERENCE ONLY

VIEW C-C

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

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INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

DRAWN Ed Pongano 24 Jun 66
CHECKED
APPROVED 5 Jul 66
APPROVED
APPROVED MIT
APPROVED MSC

RADAR RESOLVERS & 120V PIPA SUPPLY SIGNAL CONDITIONER

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 6007012

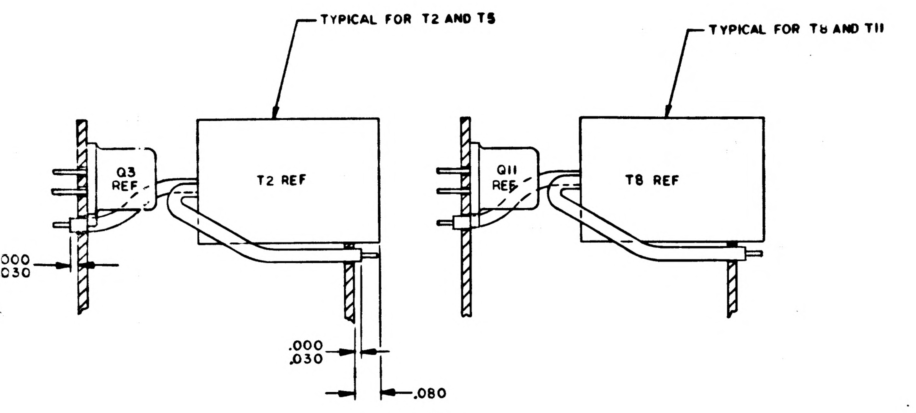
SCALE 5/1 | SHEET 2 OF 2

6007012 M

3H

2/6007012

REVISIONS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TYPICAL FOR T8 AND T11
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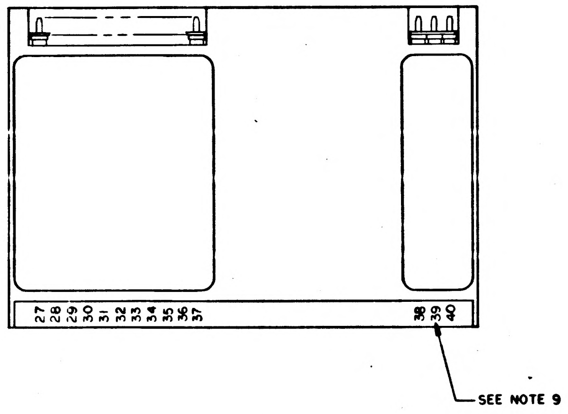
T2 REF
Q11 REF
T8 REF
.000
.030
.000
.030
.080

PARTIAL SECTION J-J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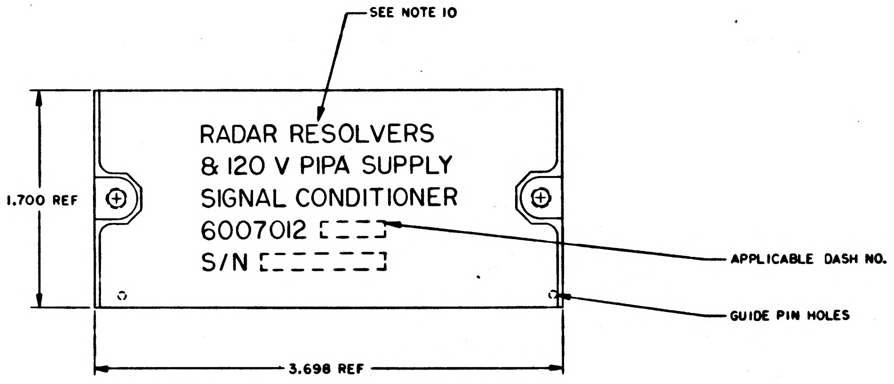
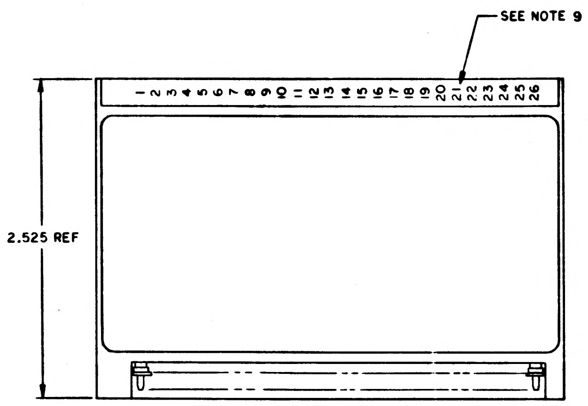
38 39 40
SEE NOTE 9


SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012 [- - -]
S/N [- - - - - -]
APPLICABLE DASH NO.
GUIDE PIN HOLES
1.700 REF
3.698 REF


SEE NOTE 9
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2.525 REF

MARKING VIEW
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	6010007	SCHEMATIC	REF
AR	1006776-22	INSULATION, SLEEVING	71
2	1010710	TRANSFORMER	70
2	1010365	TRANSFORMER	69
4	1010323	TRANSFORMER	68
2	1010274	TRANSFORMER	67
4	1008842	TRANSFORMER	66
4	1008832	TRANSFORMER	65
9	1010397-1	TRANSISTOR	64
12	1010367	TRANSISTOR	63
1	1010357-1	TRANSISTOR	62
1	1010342	TRANSISTOR	61
5	1010837-001	DIODE	60
3	1010385	DIODE	59
2	1010372-12	DIODE	58
2	1010259-000	DIODE	57
1	1006777-31	CAPACITOR	56
1	1010279-104	CAPACITOR	55
4	1010410-10	CAPACITOR	54
4	1010410-18	CAPACITOR	53
10	1010279-16	CAPACITOR	52
2	1006755-132	CAPACITOR	51
1	1006755-130	CAPACITOR	50
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8	1006755-34	CAPACITOR	46
1	1006755-33	CAPACITOR	45
5	1006755-31	CAPACITOR	44
1	1010377-103	RESISTOR	43
1	1010377-20	RESISTOR	42
1	1010368-128	RESISTOR	41
1	1010368-121	RESISTOR	40
1	1010368-105	RESISTOR	39
1	1010364-501	RESISTOR	38
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1	1010364-443	RESISTOR	36
2	1010364-411	RESISTOR	35
1	1006750-47	RESISTOR	34
2	1006750-41	RESISTOR	33
1	1006750-38	RESISTOR	32
2	1006750-32	RESISTOR	31
1	1006750-8	RESISTOR	30
4	1006750-1	RESISTOR	29
9	1006750-25	RESISTOR	28
4	1010311-304	RESISTOR	27
4	1010311-291	RESISTOR	26
4	1010311-120	RESISTOR	25
12	1010364-769	RESISTOR	24
4	1010364-707	RESISTOR	23
4	1006750-72	RESISTOR	22
5	1006750-65	RESISTOR	21
6	1006750-56	RESISTOR	20
10	1006750-36	RESISTOR	19
1	2008093-000	TERMINAL, THREADED	18
AR	1006776-21	INSULATION, SLEEVING	17
AR	1006776-20	INSULATION, SLEEVING	16
AR	1006757-1	WIRE, ELECTRICAL	15
AR	1010848-2	WIRE, ELECTRICAL	14
4	1008168-3	SPACER, STUD	13
8	1015135-011	SPACER,	12
8	1008161-1	SCREW, CAP SLOTTED HEAD, SPECIAL	11
1	6008052	WIRING BOARD D	10
1	6008050	WIRING BOARD C	9
1	6008043	WIRING BOARD B	8
1	6008045	WIRING BOARD A	7
2	1008540-13	GASKET, CONNECTOR MINAT	6
1	1008540-11	GASKET, CONNECTOR MINAT	5
1	1008540-3	GASKET, CONNECTOR MINAT	4
40	1006782-12	CONTACT, WRAPOST-MALE, MINAT	3
40	1006775	INSULATOR, WRAPOST-MALE, MINAT	2
1	6008037	FRAME	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	
6007010	

APPLICATION

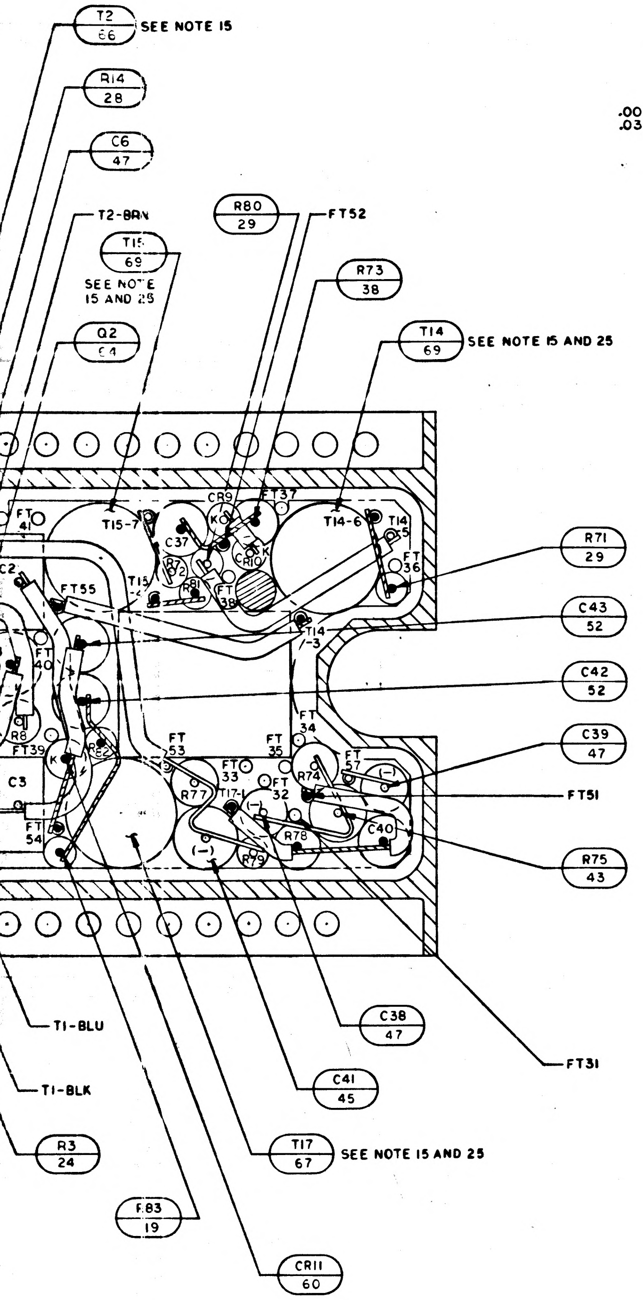
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ——— DECIMALS ± ANGLES ± ———
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN Ed Powers DATE 28 Apr 66
CHECKED [illegible] 4 Apr 66
APPROVAL [illegible] 5 Apr 66
APPROVAL [illegible] 5 Apr 66
NASA APPROVAL A. C. METZGER
MIT APPROVAL [illegible] 5 Apr 66

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007012
SCALE 5/1
WT
SHEET 1 OF 2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SEE NOTE 15
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T15
69
SEE NOTE 15 AND 25
Q2
64
R80
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FT52
R73
38
T14
69
SEE NOTE 15 AND 25
T15-7
FT37
CR9
C37
FT41
C2
FT55
T14-6
T14
FT36
R71
29
C43
52
T14-3
C42
52
FT40
R6
FT39
C3
FT53
FT33
FT35
FT34
R77
R74
FT32
R76
R79
C40
C39
47
FT51
R75
43
FT54
C38
47
FT31
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T1-BLK
C41
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R3
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T17
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SEE NOTE 15 AND 25
R83
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CR11
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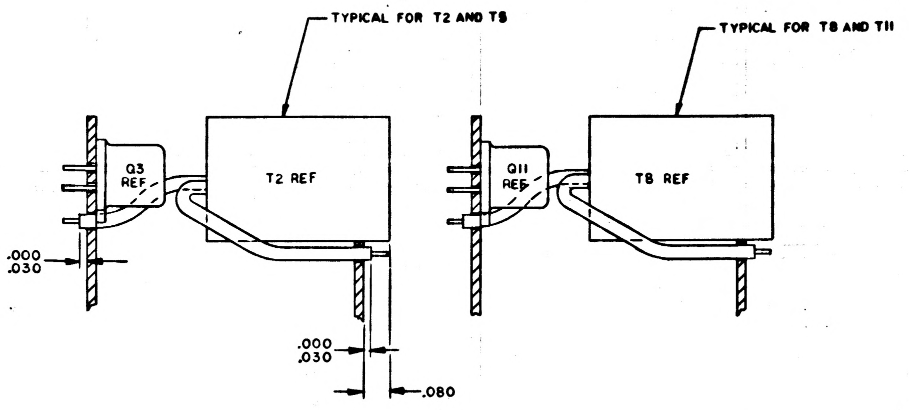
TYPICAL FOR T2 AND T5
TYPICAL FOR T8 AND T11
Q3 REF
T2 REF
Q11 REF
T8 REF
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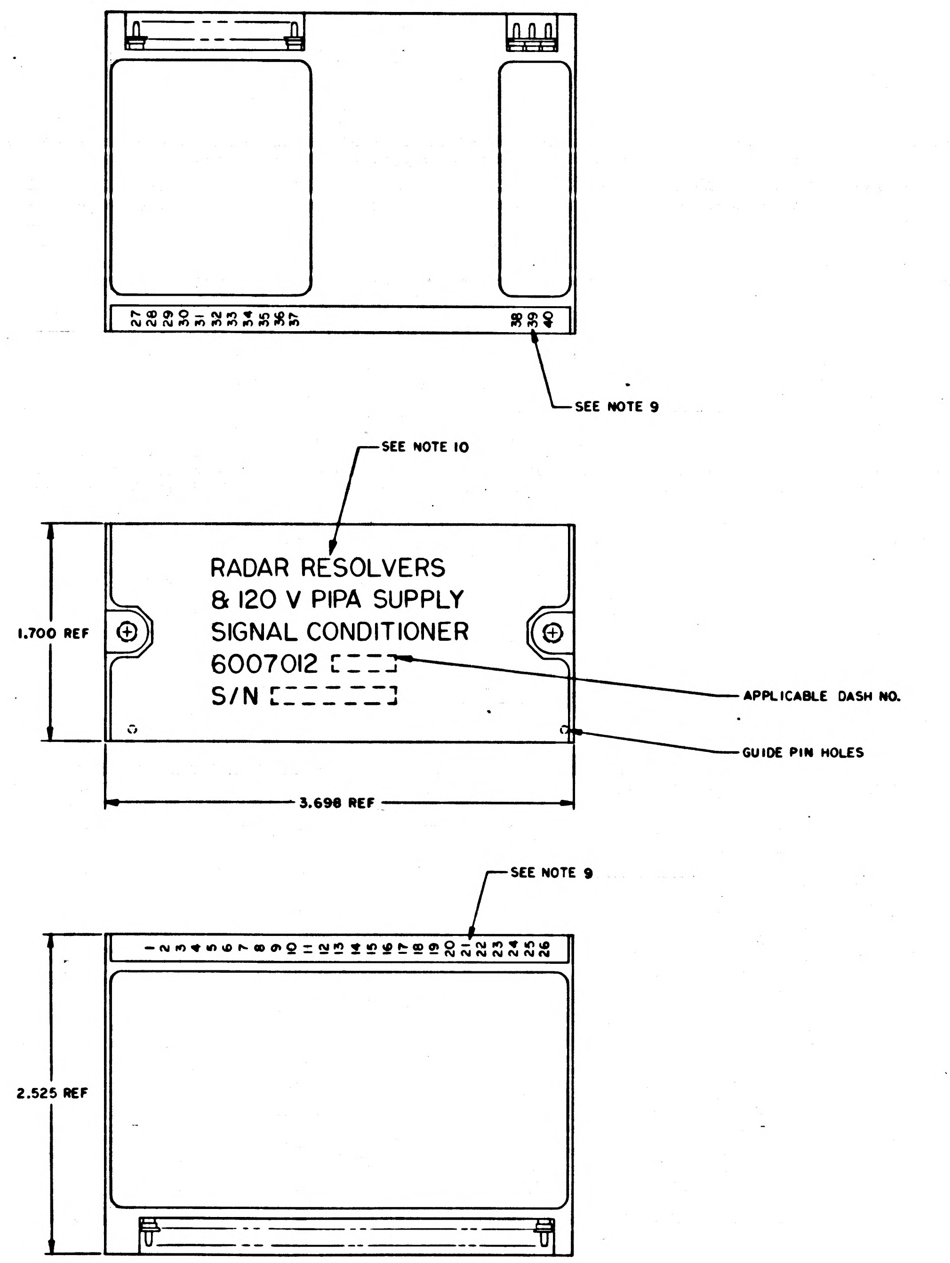
.030
.000
.030
.080

PARTIAL SECTION J-J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38 39 40
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SEE NOTE 10
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER
6007012 [- - -]
S/N [- - - - - -]
APPLICABLE DASH NO.
GUIDE PIN HOLES
1.700 REF
3.698 REF
SEE NOTE 9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
2.525 REF

MARKING VIEW
SCALE 2/1

☒	6010007	SC
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2	1010365	TRAN
4	1010323	TRA
2	1010274	TRA
4	1008842	TRA
4	1008832	TRA
9	1010397-1	TRA
12	1010367	TRAN
1	1010357-1	TRA
1	1010342	TRA
5	1010837-001	DIO
3	1010385	DI
2	1010372-12	DI
2	1010259-000	DIO
1	1006777-31	CA
1	1010279-04	CA
4	1010410-1	CA
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7	1006755-9	CA
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4	1008168-	S
8	1015135-011	S
8	1008161-1	S
1	6008052	W
1	6008050	W
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QTY REQD	PART OR IDENTIFYING NO.	
-011		

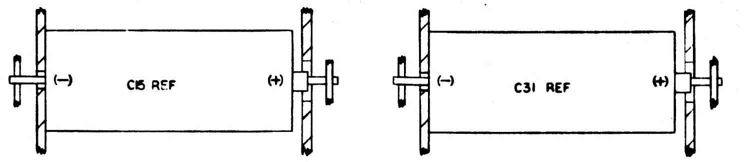
6007013		
6007010		
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Powers
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

807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C15 REF
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C31 REF
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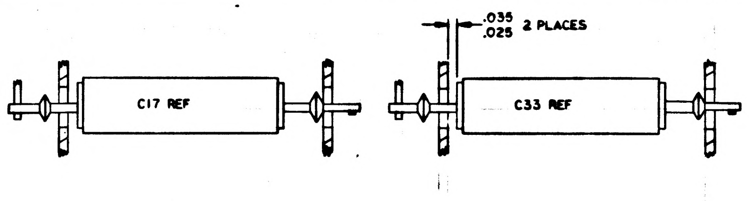
PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31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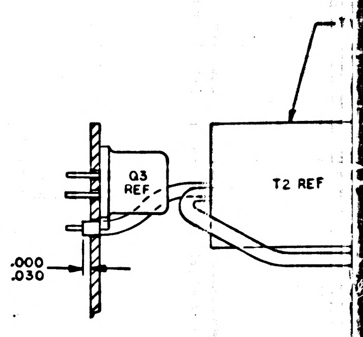
.025 2 PLACES
C17 REF
C33 REF

PARTIAL SECTION H-H
TYPICAL FOR C8, C9, C16, C17, C24, C25, C32, C33, C37, C42 AND C43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T2 REF
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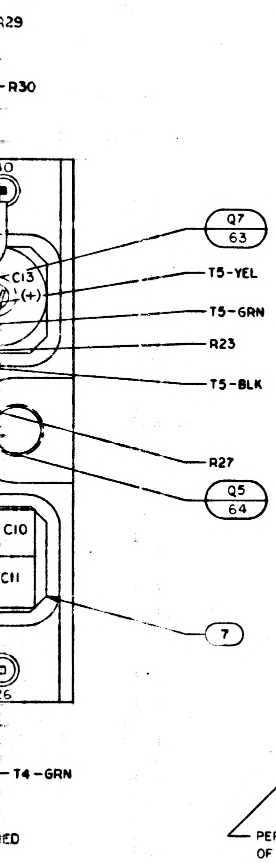
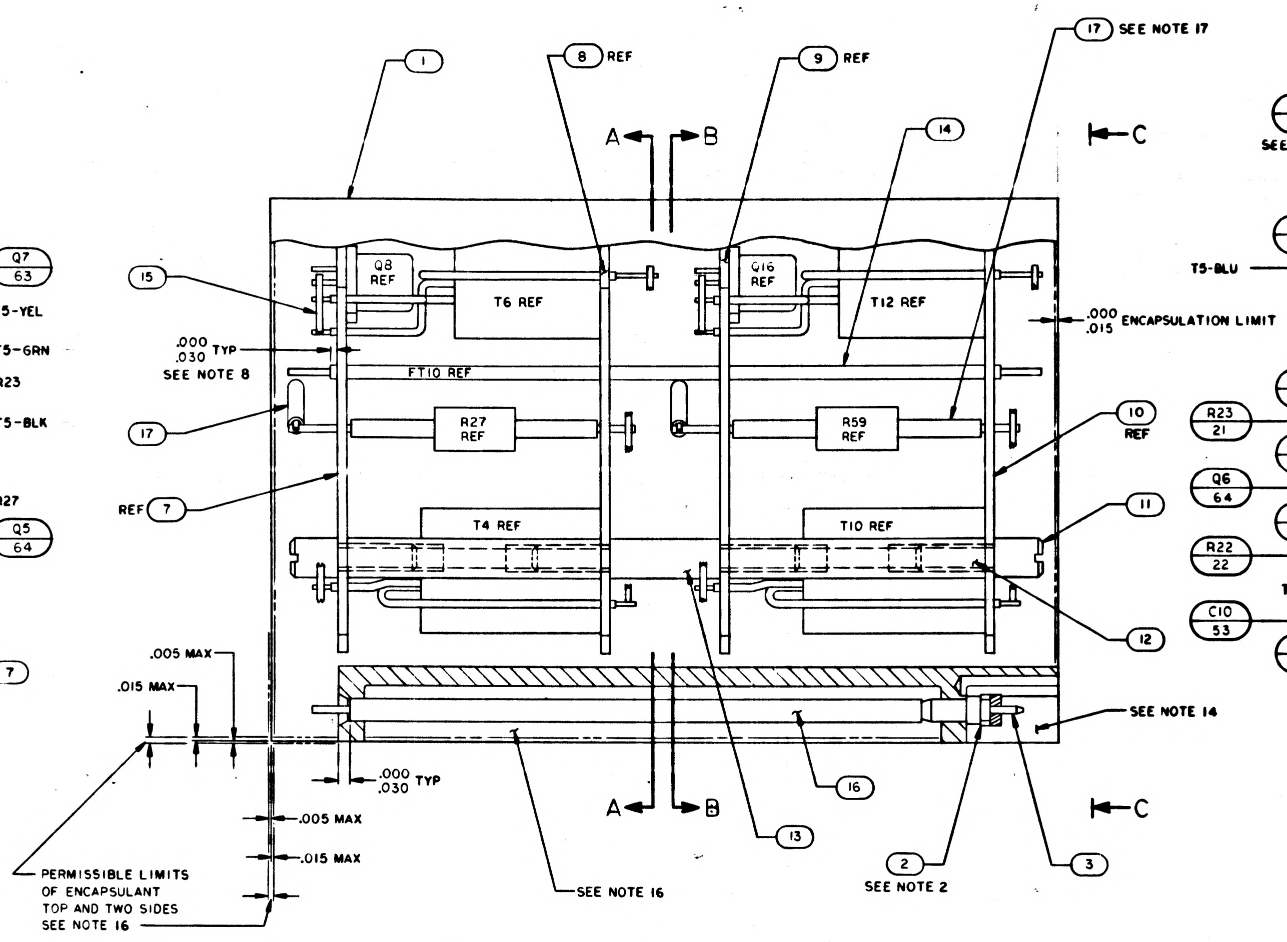
.000
.030
PAR


R29
R30
Q7
63
C13
(+)
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5
64
C10
C11
7
T4-GRN
ED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8 REF
9 REF
17 SEE NOTE 17
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A
B
C
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Q8
REF
T6 REF
Q16
REF
T12 REF
.000
.015 ENCAPSULATION LIMIT
.000
.030 TYP
SEE NOTE 8
FT10 REF
17
R27
REF
R59
REF
10
REF
REF 7
11
T4 REF
T10 REF
12
.005 MAX
.015 MAX
SEE NOTE 14
.000
.030 TYP
16
.005 MAX
.015 MAX
A
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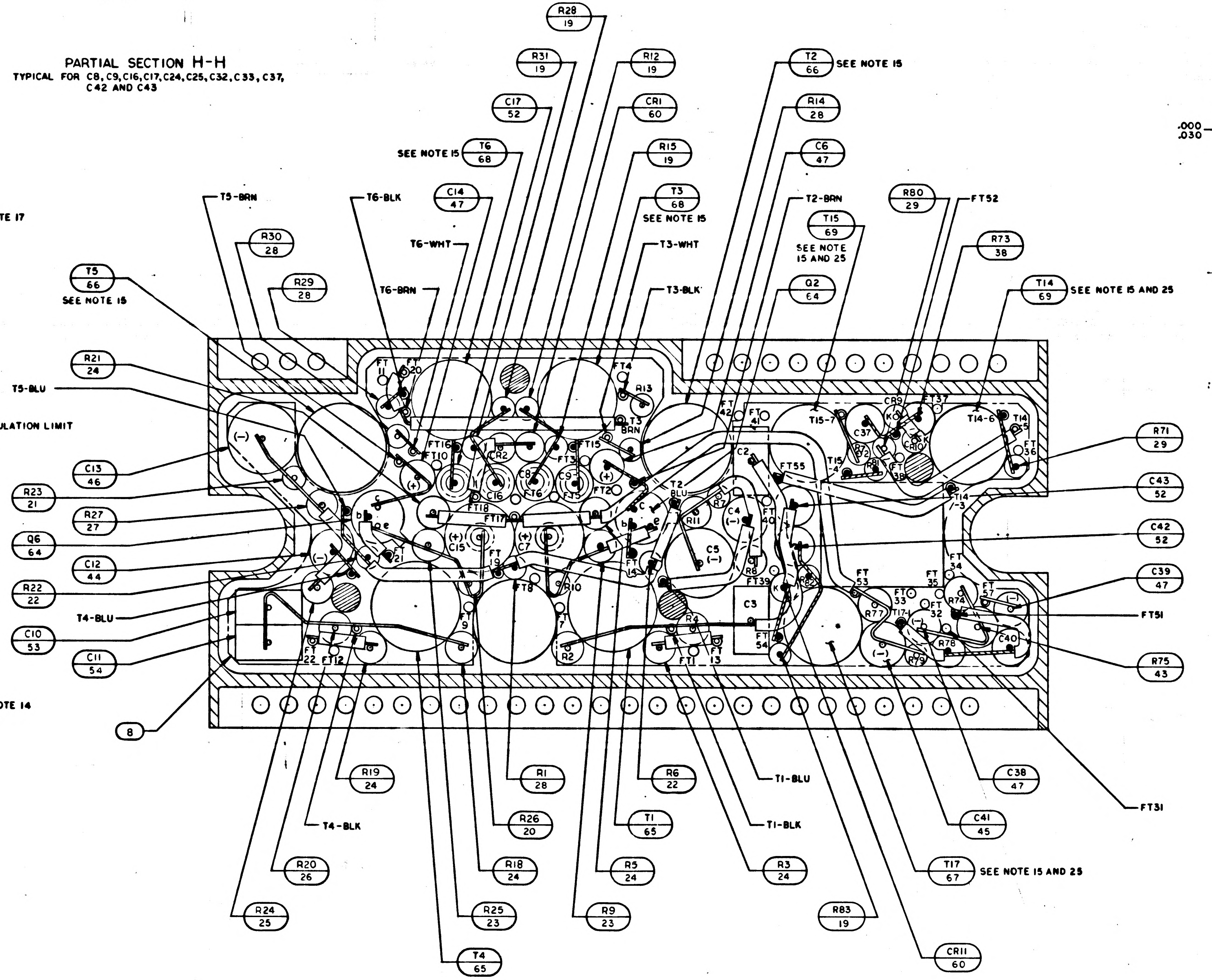
SEE NOTE 2
3
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16
SEE NOTE 16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C17
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CR1
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R14
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T6
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R15
19
C6
47
T5-BRN
T6-BLK
C14
47
T3
68
SEE NOTE 15
T2-BRN
R80
29
FT52
R30
28
T6-WHT
T3-WHT
T15
69
SEE NOTE
15 AND 25
R73
38
T5
66
SEE NOTE 15
R29
28
T6-BRN
T3-BLK
Q2
64
T14
69
SEE NOTE 15 AND 25
R21
24
T5-BLU
C13
46
R23
21
R27
27
Q6
64
C12
44
R22
22
T4-BLU
C10
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C11
54
8
R71
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C43
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C42
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C39
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FT51
R75
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FT
11
FT
20
FT16
FT10
CR2
C16
C8
C16
C9
FT3
FT15
FT2
FT4
R13
FT13
BRN
FT
42
FT
41
T15-7
CR9
FT37
K
C37
CR10
T14-6
T14
5
FT
36
C2
FT55
T15
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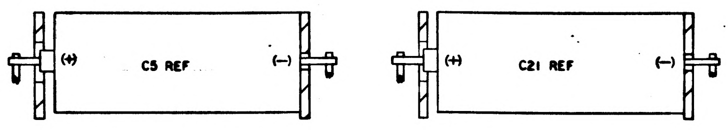
FT18
FT17
C15
C7
T2
BLU
C4
(−)
R11
C5
(−)
R6
FT39
FT8
R10
FT
19
FT
9
FT
21
FT
14
R4
R2
FT1
FT
13
C3
FT
54
FT
53
R77
FT
33
T17-1
FT
35
FT
32
R74
R76
R79
C40
FT
57
FT
34
T14
/-3
FT
22
FT12
(+)
(−)
b
c
e
R19
24
R1
28
R6
22
T1-BLU
C38
47
FT31
T4-BLK
R26
20
T1
65
T1-BLK
C41
45
R20
26
R18
24
R5
24
R3
24
T17
67
SEE NOTE 15 AND 25
R24
25
R25
23
R9
23
R83
19
CR11
60
T4
65

SECTION A-A

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.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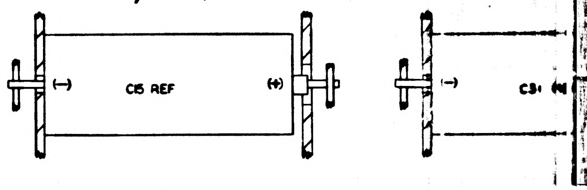
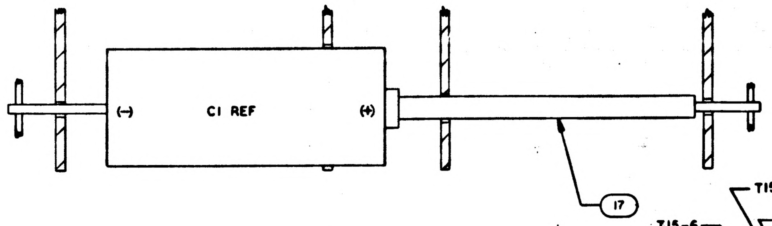
C5 REF
(−)
(+)
C21 REF
(−)

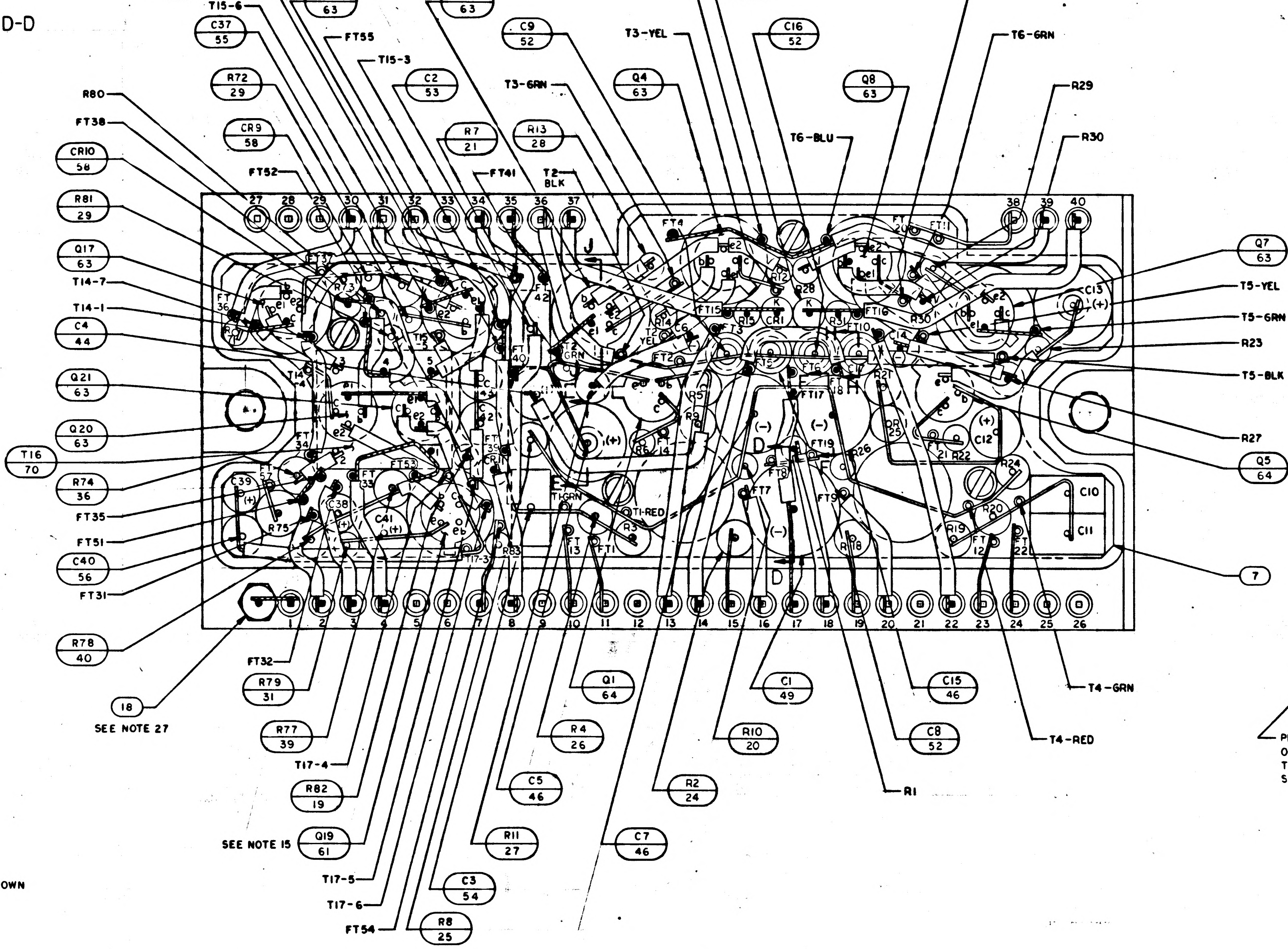
PARTIAL SECTION E-E
TYPICAL FOR C5, C13, C21 AND C29



PARTIAL SECTION F-F
TYPICAL FOR C7, C15, C23 AND C31



PARTIAL SECTION D-D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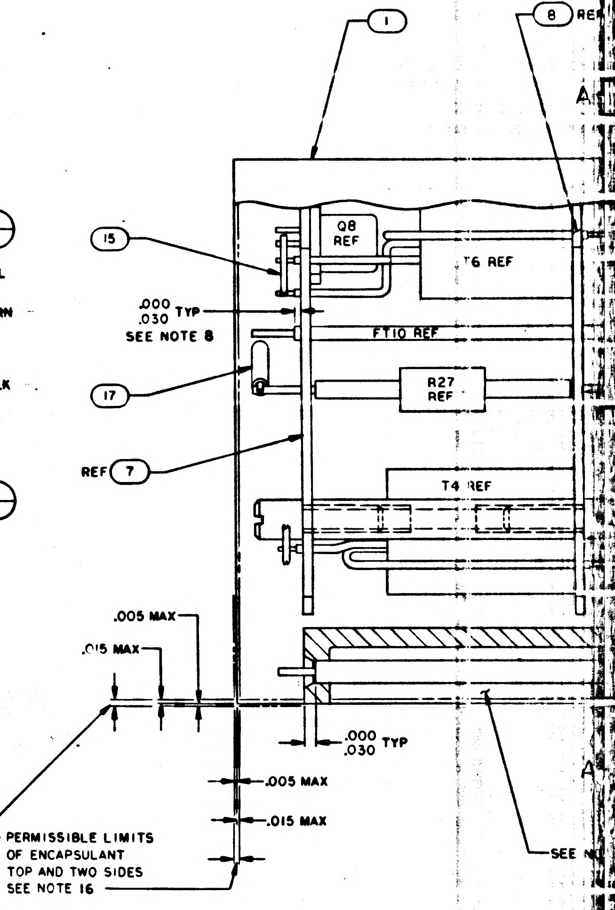
Q3 63
T15-6
C37 55
FT55
T15-3
C2 53
C9 52
T3-BLU
CR2 60
T3-YEL
C16 52
T6-YEL
T6-GRN
R72 29
T3-GRN
Q4 63
Q8 63
R29
R80
CR9 58
R7 21
R13 28
T6-BLU
R30
FT38
CR10 58
FT52
FT41
T2 BLK
R81 29
Q17 63
T14-7
T14-1
C4 44
Q21 63
Q20 63
T16 70
R74 36
FT35
FT51
C40 56
FT31
R78 40
Q7 63
T5-YEL
T5-GRN
R23
T5-BLK
R27
Q5 64
7
C10
C11
C13
C12
C39
C38
C41
27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
FT32
R79 31
18
SEE NOTE 27
R77 39
T17-4
R82 19
Q19 61
SEE NOTE 15
T17-5
T17-6
FT54
R8 25
C3 54
R11 27
C5 46
R4 26
Q1 64
C7 46
R2 24
R10 20
C1 49
C15 46
C8 52
R1
T4-GRN
T4-RED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8 REF
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Q8 REF
T6 REF
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SEE NOTE 8
FT10 REF
17
R27 REF
REF 7
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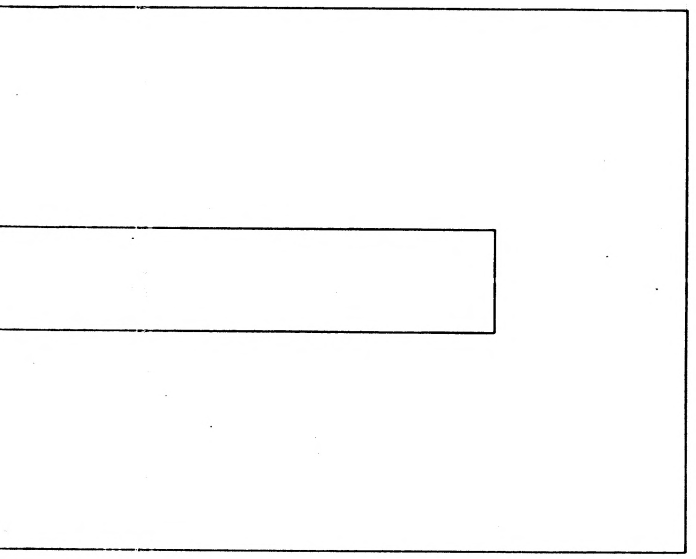
.005 MAX
.015 MAX
.000
.030 TYP
.005 MAX
.015 MAX
PERMISSIBLE LIMITS
OF ENCAPSULANT
TOP AND TWO SIDES
SEE NOTE 16
SEE N

NOTES:

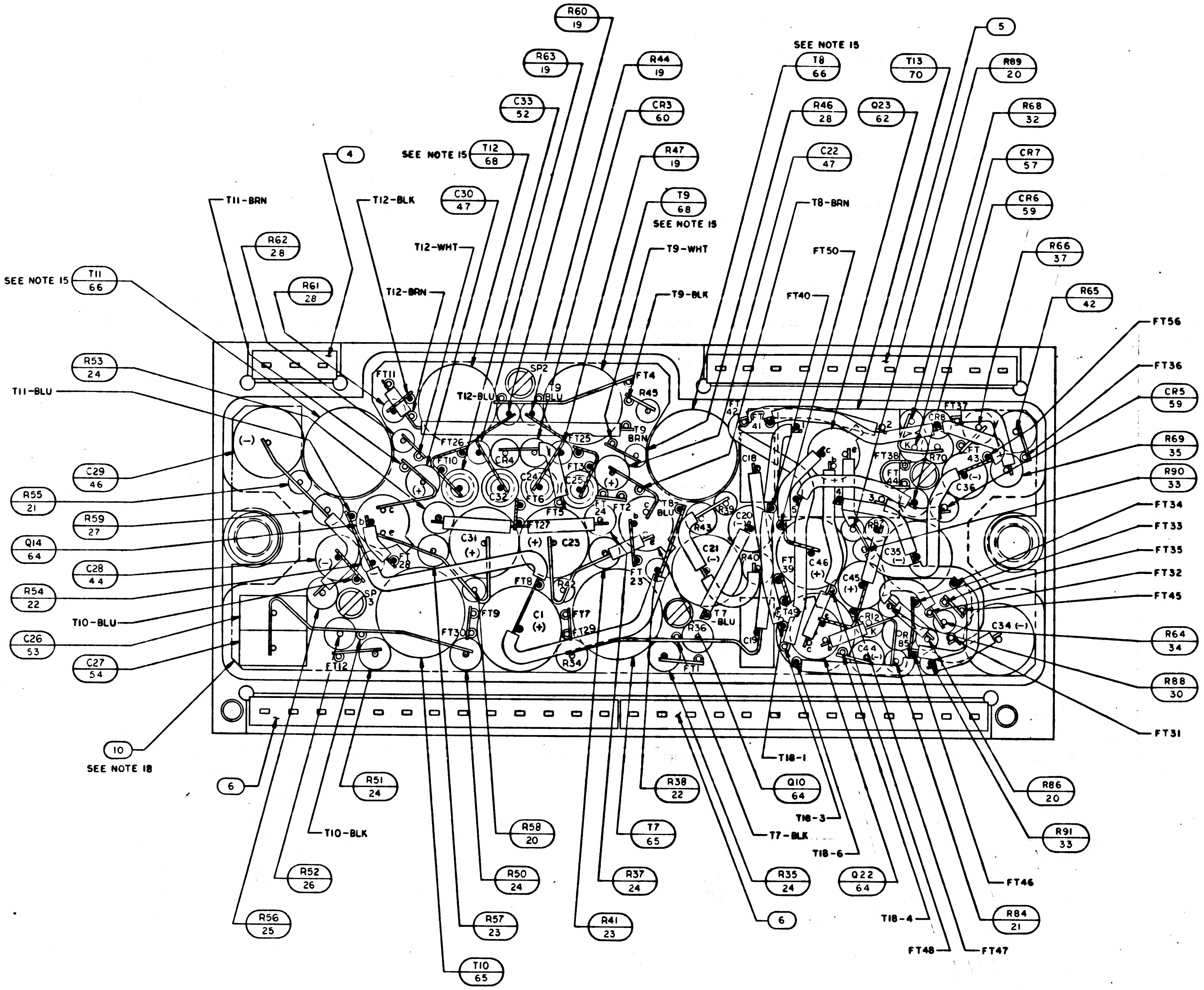
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE FIND NO. 2 AND FIND NO. 3 TO FIND NO. 1 PER ND 1002136
3. AR DENOTES AS REQUIRED
4. FT DENOTES FEED THRU
5. K DENOTES CATHODE SIDE OF DIODE
6. + DENOTES POSITIVE SIDE OF CAPACITOR
7. WELD PER ND 1002005
8. TYPICAL SLEEVING FOR FEED THRU AND TRANSFORMER LEADS
9. MARK .10/.06 HIGH WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
10. MARK .14/.10 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
11. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
12. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
13. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
14. INDICATED AREA TO BE FREE OF ENCAPSULATION
15. TRIM UNUSED LEADS OF FIND NO. 61 AND 66 THRU 69 .060/.100 FROM CASE
16. ENCAPSULATE PER ND1002002. REMOVE FLASHING
17. TYPICAL SLEEVING FOR FIND NO. 19 THRU 41 AND 57 THRU 60
18. BOND FIND NO. 10 TO FIND NO. 1 PER ND 1002004 TYPE I
19. BOND Q1, Q3, Q4, Q5, Q7, Q8, Q17, Q18, Q19, Q20 AND Q21 TO FIND NO. 7 PER ND1002004 TYPE I
20. BOND Q2, Q6, T1, T2, T3, T4, T5, T6, T14, T15, T16 AND T17 TO FIND NO. 8 PER ND1002004 TYPE I
21. BOND Q9, Q11, Q12, Q13, Q15, Q16, T13 AND T18 TO FIND NO. 9 PER ND1002004 TYPE I
22. BOND Q10, Q14, Q22, Q23, T7, T8, T9, T10, T11 AND T12 TO FIND NO. 10 PER ND1002004 TYPE I
23. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
24. EXCEPT FOR MODULE MOUNTING SURFACE PAINT ALL SURFACES PER ND1002279 USING 1010992 PRIMER AND 1008809-4 PAINT. PIN BLADES AND INSULATORS TO BE FREE OF PAINT
25. SLEEVE FIND NO. 67 AND 69 LEADS USING FIND NO. 71
26. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 2007118
27. MOUNTING TORQUE FOR FIND NO. 18 TO BE 15-20 INCH OUNCES

SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED

REVISIONS 27P32



VIEW SHOWN FOR REFERENCE ONLY



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R63 19
R44 19
C33 52
CR3 60
SEE NOTE 15 T12 68
R47 19
4
C30 47
T9 68
SEE NOTE 15
T11-BRN
T12-BLK
T12-WHT
T9-WHT
R62 28
R61 28
T12-BRN
T9-BLK
SEE NOTE 15 T11 66
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
6
R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
R38 22
T7 65
R37 24
R41 23
SEE NOTE 15
T8 66
T13 70
5
R89 20
R46 28
Q23 62
R68 32
C22 47
CR7 57
T8-BRN
CR6 59
FT50
R66 37
FT40
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
T18-1
Q10 64
T18-3
T7-BLK
T18-6
R35 24
Q22 64
6
T18-4
FT48
FT47
R84 21
FT46
R91 33
R86 20
SP2
T9 BLU
FT4
R45
T9 BRN
FT11
FT26
FT10
CR4
C32
C24
FT25
FT5
FT6
T12-BLU
C31 (+)
(+) C23
FT27
(−)
(+)
FT8
R42
FT9
FT30
C1 (+)
FT7
FT29
R34
FT2
T8 BLU
R43
R36
FT1
R40
C20
C21 (−)
C19
C18
FT 39
C46 (+)
C45 (+)
FT49
C44
CR8
FT37
FT38
R70
C36
C35 (−)
R12
R87
CR 85
C34 (−)
SP 3
FT12
FT3

VIEW C-C

3H

6007012

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

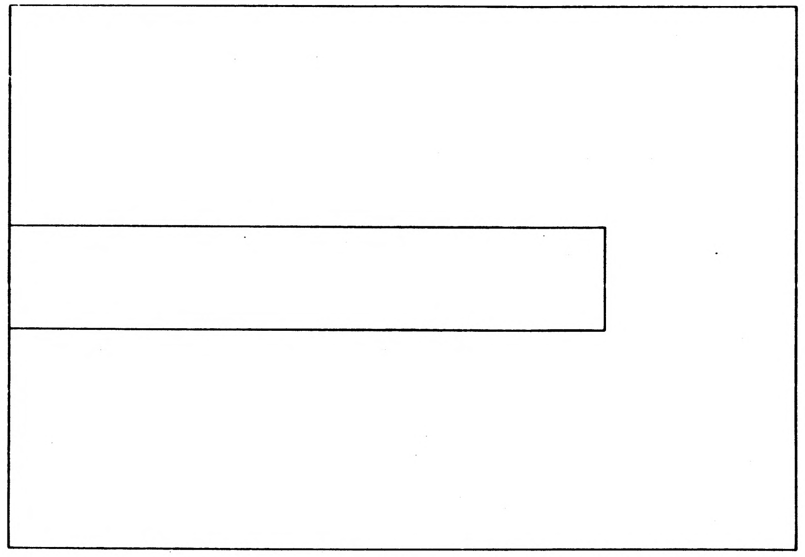
DRAWN	Ed Powers	24-3-66
CHECKED	R.P. [illegible]	[illegible]
APPROVED	[illegible]	5 Apr 66
APPROVED	[illegible]	[illegible]
APPROVED MIT	W. [illegible]	[illegible]
APPROVED MSC	R. G. METZGER	

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

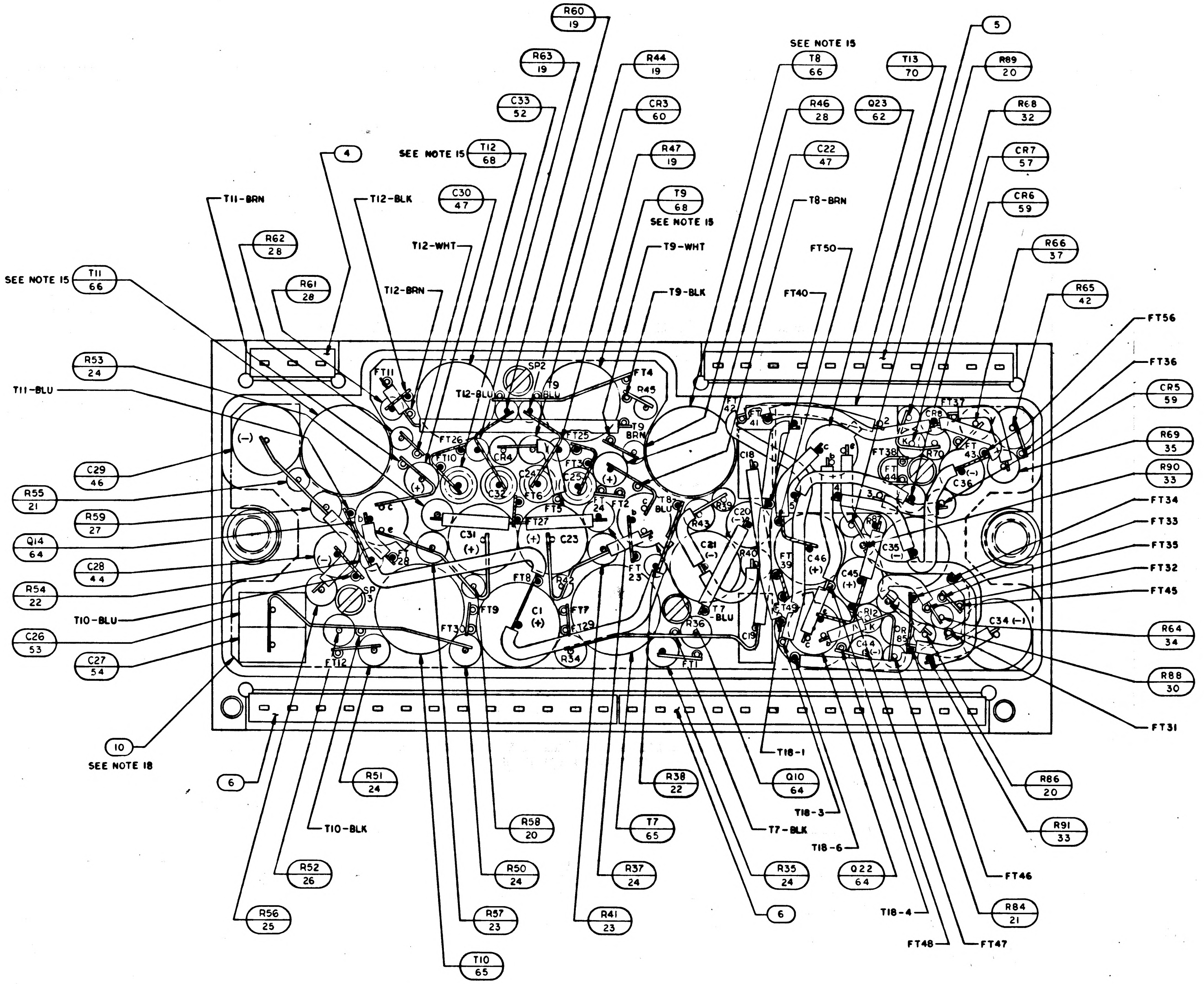
RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007012
SCALE 5/1		SHEET 2 OF 2

6007C12



VIEW SHOWN FOR REFERENCE ONLY



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R63 19
R44 19
C33 52
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T12 68
R47 19
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T12-BLK
C30 47
T9 68
SEE NOTE 15
R62 28
T12-WHT
T9-WHT
R61 28
T12-BRN
T9-BLK
SEE NOTE 15
T11 66
SEE NOTE 15
T8 66
R46 28
Q23 62
C22 47
T8-BRN
FT50
FT40
T13 70
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R89 20
R68 32
CR7 57
CR6 59
R66 37
R65 42
FT56
FT36
CR5 59
R69 35
R90 33
FT34
FT33
FT35
FT32
FT45
R64 34
R88 30
FT31
R53 24
T11-BLU
C29 46
R55 21
R59 27
Q14 64
C28 44
R54 22
T10-BLU
C26 53
C27 54
10
SEE NOTE 18
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R51 24
T10-BLK
R52 26
R56 25
R58 20
R50 24
R57 23
T10 65
T7 65
R37 24
R41 23
R38 22
Q10 64
T7-BLK
T18-1
T18-3
T18-6
R35 24
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Q22 64
T18-4
FT48
FT47
FT46
R84 21
R86 20
R91 33
SP2
FT11
FT26
FT10
CR4
C32
C24
FT6
FT25
FT3
C25
T9 BLU
T9 BRN
FT4
R45
T12-BLU
FT27
FT5
C31 (+)
C23
C1 (+)
FT8
FT9
FT7
FT29
FT13
R34
R42
FT12
SP3
T8 BLU
R43
R39
C20
C21
R40
C18
FT39
C46
C45
FT49
R12
C44
R36
T7 BLU
C19
FT1
CR8
FT37
R70
FT38
FT43
C36
C35
R87
C34 (-)
(-)
(+)

VIEW C-C

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

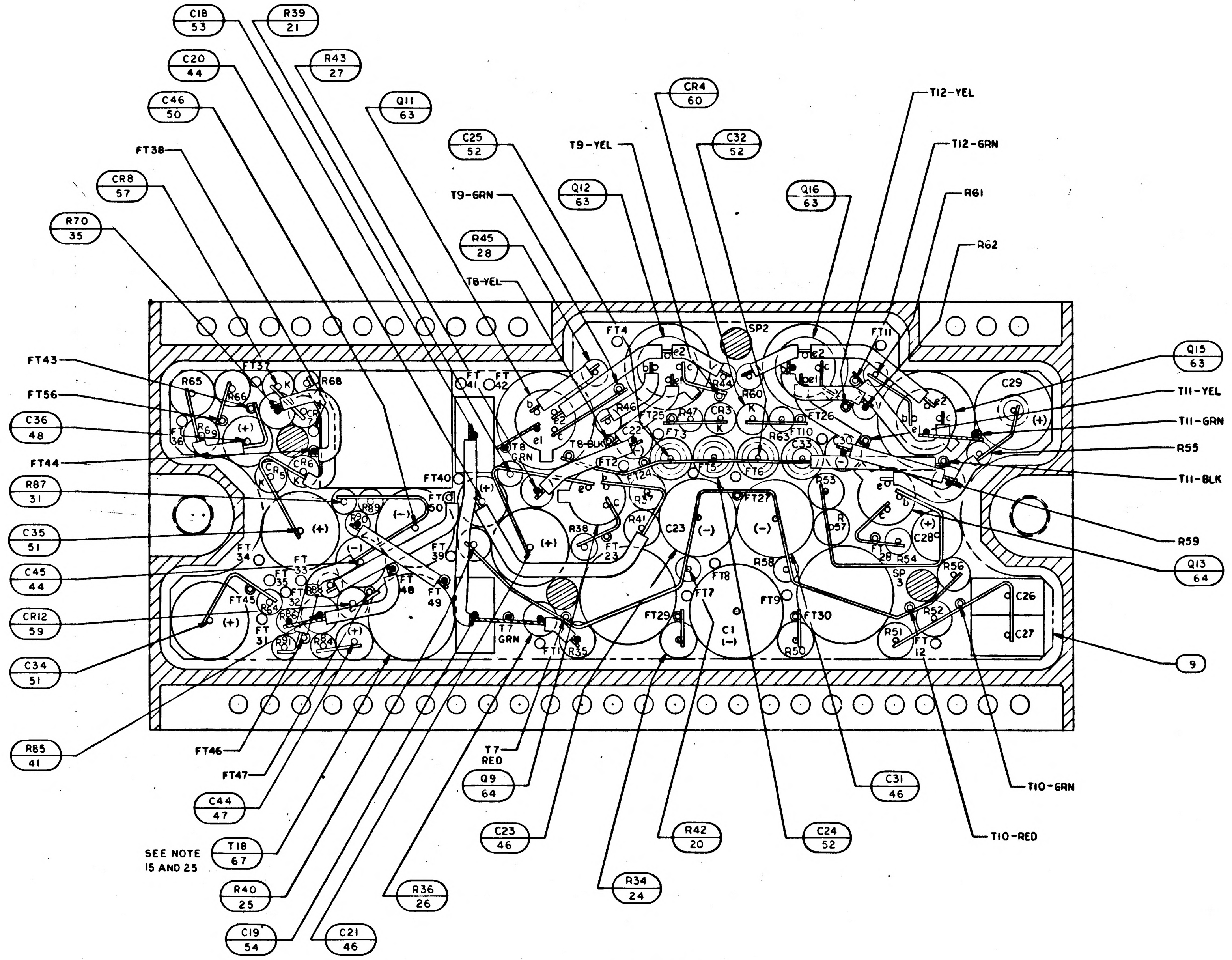
DRAWN Ed. Powers 24-2-66
CHECKED
APPROVED 5 Apr 66
APPROVED
APPROVED MIT
APPROVED MSC

RADAR RESOLVERS
& 120 V PIPA SUPPLY
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007012

SCALE 5/1 DATE SHEET 2 OF 2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.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C46 50
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FT38
C25 52
CR8 57
R70 35
T9-GRN
T9-YEL
Q12 63
CR4 60
C32 52
Q16 63
T12-YEL
T12-GRN
R61
R62
R45 28
T8-YEL
FT43
FT56
C36 48
FT44
R87 31
C35 51
C45 44
CR12 59
C34 51
R85 41
FT46
FT47
C44 47
SEE NOTE 15 AND 25
T18 67
R40 25
C19 54
C21 46
R36 26
T7 RED
Q9 64
C23 46
R34 24
R42 20
C24 52
C31 46
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T10-RED
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Q15 63
R65
R66
R68
FT52
FT4
FT11
SP2
C29
R44
R60
R46
R47
CR3
FT25
FT26
FT10
C22
T8 GRN
T8-BLK
FT2
FT3
FT5
FT6
R63
C33
FT40
FT 41
FT 42
FT 50
FT 39
FT 48
FT 49
R89
R38
R41
FT 23
C23
FT27
R53
R57
C28
FT 28
R54
SP 3
R56
C26
C27
R58
FT8
FT7
FT29
FT9
FT30
C1
R50
R51
R52
FT 12
T7 GRN
FT1
R35
FT 34
FT 35
FT 33
FT 32
FT 31
FT45
CR5
CR6
(+)
(−)
b
c
e1
e2
K

SECTION B-B

VIEW SHOWN FOR REFERENCE ONLY

APOLLO G&N Specification
PS6007012 REV -
Original Issue Date: 18 MAY 1966
Release Authority: TDRR 29029
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

RADAR RESOLVERS AND 120 V PIPA SUPPLY SIGNAL CONDITIONER ASSEMBLY

DRAWING NO. 6007012

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 11 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	RWKowalski 9 May 66 MIT/IL	GW Krier ACSP

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 DC Current Drain. The dc current drain of the assembly shall be 18.0±1.8 ma.

3.1.2 Reference Input Current. The 28V rms, 800 cps, input current shall be less than 23.0 ma.

3.1.3 Offset Voltages. The offset voltages of assembly sections a, b, c, and d shall be ≤10 mvdc. The offset voltage of assembly section e shall be less than 100 mvdc.

3.1.4 Scale Factor. The input voltage for assembly sections a, b, c, and d shall be 21.50±1.75V rms with a phase angle of +5° ±2° for a respective output voltage of 2.500 ± 0.005 vdc. The input voltage for assembly section e shall be 85.0 vdc ±10 percent and 135.0 vdc ± 10 percent for an output voltage of −2.500±0.005 vdc and +2.500±0.005 vdc respectively. The output voltage of assembly section f shall be a 25V pp minimum, 800 pps square wave, and a 22V pp minimum, 800 pps square wave for a 1 Megohm load and a 2K ohm load respectively.

3.1.5 Gain Stability. The scale factors of assembly sections a, b, c, d, and e specified in 3.1.4 shall not deviate by more than ±1 percent when the +28 vdc supply is enhanced to +33 vdc or degraded to +23 vdc. The output voltage of assembly section f shall not be less than 18V pp, 800 pps, when the bias supply voltage is degraded to +23 vdc for an output load of 2K ohms.

3.1.6 Scale Factor Linearity. The scale factor linearity of each assembly section a, b, c, and d, shall not deviate by more than 4 percent from the average of 6 individual, respective, assembly scale factors. The scale factor linearity of assembly section e shall not deviate by more than 4 percent from the average of 4 scale factors.

3.1.7 Output Impedance. The output impedance of assembly sections a, b, c, d, and e shall be <5K ohms.

3.1.8 Output Ripple and Noise. The output ripple and noise of assembly sections a, b, c, d, and e, shall be less than 10 mv pp for a respective output of +2.500±0.050 vdc.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007012 and all drawings and engineering data referenced thereon.

3.2.2 Standards of Manufacturing, Manufacturing Process, and Production

3.2.2.1 Insulation Resistance. The dc resistance between all assembly pins and pin 1 shall be ≥100 megohms.

3.2.2.2 Continuity and DC Resistance. The continuity and dc resistance shall be as specified in Table 1.

TABLE I

CONTINUITY AND DC RESISTANCE

FROM	TO	RESISTANCE
15	10	1.0 Meg to 1.01 Meg
19	24	↕
16	11	
20	23	1.0 Meg to 1.01 Meg
34	35	<600Ω
17	4	<0.5Ω
1	Chassis	<0.5Ω

3.2.2.3 **Circuit Isolation.** The dc resistance between any two low pins of the power, reference, input, and output circuits shall be ≥100 megohms, except between pins 4 and 17.

3.2.2.4 **Diode Function.** A +2.50±0.10 vdc output for assembly sections a, b, c, and d shall not decrease when pin 14 is connected to pin 36. A +2.50±0.10 vdc output for assembly section e shall not decrease when pin 8 is connected to pin 31. A -2.50±0.10 vdc output for assembly sections a, b, c, d, and e shall decrease below -1.0 vdc when pins 14 and 8 are connected to pins 36 and 31 respectively.

4.2.1.3 **Test Connections.** Unless otherwise specified, the tests specified herein shall be performed on each assembly section as shown in Figure 1, using the applicable input and output pins as detailed in Table II.

TABLE II

INPUT OUTPUT PIN CONNECTIONS

ASSEMBLY SECTION	INPUT PINS		OUTPUT PINS	
	Hi	Lo	Hi	Lo
a	15	10	37	36
b	19	24	40	36
c	16	11	13	36
d	20	23	22	36
e	30	32	7	31
f	—	—	2	4

4.2.2 **Nonconforming Units.** Failure of the units to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 **Drawing Compliance.** The assembly shall be visually examined for compliance to the requirements of Drawing 6007012. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 **Workmanship-Vibration.** The assembly shall be vibrated with the input test voltage, and output loads and voltages connected and monitored as shown in Figure 1. The assembly shall be mounted in the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the axes shown in Figure 2. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 6.0g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency. Previbration output levels shall be set within the range of 2.50±0.10 vdc for assembly sections a, b, c, d, and e. A 24.0±4.0V pp, 800 pps, square wave shall be present at the output pins of assembly section f. During vibration the output voltages shall not deviate by more than ±10 percent of the previbration levels for a period greater than 1 msec. Any deviation exceeding this requirement shall be cause for rejection of the assembly. After vibration, the assembly shall be examined as specified in 4.3.1.

4.3.3 Insulation Resistance. Using test equipment with a test potential of 500 vdc limited to a short circuit current of 6 u amps measure the resistance between pin 1 (Chassis ground) and all other assembly pins connected together. Verify that the insulation resistance is as specified in paragraph 3.2.2.1.

4.3.4 Continuity and DC Resistance. The dc resistance between the pins listed in Table I shall be as specified when measured with a low-voltage, resistance measuring device using Method 303 of Standard MIL-STD-202. To assure a good electrical connection when measuring between pin 1 and the chassis, the anodizing may be penetrated on the top of the module.

4.3.5 Circuit Isolation. Verification records shall be examined to verify that the requirement of 3.2.2.2. has been met.

4.3.6 DC Current Drain. With all the input pins specified in Table II connected together and the reference voltage off, the dc current drain on the 28.0 vdc supply shall be 18.0±1.8 ma.

4.3.7 Reference Current Drain. With all of the input pins specified in Table II connected together and the dc supply voltage applied, the current drain on the 28V rms, 800 cps square wave reference supply shall be less than 23.0 ma.

4.3.8 Offset Voltage. With the pins of assembly sections a, b, c, and d specified in Table II connected together and the operating voltages applied, the voltage at each pair of respective output pins shall be ≤10mv dc. With an input voltage of 110.00±0.10 vdc applied to the input pins of assembly section e, as specified in Table II, the voltage at the respective output pins shall be less than 100 mvdc.

4.3.9 Scale Factor. With the outputs of assembly sections a, b, c, and d adjusted to 2.500±0.005 vdc, plus the measured offset voltage, the signal voltage at each corresponding set of input pins shall be between 19.75 and 23.25V rms with a phase angle of +5°±2°. With the output of assembly section e adjusted to -2.500±0.005 vdc, the input voltage shall be between 76.50 and 93.50 vdc. With the output of assembly section e adjusted to +2.500±0.005 vdc, the input voltage shall be between 121.50 and 148.50 vdc. With a 1 Megohm load across the output of assembly section f, the output voltage shall be a 800 pps square wave with a minimum amplitude of 25.0V pp. With a 2K ohm load across the output of assembly section f, the output voltage shall be ≥22.0V pp.

4.3.10 Gain Stability. With the inputs to assembly sections a, b, c, d, and e, adjusted for corresponding outputs of +2.500±0.005vdc, enhancing or degrading the +28 vdc supply shall not cause the output to deviate by more than ±25 mvdc. Degrading the +28 vdc supply shall not cause the 800 pps square wave output of assembly section f to decrease below 18V pp.

4.3.11 Scale Factor Linearity.

4.3.11.1 Assembly sections a, b, c, and d. With the conditions specified below established for assembly sections a, b, c, and d, each of six calculated scale factor values shall not deviate from the average of the six values by more than ±4 percent.

a. The fixed input level, E_s, determined by adjusting the input to obtain an output of +2.500±0.005 vdc.

b. The input voltage, E_{in}, consecutively adjusted to 0.600 and 0.200 of E_s and the respective outputs measured.

c. The phase of E_s reversed and the outputs measured for inputs of 1.000 E_s, 0.600 E_s, and 0.200 E_s.

d. The offset voltage at the output terminals measured with the input pins connected together.

e. The offset voltage algebraically subtracted from the six output measurements.

f. The outputs at 1.000 E_s divided by 5, those at 0.600 E_s by 3, and those at 0.200 E_s by 1.000.

g. The six calculated values averaged and the deviation of each value from the average determined.

4.3.11.2 Assembly Section e. With the conditions specified below established for assembly section e, each of four calculated scale factor values shall not deviate from the average of the four values by more than ±4 percent.

a. The dc input signal voltage adjusted and recorded to obtain an output of 0.000±0.005 vdc.

b. The input consecutively adjusted to the following deviations from the input recorded in a:

(1) -25.00 vdc
(2) -10.00 vdc
(3) +10.00 vdc
(4) +25.00 vdc

c. The output voltages obtained from b. (2) and b. (3) normalized by multiplying each value by 2.50 and the output voltages obtained from b. (1) and b. (4) normalized by multiplying each value by 1.00.

d. The 4 normalized outputs of c. averaged.

e. Each normalized output shall not deviate by more than 4 percent from the average obtained in c.

4.3.12 Output Impedance. With the operating voltages applied the input to assembly sections, a, b, c, d, and e, adjusted for an output of 2.500±0.005 vdc for the respective assembly section, and then a 100K ohm ±1 percent resistor substituted for the 1-megohm load resistor, the respective assembly section output shall not drop below 2.380 vdc.

4.3.13 Diode Function. With the output of assembly sections a, b, c, d, and e adjusted for +2.50±0.10 vdc, the output voltage shall remain constant for sections a, b, c, and d when pins 14 and 26 are momentarily connected together. The output voltage of assembly section e shall remain constant when pins 31 and 8 are momentarily connected together. With the output of all the assembly sections adjusted to -2.500±0.010 vdc, repeating the above tests shall cause the respective assembly outputs to decrease below -1.0 vdc.

4.3.14 Output Ripple and Noise. With the output of assembly sections a, b, c, d, and e at 2.50±0.05 vdc, the ripple and noise voltage at the respective output pins shall be <10 mv pp.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

GK:efo

APOLLO G&N Specification
PS6007013 REV — A
Original Issue Date:
Release Authority: TDRR 31710
Class Release
CODE IDENT NO. 99974

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM OPERATIONAL

DRAWING NO. 6007013

Record of Revisions

Ⓜ

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
12/15/66	A	32337	5,12,13,15,21	MGM EA	WLS

This specification consists of page 1 to 21 inclusive.

APPROVALS	NASA/MSC	R M Kowalski 21 Oct 66 MIT/IL	M H Piotrowski 28 Sept. 1966 R. Mona ACSP

TABLE I

ASSEMBLY INPUT AND OUTPUT

ASSY. SECT.	INPUTS						OUTPUTS						
	Input Pins 30J1-		Input Parameter		Input Frequency (cps)		Volts DC		Output Pins 30J1-		Max Ripple (mvpp)	Max Noise (mvpp)	Max Offset 2.500 vdc ± (mv dc)
	Hi	Lo	Min	Max	CPS	LEADS REF	Min	Max	Hi	Lo			
A1	A29	A28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	B1	C2	10	50	35
A2	C29	C28	↕	↕	↕	↕	↕	↕	C1	↕	10	↕	↕
A3	F29	F28	↕	↕	↕	↕	↕	↕	F1	↕	10	↕	↕
A4	B29	B28	↕	↕	↕	↕	↕	↕	B2	↕	10	↕	↕
A5	D29	D28	↕	↕	↕	↕	↕	↕	D1	↕	10	↕	↕
A6	G29	G28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	D2	C2	10	50	35
B1	G25	F25	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	A4	C2	10	75	75
B2	G26	F26	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	A5	↕	10	75	75
B3	G27	F27	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	C4	↕	10	75	75
B4					-	-	3.900	4.700	D5	↕	30	100	-
B5	G37	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	B5	↕	30	100	75
B6	G38	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	C6	↕	30	100	75
B7	G39	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	A6	C2	30	100	75
C1	D37	F37	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	B3	C2	10	50	35
C2	D39	F39	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	C3	↕	50	100	35
C3	D38	F38	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	A3	↕	50	100	35
C4							4.200	4.800	G7	C2	10	100	-
C5	F17	D18	27.720 vdc	28.280 vdc	-	-	3.990	4.800	B10	All	30	50	-
C6							3.900	4.800	A10	All	30	50	-
C7	C19	F14 C20*	1591.5Ω	1597.5Ω			4.995	5.005	G8	C2	50	100	-
C8							2.450	2.550	G5	C2	10	100	-
D1	C26	C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	F4	C2	10	80	35
D2	D26	D25	↕	↕	↕	↕	↕	↕	G4	↕	10	80	35
D3	A26	A25	↕	↕	↕	↕	↕	↕	F2	↕	10	80	35
D4	B26	B25	19.13 vac	23.87 vac	800	5° ±2°	↕	↕	G3	↕	10	80	35
D5	A17	A18	129.00 vdc	141.00 vdc			4.995	5.005	G6	C2	[illegible]	80	300

* Separate lines from 30J1-F14 and 30J1-C20 shall be connected to the same side of the input resistor.

TABLE V

CONTINUITY

From Pin No. 30J	To
1-F14	Structure Ground
2-50	
1-F8	
1-C2	
2-46	
2-48	Structure Ground

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein, except for assembly Section C5 which shall be set to input conditions. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

c. The pins specified in Table VI shall be continuously monitored during vibration for discontinuity and current isolation. The monitoring circuitry shall have a response time equal to or less than 10 usec in detecting any discontinuity and/or short circuit.

TABLE VI

CONTINUITY

From Pin No. 30J	To Pin No. 30J
1-B34	2-7
1-C34	2-20
1-D17	2-43
1-D34	2-38
1-D19	2-25
1-G31	2-51
1-G33	2-62
1-A32	2-35
1-B32	2-17
1-B31	2-31
1-F33	2-37
1-D20	2-24
1-F18	2-59
1-F34	2-61
1-A34	2-21
1-B17	2-85

TABLE VI (Continued)

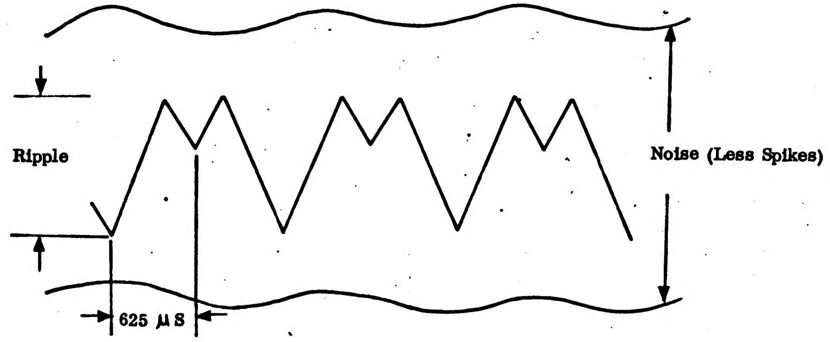
CONTINUITY

From Pin No. 30J	To Pin No. 30J
1-G17	2-83
1-B19	2-74
1-G18	2-84
1-F32	2-82
1-G34	2-63
1-G32	2-57
1-C15	2-6
1-D15	2-36
1-C16	2-18
1-F15	2-47
1-D16	2-27
1-A33	2-8
1-F16	2-26
1-B36	2-52
1-A37	2-76
1-B37	2-53
1-A36	2-77
1-D35	2-70
1-F35	2-71
1-D36	2-72
1-F36	2-73
1-D33	2-39
1-B33	2-2
1-C33	2-19
1-D31	2-30
1-B15	2-69
1-B20	2-75
1-C32	2-58
1-D32	2-34
1-B17	2-85

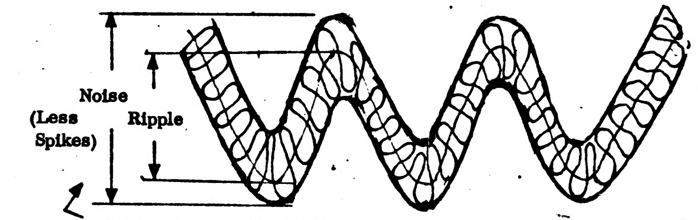
4.3.3 **Temperature Test.** The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein, except for assembly Sections G5 which shall be set to input conditions. The input and output voltage shall then be measured and recorded.

b. The assembly shall then be soaked at 49° ±3°C for 4 hours. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.


Ripple
Noise (Less Spikes)
625 µS

FOR ASSEMBLY SECTIONS A D1 THRU D4


Noise
(Less
Spikes)
Ripple

FOR ASSEMBLY SECTIONS B5B6B7, C

FOR ASSEMBLY SECTION B1 THRU B4

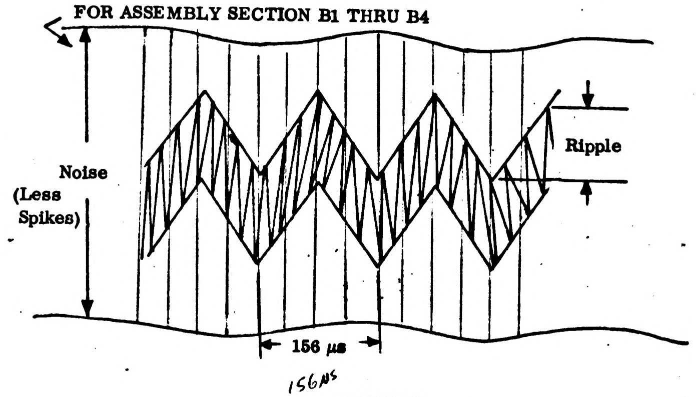

Noise
(Less
Spikes)
Ripple
156 µs
156ns

FIGURE 3

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Paragraph 4.3.1 and [illegible]. Specification ND1002214.

6. N[illegible]. None.

6. NOTES. None.

ETP:jls

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED
	B	INITIAL RELEASE CLASS A PER TDRR 29354	13 APRIL 66	
—	—	REPLACED BY CONFIGURATION DWG REV C PER TDRR 29355		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. THIS IS AN INCOMPLETE DRAWING.

QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		021	011				
			1			2007230-011	GIMBAL RESOLVER
			1			2007231-011	PIPA & IRIG
			1			2007233-011	DAC, PIPA TEMP. & 2.5 V BIAS
			1			6007012-011	RADAR RESOLVERS & 120V PIPA SUPPLY
			1			1004260-514	NAMEPLATE
			1			6007014-011	HEADER ASSY

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
-011		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN DATE 30 MAR 66
CHECKED 31 MAR 66
APPROVAL 31 MAR 66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSEMBLY—
LEM OPERATIONAL

SIZE C
CODE IDENT NO. 80230
6007013
SCALE NONE
SHEET 1 of 1

MASTER

APOLLO G&N Specification
PS6007013 REV – B
Original Issue Date:
Release Authority: TDRR 31710
Class Release
CODE IDENT NO. 99974

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM OPERATIONAL

DRAWING NO. 6007013

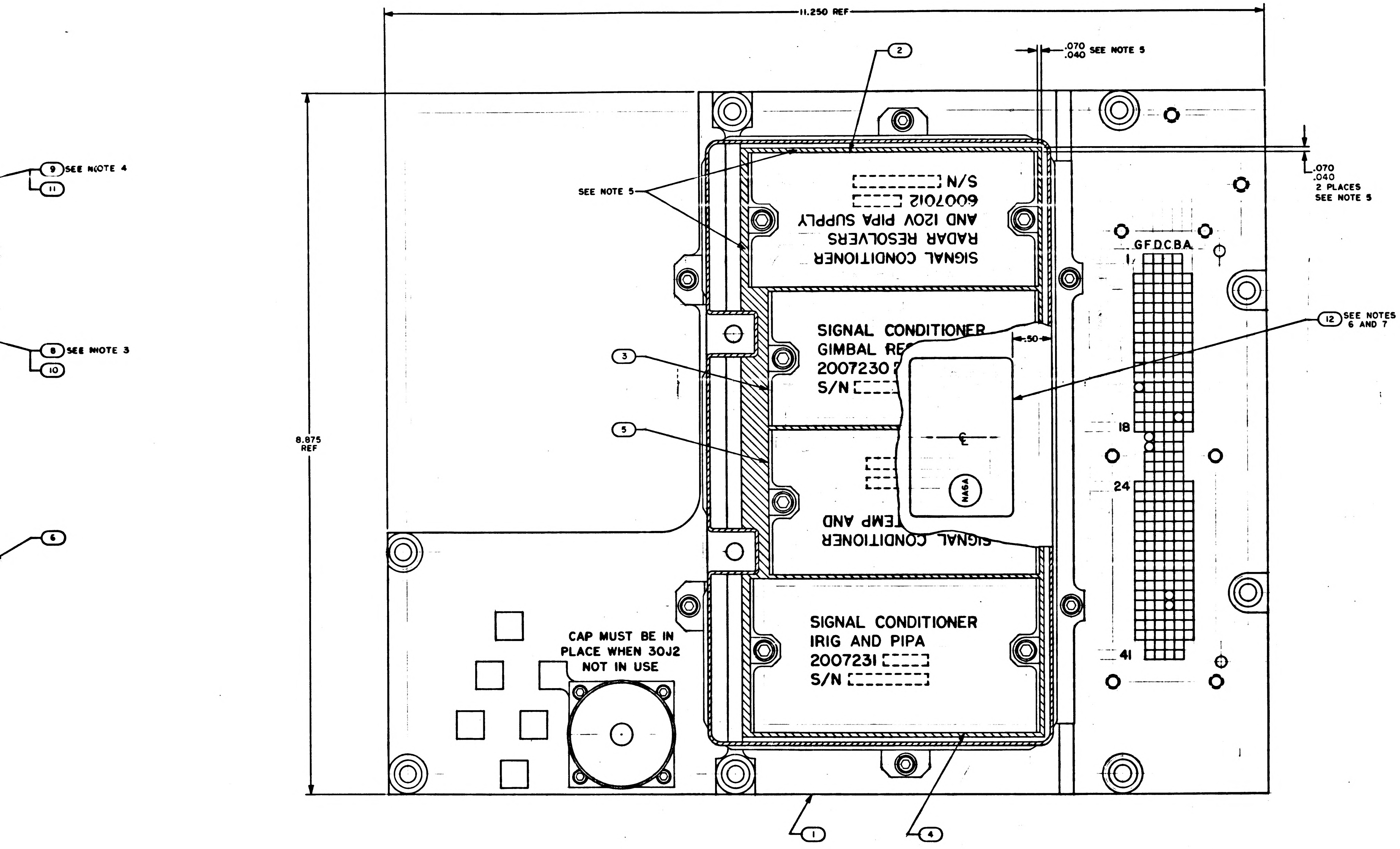
Record of Revisions

	Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
Ⓜ					AC	NASA
Ⓜ	12/15/66	A	32337	5,12,13,15,21 RDL/AC	MGM EA	WLS
	2/3/67	B	32913	5, 9,12,13,14,16-21, was 21	MGM EA	--
				pages; now 22 pages. RDL/AC		

This specification consists of page 1 to 22 inclusive.

APPROVALS	NASA/MSC	RWKowalski 21Oct66 MIT/IL	MPiotrowski 28 Sept. 1966 R. Mena ACSP

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
C		REPLACES WORD DWG REV B PER TDRR 29355					


11.250 REF
.070
.040 SEE NOTE 5
2
SEE NOTE 5
.070
.040
2 PLACES
SEE NOTE 5
S/N
6007012
AND 120V PIPA SUPPLY
RADAR RESOLVERS
SIGNAL CONDITIONER
9 SEE NOTE 4
11
8 SEE NOTE 3
10
6
GFDCBA
1
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
.50
12 SEE NOTES 6 AND 7
3
5
8.875 REF
NASA
18
24
TEMP AND
SIGNAL CONDITIONER
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
41
1
4

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1004260-514	NAMEPLATE	12
8	2008033-1	WASHER, THRUST	11
6	2004148-003	WASHER, FLAT	10
8	1010977-001	SCREW, CAP, HEX SOCKET HEAD	9
6	1008874-017	SCREW, CAP, SOCKET HEAD	8
1	1008808-016	CAP, PROTECTIVE	7
1	6008058	COVER	6
1	2007233-011	DAC PIPA TEMP & 2.5 V BIAS SIG COND	5
1	2007231-011	IRIG AND PIPA SIGNAL CONDITIONER	4
1	2007230-011	GIMBAL RESOLVER SIGNAL COND	3
1	6007012-011	RADAR RSVR & 120 V PIPA SUP. SIG COND	2
1	6007014-011	HEADER ASSY	1
-011	LIST OF MATERIALS		

6015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
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CAMBRIDGE, MASS

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HOUSTON, TEXAS

DRAWN Ken Healy 11 May 66
CHECKED 5 May
APPROVED U.A. Kaz
APPROVED 3 June 66
APPROVED MIT 6-3-66
APPROVED MSC
DATE

SIGNAL CONDITIONER ASSY
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007013

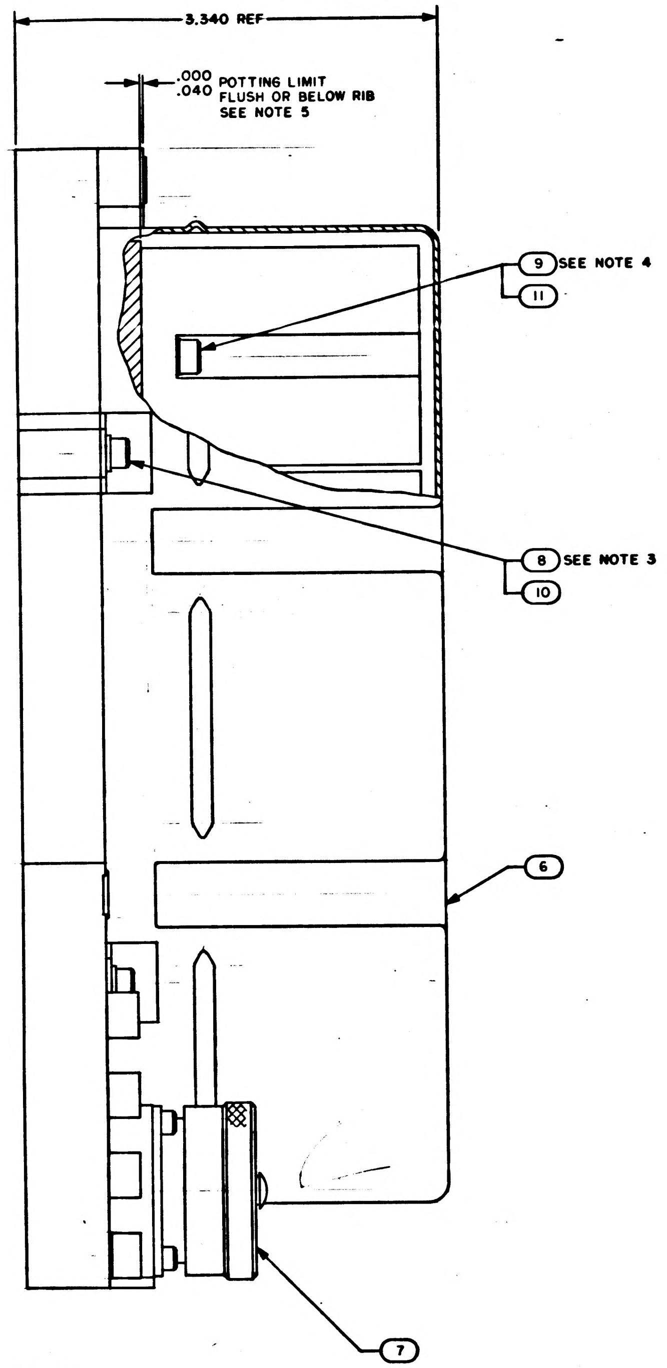
SCALE 2/1 SHEET 1 OF 1

MASTER

6007013 C

6007013

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.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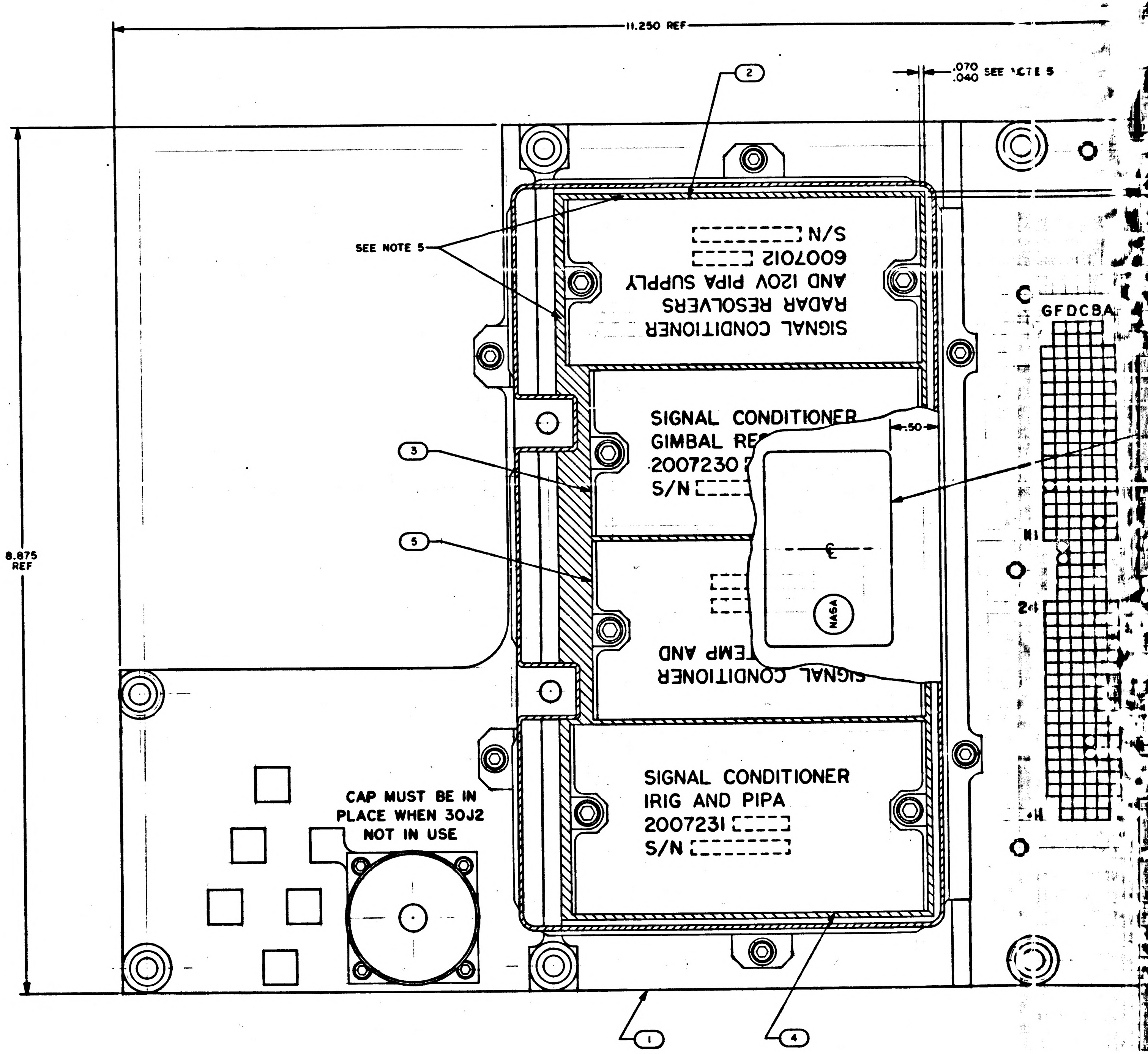
.040
POTTING LIMIT
FLUSH OR BELOW RIB
SEE NOTE 5
9 SEE NOTE 4
11
8 SEE NOTE 3
10
6
7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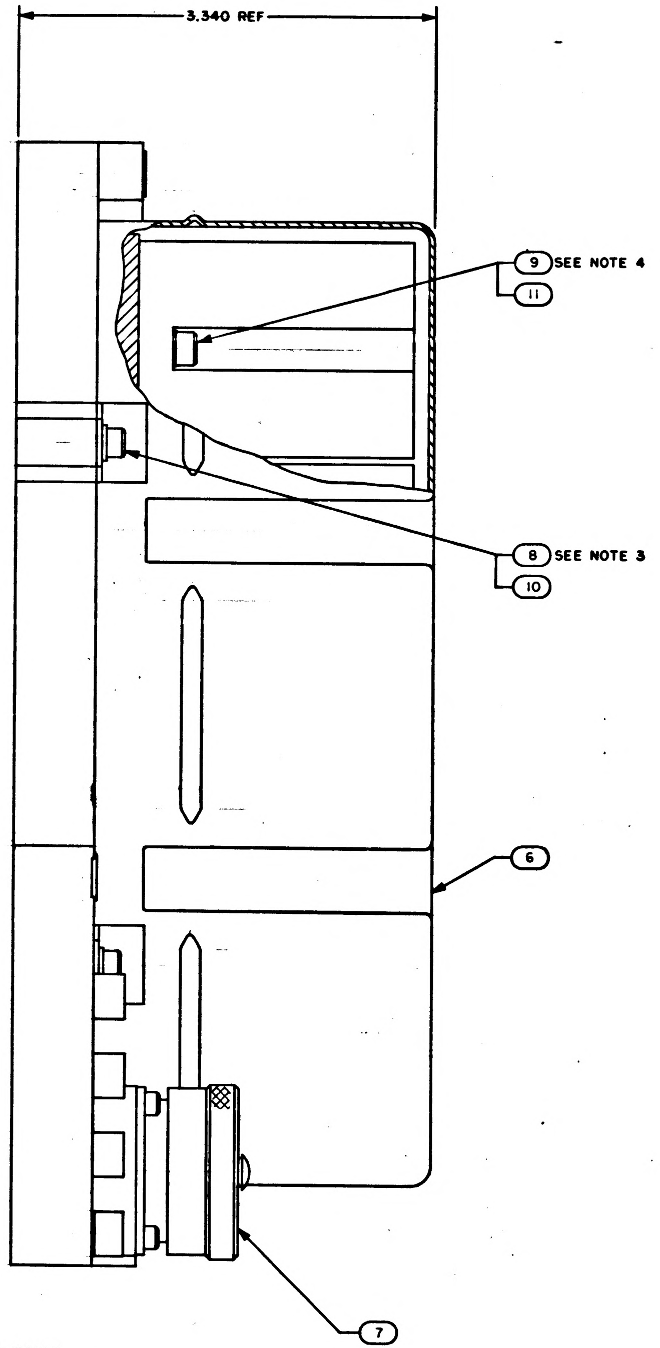
.070
.040 SEE NOTE 5
SEE NOTE 5
S/N
6007012
AND 120V PIPA SUPPLY
RADAR RESOLVERS
SIGNAL CONDITIONER
GFDCBA
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
.50
3
5
8.875 REF
NASA
EMP AND
SIGNAL CONDITIONER
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
1
4

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATING SURFACES OF FIND NO. 1 THRU 5 TO BE FREE OF GREASE OR FOREIGN MATERIAL
3. MOUNTING TORQUE FOR FIND NO. 8 TO BE 17 TO 19 INCH POUNDS
4. MOUNTING TORQUE FOR FIND NO. 9 TO BE 18 TO 22 INCH POUNDS
5. APPLY SEALANT 1006338-002 TO INDICATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING
6. BOND FIND NO. 12 TO FIND NO. 6 PER ND1002219
7. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
8. PROCURE PER P. S. 6007013

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



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SEE NOTE 4
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SEE NOTE 3
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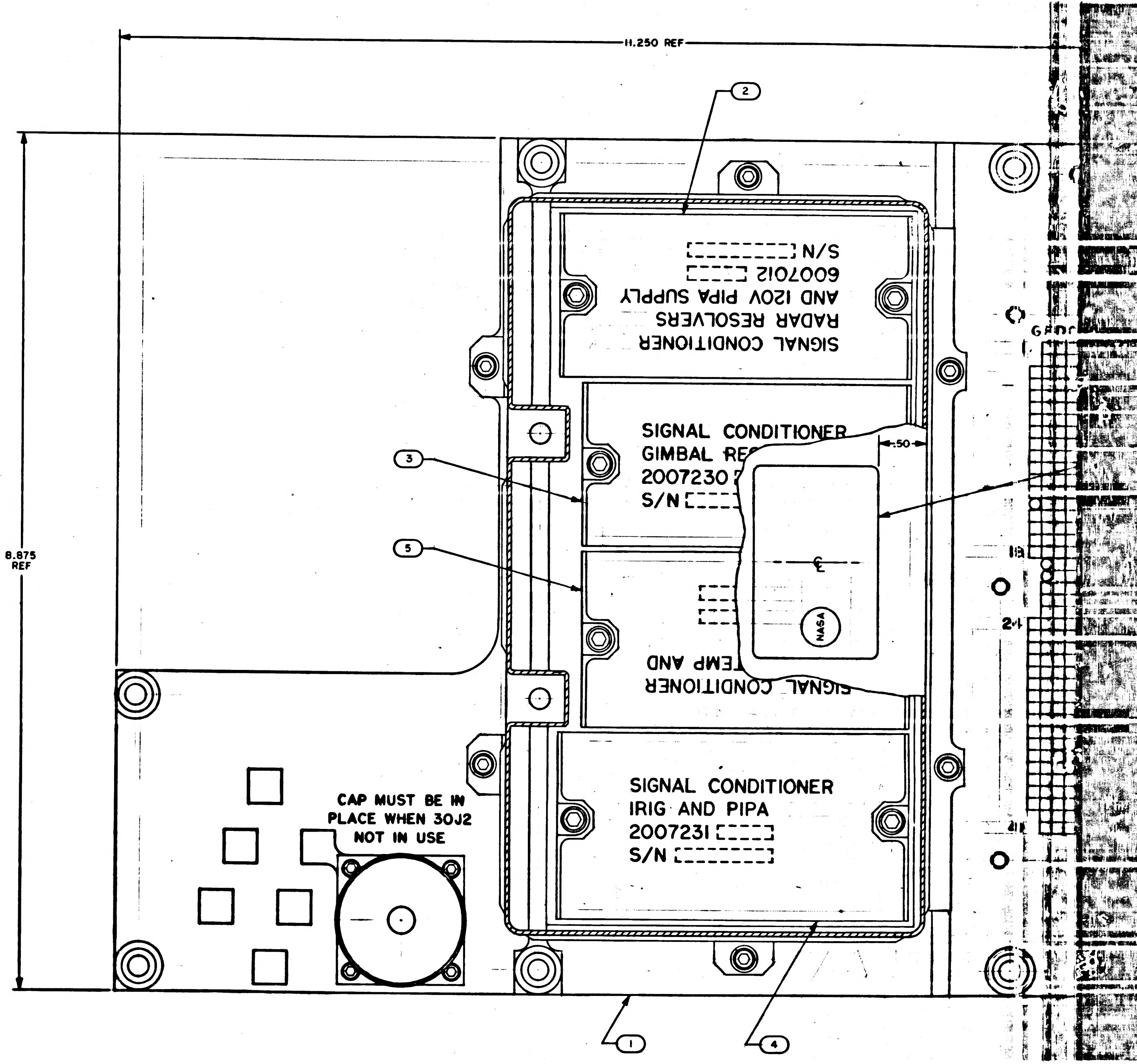

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8.875 REF
2
SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
2007230
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5
SIGNAL CONDITIONER
TEMP AND
NASA
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
1
4

24

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATING SURFACES OF FIND NO. 1 THRU 5 TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.
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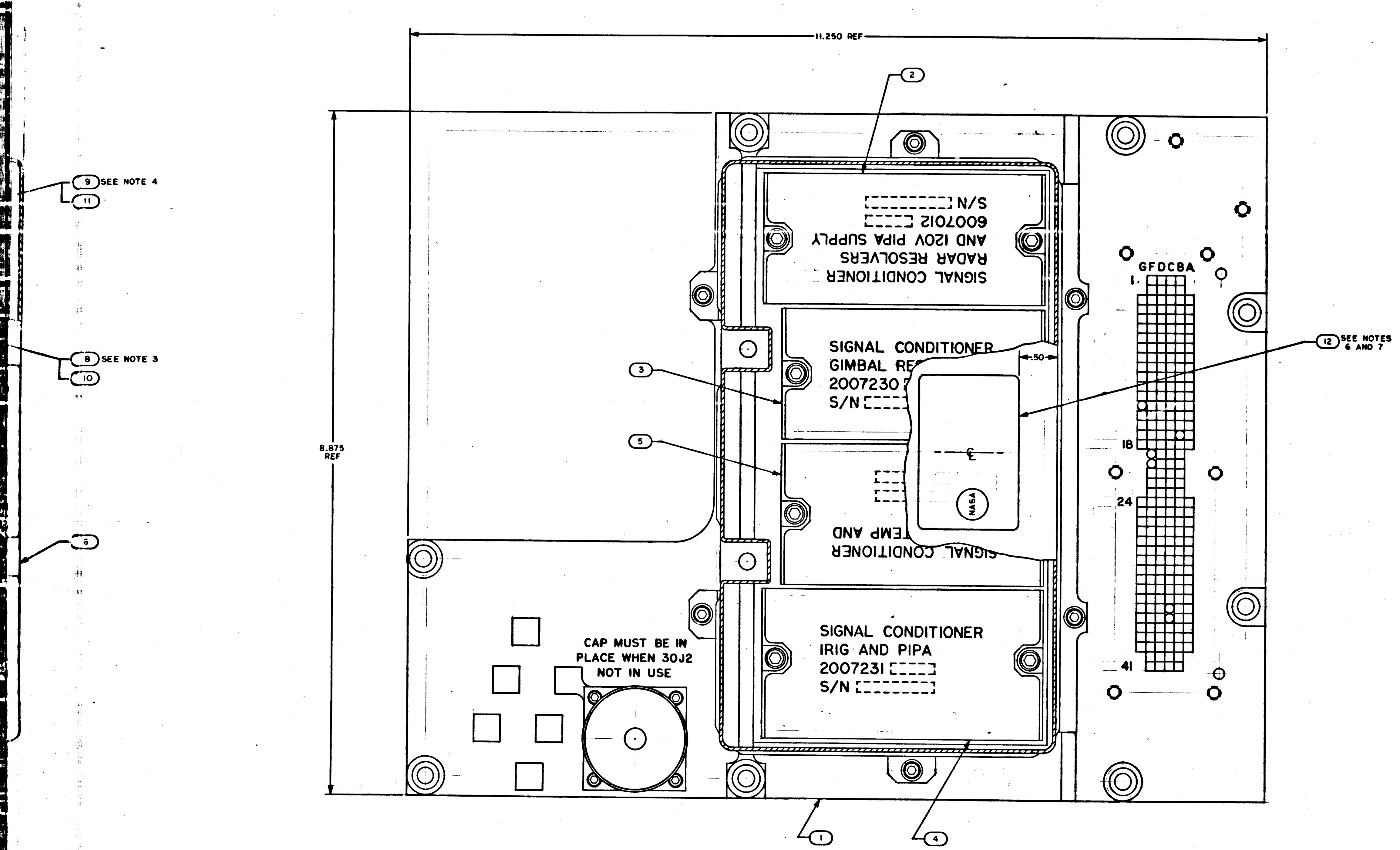
4. MOUNTING TORQUE FOR FIND NO. 9 TO BE 18 TO 22 INCH POUNDS
5. ~~APPLY SEALANT 1006336-002 TO INDICATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING.~~
6. BOND FIND NO. 12 TO FIND NO. 6 PER ND 1002219
7. IDENTIFY WITH PART NO. PER ND 1002019 AND SERIALIZE PER ND 1002023
8. PROCURE PER P. S. 6007013
9. APPLY A THIN COAT OF SILICONE GREASE, 1006879, TO THE MOUNTING SURFACES OF FIND NOS. 2, 3, 4, AND 5. EXCESS GREASE SHALL NOT BE EXPOSED, CLEANING PERMITTED.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 29355				
D		REVISED PER TDRR 32424	AF	WH	10 JAN 67	



11.250 REF
8.875 REF
2
SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
SIGNAL CONDITIONER
TEMP AND
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
.50
NASA
12 SEE NOTES 6 AND 7
GFDCBA
1
18
24
41
3
5
9 SEE NOTE 4
11
8 SEE NOTE 3
10
6
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
1
4

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1004260 - 514	NAMEPLATE	12
8	2008033 - 1	WASHER, THRUST	11
6	2004148 - 003	WASHER, FLAT	10
8	1010977 - 001	SCREW, CAP, HEX SOCKET HEAD	9
6	1008874 - 017	SCREW, CAP, SOCKET HEAD	8
1	2008389 - 016	CAP, PROTECTIVE	7
1	6008058	COVER	6
1	2007233 - 011	DAC PIPA TEMP & 2.5 V BIAS SIG COND	5
1	2007231 - 011	IRIG AND PIPA SIGNAL CONDITIONER	4
1	2007230 - 011	GIMBAL RESOLVER SIGNAL COND	3
1	6007012 - 011	RADAR RSVR & 120 V PIPA SUP. SIG COND	2
1	6007014 - 011	HEADER ASSY	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 11 MAY 66
CHECKED [illegible] 25 May 66
APPROVED V.A. Kapriano 26 MAY 66
APPROVED [illegible] 3 June 66
APPROVED MIT [illegible] 6-3-66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007013
SCALE 2/1
SHEET 1 OF 1

6007013 D

6007013 D

2/6007013

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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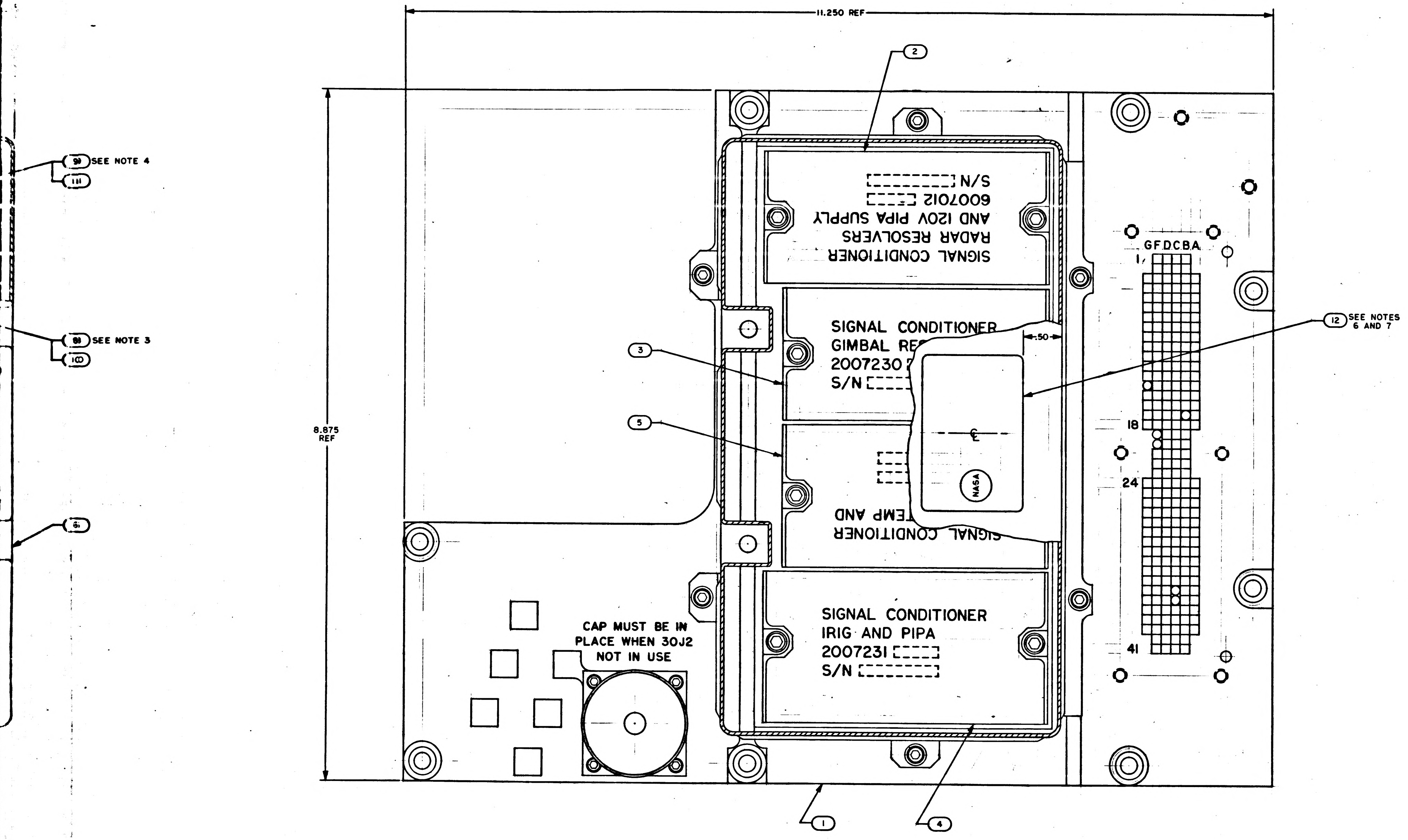
D		REVISED PER TDRR 32424	AF	WH	10 JAN 67	



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3
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1
4
12 SEE NOTES 6 AND 7
9 SEE NOTE 4
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8 SEE NOTE 3
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SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
SIGNAL CONDITIONER
TEMP AND
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
.50
NASA
GFDCBA
1
18
24
41
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1004260 - 514	NAMEPLATE	12
8	2008033 - 1	WASHER, THRUST	11
6	2004148 - 003	WASHER, FLAT	10
8	1010977 - 001	SCREW, CAP, HEX SOCKET HEAD	9
6	1008874 - 017	SCREW, CAP, SOCKET HEAD	8
1	2008389 - 016	CAP, PROTECTIVE	7
1	6008058	COVER	6
1	2007233 - 011	DAC PIPA TEMP & 2.5 V BIAS SIG COND	5
1	2007231 - 011	IRIG AND PIPA SIGNAL CONDITIONER	4
1	2007230 - 011	GIMBAL RESOLVER SIGNAL COND	3
1	6007012 - 011	RADAR RSVR & 120 V PIPA SUP. SIG COND	2
1	6007014 - 011	HEADER ASSY	1
-011	LIST OF MATERIALS		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY	USED ON
6015000	
APPLICATION	

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Ken Healy	11 May 66
CHECKED		May
APPROVED	U.A. Kagroim	26 May 66
APPROVED		3 June 66
APPROVED MIT		6-3-66
APPROVED MSC		DATE

SIGNAL CONDITIONER ASSY
LEM OPERATIONAL

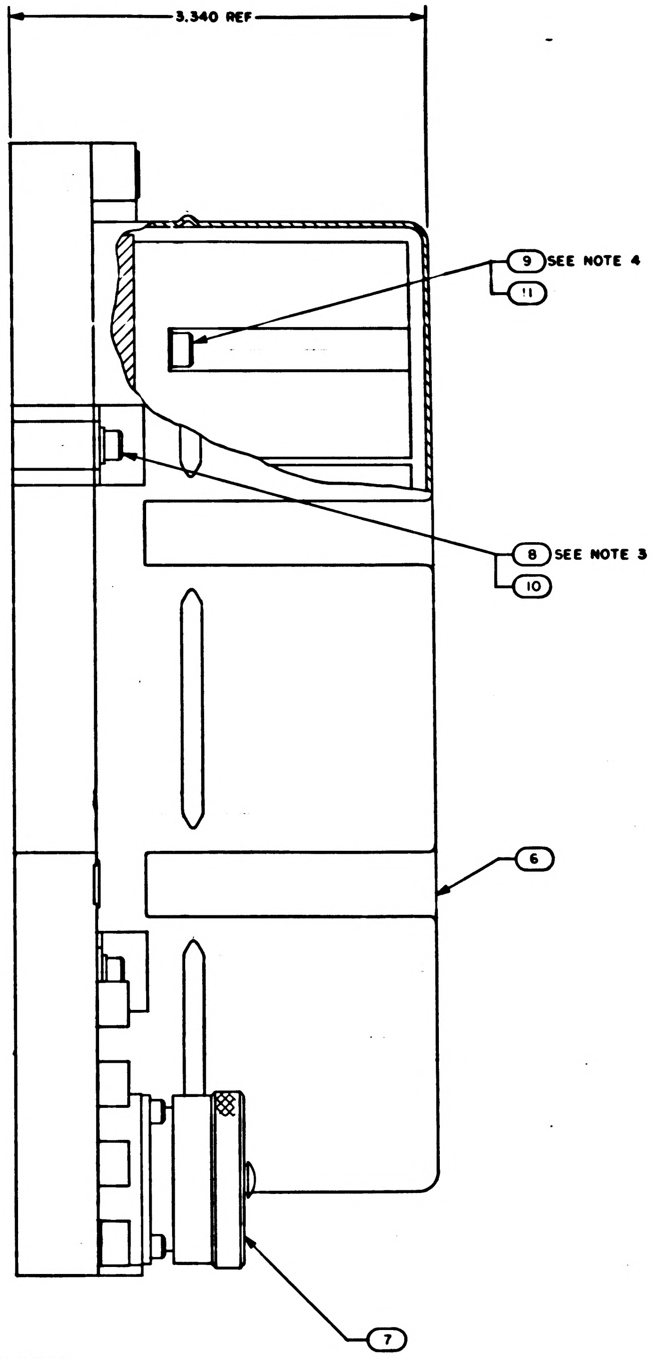
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007013

SCALE 2/1 SHEET 1 OF 1

6007013 D

6007013 D

2/6007013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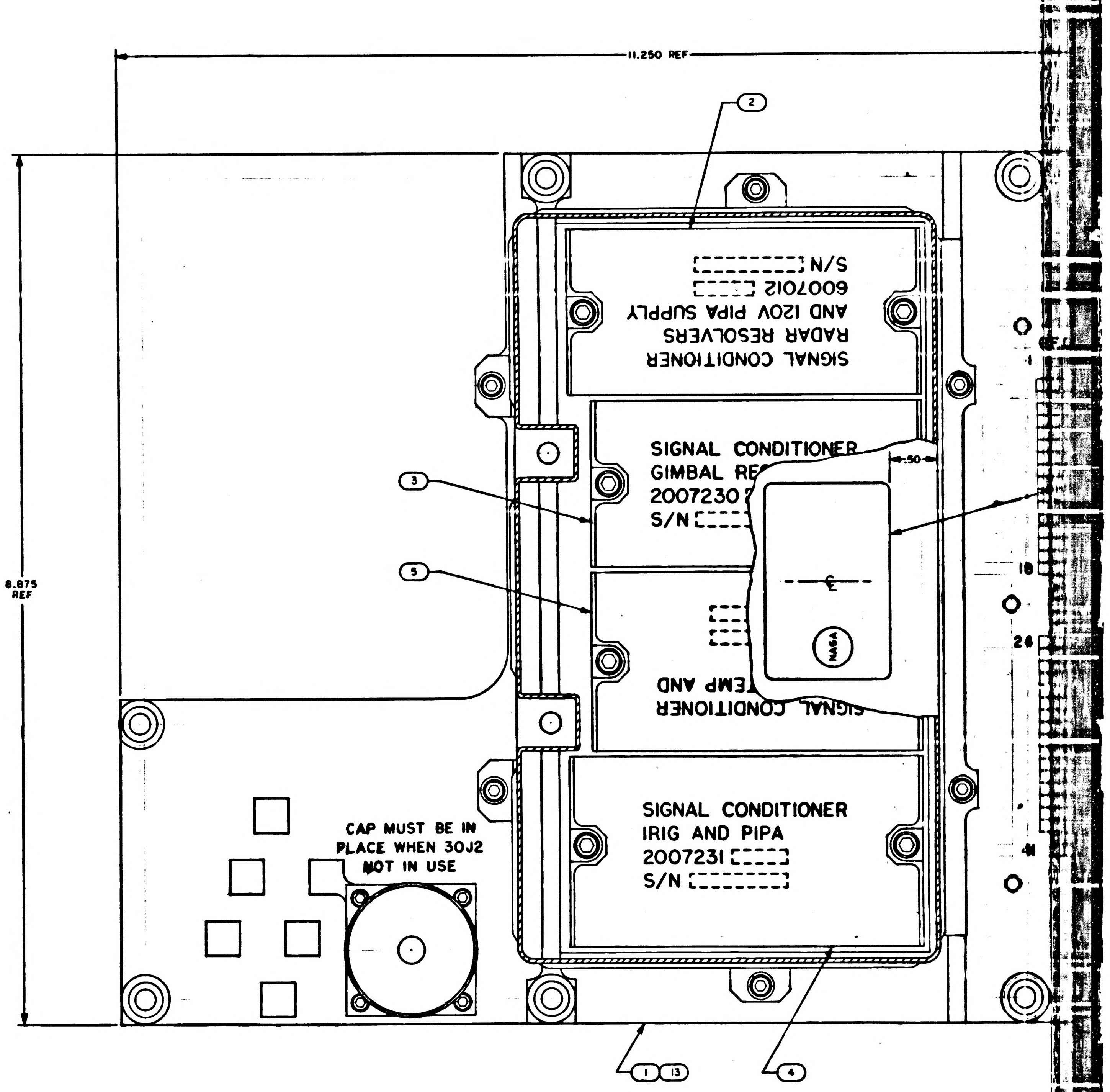
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8.875 REF
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SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
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SIGNAL CONDITIONER
TEMP AND
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
18
24
41
1
13
4

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATING SURFACES OF FIND NO. 1 THRU 5 AND 13 TO BE FREE OF GREASE OR FOREIGN MATERIAL PRIOR TO APPLYING SILICONE GREASE.
3. MOUNTING TORQUE FOR FIND NO. 8 TO BE 17 TO 19 INCH POUNDS
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6. BOND FIND NO. 12 TO FIND NO. 6 PER ND1002219
7. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND1002023
8. PROCURE PER P. S. 6007013
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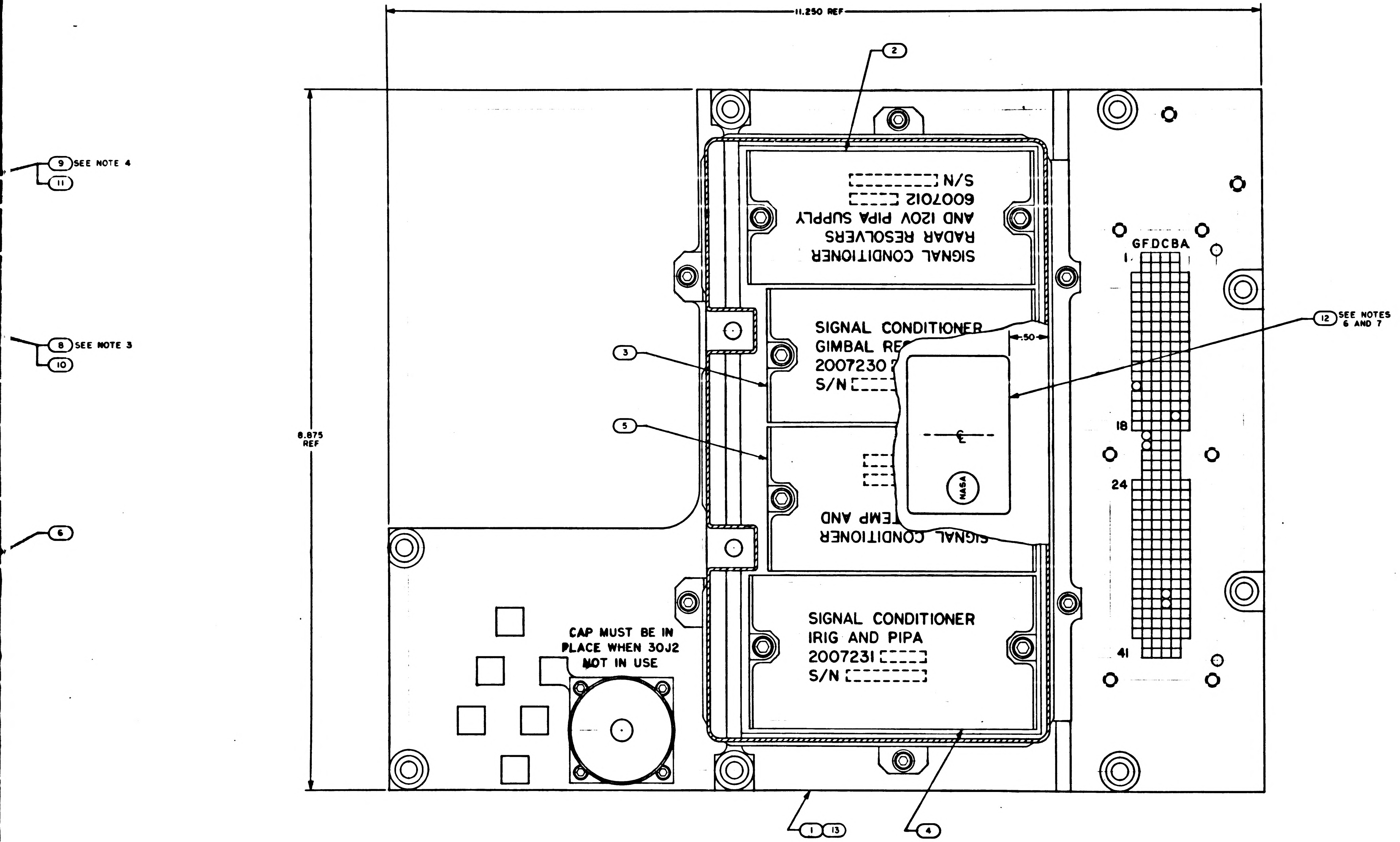
24

6007013	E

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 29355				
D		REVISED PER TDRR 32424	AF	WM	10 JAN 67	
E		REVISED PER TDRR 34548			19 SEP 67	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8.875 REF
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11
8 SEE NOTE 3
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3
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12 SEE NOTES 6 AND 7
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S/N
6007012
AND 120V PIPA SUPPLY
RADAR RESOLVERS
SIGNAL CONDITIONER
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
TEMP AND
SIGNAL CONDITIONER
NASA
GFDCBA
1
18
24
41
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
1
13
4

2H

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	—	6007014-021	HEADER ASSEMBLY	13
1	1	1004260-514	NAMEPLATE	12
8	8	2008033-1	WASHER, THRUST	11
6	6	2004148-003	WASHER, FLAT	10
8	8	1010977-001	SCREW, CAP, HEX SOCKET HEAD	9
6	6	1008874-017	SCREW, CAP, SOCKET HEAD	8
1	1	2006389-016	CAP, PROTECTIVE	7
1	1	6008058	COVER	6
1	1	2007233-011	DAC PIPA TEMP & 2.5 V BIAS SIG COND	5
1	1	2007231-011	IRIG AND PIPA SIGNAL CONDITIONER	4
1	1	2007230-011	GIMBAL RESOLVER SIGNAL COND	3
1	1	6007012-011	RADAR RSVR & 120 V PIPA SUP. SIG COND	2
—	1	6007014-011	HEADER ASSY	1
-021	-011	LIST OF MATERIALS		

6015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ken Healy
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

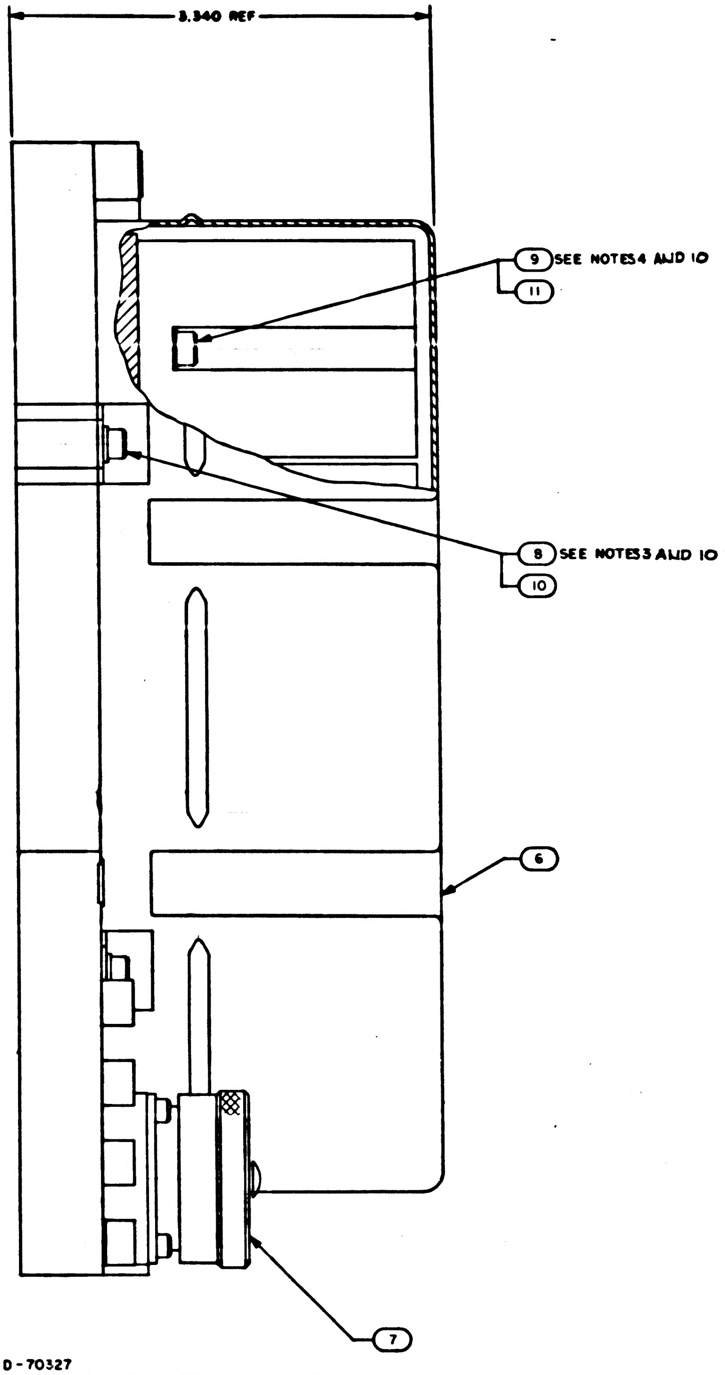
SIGNAL CONDITIONER ASSY
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO 6007013
SCALE 2/1
SHEET 1 OF 1

6007013 E

6007013 E

276007013


3.340 REF
9 SEE NOTES 4 AND 10
11
8 SEE NOTES 3 AND 10
10
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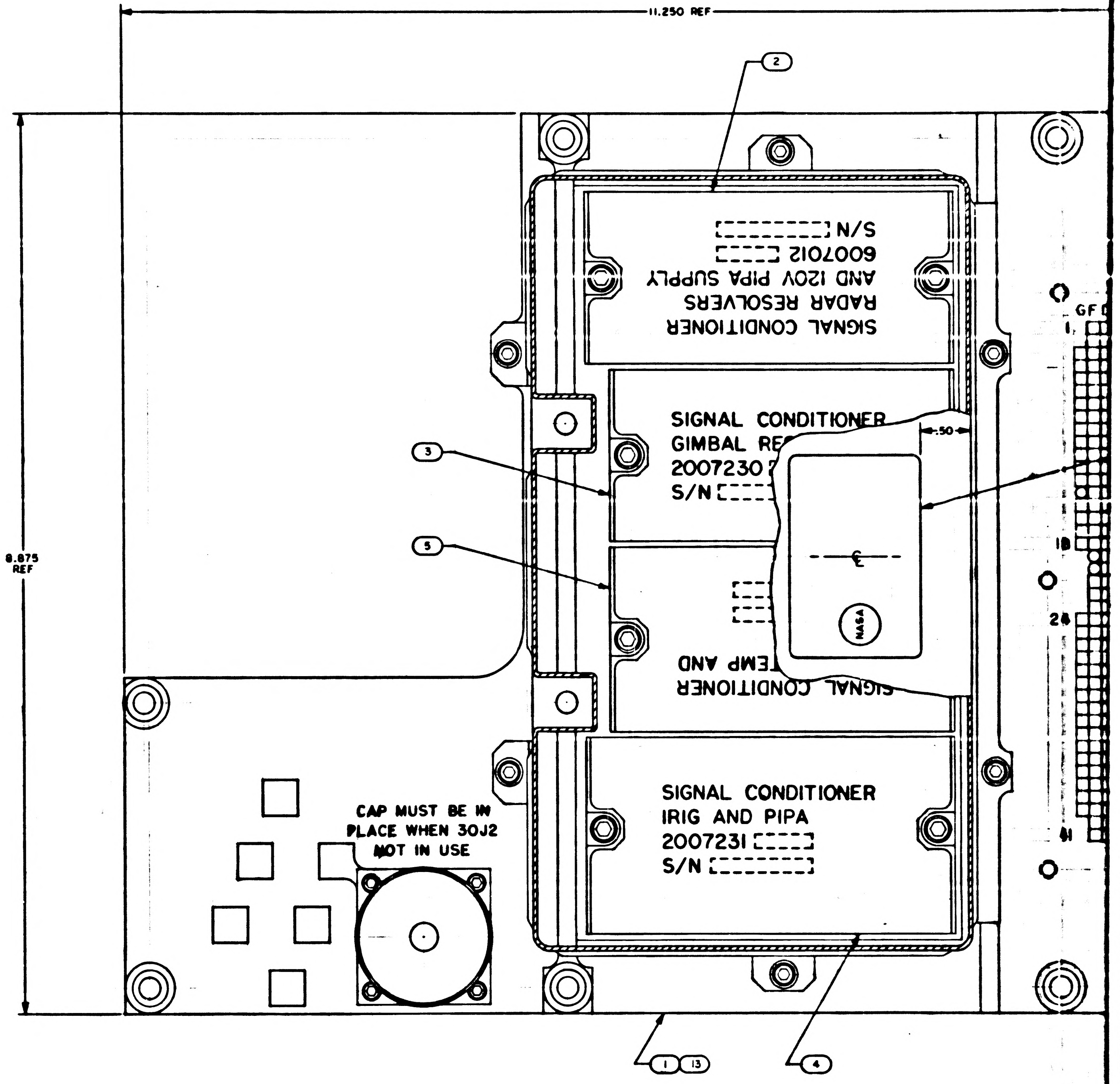
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8.875 REF
2
SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
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℄
NASA
SIGNAL CONDITIONER
TEMP AND
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
3
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13
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31

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
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4. MOUNTING TORQUE FOR FIND NO. 9 TO BE 18 TO 22 INCH POUNDS
5. ~~APPLY SEALANT 1006330-002 TO INDICATED AREAS BETWEEN AND AROUND MODULES. ALLOW TO CURE AT ROOM TEMPERATURE FOR A MINIMUM OF 48 HOURS. SEALANT SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISOPROPYL ALCOHOL PRIOR TO SEALING.~~
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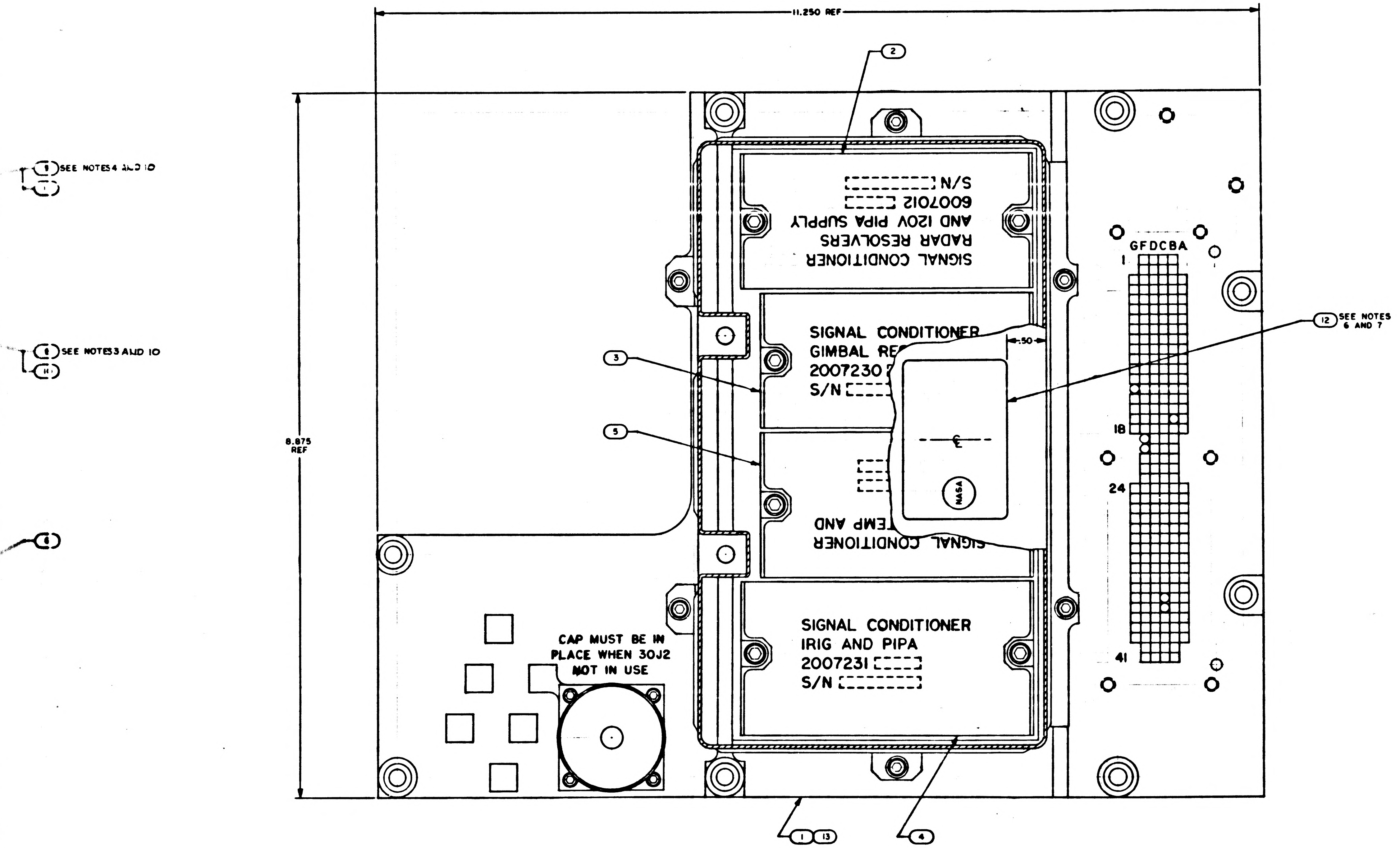
9. APPLY A THIN COAT OF SILICONE GREASE, 1006879, TO THE MOUNTING SURFACES OF FIND NOS. 2, 3, 4, AND 5. EXCESS GREASE SHALL NOT BE EXPOSED, CLEANING PERMITTED.
10. APPLY A UNIFORM THIN FILM OF FIND NO. 14 TO SCREW THREADS.

6007013	F

1/6007013

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES WORD DWG REV B PER TDRR 29355				
D		REVISED PER TDRR 32424	AF	WM	10 JAN 67	
E		REVISED PER TDRR 34548			15 SEP 67	
F		REVISED PER TDRR 36~~6~~ 8	WE		5 SEP	



9 SEE NOTES 4 AND 10
8 SEE NOTES 3 AND 10
11
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11.250 REF
8.875 REF
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3
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12 SEE NOTES 6 AND 7
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1 13
4
SIGNAL CONDITIONER
RADAR RESOLVERS
AND 120V PIPA SUPPLY
6007012
S/N
SIGNAL CONDITIONER
GIMBAL RE
2007230
S/N
SIGNAL CONDITIONER
TEMP AND
SIGNAL CONDITIONER
IRIG AND PIPA
2007231
S/N
NASA
GFDCBA
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41
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE

-021	-011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	10C3985	GREASE, FLUORINATED	14
1	—	6007014-021	HEADER ASSEMBLY	1
1	1	1004260 - 514	NAMEPLATE	12
8	8	2008033 - 1	WASHER, THRUST	11
6	6	2004148 - 003	WASHER, FLAT	10
8	8	1010977 - 001	SCREW, CAP, HEX SOCKET HEAD	9
6	6	1008874 - 017	SCREW, CAP, SOCKET HEAD	8
1	1	2008389 - 016	CAP, PROTECTIVE	7
1	1	6008058	COVER	6
1	1	2007233 - 011	DAC PIPA TEMP & 2.5 V BIAS SIG COND	5
1	1	2007231 - 011	IRIG AND PIPA SIGNAL CONDITIONER	4
1	1	2007230 - 011	GIMBAL RESOLVER SIGNAL COND	3
1	1	6007012 - 011	RADAR RSVR & 120 V PIPA SUP. SIG COND	2
—	1	6007014 - 011	HEADER ASSY	1

LIST OF MATERIALS

6015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIGNAL CONDITIONER ASSY
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO
80230	J	6007013

SCALE 2/1 SHEET 1 OF 1

6007013 F

2H

2/6007013

APOLLO G&N Specification
PS6007013 REV —
Original Issue Date:
Release Authority: TDRR 31710
Class Release
CODE IDENT NO. 99974

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

SIGNAL CONDITIONER ASSEMBLY

LEM OPERATIONAL

DRAWING NO. 6007013

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 21 inclusive.

APPROVALS	NASA/MSC	RWKowalski 21Oct66 MIT/IL	28 Sept. 1966 ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Signal Conditioner Assembly, LEM Operational, Part Number 6007013-031, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007013	Signal Conditioner Assembly, LEM Operational
[illegible]	[illegible]

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

TABLE I

ASSEMBLY INPUT AND OUTPUT

ASSY. SECT.	INPUTS						OUTPUTS						
	Input Pins 30J1-		Input Parameter		Input Frequency (cps)		Volts DC		Output Pins 30J1-		Max Ripple (mv pp)	Max Noise (mv pp)	Max Offset 2.500 vdc ± (mv dc)
	Hi	Lo	Min	Max	CPS	LEADS REF	Min	Max	Hi	Lo			
A1	A29	A28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	B1	C2	10	20	35
A2	C29	C28	↕	↕	↕	↕	↕	↕	C1	↕	10	↕	↕
A3	F29	F28	↕	↕	↕	↕	↕	↕	F1	↕	10	↕	↕
A4	B29	B28	↕	↕	↕	↕	↕	↕	B2	↕	10	↕	↕
A5	D29	D28	↕	↕	↕	↕	↕	↕	D1	↕	10	↕	↕
A6	G29	G28	18.020 vac	22.480 vac	800	5° ±2°	4.995	5.005	D2	C2	10	20	35
B1	G25	F25	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	A4	C2	10	20	75
B2	G26	F26	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	A5	↕	10	20	75
B3	G27	F27	2.500 vac	3.000 vac	3200	-45° ±2°	4.995	5.005	C4	↕	10	20	75
B4					-	-	4.200	4.800	D5	↕	25	40	-
B5	G37	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	B5	↕	25	40	75
B6	G38	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	C6	↕	25	40	75
B7	G39	G36	2.637 vac	3.363 vac	3200	0° ±2°	4.995	5.005	A6	C2	25	40	75
C1	D37	F37	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	B3	C2	10	20	35
C2	D39	F39	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	C3	↕	50	100	35
C3	D38	F38	5.600 vac	6.600 vac	800	0° ±2°	4.995	5.005	A3	↕	50	100	35
C4							4.200	4.800	G7	C2	10	100	-
C5	F17	D18	27.720 vdc	28.280 vdc	-	-	4.000	4.600	B10	All	30	50	-
C6							4.000	4.600	A10	All	30	50	-
C7	C19	F14 C20*	1591.5Ω	1597.5Ω			4.995	5.005	G8	C2	50	100	-
C8							2.450	2.550	G5	C2	10	100	-
D1	C26	C25	19.13 vac	23.87 vac	800	5° ±2°	4.995	5.005	F4	C2	10	20	35
D2	D26	D25	↕	↕	↕	↕	↕	↕	G4	↕	10	20	35
D3	A26	A25	↕	↕	↕	↕	↕	↕	F2	↕	10	20	35
D4	B26	B25	19.13 vac	23.87 vac	800	5° ±2°	↕	↕	G3	↕	10	20	35
D5	A17	A18	129.00 vdc	141.00 vdc			4.995	5.005	G6	C2	10	20	300

* Separate lines from 30J1-F14 and 30J1-C20 shall be connected to the same side of the input resistor.

4.2.1.3 **Test Setup.** Unless otherwise specified, the operating voltages of Table IV shall be applied to the assembly. Each pair of output pins for each assembly section, except Assembly Section C7, shall have a 1 megohm ±1 percent resistor connected between them. Assembly Section C7 shall have a 500k ohm ±5 percent resistor connected between its output pins. Source impedance shall be as shown in Figure 1.

TABLE IV

OPERATING VOLTAGES

CONNECTOR 30J PINS		VOLTAGE	FREQUENCY (cps)
Hi	Lo		
1-C18	1-D18	28.00±0.28 vdc	—
1-G15	1-G16	28.00±0.28V rms	800.0±0.8
1-A15	1-A16	28.00±0.28V rms	3200.0±3.2
1-C17	1-D18	28.00±0.28 vdc	—
[illegible]	[illegible]	28.[illegible] vdc	—
1-A17	1-A18	110.00±0.10 vdc	—

4.2.2 **Nonconforming Units.** Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 **Drawing Compliance.** The assembly shall be visually examined for compliance to the requirements of Drawing 6007013. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, contaminants, pin misalignment, and legibility and appearance of marking.

4.3.2 **Workmanship-Vibration.** The assembly shall be mounted to the vibration fixture in a manner similar to the way it will be mounted in service. The assembly shall be vibrated along the horizontal, vertical and lateral axis (see Figure 2) with simple harmonic motion swept from 10 to 2000 cps at a rate of 1 octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.4 inch pp constant displacement from 10 cps to the crossover frequency.

a. The continuity of the assembly shall be continuously monitored during vibration at the pins specified in Table V. Any evidence of discontinuity shall be cause for rejection. The continuity monitoring circuitry shall have a response time equal to or less than 10 μsec in detecting any open circuit.

TABLE V

CONTINUITY

From Pin No. 30J	To
1-F14	Structure Ground
2-50	
1-F8	
[illegible]	
1-C2	
2-46	
2-48	Structure Ground

b. Prior to vibration along each of the three axes, the input signals shall be adjusted within the range specified in Table I to obtain the output specified therein. The output signals shall be continuously monitored during vibration along each of the three axes. Any output voltage change greater than ±100 mv from the initial amplitude shall be cause for rejection. The output monitoring equipment shall measure out-of-tolerance conditions that exist for a period greater than 1 msec.

c. The pins specified in Table VI shall be continuously monitored during vibration for discontinuity and current isolation. The monitoring circuitry shall have a response time equal to or less than 10 usec in detecting any discontinuity and/or short circuit.

TABLE VI

CONTINUITY

From Pin No. 30J	To Pin No. 30J
1-B34	2-7
1-C34	2-20
1-D17	2-43
1-D34	2-38
1-D19	2-25
1-G31	2-51
1-G33	2-62
1-A32	2-35
1-B32	2-17
1-B31	2-31
1-F33	2-37
1-D20	2-24
1-F18	2-59
1-F34	2-61
1-A34	2-21
1-B17	2-85

TABLE VI (Continued)

CONTINUITY

From Pin No. 30J	To Pin No. 30J
1-G17	2-83
1-B19	2-74
1-G18	2-84
1-F32	2-82
1-G34	2-63
1-G32	2-57
1-C15	2-6
1-D15	2-36
1-C16	2-16
1-F15	2-47
1-D16	2-27
1-A33	2-8
1-F16	2-26
1-B36	2-52
1-A37	2-76
1-B37	2-53
1-A36	2-77
1-D35	2-70
1-F35	2-71
1-D36	2-72
1-F36	2-73
1-D33	2-39
1-B33	2-2
1-C33	2-19
1-D31	2-30
1-B15	2-69
1-B20	2-75
1-C32	2-58
1-D32	2-34
1-B17	2-85

4.3.3 Temperature Test. The temperature test shall be as follows:

a. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein. The input and output voltages shall then be measured and recorded.

b. The assembly shall then be soaked at 49° ±3°C for 4 hours. At the conclusion of the 4-hour period, the input voltages shall be readjusted to the values recorded in 4.3.3.a and the output voltages shall be within ±4 percent of the value recorded in 4.3.3.a. The new values of input and output voltages shall be recorded.

4.3.4 Continuity and DC Resistance. The resistance between the pins specified in Table II shall be measured with a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202.

4.3.5 Insulation Resistance. The resistance from each connecter pin except those pins specified in Table III, to the assembly frame shall be measured in accordance with Method 302 of MIL-STD-202 using a megohmmeter having an output voltage of 225±75 vdc and limited to a short circuit current of 6.0 μa. The resistance shall be greater than or equal to 100 megohms.

4.3.6 Offset Voltage. With each input Hi pin specified in Table I connected to its respective input Lo pin, the dc voltage appearing across the output pins specified in Table I shall be as specified therein, except for assembly section D5 which shall have a 110.0±0.10 vdc input.

4.3.7 Scale Factor. The input signals shall be adjusted within the range specified in Table I to obtain the outputs specified therein and the input and output voltages recorded.

4.3.8 Output Ripple and Noise. The input signal voltages shall be adjusted within the range specified in Table I to obtain the outputs specified in Table I, and the peak-to-peak ripple voltage or noise appearing at the corresponding output pins measured and recorded. The ripple voltage or noise appearing at the output pins shall be less than or equal to the value specified in Table I. (See Figure 3.)

4.3.9 PIPA Sensor Output. With a sensor input resistance of 1594.5±3 ohms connected across 30J1-C19 (Hi) and 30J1-F14 (Lo), 30J1-C20 (Lo), the output voltage shall be 5.000±0.005 vdc.

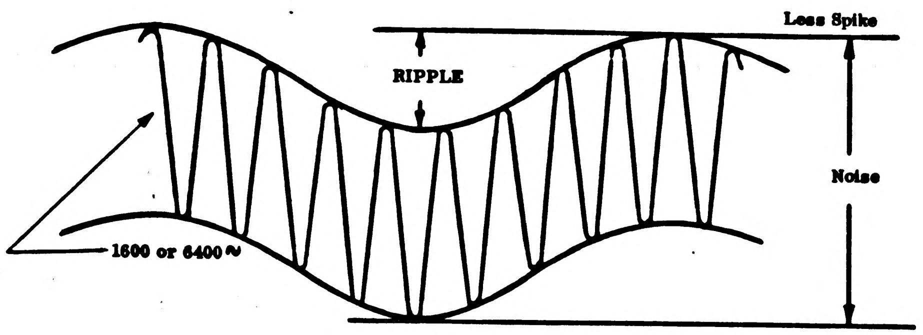
4.3.10 Weight. The assembly shall be weighed to the nearest 0.01 pound.

4.3.11 Calibration

4.3.11.1 AC Input Circuits. The following assembly sections shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 4:

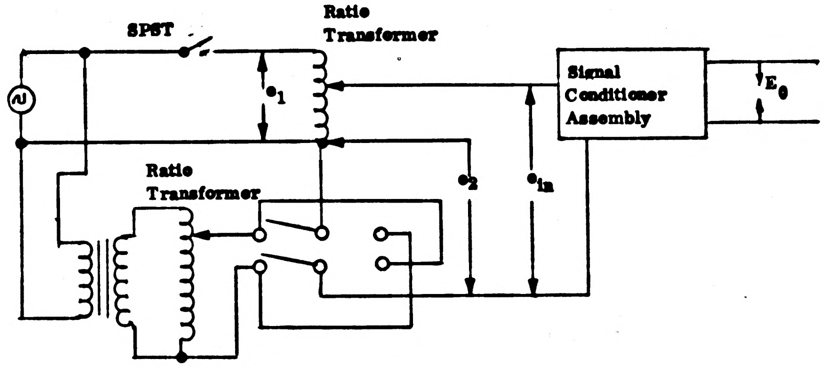
A1
A2
A3
A4
A5
A6
B1
B2
B3
B5
B6
B7
C1
C2
C3
D1
D2
D3
D4

a. Adjust the ratio transformer to 0.0000.


Less Spike
RIPPLE
Noise
1600 or 6400 ~

RIPPLE AND NOISE

FIGURE 3


SPST
Ratio Transformer
Ratio Transformer
Signal Conditioner Assembly
e_1
e_2
e_{in}
E_0

AC CIRCUIT CALIBRATION

FIGURE 4

b. Adjust e_2 for a 2.500±0.005 vdc output E_0. The voltage e_1 shall be 0V rms. Record the voltage and phase of the input e_{in} and e_2. The magnitude and phase of e_2 shall be maintained throughout the remainder of this test.

c. Adjust the ratio transformer to 1.0000. Adjust e_1 for 0 phase and set to obtain a 5.000±0.005 vdc output E_0. Record the voltage and phase of e_{in} and e_1.

d. Adjust the ratio transformer for an output E_0 of 4.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the voltage and phase of e_{in}.

e. Adjust the ratio transformer for an output E_0 of 3.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5 percent. Record the voltage and phase of e_{in}.

f. Adjust the ratio transformer for an output to indicate 1.0000. Set e_1 to π phase and adjust it to produce the e_1 magnitude recorded in 4.3.11.1.c. Record the voltage and phase of e_{in} and e_1.

g. Adjust the ratio transformer for an output E_0 of 0.000±0.005 vdc. The ratio transformer shall indicate 1.000±5 percent. Record the voltage and phase of e_{in}.

h. Adjust the ratio transformer for an output E_0 of 1.000±0.005 vdc. The ratio transformer shall indicate 0.6000±5 percent. Record the voltage and phase of e_{in}.

i. Adjust the ratio transformer for an output E_0 of 2.000±0.005 vdc. The ratio transformer shall indicate 0.2000±5percent. Record the voltage and phase of e_{in}.

4.3.11.2 DC Input Circuit D5. Assembly Section D5 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 5.

a. Set variable step resistor, R1, to 0.0000 and adjust E_2 for an E_0 output of 2.5000 ±0.005 vdc. The E_1 voltage shall be 0 vdc. Record the voltage and polarity of E_{in} and E_2. The magnitude and polarity of E_2 shall be maintained throughout the remainder of this test.

b. Set variable step resistor, R1, to 1.0000. Adjust E_1 and set to obtain an E_0 output of 5.000 ±0.005 vdc. Record the voltage and polarity of E_{in} and E_1. The E_1 voltage shall be +25 vdc ±10 percent.

c. Adjust R_1 for an E_0 output of 4.000 ±0.005 vdc and R_1 shall indicate 0.6000 ±5 percent. Record the E_{in} voltage and polarity.

d. Adjust R_1 for an E_0 output of 3.000 ±0.005 vdc and R_1 shall indicate 0.2000 ±5 percent. Record the E_{in} voltage and polarity.

e. Adjust R_1 to 1.000. Set E_1 to opposite polarity and adjust it to produce E_1 voltage magnitude recorded in 4.3.11.2.b. Record the E_{in} voltage and polarity.

f. Adjust R_1 for an E_0 output of 0.000 ±0.005 vdc and R_1 shall indicate 1.000 ±5 percent. Record the E_{in} voltage and polarity.

g. Adjust R_1 for an E_0 output of 1.000 ±0.005 vdc and R_1 shall indicate 0.6000 ±5 percent. Record E_{in} voltage and polarity.

h. Adjust R_1 for an E_0 output of 2.000 ±0.005 vdc and R_1 shall indicate 0.2000 ±5 percent. Record E_{in} voltage and polarity.

4.3.11.3 Assembly Section C7. Assembly Section C7 shall be calibrated as follows using the pin connections specified in Table I and the test setup shown in Figure 6.

a. With e_{in} adjusted to 28.00±0.28 vdc, adjust the decade resistor across 30J1-C19 (Hi) and 30J1-C20 (Lo), 30J1-F14 (Lo) for an output e_0 of 5.000±0.005 vdc. The decade resistance shall be recorded and shall be 1594.5±3 ohms.

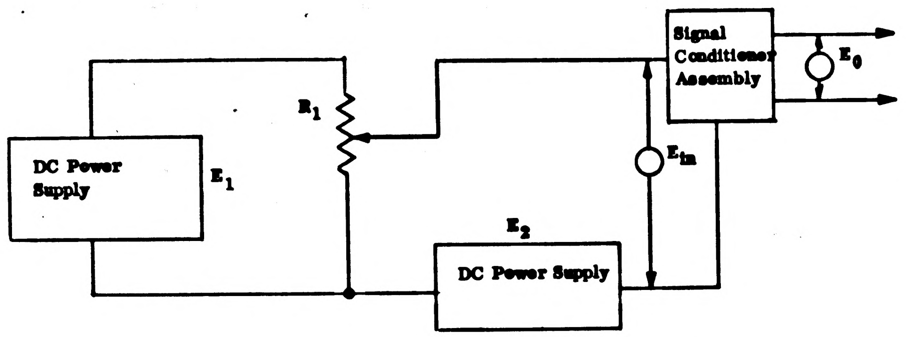
b. Adjust the decade resistor for an output E_0 of 4.000±0.005 vdc. The decade resistance shall be recorded and shall be 1580.7±3 ohms.

c. Adjust the decade resistor for an output E_0 of 3.000±0.005 vdc. The decade resistance shall be recorded and shall be 1566.9±3 ohms.

d. Adjust the decade resistor for an output E_0 of 2.000±0.005 vdc. The decade resistance shall be recorded and shall be 1553.1±3 ohms.

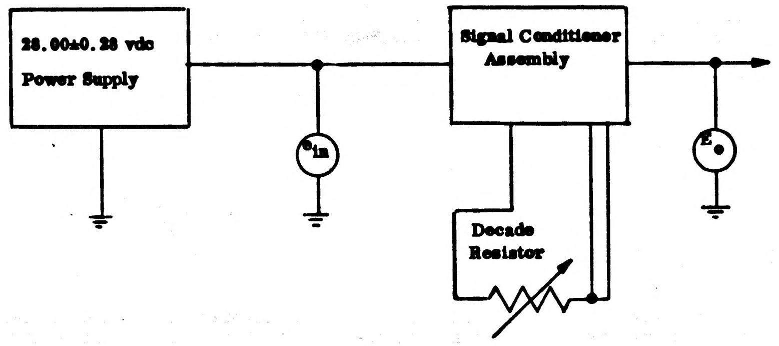
e. Adjust the decade resistor for an output E_0 of 1.000±0.005 vdc. The decade resistance shall be recorded and shall be 1539.3±3 ohms.

f. Adjust the decade resistor for an output E_0 of 0.000±0.005 vdc. The decade resistance shall be recorded and shall be 1525.5±3 ohms.


Signal
Conditioner
Assembly
E_0
R_1
E_{in}
DC Power
Supply
E_1
E_2
DC Power Supply

DC CIRCUIT CALIBRATION

FIGURE 5


28.00±0.28 vdc
Power Supply
e_{in}
Signal Conditioner
Assembly
E_o
Decade
Resistor

SENSOR CIRCUIT CALIBRATION

FIGURE 6

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

ETP:jls

4 | 6007014 | 3 | 2 | 1 | 6007014

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 29356		13 APRIL 66	M Wan 6-?
	—	REPLACED BY CONFIGURATION DWG REV B PER TDRR 29358			

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
3. THIS IS AN INCOMPLETE DRAWING.

SEE NOTE 2

SEE NOTE 2

			1				LEAD SET A-A, ELECTRICAL
			2			MS16555-27	PIN, GUIDE
			2			MS16555-617	PIN, GUIDE
			1				COVER
			3			1010498-238	RESISTOR, FIXED
			75			1010862	BUSHING, SLEEVE
			64			1010770-2	CONTACT, CRIMP TYPE
			21			1010958-001	PLUG, PROTECTIVE
			1			1010930-001	CONNECTOR, RECEPTACLE, ELEC
			423			1006781-2	CONTACT, WRAPOST
			423			1006774	INSULATOR, WRAPOST
			10			1010620-7	PIN, GUIDE
			6			1010994-001	TERMINAL, WIRE-WRAP
			6			1010995-001	INSULATOR, WRAPOST
			6			1008818-002	CONTACT, WRAPOST, FEMALE
			6			1008819-001	SLEEVE, MIN GROUNDING
			1			6008056	HEADER (INSEP ASSY)
			011	EFFEC-TIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

-011	6007013-011	
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. J. Fluke DATE 31-MAR-66
CHECKED M. Mahrning 1 APR 66
APPROVAL 1 APRIL 66
CONTRACT NAS9-497
NASA APPROVAL A. G. METZGER
MIT APPROVAL 6-3-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY,
SIGNAL CONDITIONER,
LEM-OPERATIONAL

SIZE C | CODE IDENT NO. 80230 | 6007014

SCA — | SHEET 1 OF 1

MIL-1002D D

4 | 3 | 2 | 1

APOLLO G&N Specification
PS6007014 REV A
Original Issue Date:
Release Authority: TDRR 29733
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY OPERATIONAL SIGNAL CONDITIONER (LEM)

DRAWING NO. 6007014

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30308	4,5	EA	--

This specification consists of page 1 to 8 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	6-21-66 MIT/IL 16 Jun 66	D. Jensen 23 May 66 ACSP

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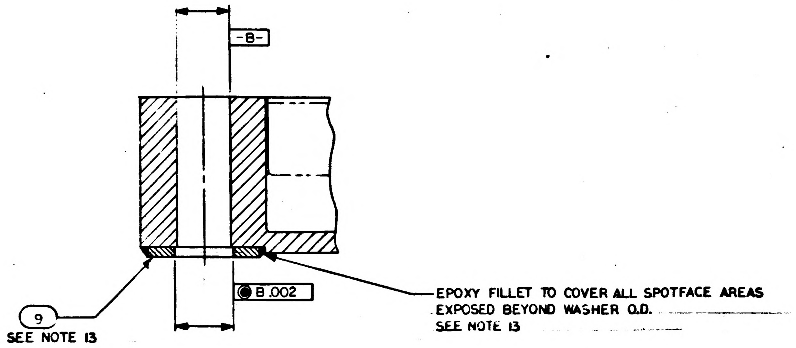
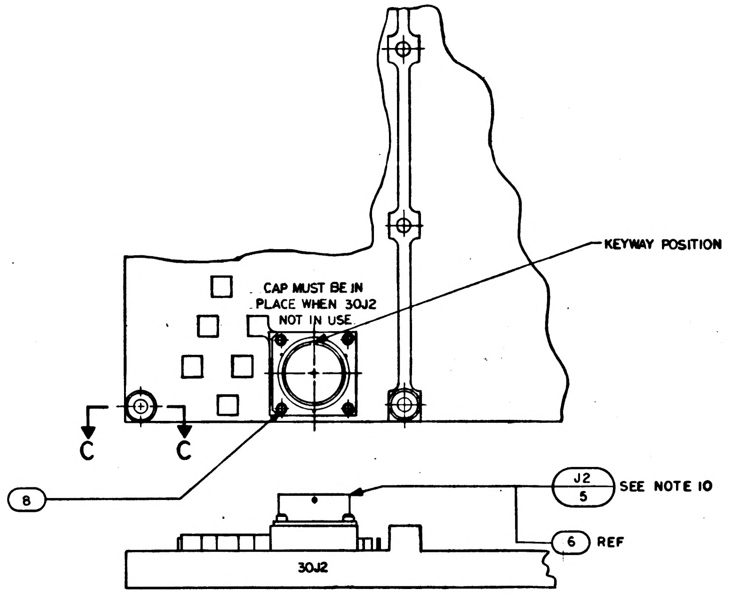
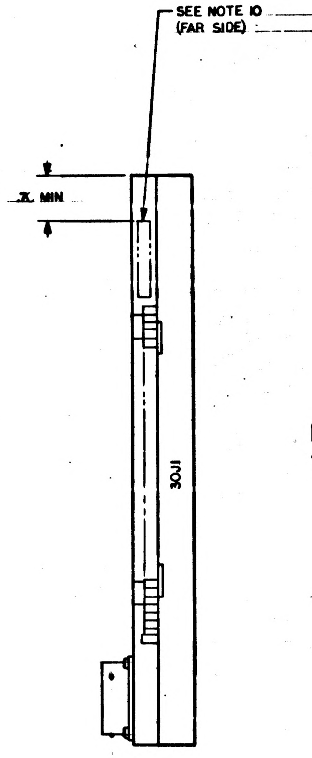
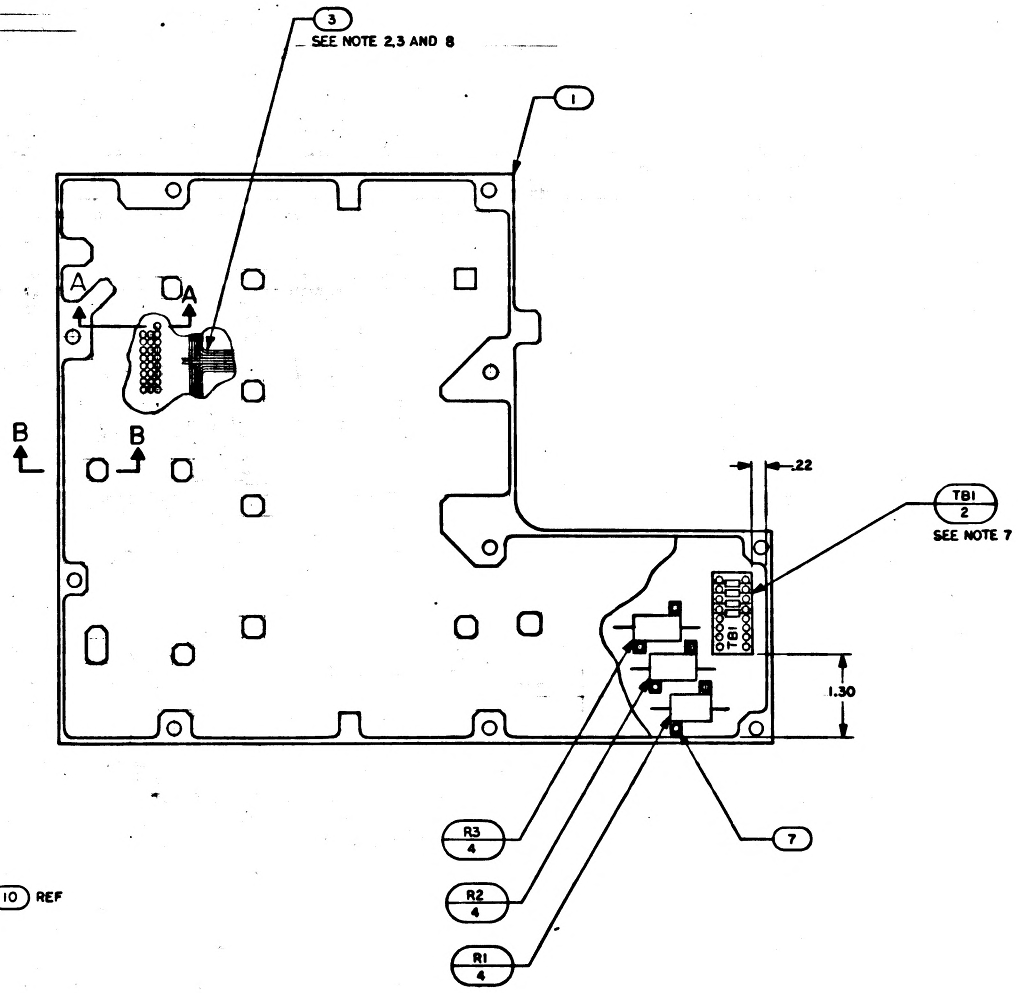
REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
B		REPLACES WORD DWG REV A PER TDRR 29358					5-3-66

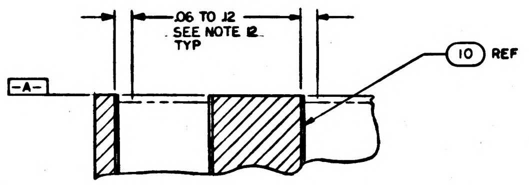

-B-
9
SEE NOTE 13
B .002
EPOXY FILLET TO COVER ALL SPOTFACE AREAS
EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

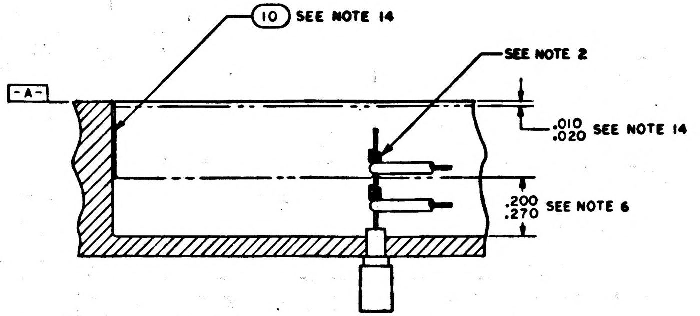








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
    CONNECTOR J2, USE FIND NO. 6
12. PAINT PER ND1002291 TYPE ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. TWO MILS MAX PAINT THICKNESS.
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004, TYPE I.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2004148-009	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014550	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007019	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

6007013	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 4 MAY 66
CHECKED MAY 66
APPROVED
APPROVED 9/1/66
APPROVED MIT 5-11-66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

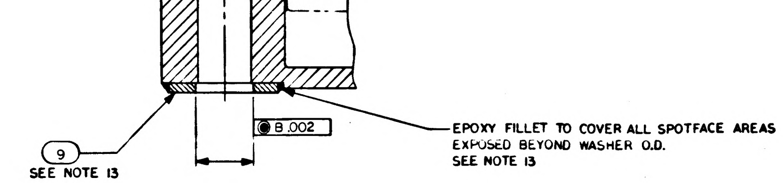
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF 1

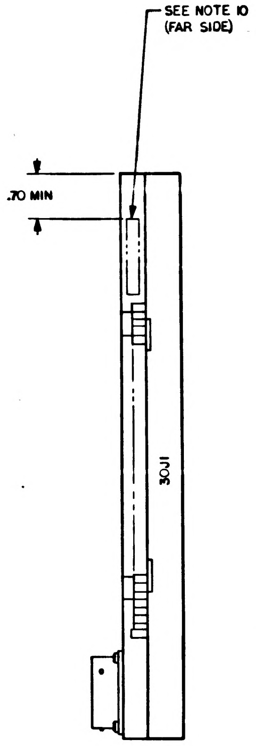
NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

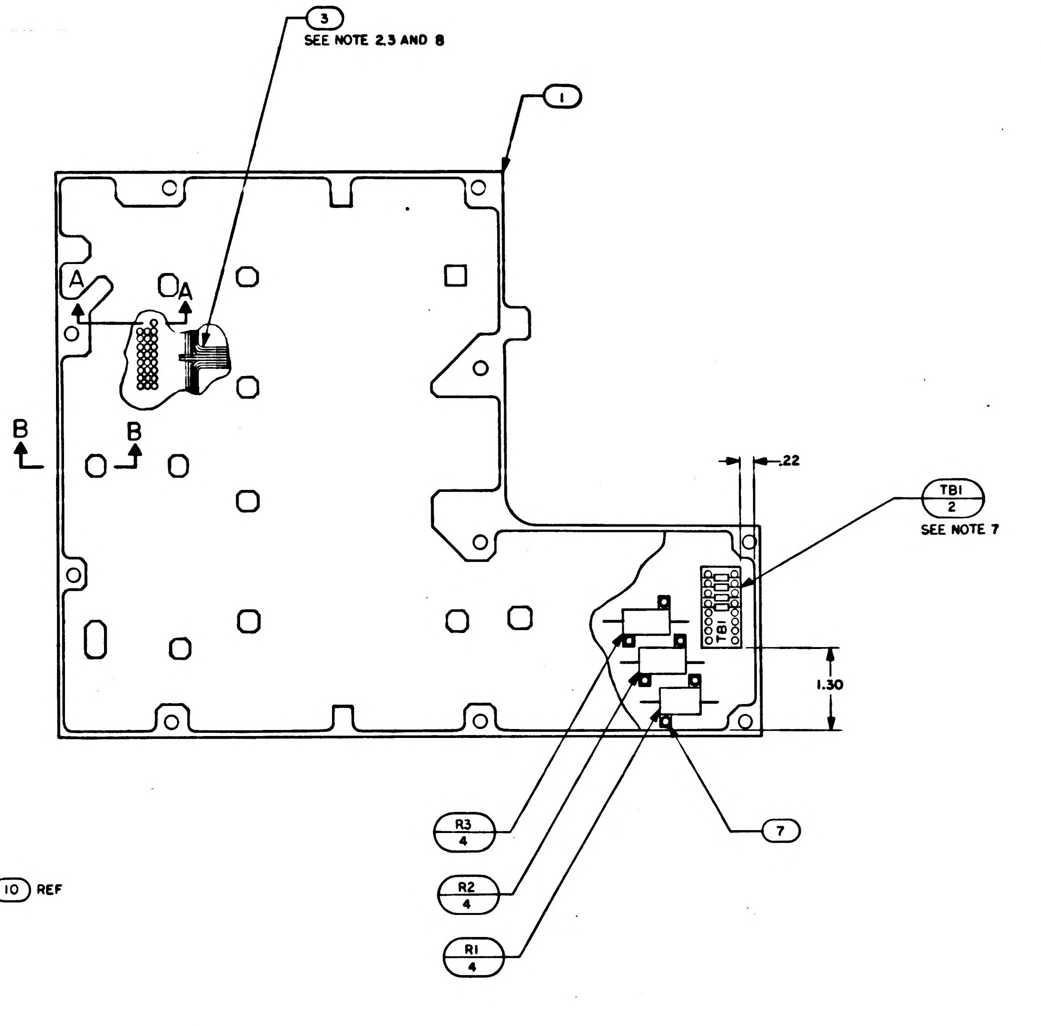
REVISIONS

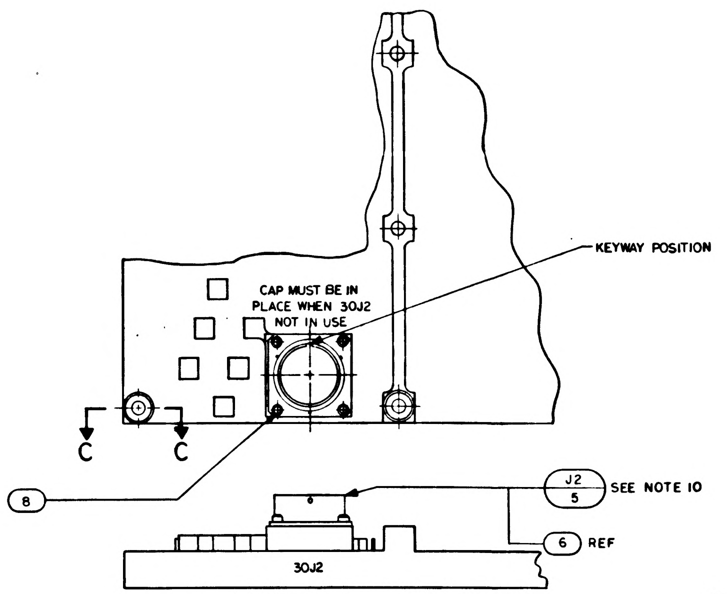
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29358				8-3-66
C		REVISED PER TDRR 30639	JJB	JI	7 AUG 66	

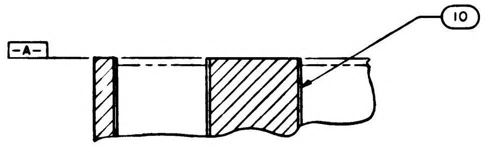

-B-
⊚ B .002
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D. SEE NOTE 13
9
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

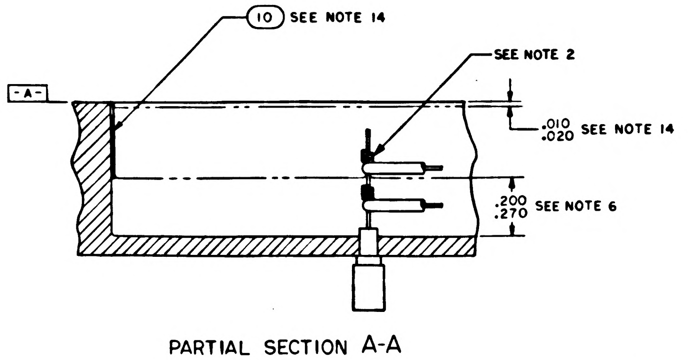








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
CONNECTOR J2, USE FIND NO. 6
12. ~~PAINT PER ND1002231 TYPE ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B, TWO MILS MAX PAINT THICKNESS.~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004, TYPE I.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2004148-009	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014550	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007019	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 4 MAY 66
CHECKED 4 MAY 66
APPROVED
APPROVED S. Chuls 9/1/66
APPROVED MIT 5-11-66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

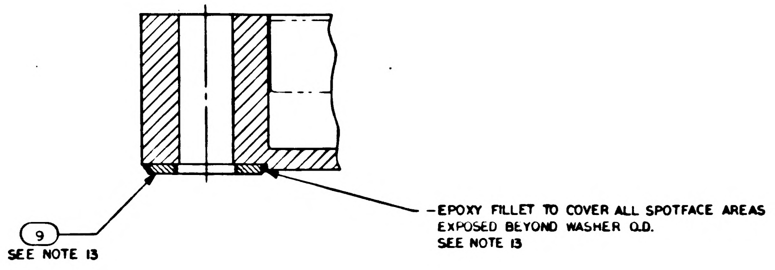
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

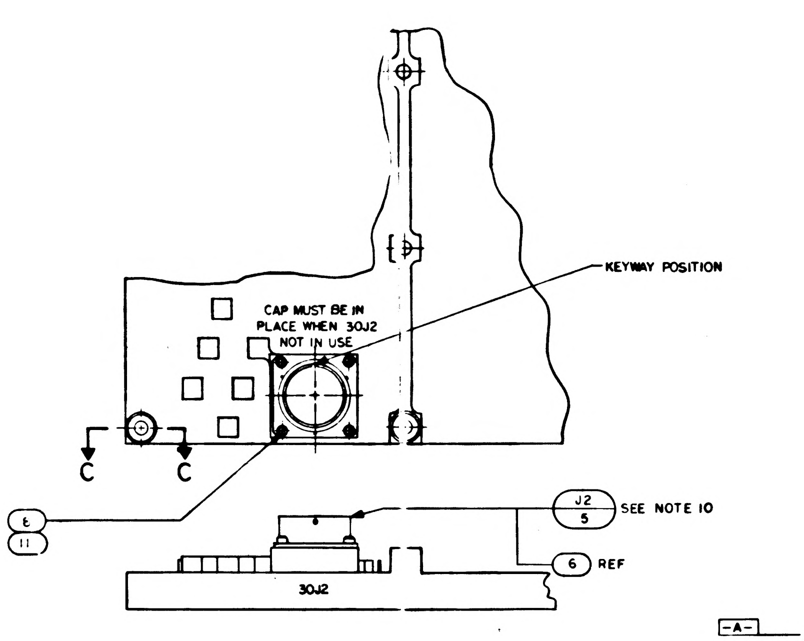
REVISIONS

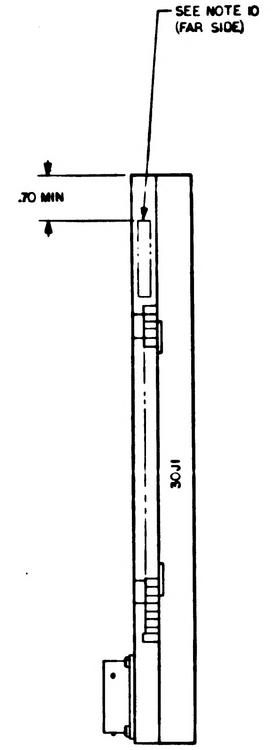
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
B		REPLACES WORD DWG REV A PER TDRR 29358					
C		REVISED PER TDRR 30639	JJB	JI	17 AUG 66		
D		REVISED PER TDRR 30908	EH	JI	12 SEP 66		

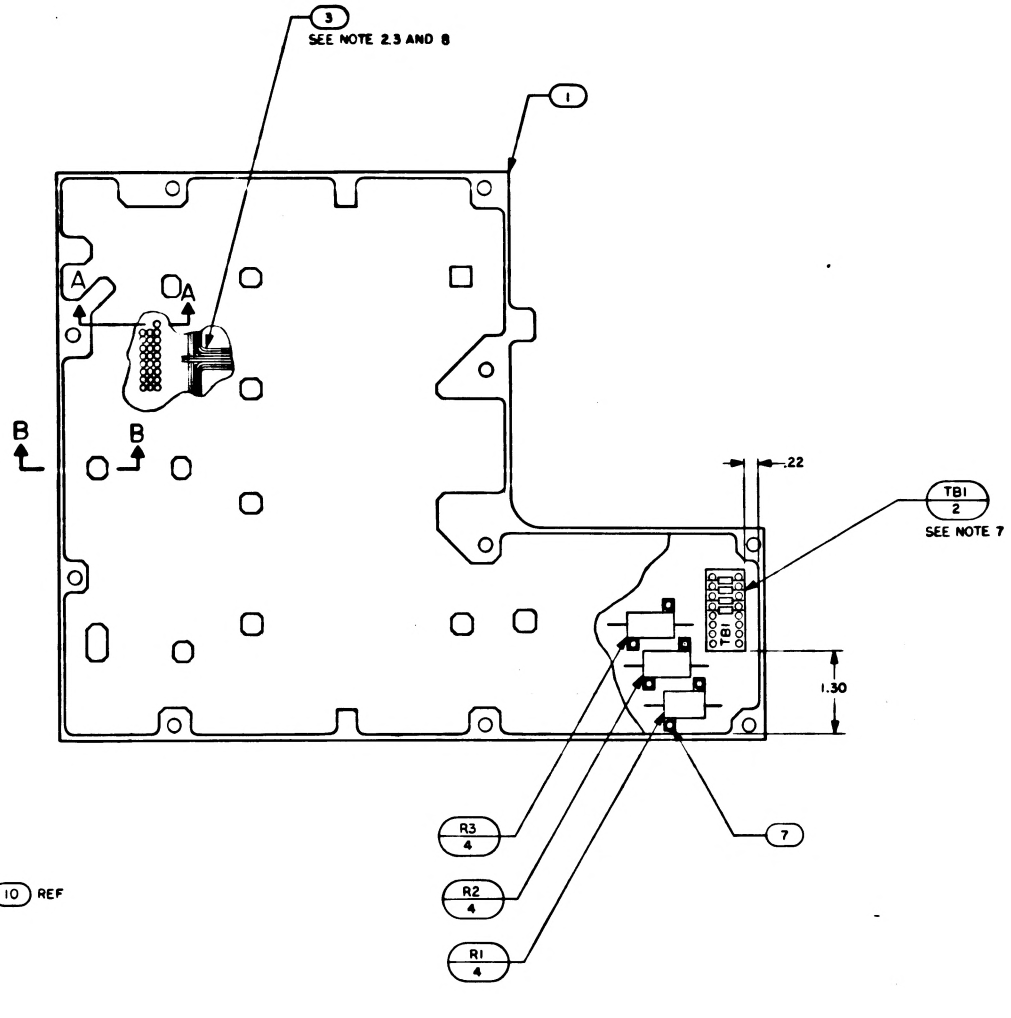


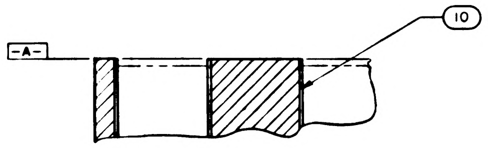
9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

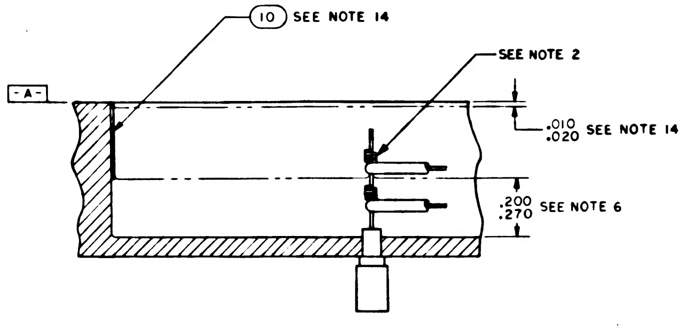








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS. CONNECTOR J2, USE FIND NO. 6
12. ~~[illegible] SURFACES PER SECTION B-B. TWO MILS MAX PAINT THICKNESS.~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004, TYPE II. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1 TO COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	2010752-004	WASHER, FLAT	11
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2010752-003	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014550	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007019	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN	E. Miller	4 MAY 66
CHECKED		MAY 66
APPROVED		
APPROVED	S. Chiles	9/1/66
APPROVED MIT		5/11/66
APPROVED MSC	A. C. METZGER	
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO	SIZE	DRAWING NO.
80230	E	6007014

SCALE 1/1
SHEET 1 OF 1

6007014

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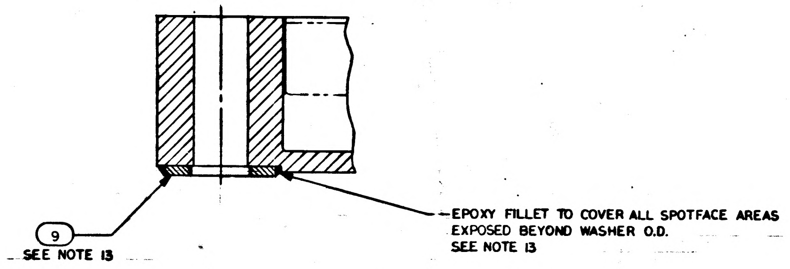
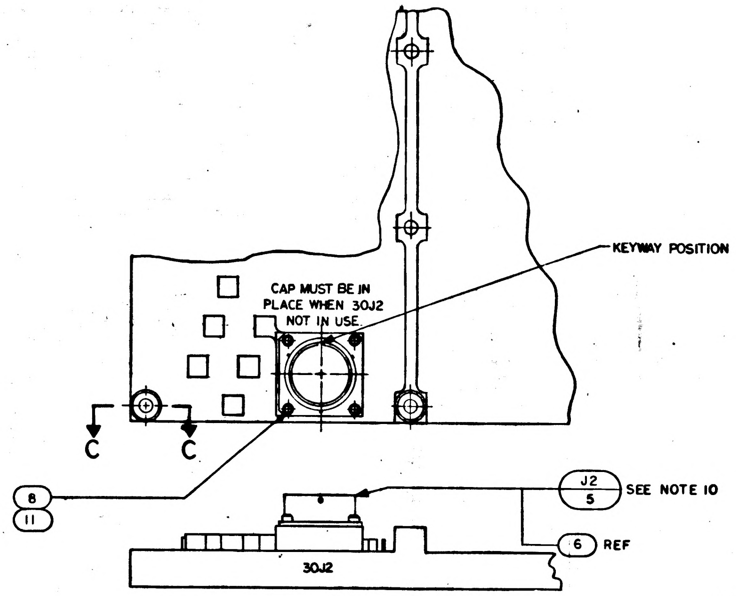
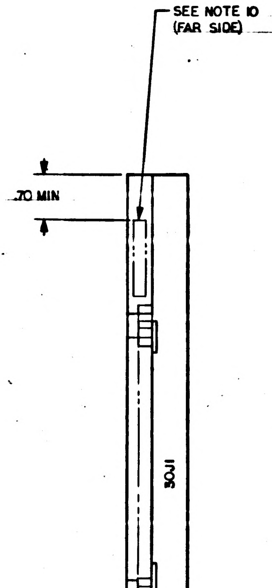
REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29358				5-3-66
C		REVISED PER TDRR 30639	JJB	JI	17 AUG 66	
D		REVISED PER TDRR 30908	EH	JI	12 SEP 66	
E		REVISED PER TDRR 32277	HA	RW	2 DEC 66	

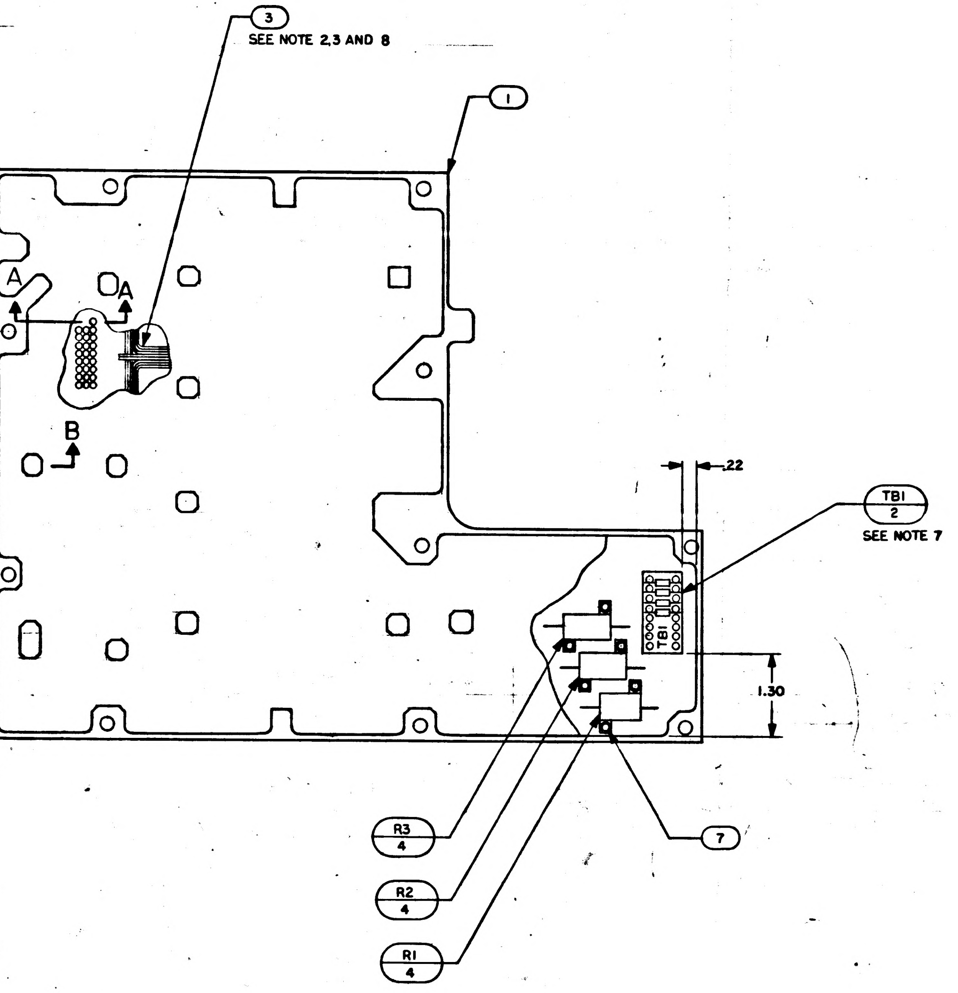


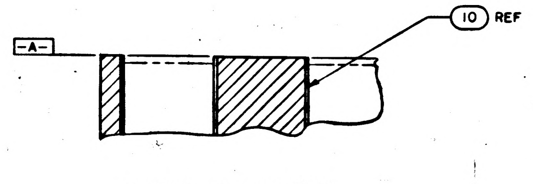
9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS
EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

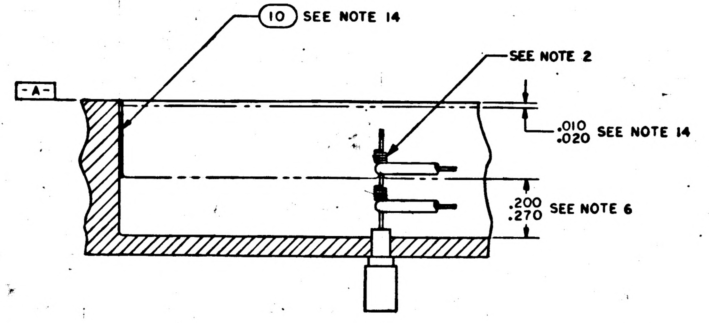








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS. CONNECTOR J2, USE FIND NO. 6
12. ~~PAINT PER ND1002291 TYPE [illegible] ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. TWO MILS MAX PAINT THICKNESS.~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004, TYPE I. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 6, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1 COVER. THE AREA BETWEEN THE TOP OF THE NOTE 6 ENCAPSULANT MENISCUS TO SURFACE -A- FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.
15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	2010752-004	WASHER, FLAT	11
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
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1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
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1	6007019	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

6007013	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
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CAPACITOR VALUES ARE IN µf
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TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

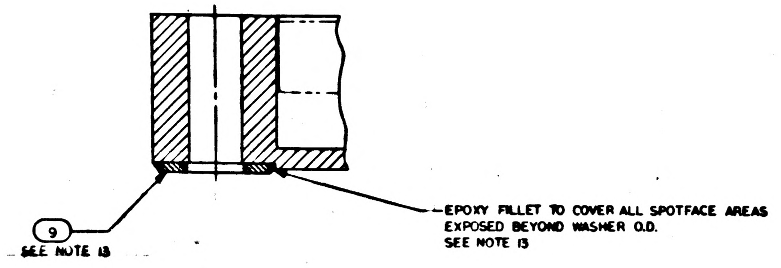
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	E. Miller	4 MAY 66
CHECKED		MAY 66
APPROVED		
APPROVED		9/1/66
APPROVED MIT	A. C. METZGER	5/11/66
APPROVED MSC		DATE

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

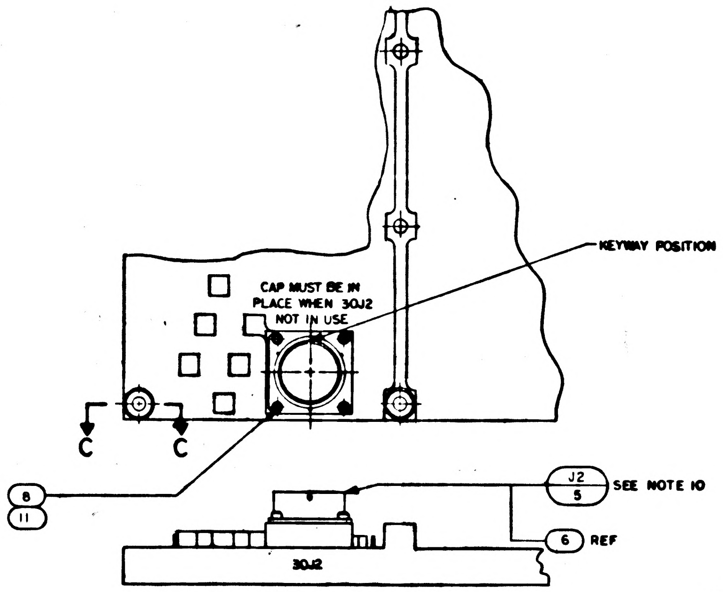
CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007014
SCALE 1/1		SHEET 1 OF 1

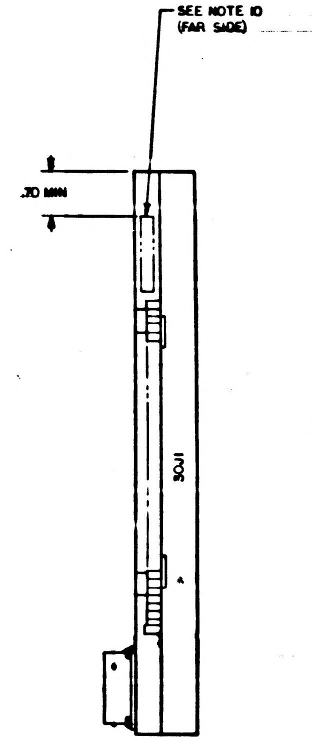
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
B		REPLACES WORD DWG REV A PER TDRR 29358					8-3-66
C		REVISED PER TDRR 30639	JJB	JI	17 AUG 66		
D		REVISED PER TDRR 30906	EH	JI	12 SEP 66		
E		REVISED PER TDRR 32277	HA		12 DEC 66		
F		REVISED PER TDRR 33071	DRB				

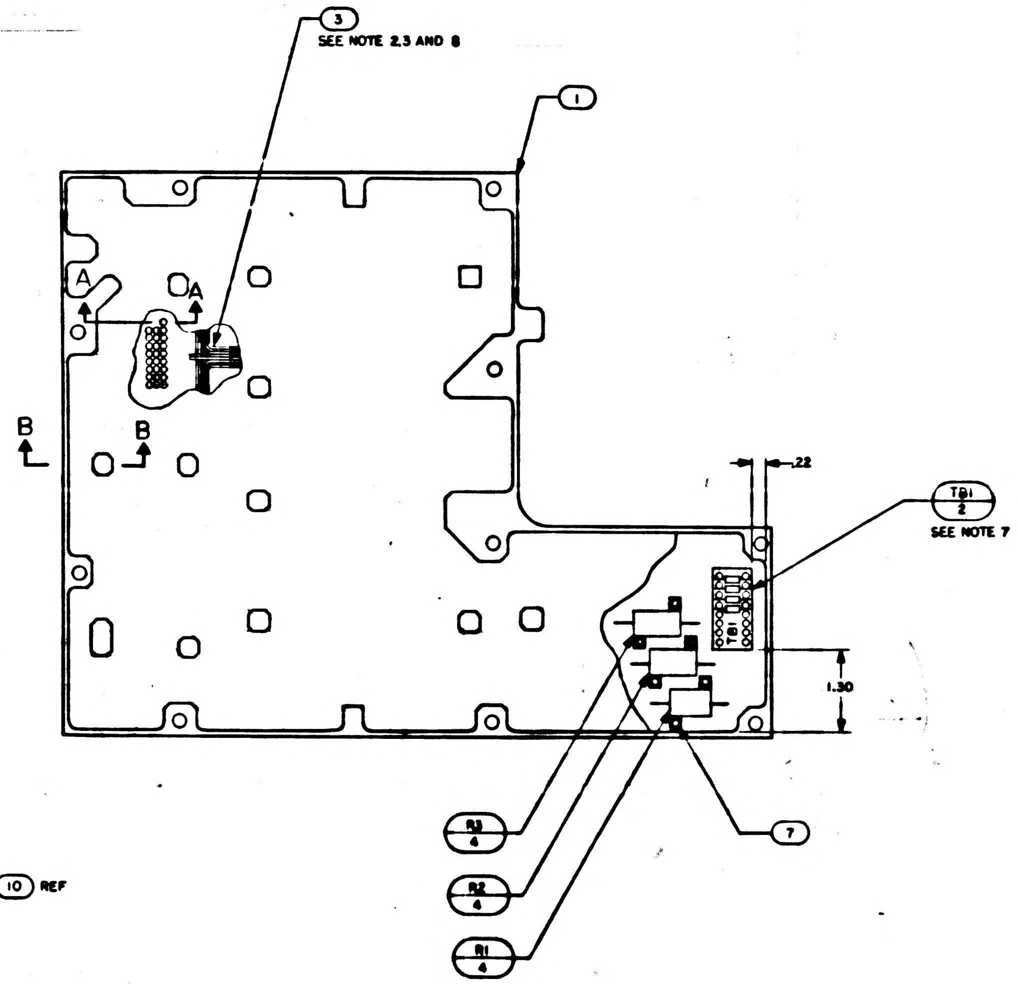


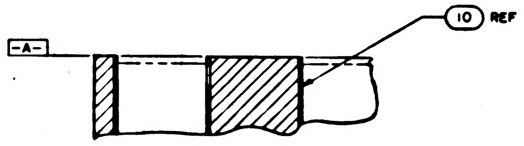
9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS
EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

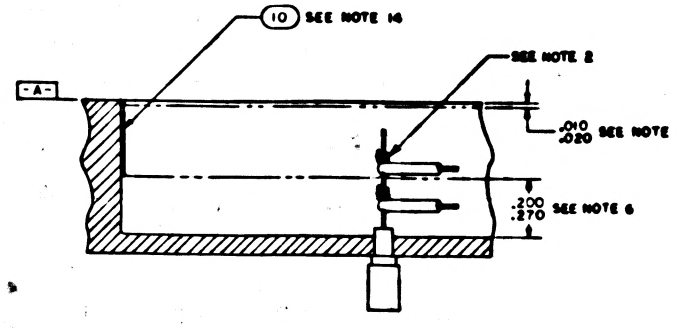








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 12.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS. CONNECTOR J2, USE FIND NO. 6
12. [illegible]
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004 TYPE II. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 6, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1 COVER. THE AREA BETWEEN THE TOP OF THE NOTE 6 ENCAPSULANT MENISCUS TO SURFACE -A- FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSIBLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

[illegible] THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER NC 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1012555-002	LACING TAPE	
4	2010752-004	WASHER, FLAT	
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	
10	2010752-003	WASHER, FLAT	
4	1008874-009	SCREW, CAP, SOCKET HEAD	
6	1008874-002	SCREW, CAP, SOCKET HEAD	
27	1010958-001	PLUG, PROTECTIVE	
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	
3	1010498-238	RESISTOR-FIXED	
1	6014550	LEAD SET AA	
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	
1	6007019	HEADER SUBASSEMBLY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

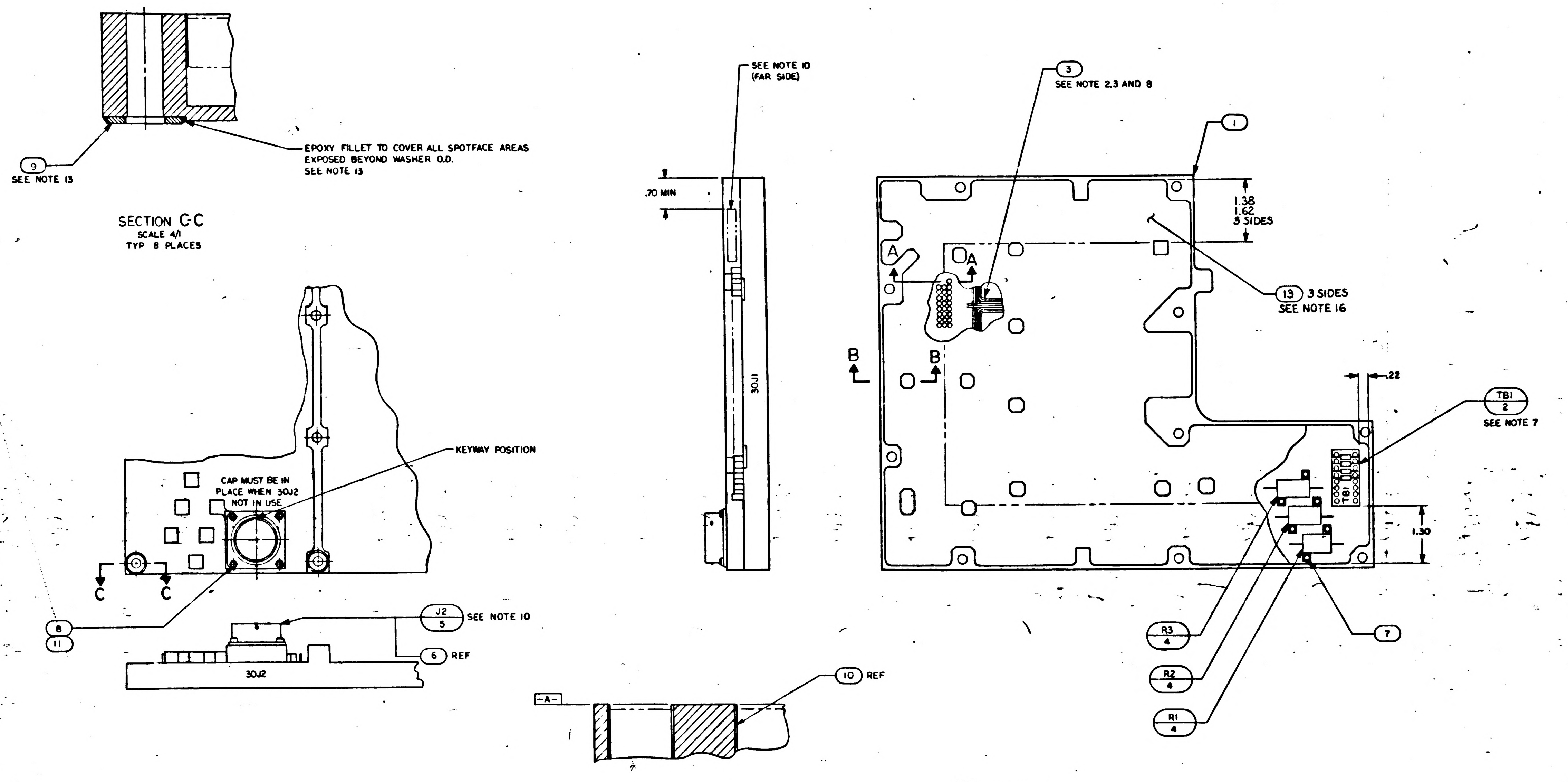
DRAWN 14 MAY 66
CHECKED
APPROVED
APPROVED 9/1/66
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

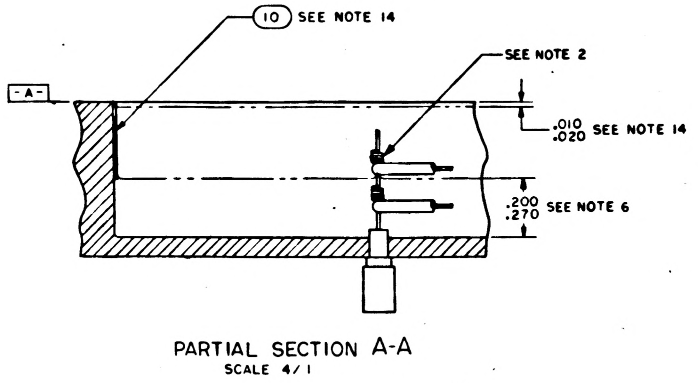
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF

SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29358				
C		REVISED PER TDRR 30639	WJB	II	27 AUG 66	
D		REVISED PER TDRR 30908	EH	II	12 SEP 66	
E		REVISED PER TDRR 32277	HA	Aw	12 DEC 66	
F		REVISED PER TDRR 32071	SRB	EC	3 MAR 67	
G		REVISED PER TDRR 34549	GD		19 SEP 67	



SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D. SEE NOTE 13
SECTION C-C
SCALE 4/1
TYP 8 PLACES
KEYWAY POSITION
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
C
C
8
11
J2
5
SEE NOTE 10
6
REF
30J2
SEE NOTE 10 (FAR SIDE)
.70 MIN
30J1
10
REF
-A-
PARTIAL SECTION B-B
SCALE 4/1
3
SEE NOTE 2,3 AND 8
1
1.38
1.62
3 SIDES
A
A
13
3 SIDES
SEE NOTE 16
B
B
.22
TB1
2
SEE NOTE 7
TB1
1.30
R3
4
R2
4
R1
4
7



10
SEE NOTE 14
SEE NOTE 2
-A-
.010
.020
SEE NOTE 14
.200
.270
SEE NOTE 6

PARTIAL SECTION A-A
SCALE 4/1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 12.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
CONNECTOR J2. USE FIND NO. 6
12. ~~[illegible] -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B [illegible]~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004 TYPE I. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 6, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 6 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.
15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-009. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.
16. THERMAL INTERFACE SURFACES IN PLANE -A- MUST BE FREE OF ALUMINUM FOIL TAPE. THE GAP BETWEEN EDGE OF FOIL AND INNER WALL SURFACE OF HEADER MUST NOT EXCEED .03. ALUMINUM FOIL SHALL BE FLUSH OR BELOW PLANE -A-. NOT APPLICABLE TO DASH -011. ADJACENT STRIPS OF FOIL TO OVERLAP .25 MINIMUM.

QTY RECD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	—	1008937-007	TAPE, PRESSURE SENSITIVE, ALUM. FOIL BACKED	[illegible]
AR	AR	1012555-002	LACING TAPE	12
4	4	2010752-004	WASHER, FLAT	11
AR	A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	10	2010752-003	WASHER, FLAT	9
4	4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	27	1010958-001	PLUG, PROTECTIVE	6
1	1	1010930-001	CONNECTOR RECEPTACLE, ELECTRICAL	5
3	3	1010498-238	RESISTOR-FIXED	4
1	1	6014550	LEAD SET AA	3
1	1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	1	6007019	HEADER SUBASSEMBLY	1
-021	-011	LIST OF MATERIALS		

6007013	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Miller 4 MAY 66
CHECKED
APPROVED
APPROVED 9/1/66
APPROVED MIT A. G. Mayer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

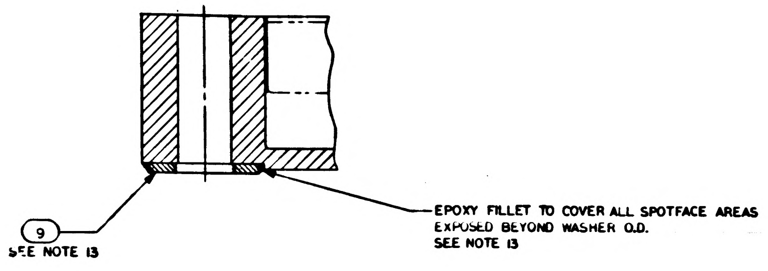
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

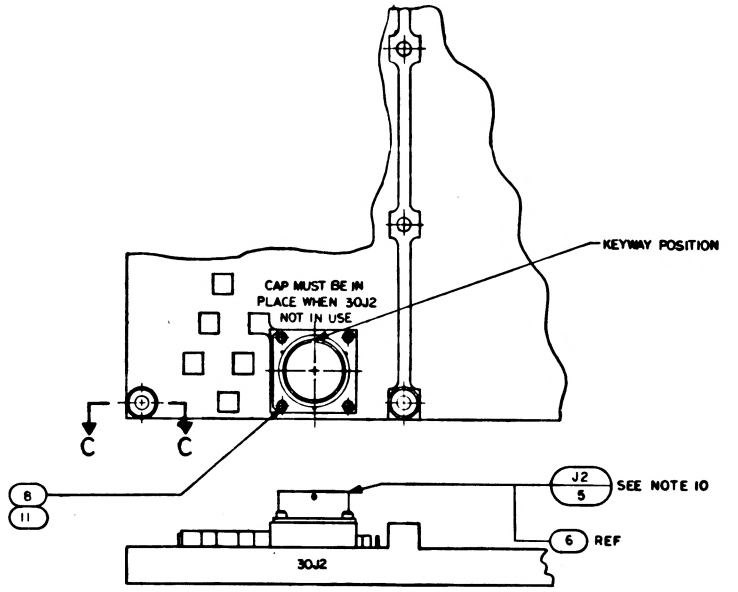
REVISIONS

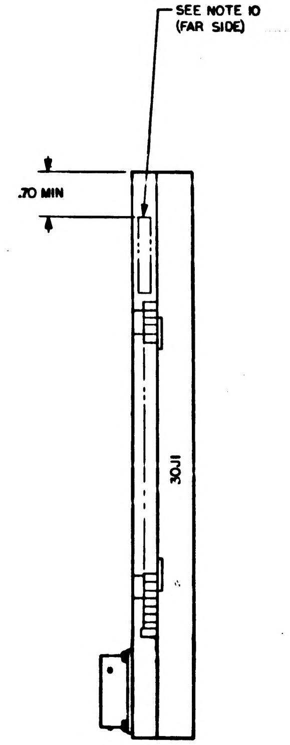
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29358				
C		REVISED PER TDRR 30639	JJB	JI	17 AUG 66	
D		REVISED PER TDRR 30908	EH	JI	12 SEP 66	
E		REVISED PER TDRR 32277	HA		12 DEC 66	
F		REVISED PER TDRR 33071	SRB		3 MAR 67	
G		REVISED PER TDRR 34549	GD		19 SEP 67	
H		REVISED PER TDRR 34605	DJC		25 SEP 67	

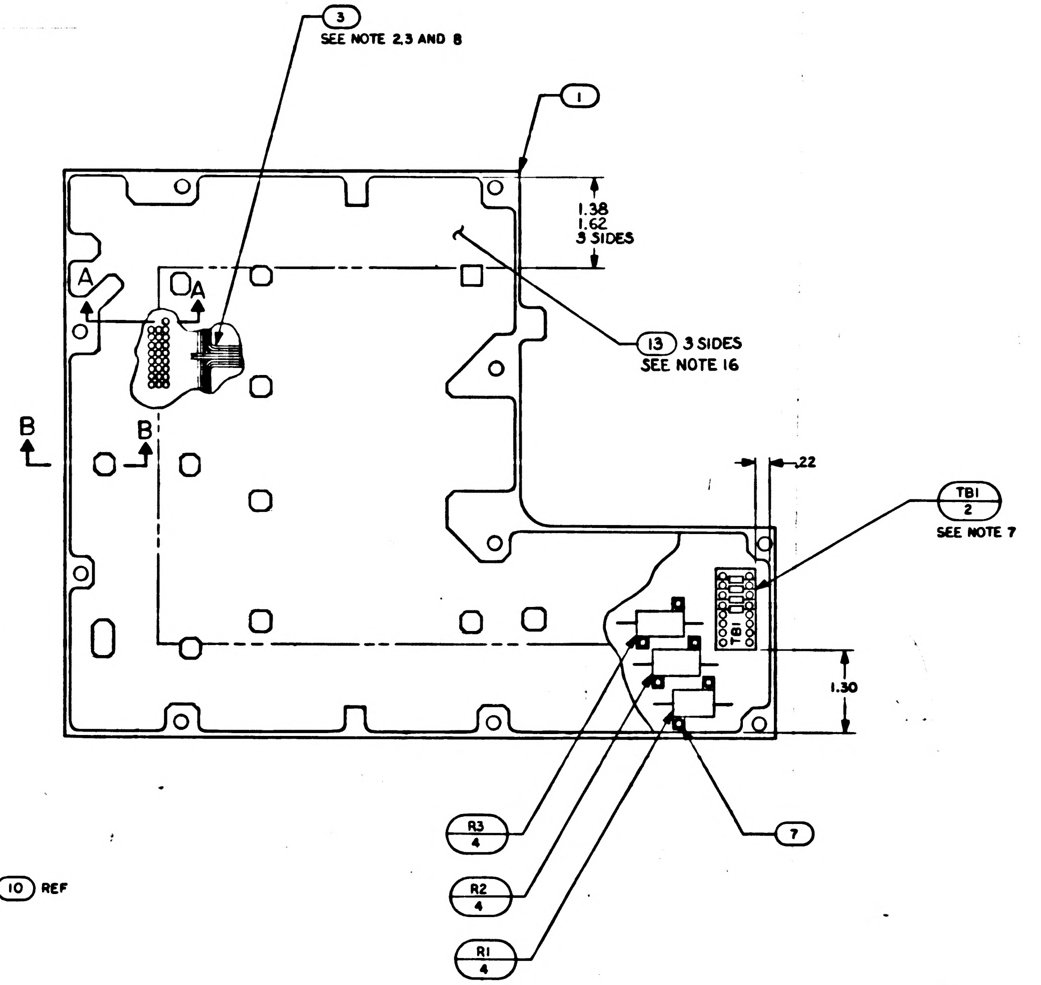


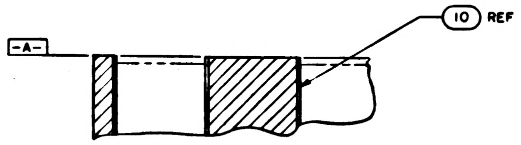
9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

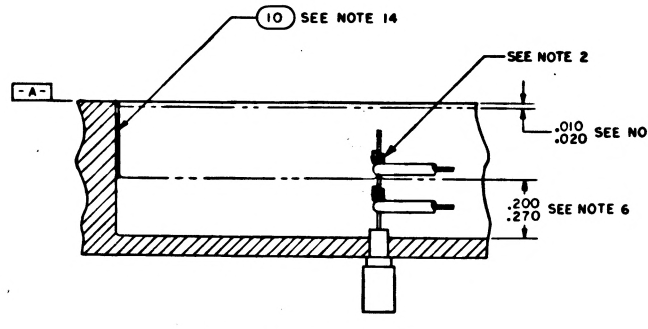








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 12.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS. CONNECTOR J2, USE FIND NO. 6
12. ~~[illegible]~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004. TYPE I. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 6, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 6 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.
15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.
16. THERMAL INTERFACE SURFACES IN PLANE -A- MUST BE FREE OF ALUMINUM FOIL TAPE. THE GAP BETWEEN EDGE OF FOIL AND INNER WALL SURFACE OF HEADER MUST NOT EXCEED .03. ALUMINUM FOIL SHALL BE FLUSH OR BELOW PLANE -A-. NOT APPLICABLE TO DASH -011. ADJACENT STRIPS OF FOIL TO OVERLAP .25 MINIMUM.

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	—	1008937-007	TAPE, PRESSURE SENSITIVE, ALUM. FOIL BACKED	13
AR	AR	1012555-002	LACING TAPE	12
4	4	2010752-004	WASHER, FLAT	11
AR	A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	10	2010752-003	WASHER, FLAT	9
4	4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	27	1010958-001	PLUG, PROTECTIVE	6
1	1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	3	1010498-238	RESISTOR-FIXED	4
1	1	6014550	LEAD SET AA	3
1	1	6007040-011	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	1	6007019-011	HEADER SUBASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 4 MAY 66
CHECKED
APPROVED
APPROVED 9/ /66
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

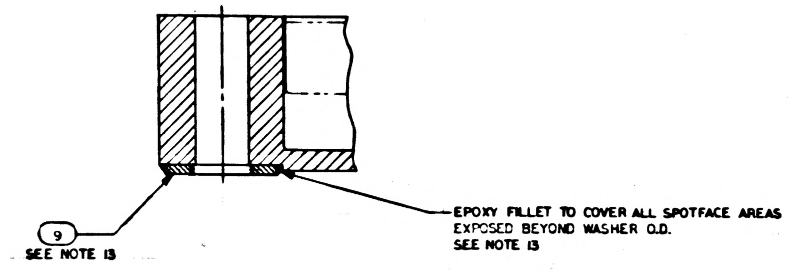
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF 5

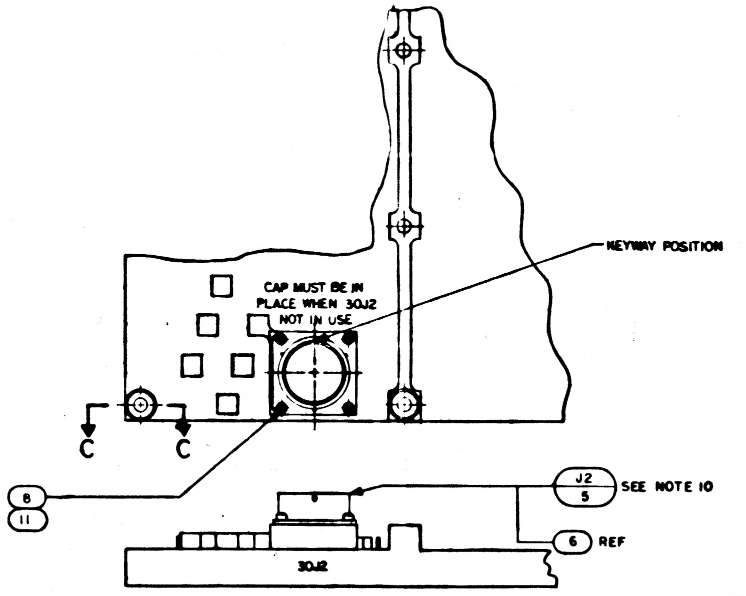
NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

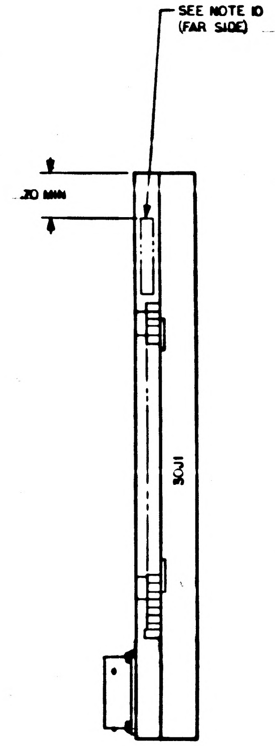
REVISIONS

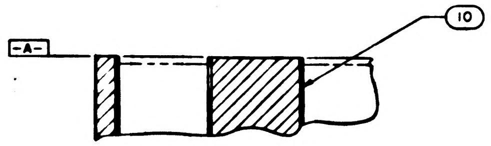
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29358				3-31-66
C		REVISED PER TDRR 30639	JJB	JI	17 AUG 66	
D		REVISED PER TDRR 30908	EH	JI	16 SEP 66	
E		REVISED PER TDRR 32277	HA		12 DEC 66	
F		REVISED PER TDRR 33071	SRB		31 MAR 67	
G		REVISED PER TDRR 34549	GD		19 SEP 67	
H		REVISED PER TDRR 34605	DJC			
J		REVISED PER TDRR 35038	JWL			


9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS
EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

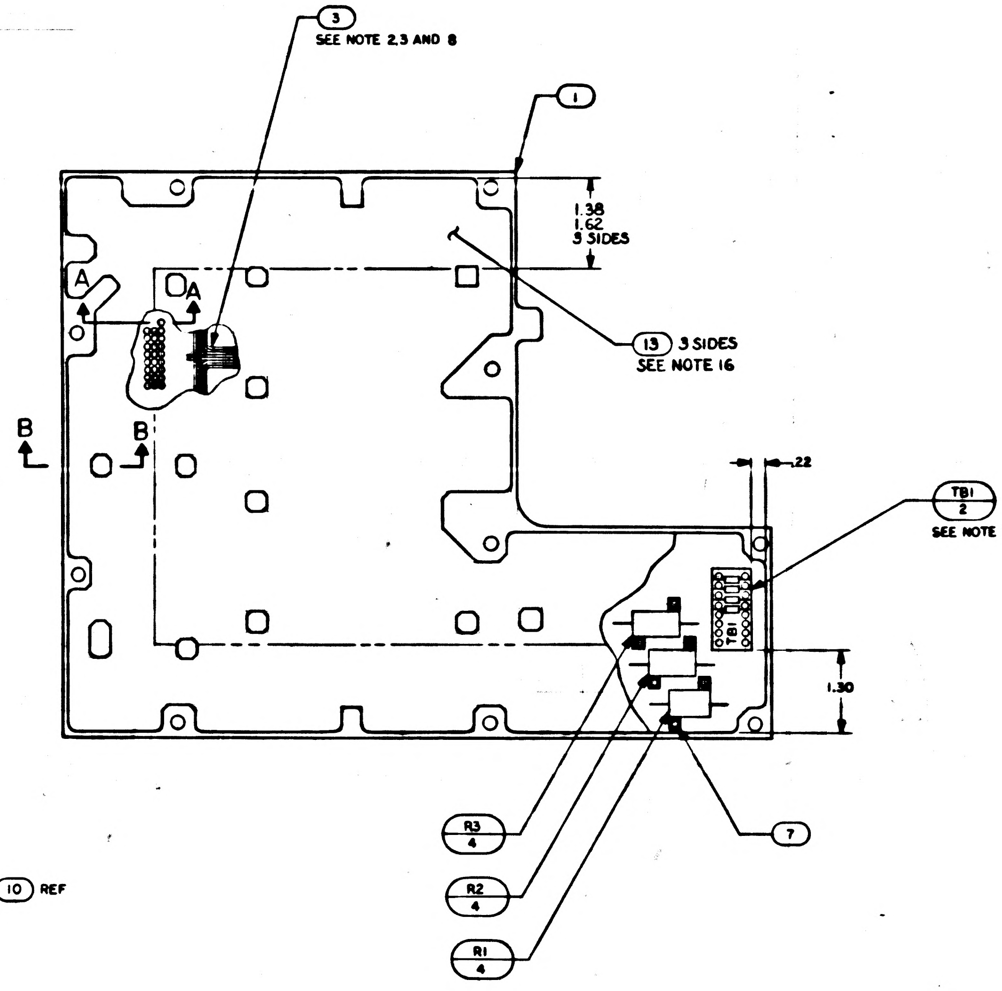
SECTION C-C
SCALE 4/1
TYP 8 PLACES

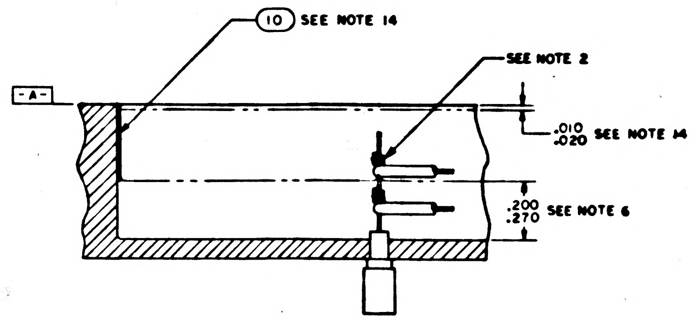






PARTIAL SECTION B-B
SCALE 4/1





PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002081, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 12.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE 1.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS. CONNECTOR J2. USE FIND NO. 6
12. ~~[illegible] -A- SURFACES PER SECTION B-B. [illegible]~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004. TYPE 2. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP FIND NO. 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN-LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 6, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10 TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 6 ENCAPSULANT MENISCUS TO SURFACE -A-, FOAM FILL PER ND1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSIBLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT. FOAM MAY BE FLUSH WITH SURFACE -A-, .00 TO .06 INCH WIDE, ALONG INNER WALL AND AROUND THERMAL ISLANDS.
15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-009. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING DISTILLED WATER, ISO-PROPYL ALCOHOL, AND FREON TF.
16. THERMAL INTERFACE SURFACES IN PLANE -A- MUST BE FREE OF ALUMINUM FOIL TAPE. THE GAP BETWEEN EDGE OF FOIL AND INNER WALL SURFACE OF HEADER MUST NOT EXCEED .07. ALUMINUM FOIL SHALL BE FLUSH OR BELOW PLANE -A-. NOT APPLICABLE TO DASH -011. ADJACENT STRIPS OF FOIL TO OVERLAP .25 MINIMUM.

MASTER

LIST OF MATERIALS

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	—	1008937-007	TAPE, PRESSURE SENSITIVE, ALUM. FOIL BACKE	13
AR	AR	1012555-002	LACING TAPE	12
4	4	2010752-004	WASHER, FLAT	11
AR	A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	10	2010752-003	WASHER, FLAT	9
4	4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	27	1010959-001	PLUG, PROTECTIVE	6
1	1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	3	1010498-238	RESISTOR-FIXED	4
1	1	6014550	LEAD SET AA	3
1	1	6007040-011	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	1	6007019-011	HEADER SUBASSEMBLY	1

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Miller 4 MAY 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

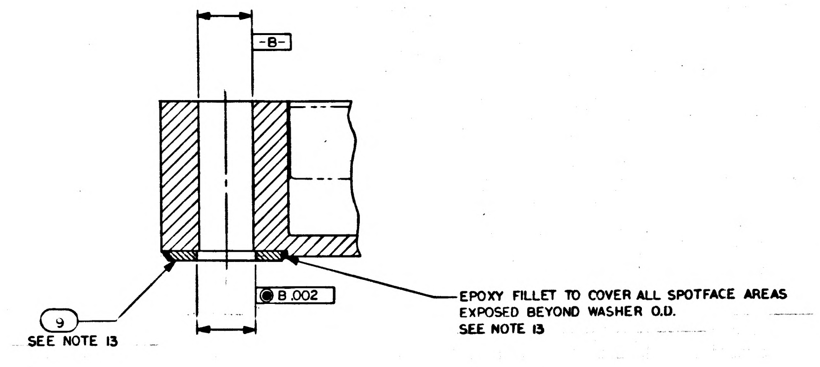
HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007014
SCALE 1/1
SHEET 1 OF 4

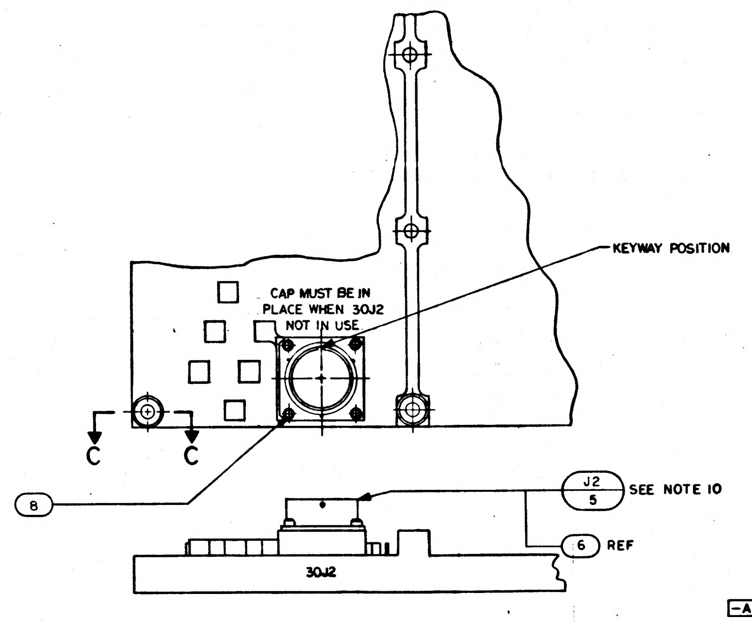
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

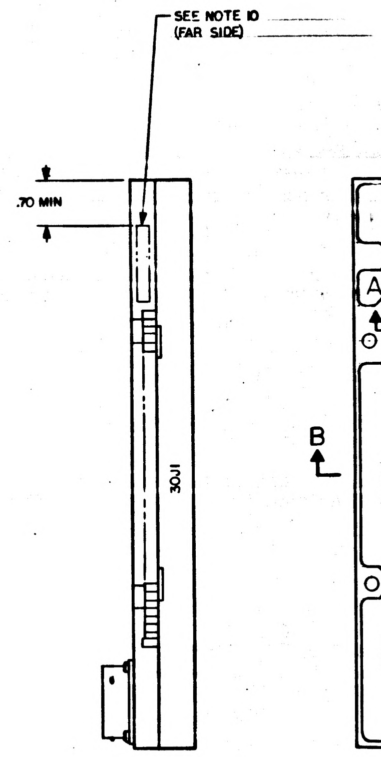
REVISIONS 28698

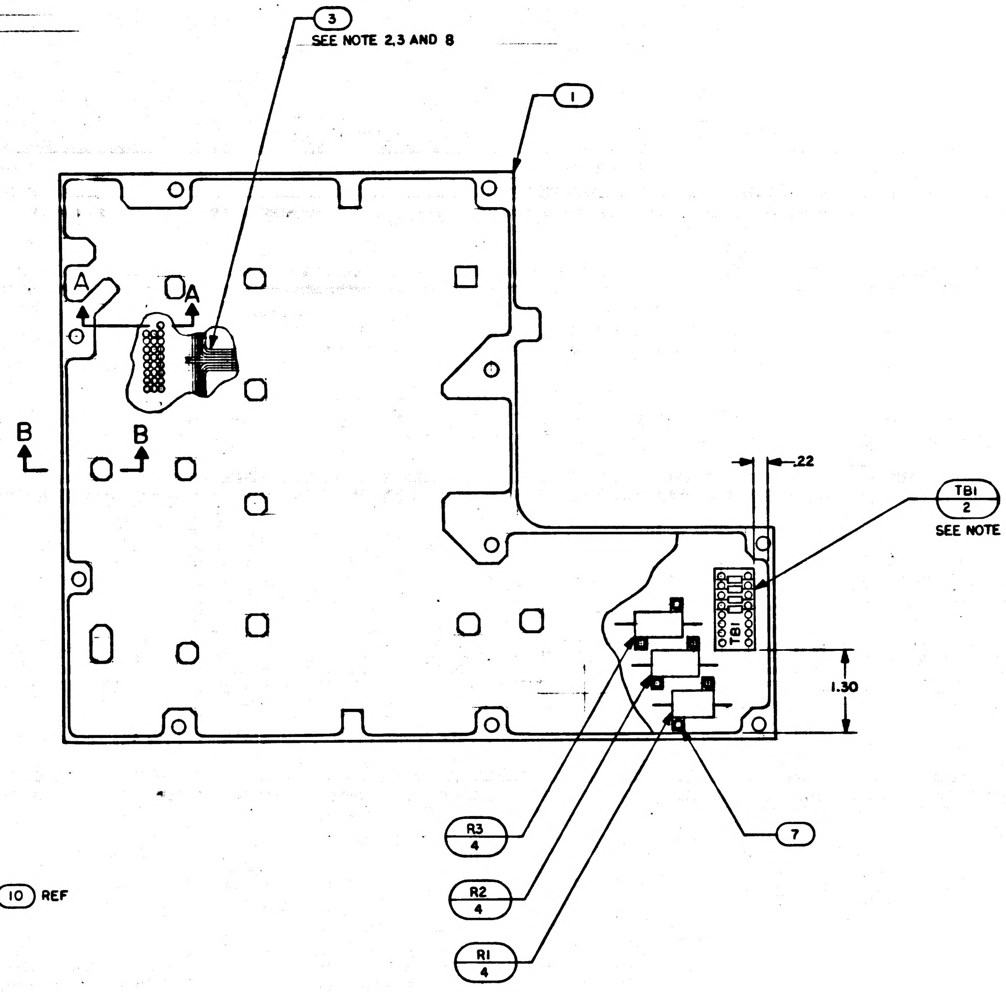
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

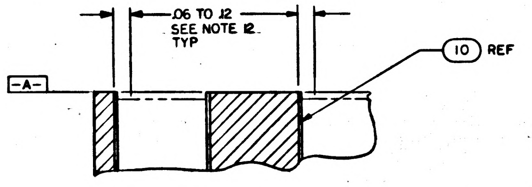

-B-
9
SEE NOTE 13
B .002
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D.
SEE NOTE 13

SECTION C-C
SCALE 4/1
TYP 8 PLACES

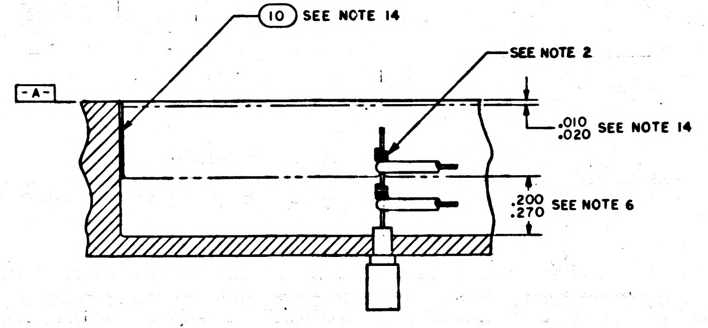








PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071, AND FIND NO. 5 PER ND1002206.
3. SPOT TIE LEAD SET PER ND1002032.
4. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4-8.8 INCH POUNDS.
5. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7-3.0 INCH POUNDS.
6. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
7. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
8. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
9. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007014.
10. IDENTIFY WITH PART NO. PER ND1002019.
11. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
    CONNECTOR J2, USE FIND NO. 6
12. PAINT PER ND1002291 TYPE ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. TWO MILS MAX PAINT THICKNESS.
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY, AS SHOWN IN SECTION C-C PER ND1002004, TYPE I.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

MASTER

6007014

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2004148-009	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014550	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007019	HEADER SUBASSEMBLY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007013	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	E. Miller	4 MAY 66
CHECKED		MAY 66
APPROVED		
APPROVED		9/1/66
APPROVED MIT		5/1/66
APPROVED MSC	A. C. MERCER	
		DATE

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007014

SCALE 1/1 SHEET 1 OF 1

APOLLO G&N Specification
PS6007014 REV -
Original Issue Date:
Release Authority: TDRR 29733
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY OPERATIONAL SIGNAL CONDITIONER (LEM)

DRAWING NO. 6007014

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 8 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	MG Murphy 6-21-66 MIT/IL 16 June '66	D. Jensen 23 May 66 ACSP J. Walisiewicz

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Header Assembly Operational Signal Conditioner, hereafter called the assembly, Part Number 6007014-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007014	Header Assembly Operational Signal Conditioner
6014550	Lead Set AA, Electrical - LEM Operational

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX.

Test/Examination	Requirement	Method
Continuity and DC Resistance	3.1.1	4.3.3
Grounding Pin Resistance	3.1.2	4.3.4
Insulation Resistance	3.1.3	4.3.5
Mounting Screw Insert Resistance	3.1.4	4.3.6
Drawing Compliance	3.2.1	4.3.1

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007014. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. For spare units only, the assembly shall be vibrated with dummy modules which simulate the respective module weight. The proper connector pins shall be wired and monitored for continuity during the vibration test. The assembly shall be mounted on the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the simulated command module X, Y, and Z axes. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.3 inch pp

constant displacement from 10 cps to the crossover frequency. During vibration the continuity of the assembly shall be constantly monitored per Drawing 6014550. Any evidence of discontinuity shall be recorded and shall be cause for rejection. The monitoring circuitry shall have a response time of 10 µsec or less for any open circuit. Workmanship-vibration testing shall be performed on all units other than spares at the higher assembly level with operational modules installed.

4.3.3 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014550 shall be less than 0.5 ohm, with the exception of those pins in Table I. Any readings greater than 0.5 ohm for pins electrically connected as per Drawing 6014550 shall be recorded and shall be cause for rejection. The dc resistance measured between pins listed in Table I shall be as indicated in Table I.

4.3.4 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table II and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.1 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated.

4.3.5 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 dc limited to a short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks.

4.3.6 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw inset resistance shall be calculated using the formula specified in 6.2.a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.2.b and shall be equal to or less than 10 milliohms.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

REVISIONS 27828					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR		11 MAR 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
3. THIS IS AN INCOMPLETE DRAWING.

SEE NOTE 2

SEE NOTE 2

			2			MS16555-27	PIN, GUIDE
			2			MS16555-617	PIN, GUIDE
			1				COVER
			3			1010498-238	RESISTOR, FIXED
			75			1010862	BUSHING, SLEEVE
			64			1010770-2	CONTACT, CRIMP TYPE
			21			1010958-001	PLUG, PROTECTIVE
			1			1010930-001	CONNECTOR, RECEPTACLE, ELEC
			455			1006781-2	CONTACT, WRAPOST
			455			1006774	INSULATOR, WRAPOST
			12			1010620-7	PIN, GUIDE
			6			1010994-001	TERMINAL, WIRE-WRAP
			6			1010995-001	INSULATOR, WRAPOST
			6			1008818-002	CONTACT, WRAPOST, FEMALE
			6			1008819-001	SLEEVE, MIN GROUNDING
			1			6008048	HEADER (INSEP ASSY)
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

-011	6007010-011	
APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — −
3 PLACE DECIMALS + — −
ANGLES + — −

DO NOT SCALE THIS DRAWING

MATERIAL —

APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN A. J. Fluda DATE 2 MAR 66
CHECKED J. GRIEB 8 MAR 66
APPROVAL 8 Mar 66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM-FLIGHT QUALIFICATION

SIZE C
CODE IDENT NO. 80230
6007016

SCALE —
SHEET 1 OF 1

APOLLO G&N Specification
PS6007016 REV A
Original Issue Date: 21 June 1966
Release Authority: TDRR 29723
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY FLIGHT QUAL SIGNAL CONDITIONER (LEM)

DRAWING NO. 6007016

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30308	4,5	EA	---

This specification consists of page 1 to 8 inclusive.

APPROVALS	METZGER NASA/MSC	6-21-66 MIT/IL	D. Jensen 23 May 66 ACSP

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
Continuity and DC Resistance	3.1.1	4.3.2
Grounding Pin Resistance	3.1.2	4.3.3
Insulation Resistance	3.1.3	4.3.4
Mounting Screw Insert Resistance	3.1.4	4.3.5
Drawing Compliance	3.2.1	4.3.1

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007016. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014548 shall be less than 0.5 ohm, with the exception of those pins listed in Table I. Any readings greater than 0.5 ohm for pins electrically connected as per Drawing 6014548 shall be recorded and shall be cause for rejection. The dc resistance measured between the pins listed in Table I shall be as indicated in Table I.

4.3.3 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table II and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.1 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated.

4.3.4 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 vdc limited to short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks.

4.3.5 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw insert resistance shall be calculated using the formula specified in 6.2.a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.2.b and shall be equal to or less than 10 milliohms.

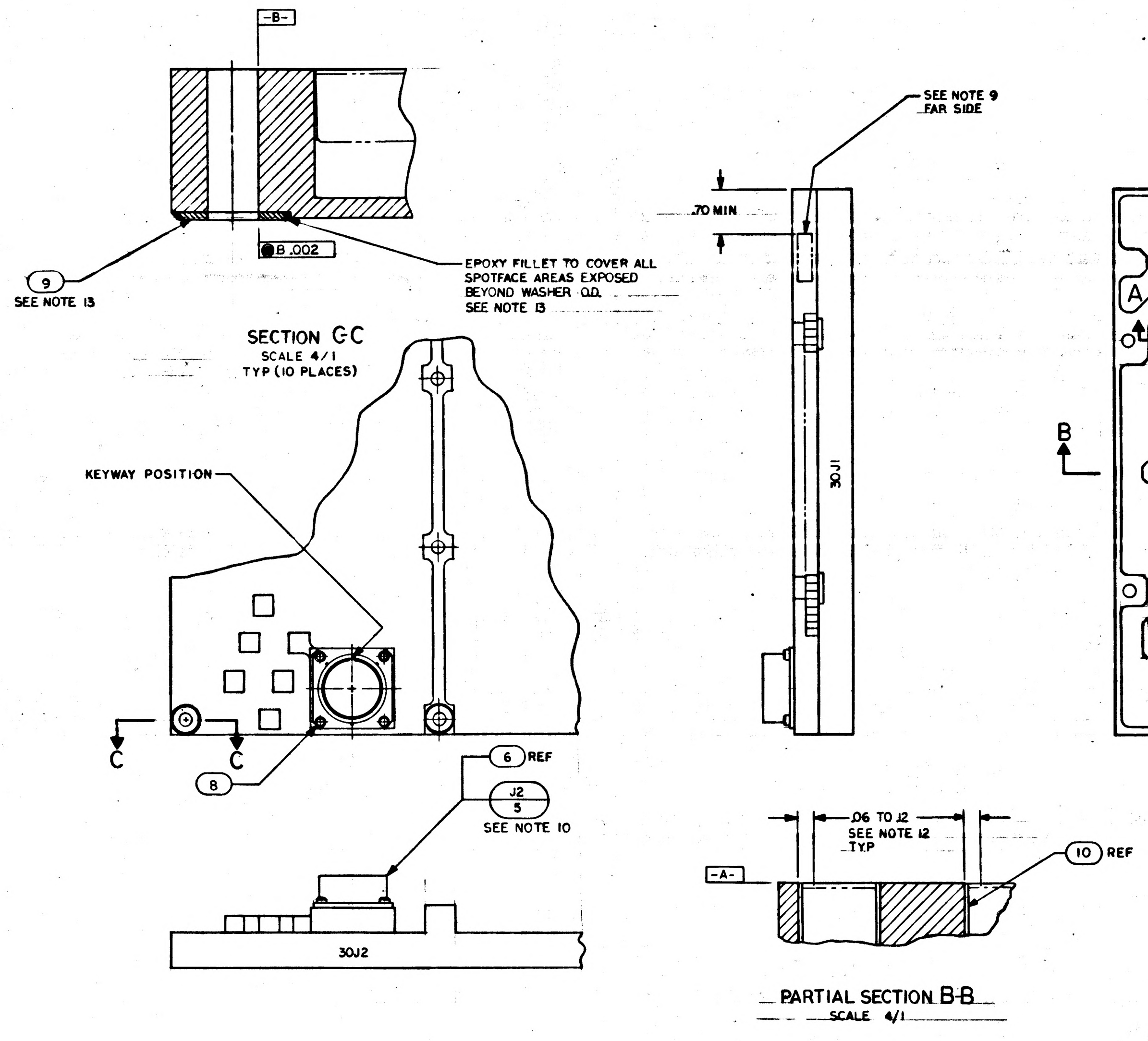
5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

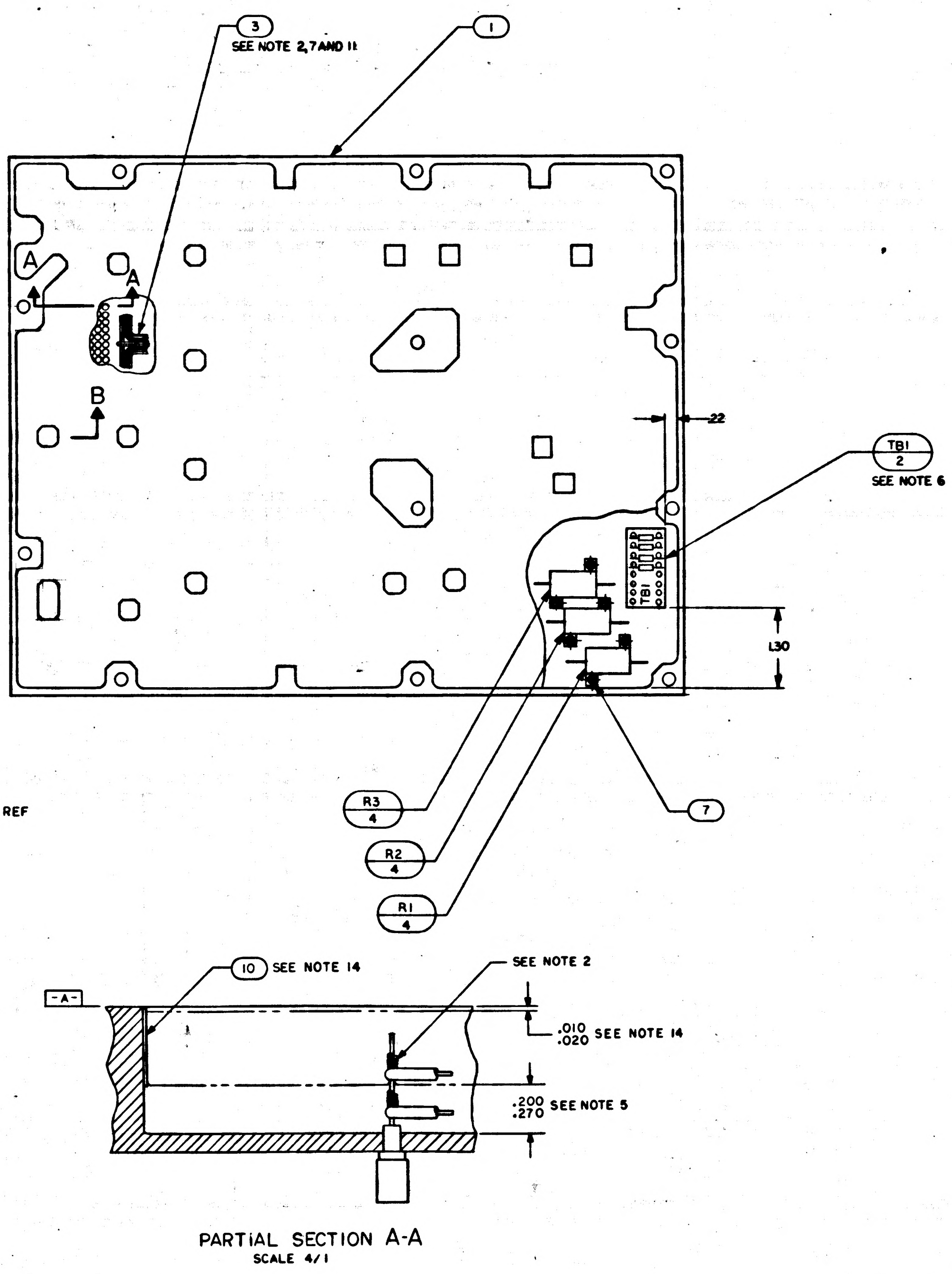
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES REV A WORD DWG PER TDRR 28692	Em		27 APR 66	



-B-
9
SEE NOTE 13
B .002
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D. SEE NOTE 13
SECTION C-C
SCALE 4/1
TYP (10 PLACES)
KEYWAY POSITION
C
C
8
6 REF
J2
5
SEE NOTE 10
30J2
SEE NOTE 9 FAR SIDE
.70 MIN
30J1
.06 TO .12
SEE NOTE 12
TYP
-A-
10 REF
PARTIAL SECTION B-B
SCALE 4/1



3
SEE NOTE 2,7 AND 11
1
A
A
B
B
.22
TB1
2
SEE NOTE 6
TB1
1.30
R3
4
R2
4
R1
4
7
-A-
10
SEE NOTE 14
SEE NOTE 2
.010
.020
SEE NOTE 14
.200
.270
SEE NOTE 5
PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071 AND FIND NO. 5 PER ND1002206.
3. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4–8.8 INCH POUNDS.
4. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7–3.0 INCH POUNDS.
5. ENCAPSULATE PER ND 1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
6. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
7. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
8. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007016.
9. IDENTIFY WITH PART NO. PER ND1002019.
10. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
    CONNECTOR J2, USE FIND NO. 6
11. SPOT TIE LEAD SET PER ND1002032.
12. PAINT PER ND1002291 TYPE ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. 2 MILS MAX. PAINT THICKNESS.
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY AS SHOWN IN SECTION C-C PER ND1002004, TYPE I.
14. FOLLOWING PARTIAL ENCAPSULALATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10, TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO. 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
19	2004148-009	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014548	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007018-011	HEADER SUBASSEMBLY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007010	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. McLellan 12 APR 66
CHECKED 27 Apr 66
APPROVED V. A. Kg 2 May 66
APPROVED 9 May 66
APPROVED MIT M. G. Marley 5 May 66 A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

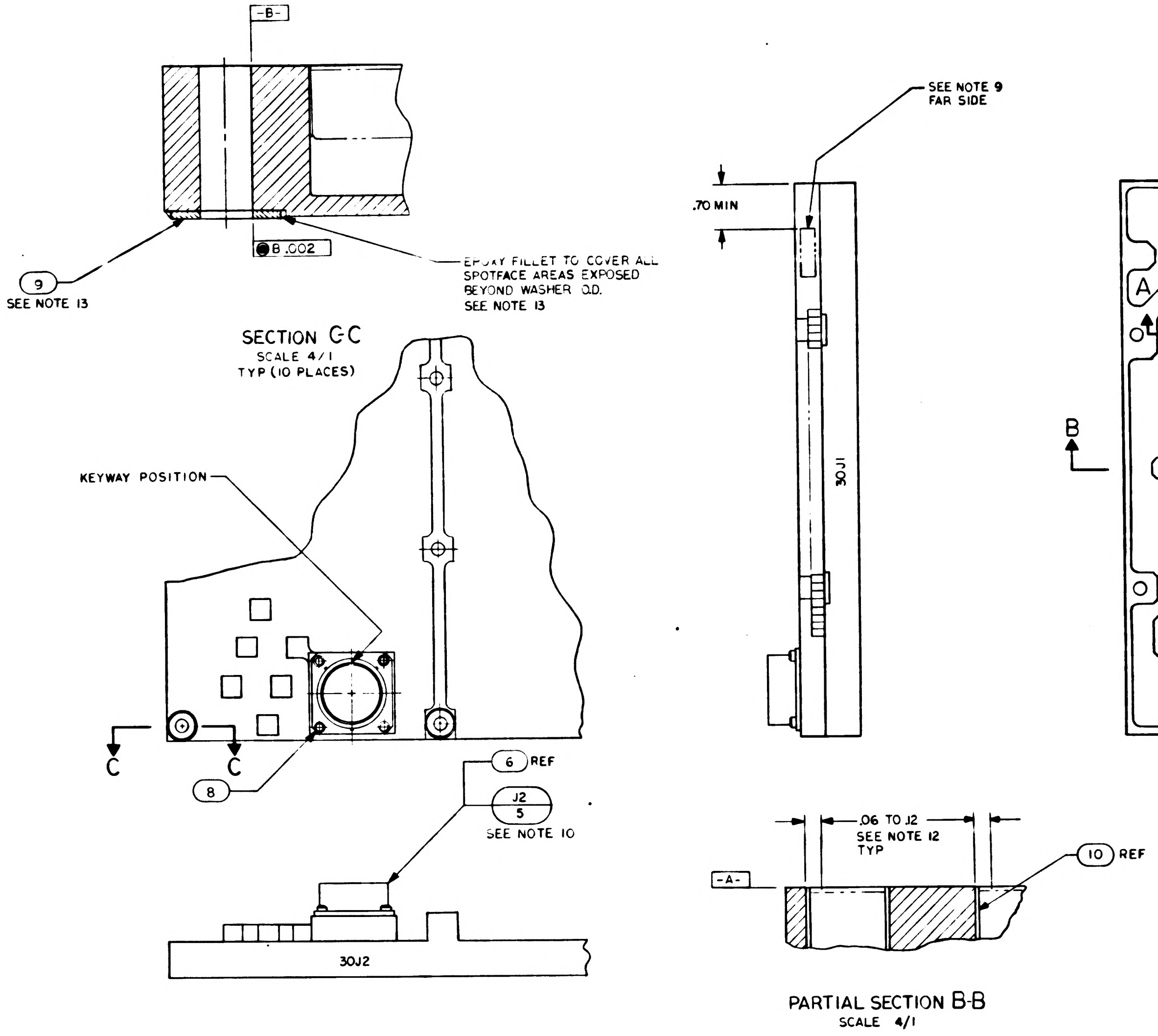
CODE IDENT NO. 80230 SIZE E DRAWING NO. 6007016
SCALE 1/1 SHEET 1 OF 1

6007016 B

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

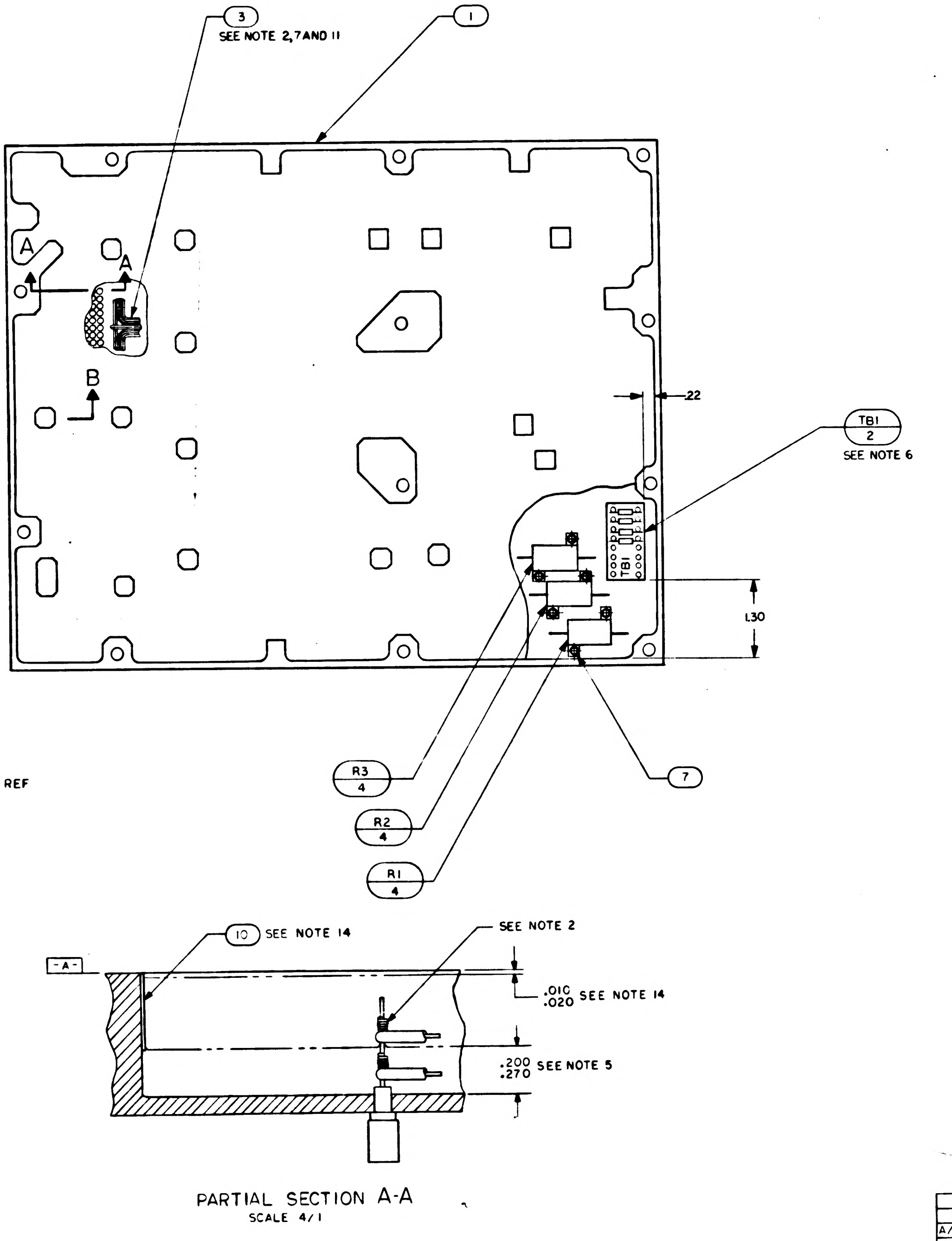
REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES REV A WORD DWG PER TDRR 28692	EM		27 APR 66	
C		REVISED PER TDRR 29766	RWT	AU	27 JUN 66	



SECTION C-C
SCALE 4/1
TYP (10 PLACES)

PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071 AND FIND NO. 5 PER ND1002206.
3. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4–8.8 INCH POUNDS.
4. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7–3.0 INCH POUNDS.
5. ENCAPSULATE PER ND1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A, EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
6. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
7. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
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    CONNECTOR J2 USE FIND NO. 6
11. SPOT TIE LEAD SET PER ND1002032.
12. PAINT PER ND1002291 ALL $\boxed{-A-}$ SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL $\boxed{-A-}$ SURFACES PER SECTION B-B. 2 MILS MAX. PAINT THICKNESS.
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1	6007018-011	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007010	
APPLICATION	

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DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	E. Miller	12 APR 66
CHECKED		27 Apr 66
APPROVED	T. G. Kaneim	2 May 66
APPROVED		9 May 66
APPROVED MIT		5-11-66
	A. C. METZGER	
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO	SIZE	DRAWING NO.
80230	E	6007016
SCALE 1/1		SHEET 1 OF 1

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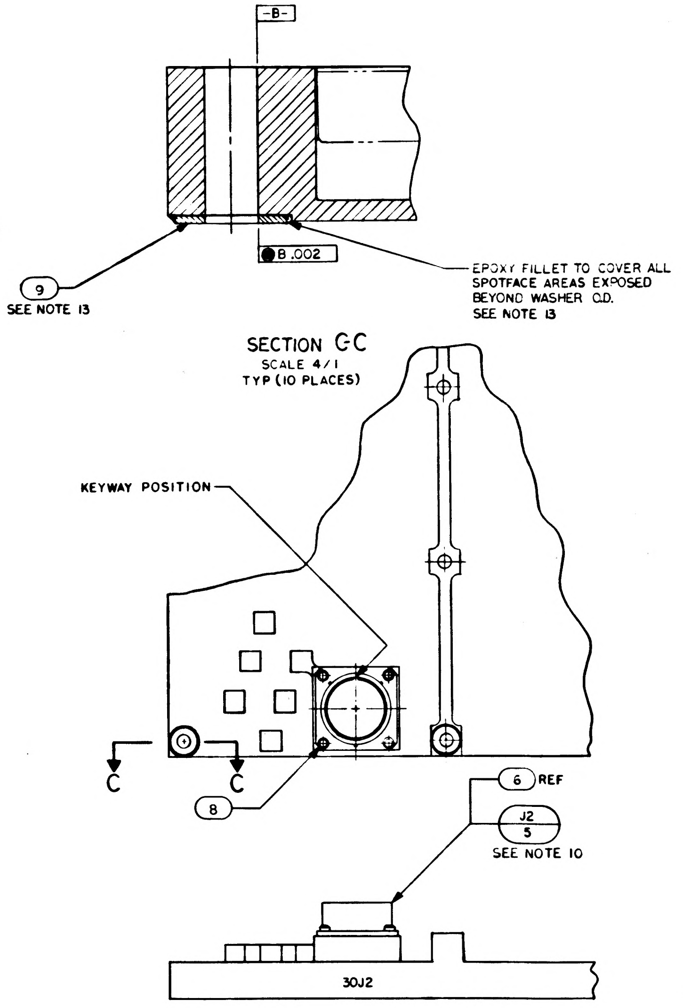
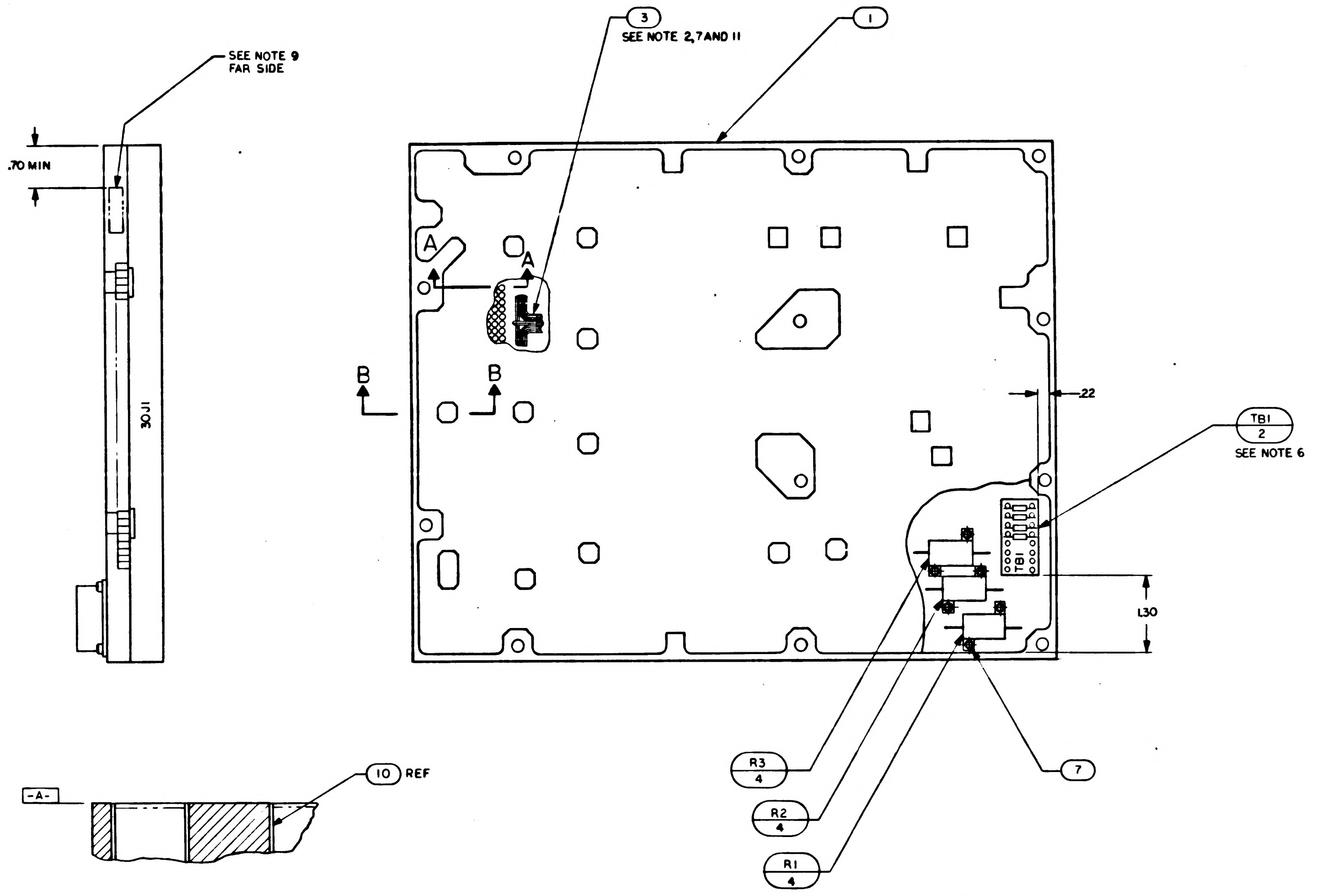
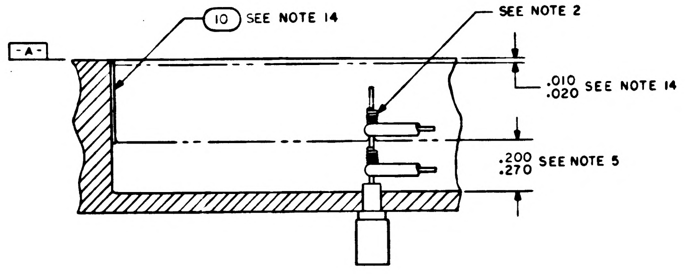
D		REVISED PER TDRR 30606	JJB	JI	17 AUG 66	





PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

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1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
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011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007010	

APPLICATION

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DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 12 APR 66
CHECKED 27 Apr 66
APPROVED V. G. Koenig 2 May 66
APPROVED 9 May 66
APPROVED MIT A. C. METZGER 5-11-66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO 80230
SIZE E
DRAWING NO 6007016
SCALE 1/1
SHEET 1 OF 1

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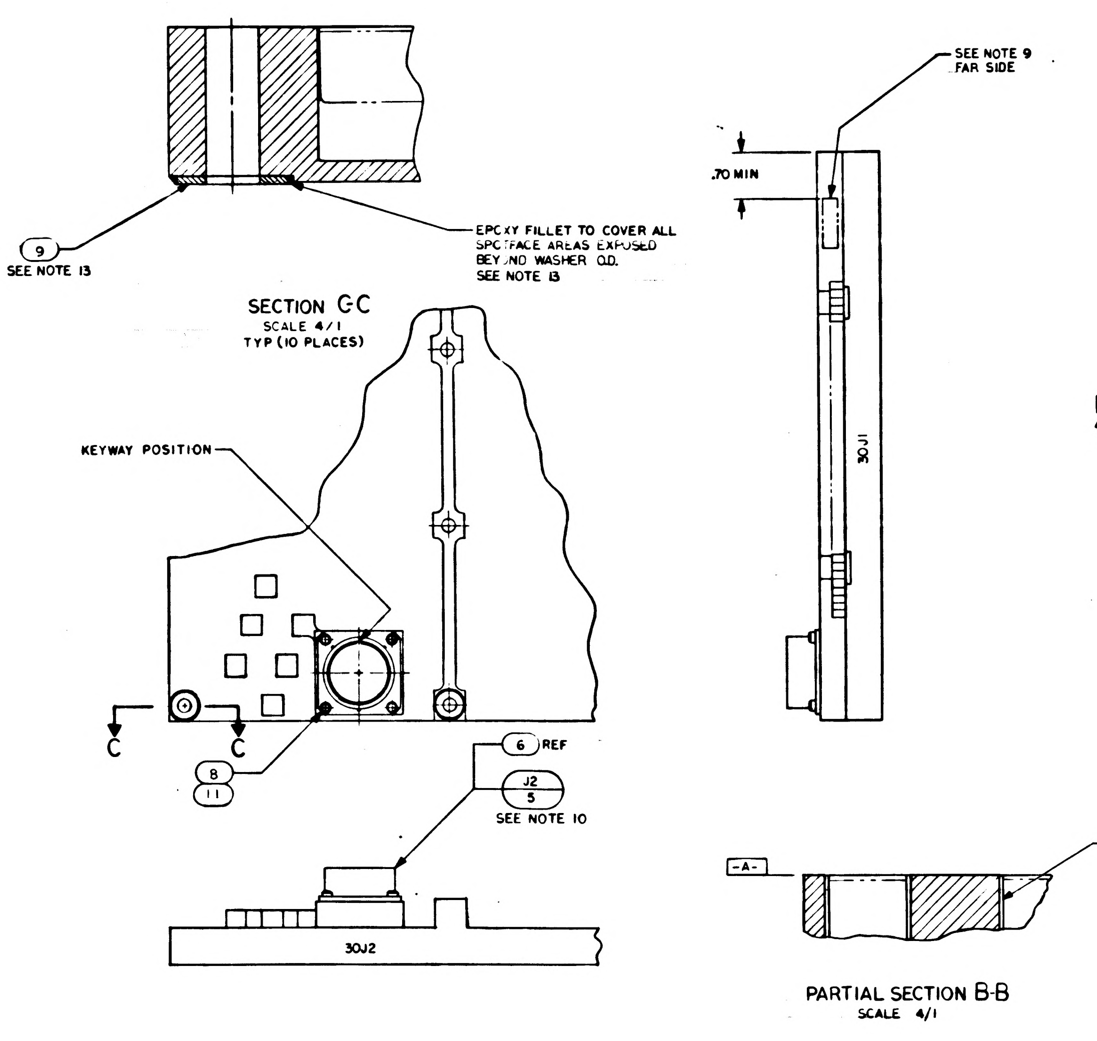
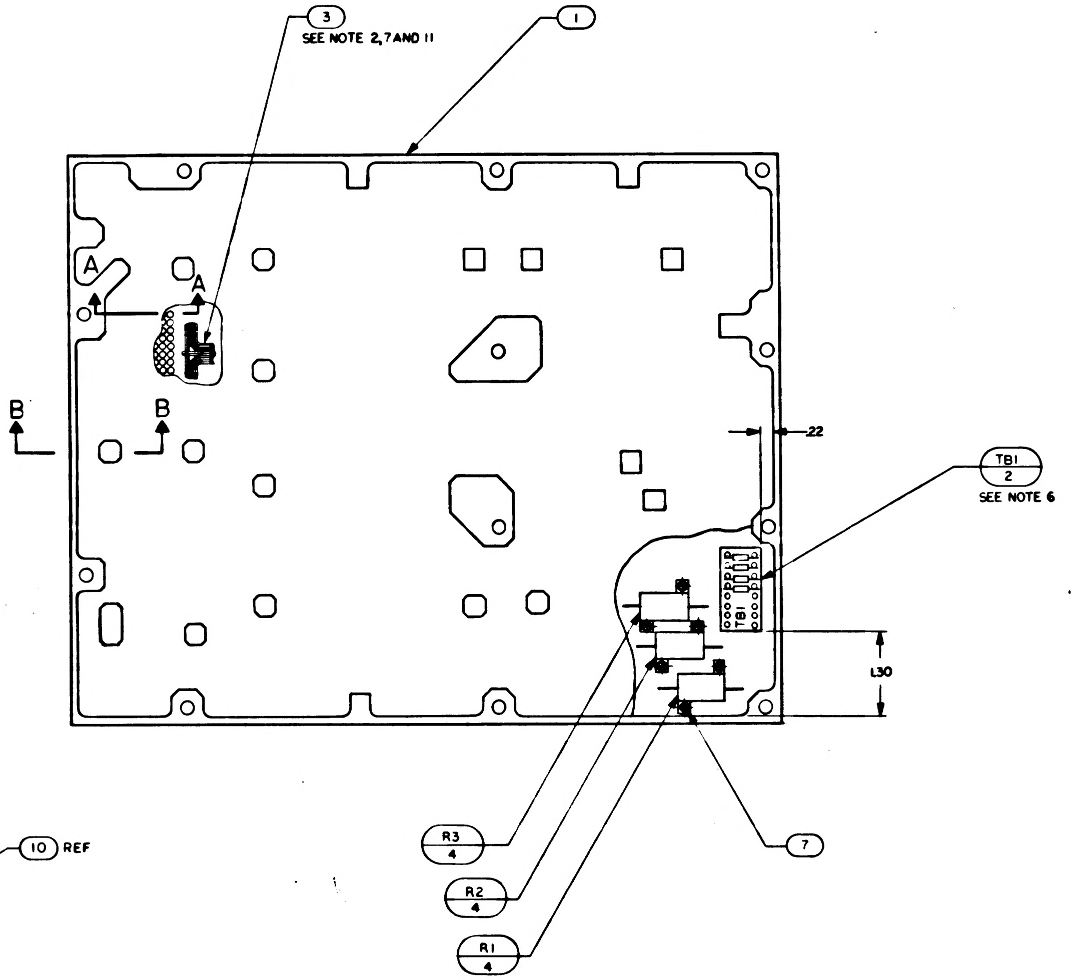
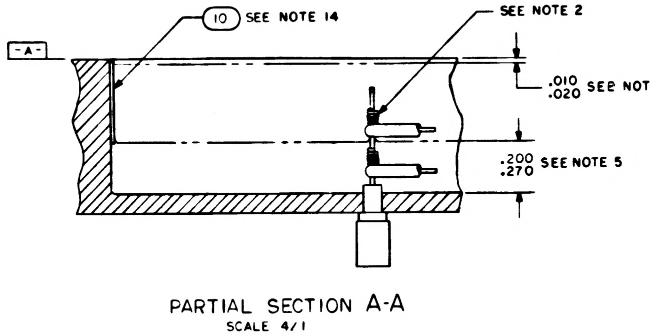
C		REVISED PER TDRR 29766	RW.T.	AU	27 JUN 66	
D		REVISED PER TDRR 30606	JJB	JI	17 AUG 66	
E		REVISED PER TDRR 30907	JJB	NS	3SEP66	







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14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5; ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10 TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5 ENCAPSULANT MENISCUS TO SURFACE -A-. FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE NO 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISABLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.

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A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2010752-003	WASHER, FLAT	9
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011 LIST OF MATERIALS

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007016
SCALE 1/1
SHEET 1 OF 1

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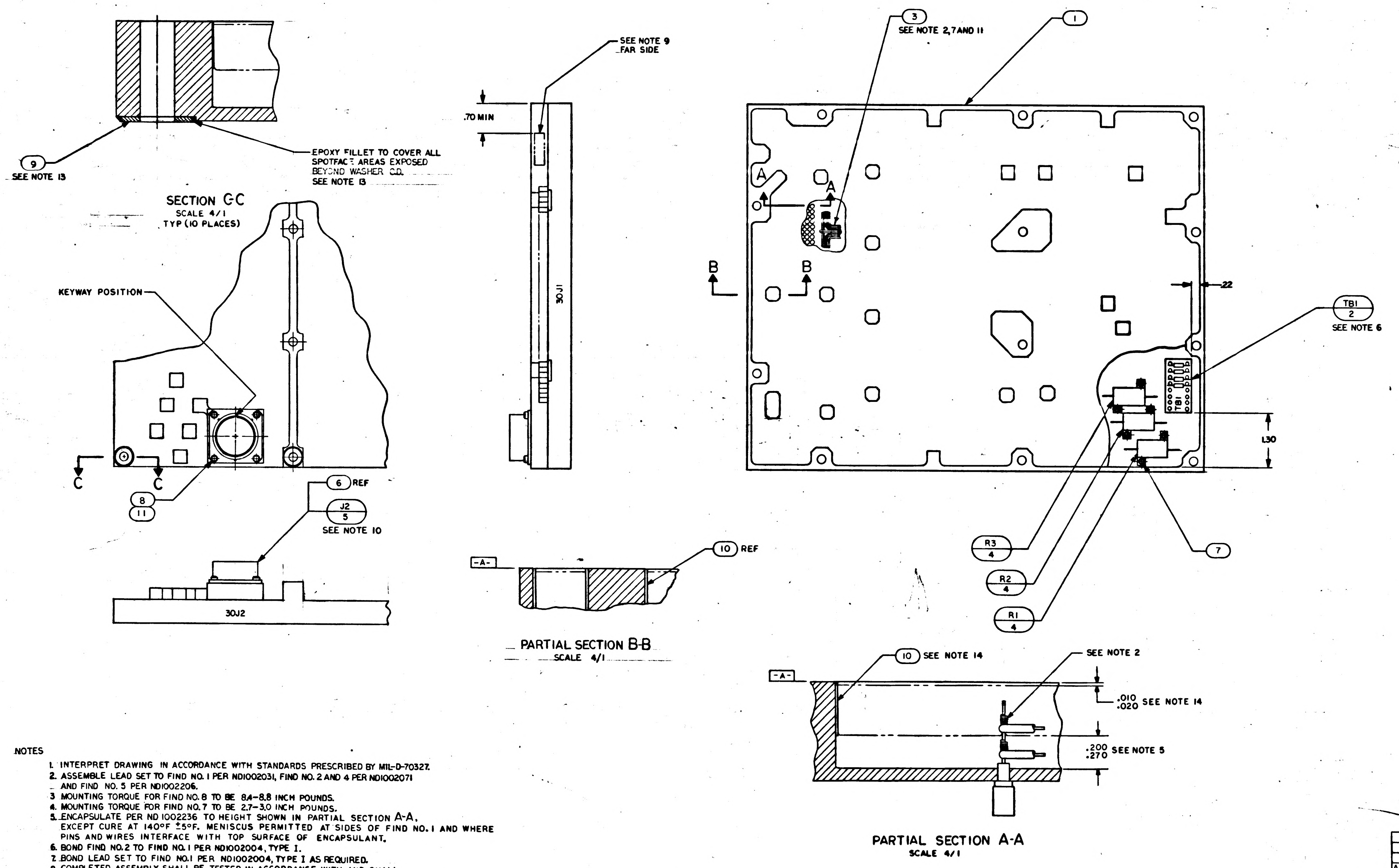
F		REVISED PER TDRR 32272	V.M	RW	12 DEC 66	



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15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
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INSTRUMENTATION LAB
CAMBRIDGE, MASS.

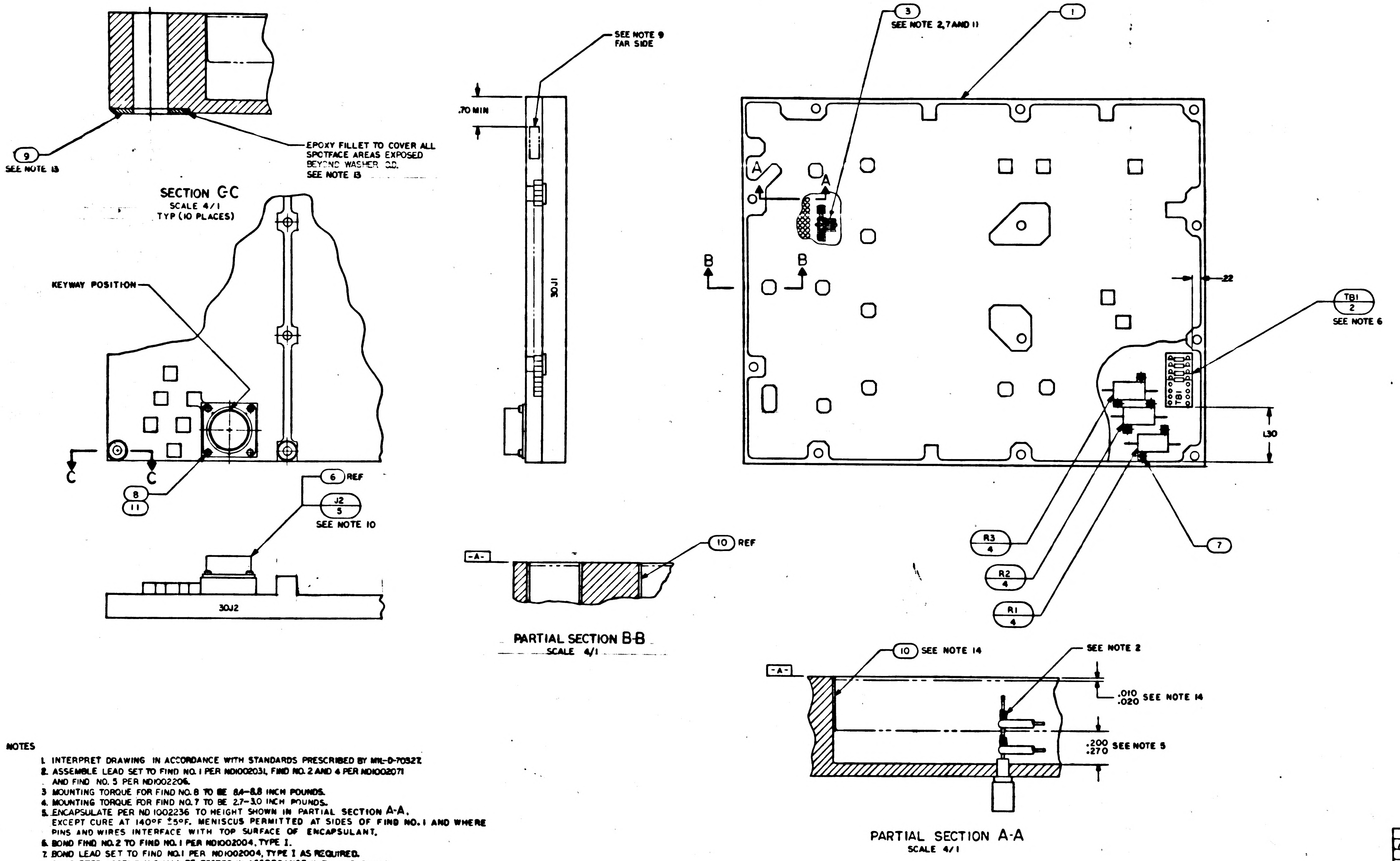
DRAWN E. Millen 12 APR 66
CHECKED 27 Apr 66
APPROVED V. A. Kovvin 2 May 66
APPROVED 2 May 66
APPROVED MIT 5 May
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007016
SCALE 1/1
SHEET 1 OF 1

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES REV A WORD DWG PER TDRR 28692	Em		27 APR 66	
C		REVISED PER TDRR 29766	RWT.	AU	27 JUN 66	
D		REVISED PER TDRR 30606	JJB	JI	17 AUG 66	
E		REVISED PER TDRR 30807	JJB	NS	8 SEP 66	
F		REVISED PER TDRR 32272	V.M		12 DEC 66	
G		REVISED PER TDRR 33074	RM			


SECTION C-C
SCALE 4/1
TYP (10 PLACES)
9
SEE NOTE 13
EPOXY FILLET TO COVER ALL SPOTFACE AREAS EXPOSED BEYOND WASHER O.D.
SEE NOTE 13
KEYWAY POSITION
C
C
8
11
6 REF
J2
5
SEE NOTE 10
30J2
SEE NOTE 9
FAR SIDE
.70 MIN
30J1
-A-
10 REF
PARTIAL SECTION B-B
SCALE 4/1
3
SEE NOTE 2,7 AND 11
1
A
A
B
B
.22
TB1
2
SEE NOTE 6
TB1
1.30
R3
4
R2
4
R1
4
7
-A-
10 SEE NOTE 14
SEE NOTE 2
.010
.020 SEE NOTE 14
.200
.270 SEE NOTE 5
PARTIAL SECTION A-A
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE LEAD SET TO FIND NO. 1 PER ND1002031, FIND NO. 2 AND 4 PER ND1002071 AND FIND NO. 5 PER ND1002206.
3. MOUNTING TORQUE FOR FIND NO. 8 TO BE 8.4–8.8 INCH POUNDS.
4. MOUNTING TORQUE FOR FIND NO. 7 TO BE 2.7–3.0 INCH POUNDS.
5. ENCAPSULATE PER ND 1002236 TO HEIGHT SHOWN IN PARTIAL SECTION A-A. EXCEPT CURE AT 140°F ±5°F. MENISCUS PERMITTED AT SIDES OF FIND NO. 1 AND WHERE PINS AND WIRES INTERFACE WITH TOP SURFACE OF ENCAPSULANT.
6. BOND FIND NO. 2 TO FIND NO. 1 PER ND1002004, TYPE I.
7. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
8. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL REQUIREMENTS OF PS6007016.
9. IDENTIFY WITH PART NO. PER ND1002019.
10. ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND SEALING PLUG AS FOLLOWS.
    CONNECTOR J2. USE FIND NO. 6
11. SPOT TIE LEAD SET PER ND1002032, USING FIND NO 12.
12. ~~PAINT PER ND100[illegible] ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. 2 MILS MAX PAINT THICKNESS.~~
13. BOND FIND NO. 9 TO FIND NO. 1 AT O.D. OF FIND NO. 9 ONLY AS SHOWN IN SECTION C-C PER ND1002004 TYPE I. DO NOT ALLOW FIND NO. 9 TO OVERLAP THE HOLE. BEFORE APPLYING ADHESIVE, CLAMP NO 9 TO FIND NO. 1 WITH A SCREW TORQUE OF 27 TO 32 IN. LB. NO ADHESIVE PERMITTED ON OR ABOVE TOP SURFACE OF WASHER OR BEYOND EDGE OF FLANGE.
14. FOLLOWING PARTIAL ENCAPSULATION PER NOTE 5, ADD ONE LAYER OF TEFLON TAPE, FIND NO. 10 TO ALL INSIDE EDGES OF FIND NO. 1. COVER THE AREA BETWEEN THE TOP OF THE NOTE 5. ENCAPSULANT MENISCUS TO SURFACE -A-, FOAM FILL PER ND 1002002 TO HEIGHT SHOWN IN PARTIAL SECTION A-A USING FOAM SYSTEM B AND CURING CYCLE. NO 2. SEPARATION BETWEEN CURED FOAM AND TEFLON TAPE IS PERMISSIBLE. AVERAGE DENSITY OF CURED FOAM SHALL NOT EXCEED 20 POUNDS PER CUBIC FOOT.
15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING FREON, ISO-PROPYL ALCOHOL AND DISTILLED WATER.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	1012555-002	LACING TAPE	12
4	2010752-004	WASHER, FLAT	11
A/R	1008895-003	TAPE, PRESSURE SENSITIVE, TEFLON	10
10	2010752-003	WASHER, FLAT	9
4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	1008874-002	SCREW, CAP SOCKET HEAD	7
27	1010958-001	PLUG, PROTECTIVE	6
1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	1010498-238	RESISTOR-FIXED	4
1	6014548	LEAD SET AA	3
1	6007040	TERMINAL BOARD ASSY, BUFFER RESISTORS	2
1	6007018-011	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007010	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. M
CHECKED
APPROVED
APPROVED
APPROVED MIT A. C. METZGER
APPROVED MSC
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CODE IDENT NO. 80230
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DRAWING NO. 6007016
SCALE 1/1
SHEET 1 OF 1

SYM	ZONE					
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C		REVISED PER TDRR 29766		AU	27 JUN	
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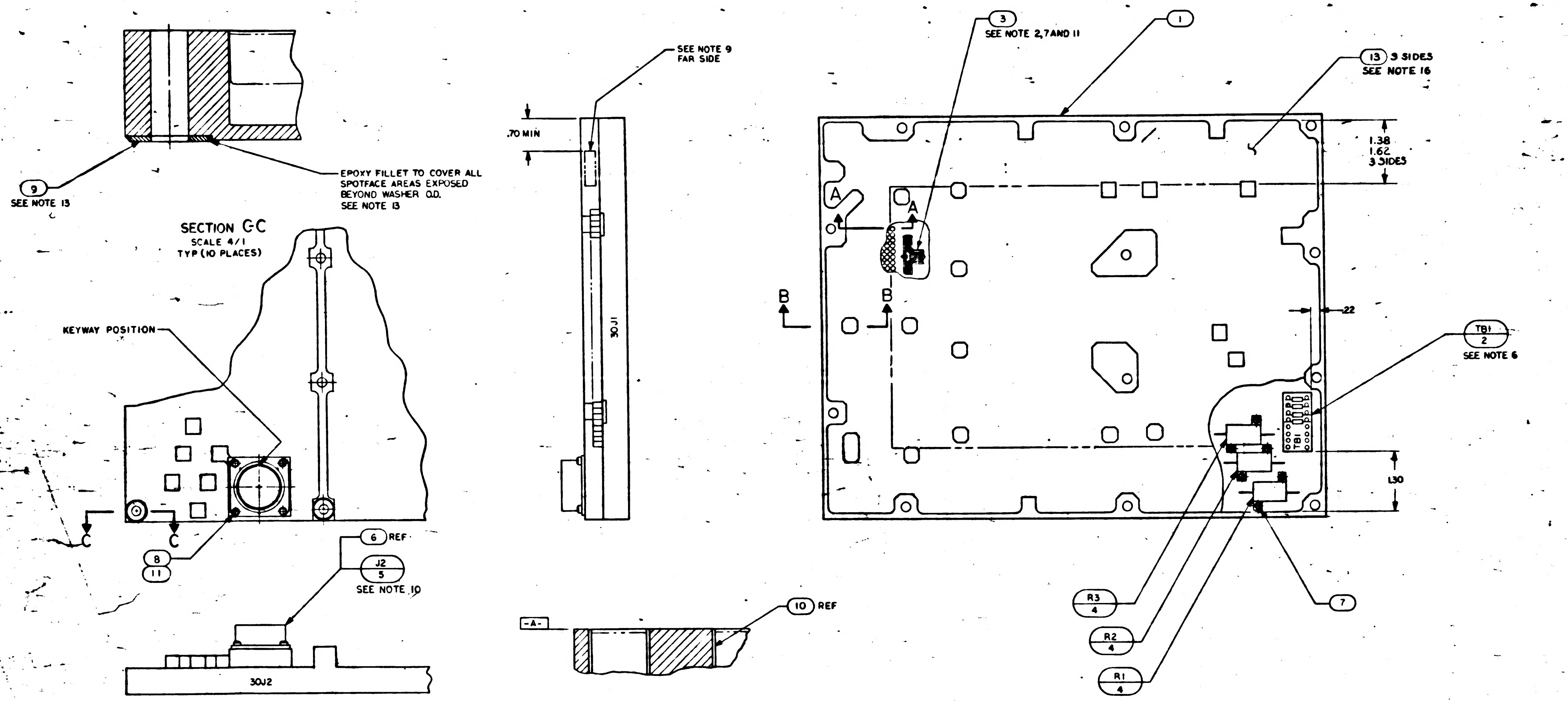
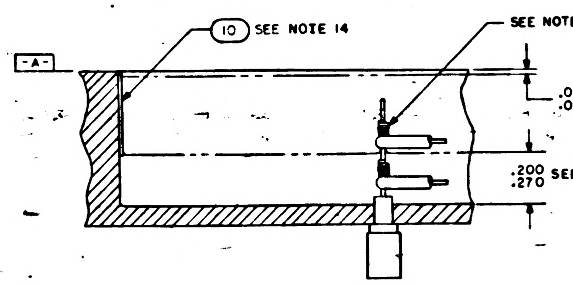
G		REVISED PER TDRR 33074	RM			
H		REVISED PER TDRR 34550	GD		20 SEP	



SECTION C-C
SCALE 4/1
TYP (10 PLACES)

PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
SCALE 4/1

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    CONNECTOR J2. USE FIND NO. 6
11. SPOT TIE LEAD SET PER ND1002032, USING FIND NO. 12.
12. ~~PAINT PER ND1002[illegible] ALL -A- SURFACES AND OVERLAP PAINT ONTO ENCAPSULANT AROUND ALL -A- SURFACES PER SECTION B-B. 2 MILS MAX. PAINT THICKNESS.~~
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16. THERMAL INTERFACE SURFACE PLANE -A- MUST BE FREE OF ALUMINUM FOIL TAPE. GAP BETWEEN EDGE OF FOIL AND INNER WALL SURFACE OF HEADER MUST NOT EXCEED .03. ALUMINUM FOIL SHALL BE FLUSH OR BELOW PLANE -A-. NOT APPLICABLE TO DASH -011. ADJACENT STRIPS OF FOIL TO OVERLAP .25 MINIMUM.

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	–	1008937-007	TAPE, PRESSURE SENSITIVE ALUM. FOIL BACKED	13
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10	10	2010752-003	WASHER, FLAT	9
4	4	1008874-009	SCREW, CAP, SOCKET HEAD	8
6	6	1008874-002	SCREW, CAP, SOCKET HEAD	7
27	27	1010958-001	PLUG, PROTECTIVE	6
1	1	1010930-001	CONNECTOR, RECEPTACLE, ELECTRICAL	5
3	3	1010498-238	RESISTOR-FIXED	4
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1	1	6007018-011	HEADER SUBASSEMBLY	1
021	011		LIST OF MATERIALS	

NEXT ASSY	USED ON
6007010	

APPLICATION

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TOLERANCES ON
FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller
CHECKED
APPROVED
APPROVED
APPROVED MIT
A. C. METZGER
APPROVED MSC
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE-IDENT NO 80230
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SCALE 1/1
SHEET

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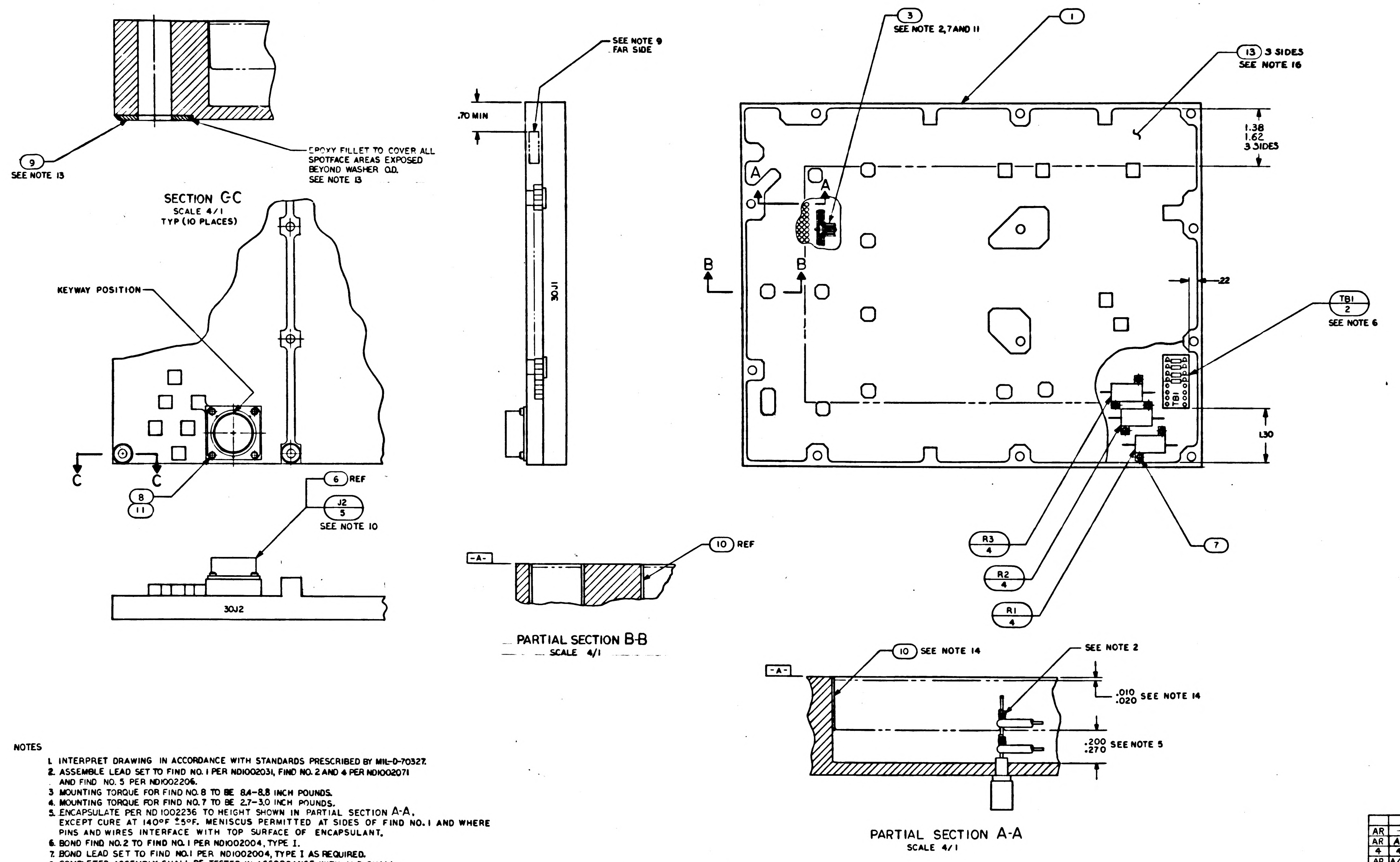
D		REVISED PER TDRR 30606	JJB	JI	17 AUG 66		
E		REVISED PER TDRR 30907	JJB	NS	9 SEP 66		
F		REVISED PER TDRR 32272	V.M	Rw	12 DEC 66		
G		REVISED PER TDRR 33074	RM	EB	9 MAR 67		
H		REVISED PER TDRR 34550	GD		20 SEP 67		
J		REVISED PER TDRR 34606	DJC	AL	25 SEP 67		



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6007010	
NEXT ASSY	USED ON
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FRACTIONS ± — DECIMALS ±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. McMillan 28 APR 66
CHECKED 27 Apr 66
APPROVED
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MANNED SPACECRAFT CENTER
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SIGNAL COND'TONER
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SHEET 1 OF 1

NOTICE – [illegible]

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G		REVISED PER TDRR 33074	RM		[illegible]	
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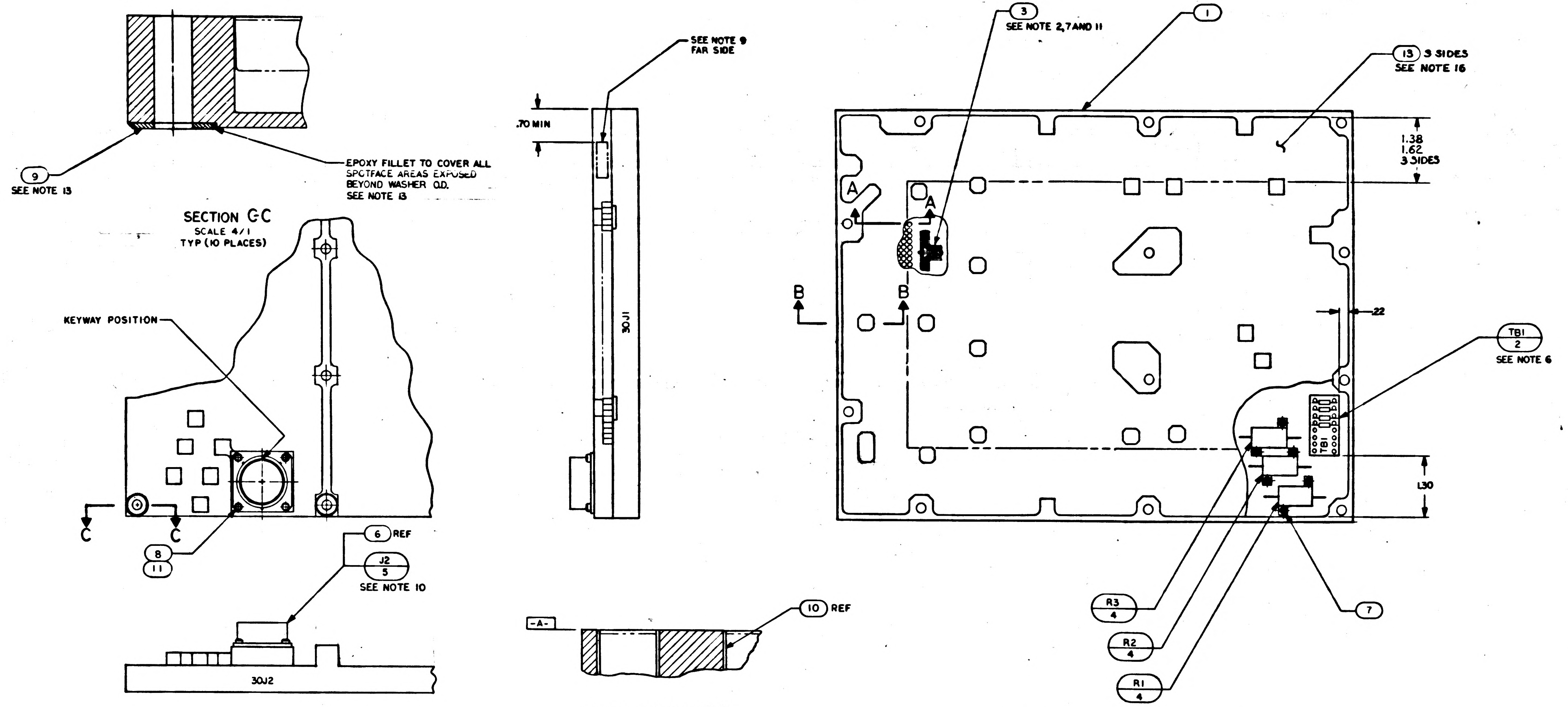
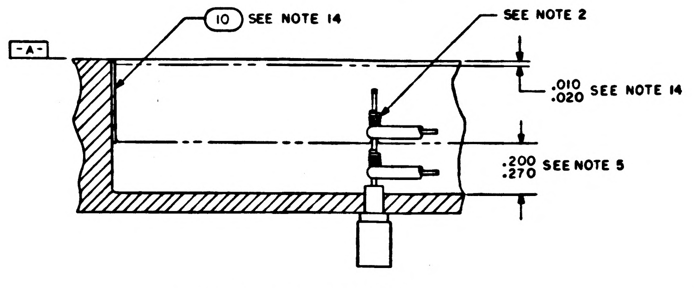
K		REVISED PER TDRR 35037	JWL	CF	[illegible]	



PARTIAL SECTION B-B
SCALE 4/1



PARTIAL SECTION A-A
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15. PAINT THERMAL INTERFACE, PLANE -A- AND ALL EXPOSED SURFACES OF ENCAPSULANT PER ND 1002291, TYPE I, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS IN PLANE -A- TO BE .002 INCH MAX. CLEAN SURFACES TO BE PAINTED USING DISTILLED WATER, ISO-PROPYL ALCOHOL, AND FREON TF.
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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 12 APR 66
CHECKED [illegible]
APPROVED V. A. [illegible]
APPROVED [illegible]
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APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007016
SCALE 1/1
SHEET 1 OF 1

APOLLO G&N Specification
PS6007016 REV -
Original Issue Date: 21 June 1966
Release Authority: TDRR 29723
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY FLIGHT QUAL SIGNAL CONDITIONER (LEM)

DRAWING NO. 6007016

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 8 inclusive.

APPROVALS	METZGER NASA/MSC	M G Murley 6-21-66 MIT/IL 16 June 66	D. Jensen 23 May 66 ACSP	J. Waliszewig

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Header Assembly Flight Qual Signal Conditioner, hereafter called the assembly, Part Number 6007016-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007016	Header Assembly Flight Qual Signal Conditioner
6014548	Lead Set AA, Electrical - Flight Qual

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer).

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO, Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 Continuity and DC Resistance. Continuity shall be as specified on Drawing 6014548. All pins electrically connected except those shown in Table I.shall exhibit dc resistance of 0.5 ohms or less. The dc resistance between pins listed in Table I shall be as shown in Table I.

TABLE I

DC RESISTANCE

FROM PIN	TO PIN	RESISTANCE (ohms)
J2-41	J8-49	10.0K ±2%
J2-41	J3-26	10.0K ±2%
J2-41	J1-C17	10.0K ±2%
J2-65	J3-20	10.0K ±2%
J2-45	J1-B16	2.0K ±2%
J2-42	J8-2	10.0K ±2%
J1-C17	J2-66	29.4 ±5%
J1-C17	J2-67	29.4 ±5%
J1-C17	J2-68	29.4 ±5%

3.1.2 Grounding Pin Resistance. Each pin listed in Table II shall exhibit a dc resistance of 15 milliohms or less to the frame.

TABLE II

GROUNDING PINS

PIN	PIN
J1-B17	J1-G14
J1-C35	J3-1
J1-C36	J4-1
J1-F19	J5-1
J1-F20	J6-1
	J7-1
	J8-1

3.1.3 Insulation Resistance. The resistance between each network and all other networks shall be greater than or equal to 100 megohms.

3.1.4 Mounting Screw Insert Resistance. The parallel resistance, from mounting screw to header frame, of all mounting screw inserts surrounding connector J1 shall be equal to or less than 10 milliohms.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007016 and all drawings and engineering data referenced thereon.

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
Continuity and DC Resistance	3.1.1	4.3.3
Grounding Pin Resistance	3.1.2	4.3.4
Insulation Resistance	3.1.3	4.3.5
Mounting Screw Insert Resistance	3.1.4	4.3.6
Drawing Compliance	3.2.1	4.3.1

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007016. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. For spare units only, the assembly shall be vibrated with dummy modules which simulate the respective module weight. The proper connector pins shall be wired and monitored for continuity during the vibration test. The assembly shall be mounted on the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the simulated command module X, Y, and Z axes. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.3 inch pp

constant displacement from 10 cps to the crossover frequency. During vibration the continuity of the assembly shall be constantly monitored per Drawing 6014548. Any evidence of discontinuity shall be recorded and shall be cause for rejection. The monitoring circuitry shall have a response time of 10 μsec or less for any open circuit. Workmanship-vibration testing shall be performed on all units other than spares at the higher assembly level with operational modules installed.

4.3.3 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014548 shall be less than 0.5 ohm, with the exception of those pins listed in Table I. Any readings greater than 0.5 ohm for pins electrically connected as per Drawing 6014548 shall be recorded and shall be cause for rejection. The dc resistance measured between the pins listed in Table I shall be as indicated in Table I.

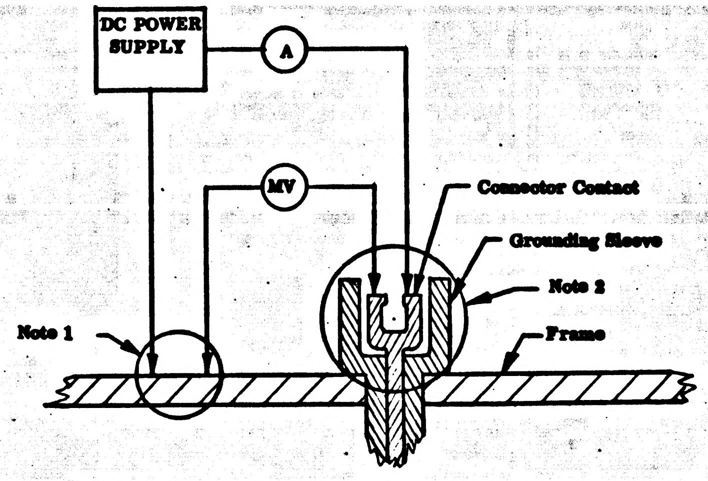
4.3.4 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table II and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.1 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated.

4.3.5 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 vdc limited to short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks.

4.3.6 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw insert resistance shall be calculated using the formula specified in 6.2.a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.2.b and shall be equal to or less than 10 milliohms.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

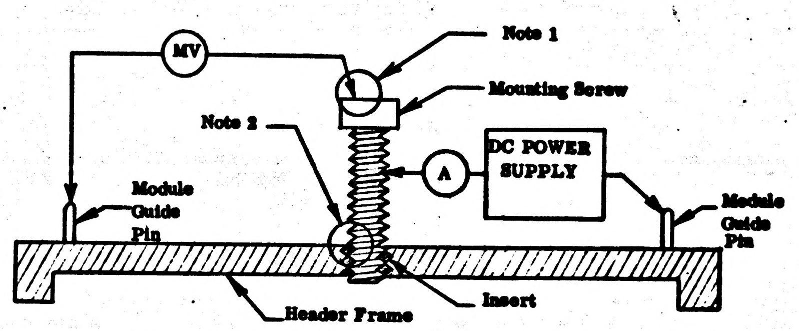

DC POWER SUPPLY
A
MV
Connector Contact
Grounding Sleeve
Note 2
Frame
Note 1

NOTE 1: Connections to be made at separate points on an anodize free surface or at separate module guide pins.

NOTE 2: Connection to be made using a two section simulated male pin which provides electrical isolation between the supply and voltmeter leads.

GROUNDING PIN RESISTANCE MEASUREMENT

FIGURE 1


Note 1
MV
Mounting Screw
Note 2
DC POWER SUPPLY
A
Module Guide Pin
Module Guide Pin
Insert
Header Frame

NOTE 1: Voltmeter probe shall be separate from power supply probe and each shall contact the screw at separate points.

NOTE 2: Mounting screws shall be tightly engaged to ensure good electrical contact with the mounting screw insert.

MOUNTING SCREW INSERT RESISTANCE MEASUREMENT

FIGURE 2

6. NOTES

6.1 GROUNDING PIN RESISTANCE EQUATION. Grounding pin resistance shall be calculated using the following equation:

$$R = \frac{E}{I} \text{ milliohms}$$

where: E is the millivoltmeter indication
I is the ammeter indication

6.2 MOUNTING SCREW INSERT RESISTANCE

a. The resistance of each mounting screw insert shall be calculated using the following formula:

$$R = \frac{E}{I}$$

where: E is the voltmeter indication
I is the ammeter indication

b. The parallel resistance of all the mounting screw inserts surrounding the connector shall be calculated using the following formula:

$$R_{Total} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \cdots + \frac{1}{R_n}}$$

where: R_1, R_2, R_n are the resistance of each of the inserts surrounding the connector.

JW:ims

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REVISIONS 28627

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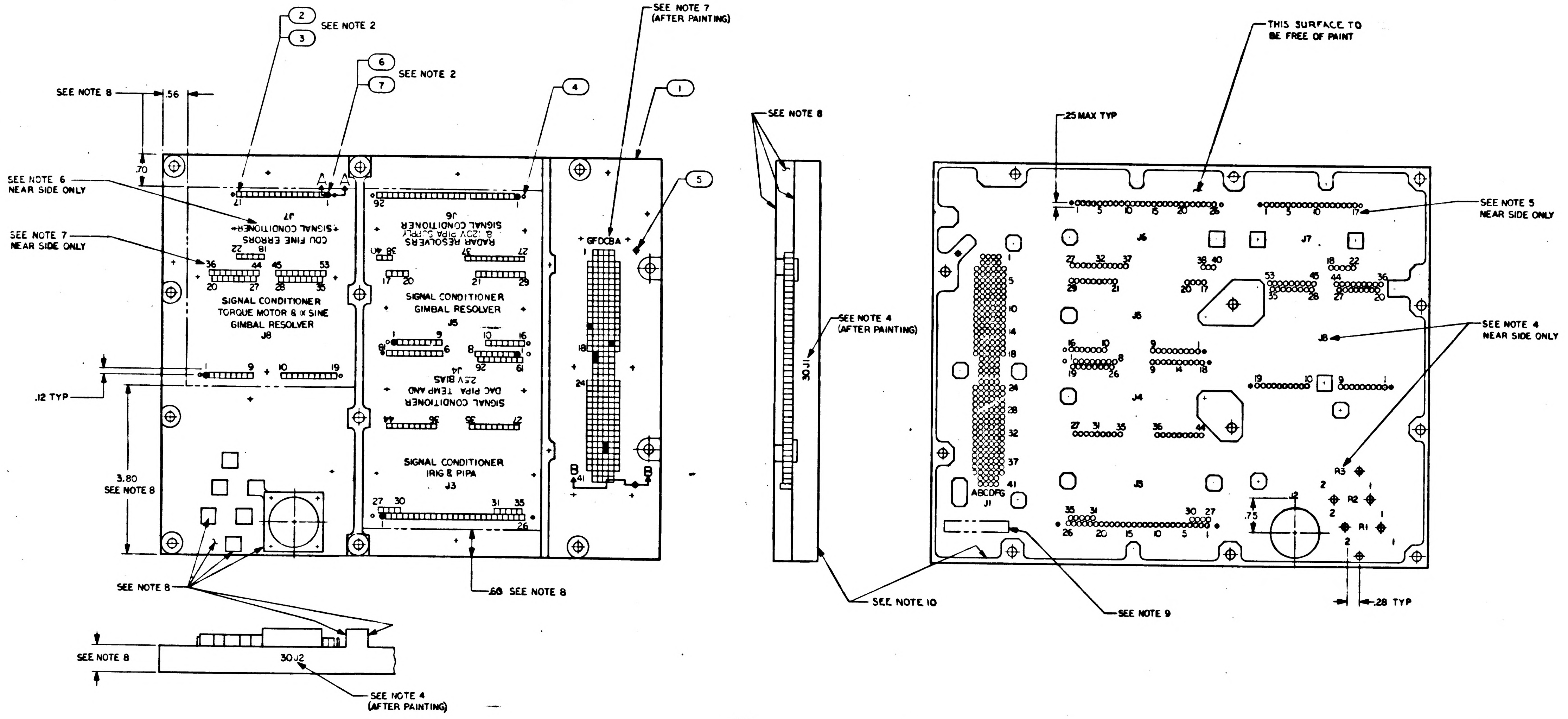
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SEE NOTE 2
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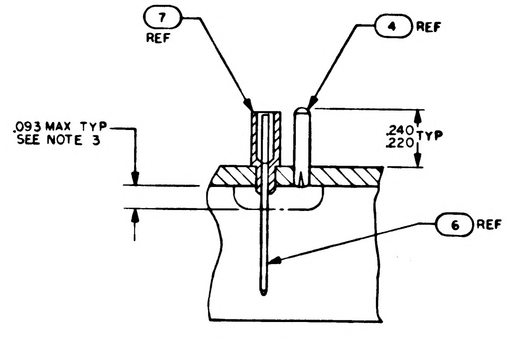
SEE NOTE 7
(AFTER PAINTING)
SEE NOTE 8
.56
.70
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
A
A
J7
SIGNAL CONDITIONER
CDU FINE ERRORS
SIGNAL CONDITIONER
TORQUE MOTOR & IX SINE
GIMBAL RESOLVER
J8
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
J4
SIGNAL CONDITIONER
DAC PIPA TEMP AND
25V BIAS
SIGNAL CONDITIONER
IRIG & PIPA
J3
GFDCBA
B
B
.12 TYP
3.80
SEE NOTE 8
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
SEE NOTE 8
SEE NOTE 4
(AFTER PAINTING)
30J1
SEE NOTE 10
.25 MAX TYP
THIS SURFACE TO
BE FREE OF PAINT
SEE NOTE 5
NEAR SIDE ONLY
SEE NOTE 4
NEAR SIDE ONLY
J6
J7
J5
J8
J4
J3
J2
J1
ABCDFG
R1
R2
R3
.75
.28 TYP
SEE NOTE 9

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III
SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY.
9. IDENTIFY WITH PART NO. PER ND1002019
10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.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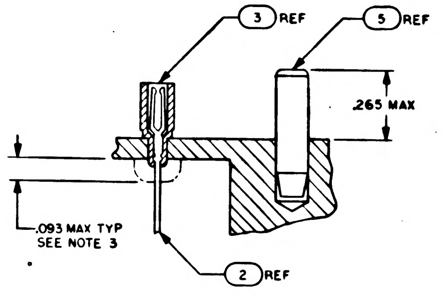
.093 MAX TYP
SEE NOTE 3
.240
.220
TYP
6
REF

PARTIAL SECTION A-A
SCALE: 4/1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.093 MAX TYP
SEE NOTE 3
2
REF

PARTIAL SECTION B-B
SCALE: 4/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-27	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007016	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Millar 8 APR 66
CHECKED 28 Apr 66
APPROVED V.A. Kapain 2 May 66
APPROVED 2 May 66
APPROVED MIT 5-20-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

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REVISIONS 2F69P

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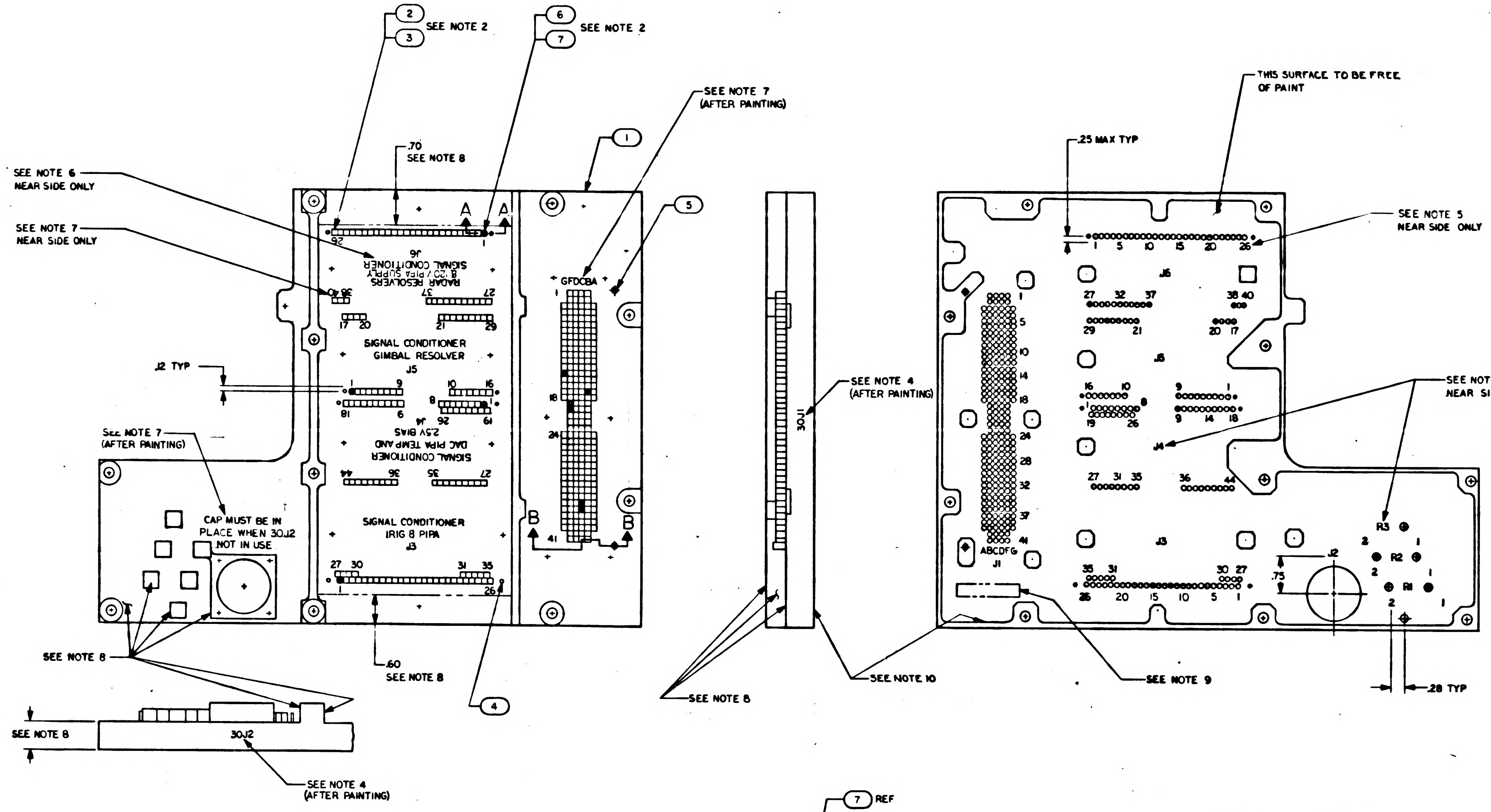

2
3
SEE NOTE 2
6
7
SEE NOTE 2
SEE NOTE 7 (AFTER PAINTING)
THIS SURFACE TO BE FREE OF PAINT
.70 SEE NOTE 8
1
5
.25 MAX TYP
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
SEE NOTE 5 NEAR SIDE ONLY
A
A
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
8-120 / PIPA SUPPLY
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
.12 TYP
SIGNAL CONDITIONER
DAC PIPA TEMP AND
2.5V BIAS
J4
SEE NOTE 7 (AFTER PAINTING)
SIGNAL CONDITIONER
IRIG 8 PIPA
J3
GFDCBA
SEE NOTE 4 (AFTER PAINTING)
30J1
SEE NOTE 4 NEAR SIDE ONLY
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
B
B
ABCDFG
J1
J2
R1
R2
R3
.75
SEE NOTE 8
.60 SEE NOTE 8
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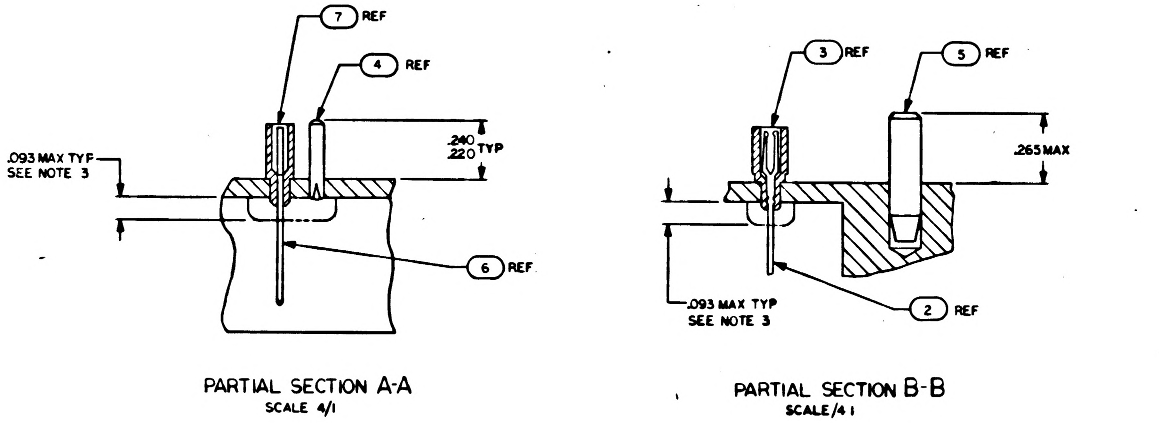
SEE NOTE 10
SEE NOTE 9
.28 TYP
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)



7 REF
4 REF
.093 MAX TYP SEE NOTE 3
.240 .220 TYP
6 REF
3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION A-A
SCALE 4/1

PARTIAL SECTION B-B
SCALE 4/1

NOTES

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9. IDENTIFY WITH PART NO. PER ND 1002019
10. PAINT THERMAL INTERFACE, PLANE $\boxed{-A-}$ AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND 1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE $\boxed{-A-}$ ONLY.

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1	6008056	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007014	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 ± .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	E. Miller	27 APR 66
CHECKED	L. Hood	9 May 66
APPROVED		10 May 66
APPROVED		
APPROVED MIT	A. C. METZGER	5-11-66
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO	SIZE	DRAWING NO.
80230	E	6007019

SCALE 1/1 SHEET 1 OF 1

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REVISIONS 28627

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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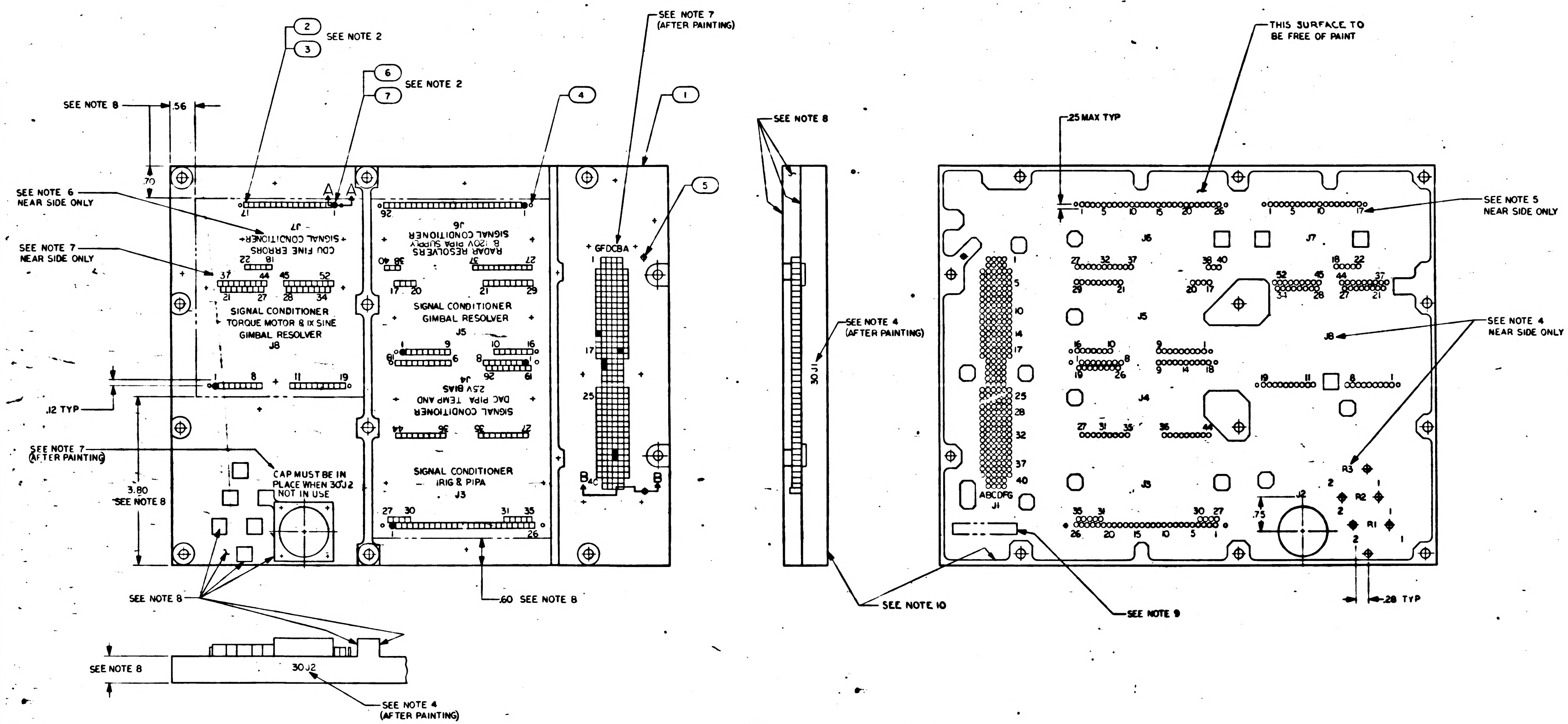
B		REVISED PER TDRR 309C5	JJB	NS	9-1-66	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SEE NOTE 7
(AFTER PAINTING)
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SEE NOTE 8
.56
.70
A
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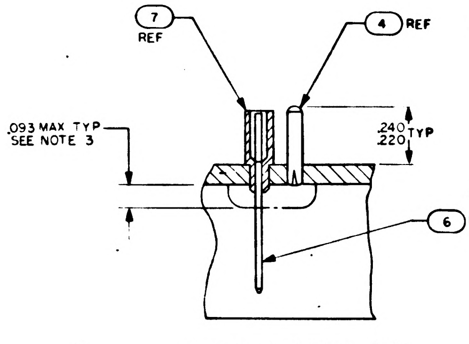
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
J7
SIGNAL CONDITIONER
CDU FINE ERRORS
J6
SIGNAL CONDITIONER
B 120V PIPA SUPPLY
RADAR RESOLVERS
GFDCBA
SIGNAL CONDITIONER
TORQUE MOTOR & IX SINE
GIMBAL RESOLVER
J8
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
J4
2.5V BIAS
DAC PIPA TEMP AND
SIGNAL CONDITIONER
.12 TYP
SEE NOTE 7
(AFTER PAINTING)
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
3.80
SEE NOTE 8
SIGNAL CONDITIONER
IRIG & PIPA
J3
B
B
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
SEE NOTE 8
SEE NOTE 4
(AFTER PAINTING)
30J1
SEE NOTE 10
.25 MAX TYP
THIS SURFACE TO
BE FREE OF PAINT
SEE NOTE 5
NEAR SIDE ONLY
J6
J7
J5
J8
J4
J3
ABCDFG
J1
SEE NOTE 4
NEAR SIDE ONLY
R3
R2
R1
.12
.75
SEE NOTE 9
.28 TYP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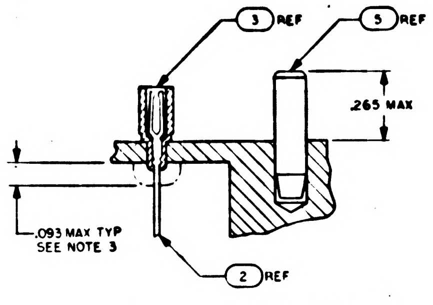
REF
.093 MAX TYP
SEE NOTE 3
.240
.220
TYP
6
REF

PARTIAL SECTION A-A
SCALE: 4/1


3
REF
5
REF
.265 MAX
.093 MAX TYP
SEE NOTE 3
2
REF

PARTIAL SECTION B-B
SCALE: 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 100627-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY.
9. IDENTIFY WITH PART NO. PER ND1002019
10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-27	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	1
011	LIST OF MATERIALS		

6007016	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .03 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Millen 8 APR 66
CHECKED 28 Apr 66
APPROVED V. A. Kapcin 2 May 66
APPROVED May 66
APPROVED MIT 5-3-66
APPROVED MSC
DATE

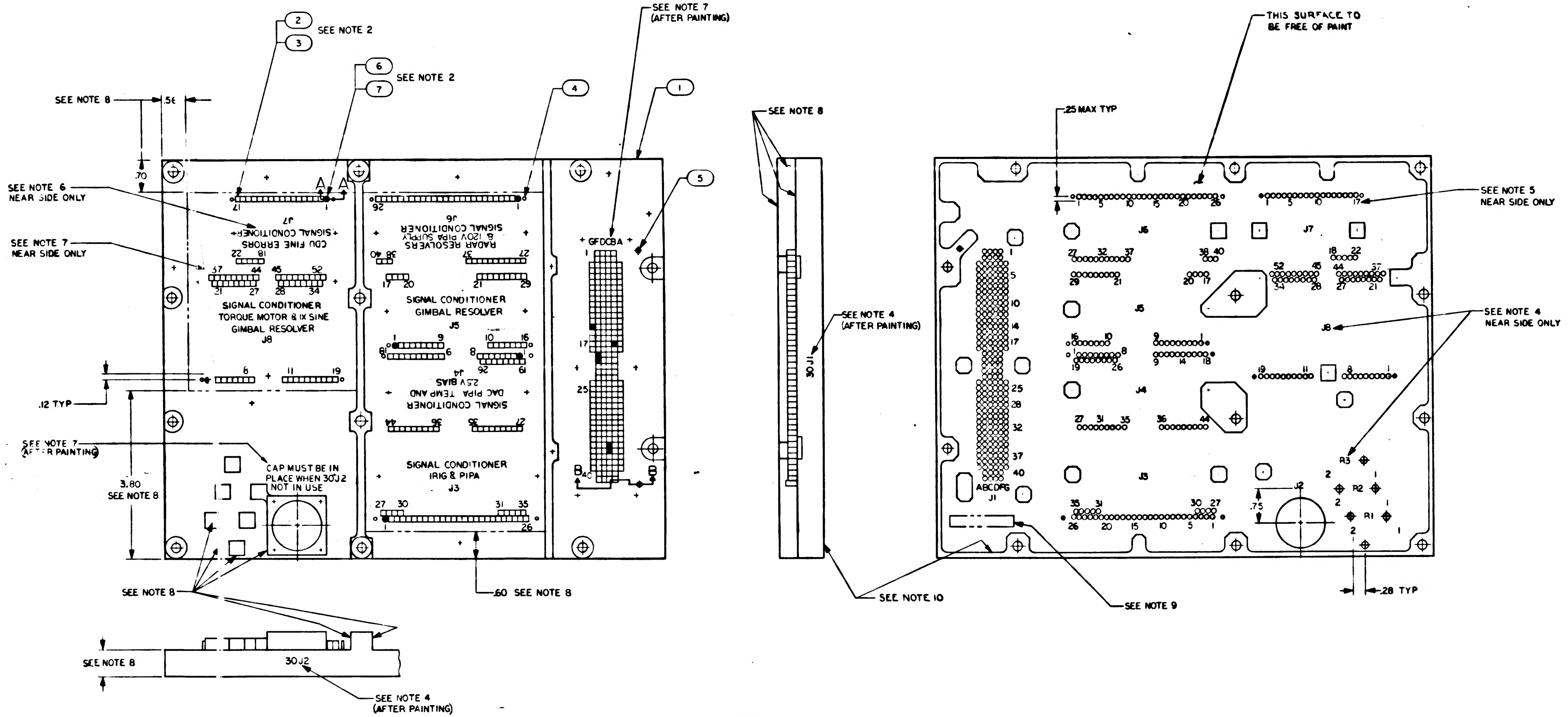
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

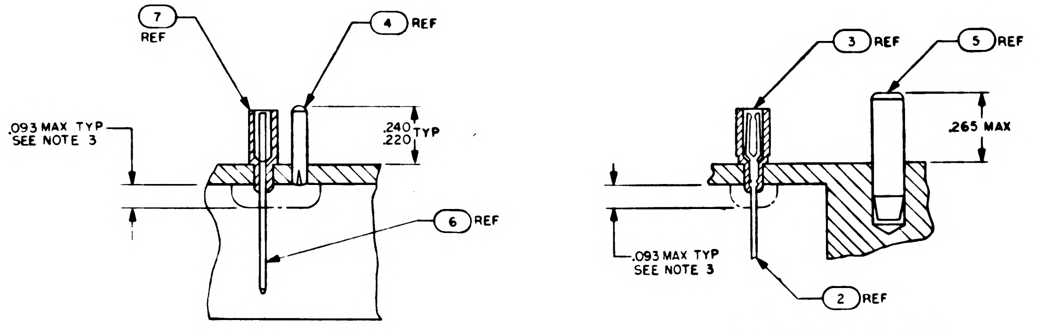
CODE IDENT NO	SIZE	DRAWING NO.
80230	E	6007018
SCALE 1/1		SHEET 1 OF 1

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30638	P.H	JI	8-17-66	
B		REVISED PER TDRR 30905	JJB	NS	9-12-66	
C		REVISED PER TDRR 30913	JJB	NS	9-12-66	

REVISIONS 28627



SEE NOTE 2
SEE NOTE 2
SEE NOTE 7 (AFTER PAINTING)
SEE NOTE 8
.56
.70
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
J7 +SIGNAL CONDITIONER+ CDU FINE ERRORS
J6 SIGNAL CONDITIONER RADAR RESOLVERS & 120V PIPA SUPPLY
SIGNAL CONDITIONER TORQUE MOTOR & 1X SINE GIMBAL RESOLVER J8
SIGNAL CONDITIONER GIMBAL RESOLVER J5
J4 25V BIAS SIGNAL CONDITIONER DAC PIPA TEMP AND
SIGNAL CONDITIONER IRIG & PIPA J3
GFDCBA
.12 TYP
SEE NOTE 7 (AFTER PAINTING)
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
3.80 SEE NOTE 8
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)
SEE NOTE 8
SEE NOTE 4 (AFTER PAINTING)
30J1
SEE NOTE 10
.25 MAX TYP
THIS SURFACE TO BE FREE OF PAINT
SEE NOTE 5 NEAR SIDE ONLY
SEE NOTE 4 NEAR SIDE ONLY
J6
J7
J5
J8
J4
J3
J2
J1
ABCDFG
R1
R2
R3
.75
.28 TYP
SEE NOTE 9
A
B
1
2
3
4
5
6
7



7 REF
4 REF
.093 MAX TYP SEE NOTE 3
.240 .220 TYP
6 REF
3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION A-A
SCALE: 4/1

PARTIAL SECTION B-B
SCALE: 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-1, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271- , NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY.
9. IDENTIFY WITH PART NO. PER ND1002019
10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007016	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 8 APR 66
CHECKED 28 Apr 66
APPROVED V.A. Kapain 2 May 66
APPROVED May 66
APPROVED MIT 5-2-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

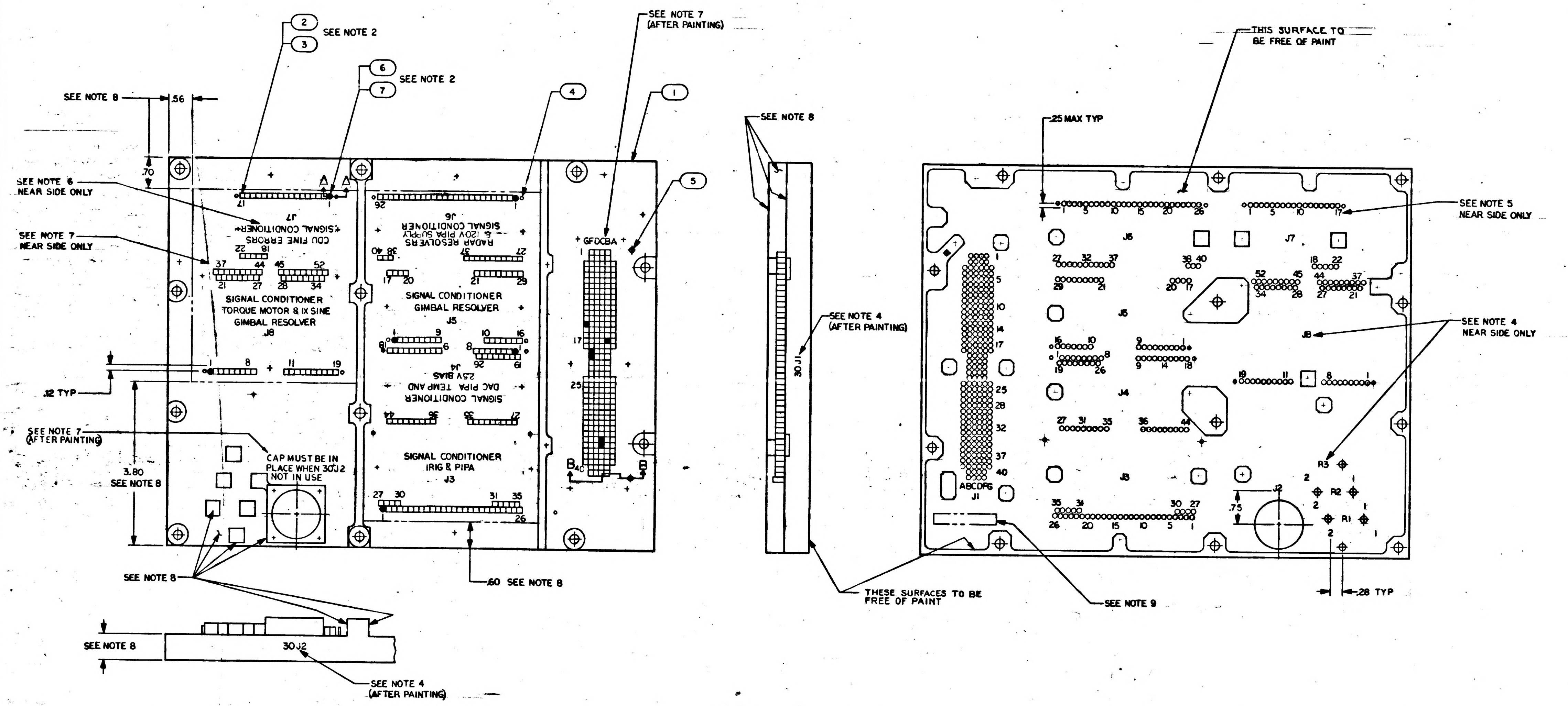
HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

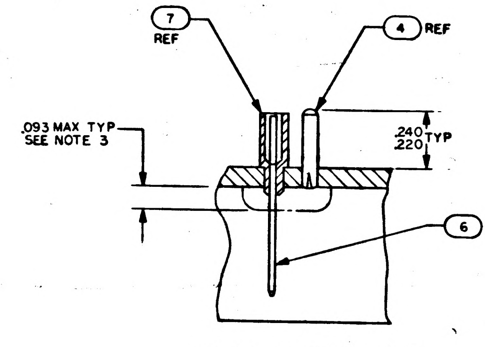
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 28627

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30638	P.H.	JI	8-17-66	
B		REVISED PER TDRR 309-5	JJB	NS	9-12-66	
C		REVISED PER TDRR 30913	JJB	NS	9-12-66	
D		REVISED PER TDRR 32273	WR		12-12-66	

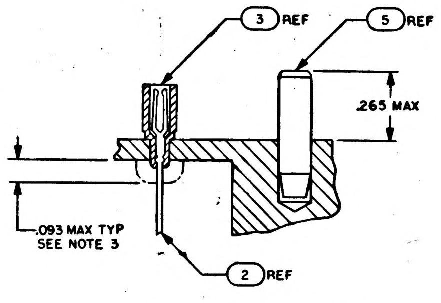


2
3
SEE NOTE 2
6
7
SEE NOTE 2
4
SEE NOTE 7
(AFTER PAINTING)
1
5
SEE NOTE 8
.56
.70
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
A
A
J7
SIGNAL CONDITIONER
CDU FINE ERRORS
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
SIGNAL CONDITIONER
TORQUE MOTOR & 1X SINE
GIMBAL RESOLVER
J8
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
J4
SIGNAL CONDITIONER
DAC PIPA TEMP AND
25V BIAS
SIGNAL CONDITIONER
IRIG & PIPA
J3
GFDCBA
B
B
.12 TYP
SEE NOTE 7
(AFTER PAINTING)
3.80
SEE NOTE 8
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
SEE NOTE 8
SEE NOTE 4
(AFTER PAINTING)
30J1
THESE SURFACES TO BE
FREE OF PAINT
THIS SURFACE TO
BE FREE OF PAINT
.25 MAX TYP
SEE NOTE 5
NEAR SIDE ONLY
SEE NOTE 4
NEAR SIDE ONLY
J6
J7
J5
J8
J4
J3
J1
ABCDFG
J2
R1
R2
R3
.75
SEE NOTE 9
.28 TYP



7
REF
4
REF
.093 MAX TYP
SEE NOTE 3
.240
.220
TYP
6
REF

PARTIAL SECTION A-A
SCALE: 4/1



3
REF
5
REF
.265 MAX
.093 MAX TYP
SEE NOTE 3
2
REF

PARTIAL SECTION B-B
SCALE: 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
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9. IDENTIFY WITH PART NO. PER ND1002019
10. ~~PLANE A AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE B ONLY.~~

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007016	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 8 APR 66
CHECKED 28 Apr 66
APPROVED V.G. 2 May 66
APPROVED 2 May 66
APPROVED MIT 5-4-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

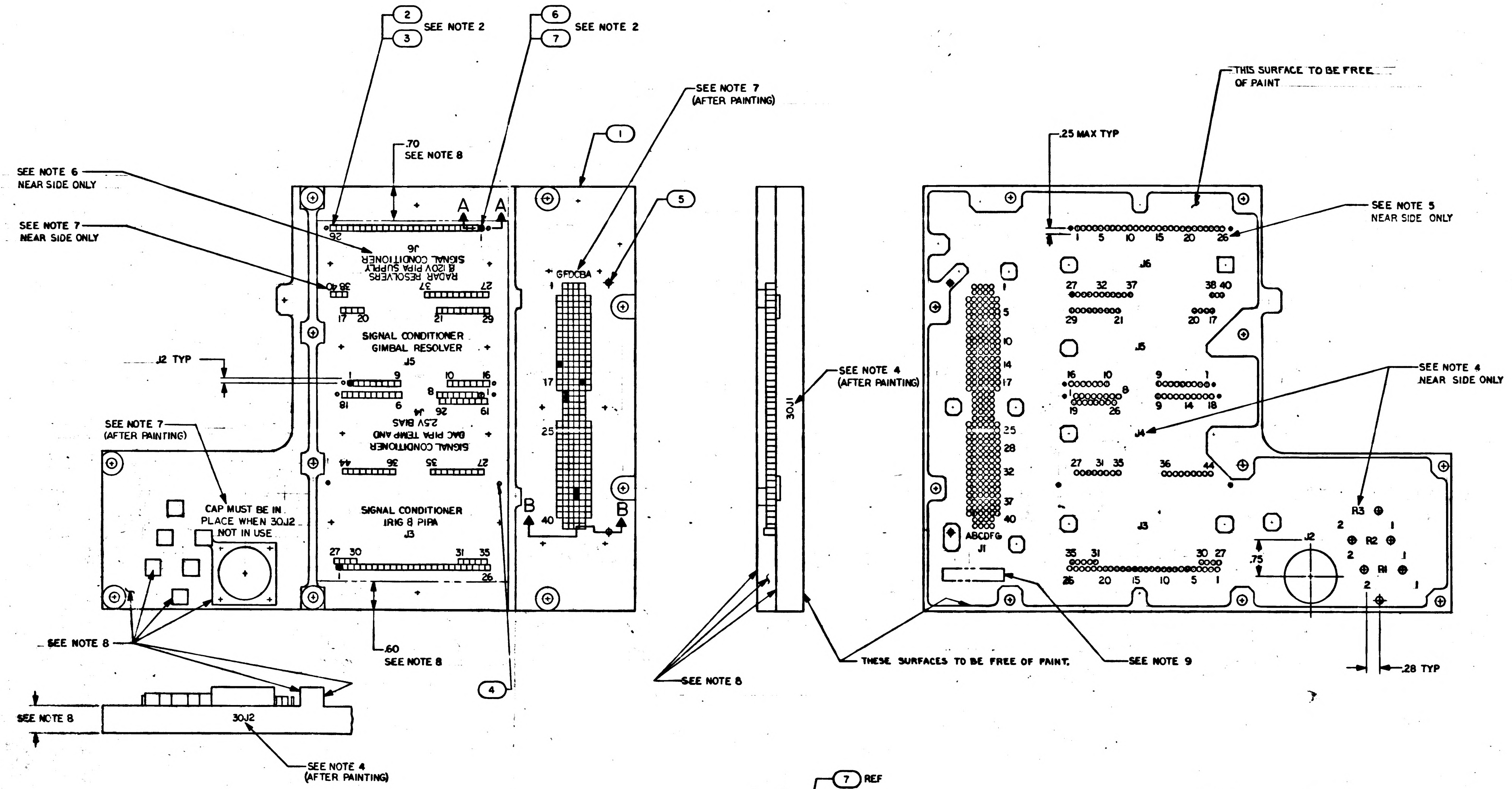
HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

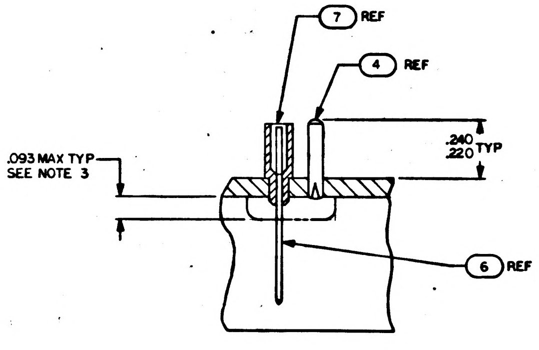
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 2F698

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
Ⓜ A		REVISED PER TDRR 30637	P.H	JI	8-17-66	
B		REVISED PER TDRR 30912	JJB	NS	9-8-66	
Ⓜ C		REVISED PER TDRR 30992	JJB	NS	9-13-66	
D		REVISED PER TDRR 32278	WA		12-12-66	

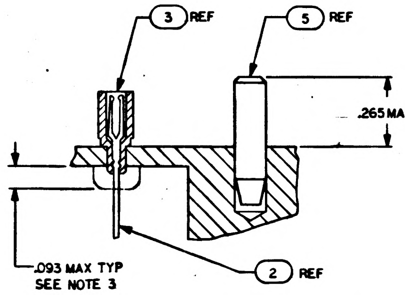


2
3
SEE NOTE 2
6
7
SEE NOTE 2
SEE NOTE 7
(AFTER PAINTING)
1
5
.70
SEE NOTE 8
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
A
A
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
.12 TYP
J4
SIGNAL CONDITIONER
DAC PIPA TEMP AND
2.5V BIAS
SEE NOTE 7
(AFTER PAINTING)
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SIGNAL CONDITIONER
IRIG & PIPA
J3
GFDCBA
B
B
.60
SEE NOTE 8
4
SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
30J1
SEE NOTE 4
(AFTER PAINTING)
SEE NOTE 8
THESE SURFACES TO BE FREE OF PAINT.
.25 MAX TYP
THIS SURFACE TO BE FREE OF PAINT
SEE NOTE 5
NEAR SIDE ONLY
SEE NOTE 4
NEAR SIDE ONLY
J1
ABCDFG
J2
.75
R3
R2
R1
SEE NOTE 9
.28 TYP



7 REF
4 REF
.093 MAX TYP
SEE NOTE 3
.240
.220 TYP
6 REF

PARTIAL SECTION A-A
SCALE 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP
SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE /4 1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III
SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
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8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY
9. IDENTIFY WITH PART NO. PER. ND 1002019
~~10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .26 INCHES, PER ND 1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.~~

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007014	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.XX .02 ±.XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 27 APR 66
CHECKED L. [illegible] May 66
APPROVED V. G. Kapraine 10 MAY 66
APPROVED [illegible] 16 May 66
APPROVED MIT M C Mundy 5-11-66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007019

SCALE 1/1
SHEET 1 OF 1

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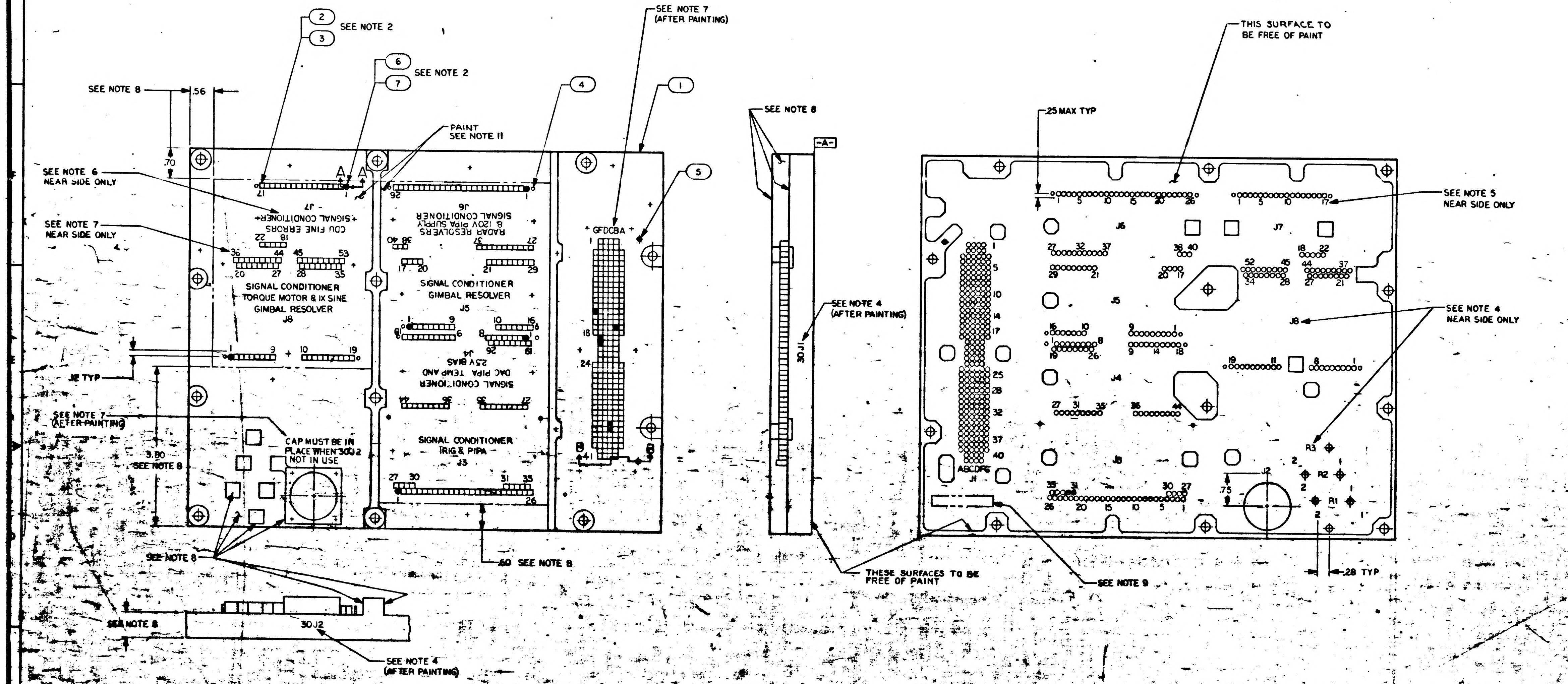
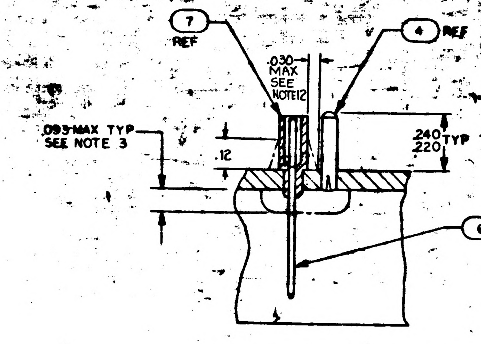
REVISIONS 28627

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30638	P.H.	JI	8-17-66	
B		REVISED PER TDRR 30905	JJB	NS	9-12-66	
C		REVISED PER TDRR 30913	JJB	NS	9-12-66	
D		REVISED PER TDRR 32273	WR	Rw	12-12-66	
E		REVISED PER TDRR 32405	EC	G	8 JAN 67	

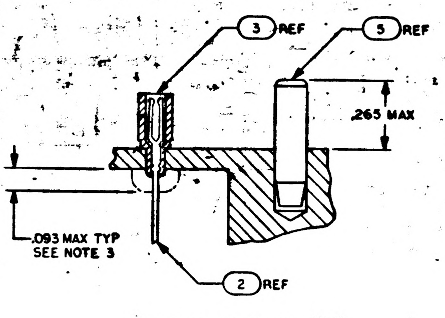


SEE NOTE 2
SEE NOTE 2
SEE NOTE 8
.56
.70
SEE NOTE 7 (AFTER PAINTING)
PAINT SEE NOTE 11
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
J7
SIGNAL CONDITIONER CDU FINE ERRORS
J6
SIGNAL CONDITIONER RADAR RESOLVERS & 120V PIPA SUPPLY
SIGNAL CONDITIONER TORQUE MOTOR & IX SINE GIMBAL RESOLVER
J8
SIGNAL CONDITIONER GIMBAL RESOLVER
J5
J4
SIGNAL CONDITIONER DAC PIPA TEMP AND 25V BIAS
SIGNAL CONDITIONER IRIG & PIPA
J3
GFDCBA
.12 TYP
SEE NOTE 7 (AFTER PAINTING)
3.80 SEE NOTE 8
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)
SEE NOTE 8
A
SEE NOTE 4 (AFTER PAINTING)
30J1
THESE SURFACES TO BE FREE OF PAINT
THIS SURFACE TO BE FREE OF PAINT
.25 MAX TYP
SEE NOTE 5 NEAR SIDE ONLY
SEE NOTE 4 NEAR SIDE ONLY
J6
J7
J5
J8
J4
J3
J1
ABCDFG
R1
R2
R3
.75
.12
SEE NOTE 9
.28 TYP



7 REF
4 REF
.030 MAX SEE NOTE 12
.093 MAX TYP SEE NOTE 3
.12
.240 .220 TYP
6 REF

PARTIAL SECTION A-A
SCALE: 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE: 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO 2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY.
9. IDENTIFY WITH PART NO. PER ND1002019
~~10. PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -B- ONLY.~~
11. PAINT MODULE MOUNTING SURFACES PER ND 1002291 TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS TO BE .002 INCH MAX. PARTING LINE WITH PAINT IN ADJACENT AREAS TO BE TOUCHED UP PER ND 1002291. ALL HOLES TO BE FREE OF PAINT.
12. SEAL FIND NO.7 TO FIND NO.1 PER ND 1002004 TYPE I. ROOM TEMPERATURE CURE PERMITTED PROVIDED SEALING COMPOUND IS NOT DISTURBED FOR A MINIMUM OF 8 HOURS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE ~~GROUND~~	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DUMMY)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007016	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 8 APR 66
CHECKED [illegible] 28 Apr 66
APPROVED V. G. Kapicin 2 May 66
APPROVED [illegible] 2 May 66
APPROVED MIT [illegible] 5-10-66
A. C. METZGER
APPROVED MSC
DATE

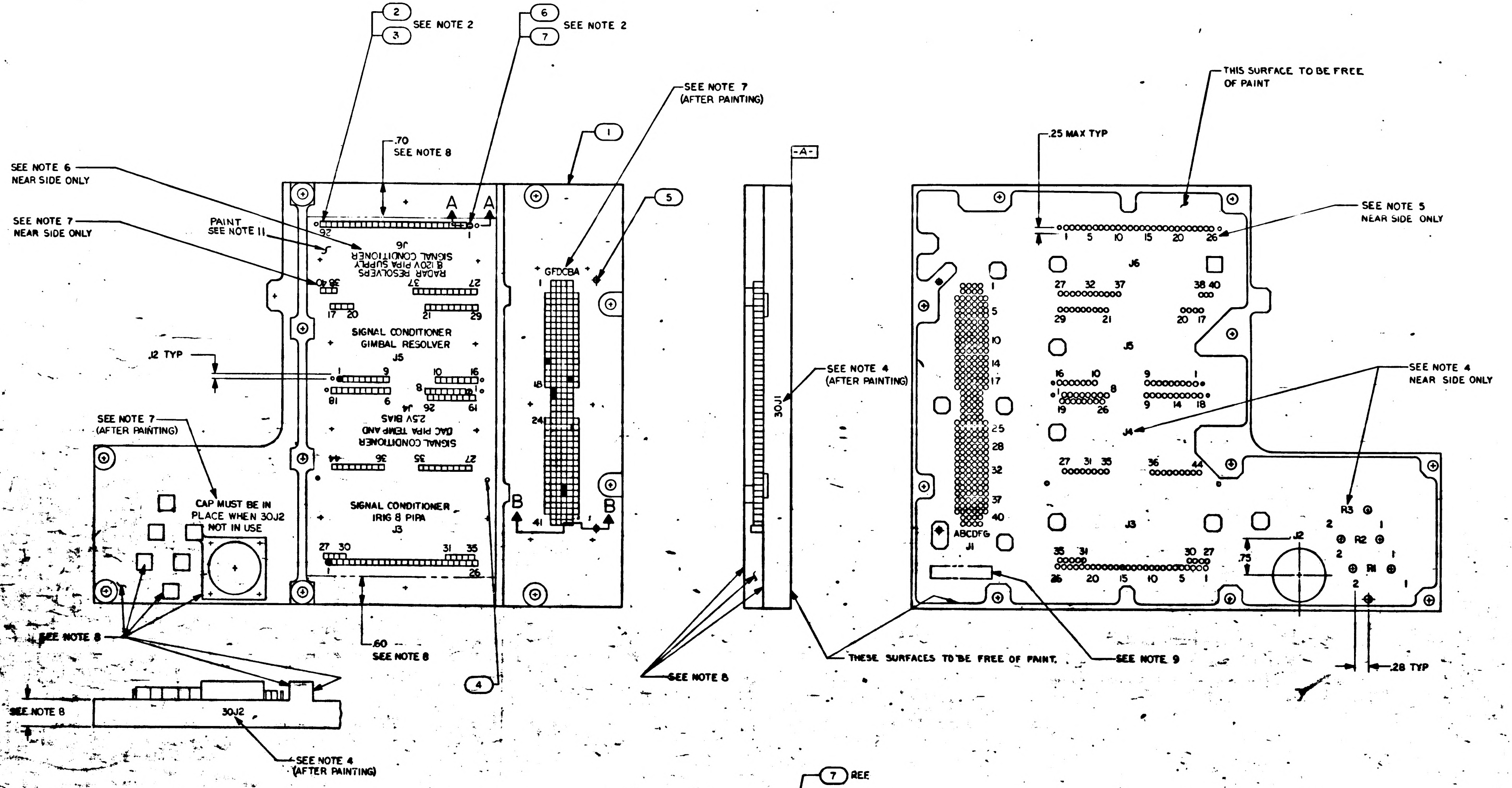
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

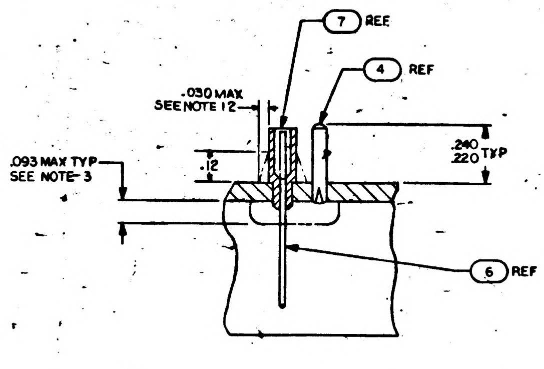
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

REVISIONS 2F698

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30637	P.H.	JI	8-17-66	
B		REVISED PER TDRR 30912	JJB	NS	9-8-66	
C		REVISED PER TDRR 30992	JJB	NS	9-13-66	
D		REVISED PER TDRR 32278	WA		12-12-66	
E		REVISED PER TDRR 32419	EC		3 JAN 67	

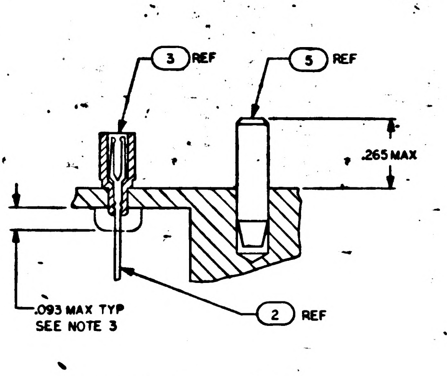


SEE NOTE 2
SEE NOTE 2
SEE NOTE 7 (AFTER PAINTING)
THIS SURFACE TO BE FREE OF PAINT
.25 MAX TYP
.70 SEE NOTE 8
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
PAINT SEE NOTE 11
SEE NOTE 5
SEE NOTE 5 NEAR SIDE ONLY
-A-
SIGNAL CONDITIONER GIMBAL RESOLVER
J5
.12 TYP
SEE NOTE 4 (AFTER PAINTING)
SEE NOTE 4 NEAR SIDE ONLY
SEE NOTE 7 (AFTER PAINTING)
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SIGNAL CONDITIONER IRIG 8 PIPA
J3
30J1
J6
J4
J1
R3
R2
R1
.12
.73
.28 TYP
.60 SEE NOTE 8
SEE NOTE 8
SEE NOTE 8
THESE SURFACES TO BE FREE OF PAINT.
SEE NOTE 9
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)



7 REF
4 REF
.030 MAX SEE NOTE 12
.093 MAX TYP SEE NOTE 3
.12
.240 .220 TYP
6 REF

PARTIAL SECTION A-A
SCALE 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
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5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
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9. IDENTIFY WITH PART NO. PER ND 1002019
10. ~~PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND 1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.~~
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12. SEAL FIND NO.7 TO FIND NO.1 PER ND 1002004 TYPE I. ROOM TEMPERATURE CURE PERMITTED PROVIDING SEALING COMPOUND IS NOT DISTURBED FOR A MINIMUM OF 8 HOURS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
10	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
10	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007014	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 27 APR 66
CHECKED L. Hood 4 May 66
APPROVED V. G. Kyprain 10 MAY 66
APPROVED
APPROVED MIT 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

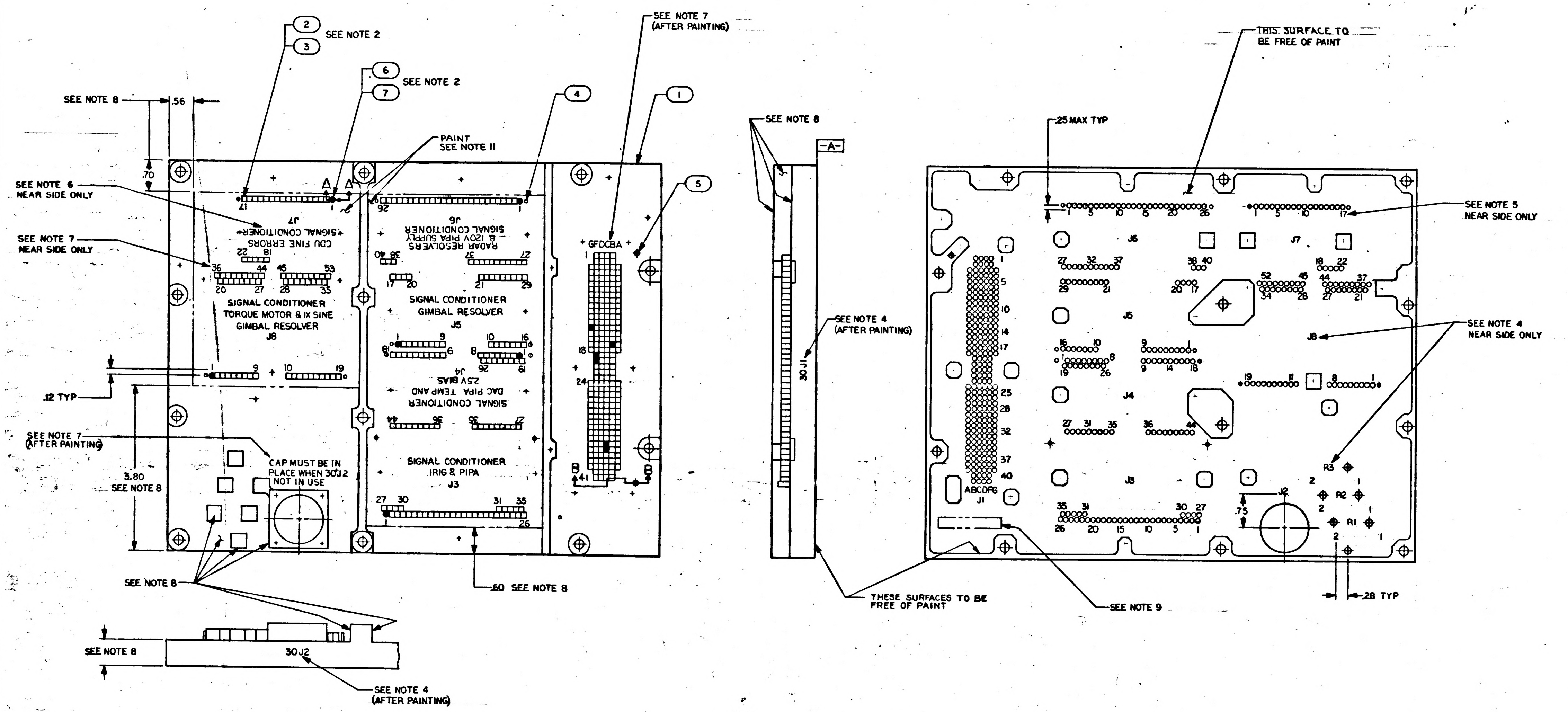
HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007019
SCALE 1/1
SHEET 1 OF 1

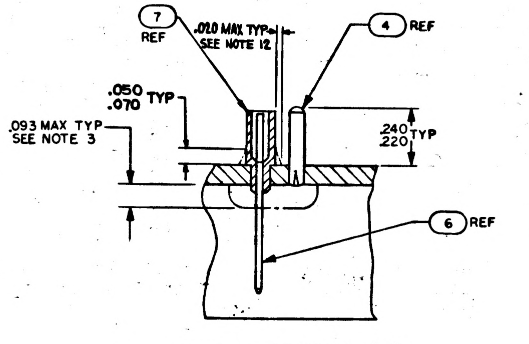
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 28627

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30638	P.H.	J.I.	8-17-66	
B		REVISED PER TDRR 30905	JJB	NS	9-12-66	
C		REVISED PER TDRR 30913	JJB	NS	9-12-66	
D		REVISED PER TDRR 32273	WR	RW	12-12-66	
E		REVISED PER TDRR 32405	EC	EX	8 JAN 67	
F		REVISED PER TDRR 32418	EC	EX	8 JAN 67	

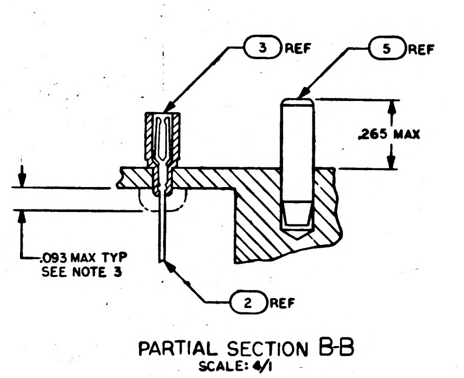


SEE NOTE 2
SEE NOTE 8
.56
.70
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
PAINT SEE NOTE 11
SEE NOTE 7 (AFTER PAINTING)
J7
SIGNAL CONDITIONER CDU FINE ERRORS
J6
SIGNAL CONDITIONER RADAR RESOLVERS & 120V PIPA SUPPLY
SIGNAL CONDITIONER TORQUE MOTOR & IX SINE GIMBAL RESOLVER
J8
SIGNAL CONDITIONER GIMBAL RESOLVER
J5
J4
SIGNAL CONDITIONER DAC PIPA TEMP AND 25V BIAS
SIGNAL CONDITIONER IRIG & PIPA
J3
GFDCBA
.12 TYP
3.80 SEE NOTE 8
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
.60 SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)
30J1
-A-
THESE SURFACES TO BE FREE OF PAINT
.25 MAX TYP
THIS SURFACE TO BE FREE OF PAINT
SEE NOTE 5 NEAR SIDE ONLY
SEE NOTE 4 NEAR SIDE ONLY
ABCDFG
J1
R1
R2
R3
.75
.12
.28 TYP
SEE NOTE 9



7 REF
.020 MAX TYP SEE NOTE 12
4 REF
.050
.070 TYP
.093 MAX TYP SEE NOTE 3
.240
.220 TYP
6 REF

PARTIAL SECTION A-A
SCALE: 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE: 4/1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY.
9. IDENTIFY WITH PART NO. PER ND1002019
~~10. PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.~~
11. PAINT MODULE MOUNTING SURFACES PER ND1002291 TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. DRY PAINT THICKNESS TO BE .002 INCH MAX. PARTING LINE WITH PAINT IN ADJACENT AREAS TO BE TOUCHED UP PER ND1002291. ALL HOLES TO BE FREE OF PAINT.
12. SEAL FIND NOS. 3 AND 7 TO FIND NO. 1 PER ND1002004 TYPE I. SEALANT TO BE APPLIED COMPLETELY AROUND FIND NO. 7 AND TO THE PERIPHERY OF EACH GROUP OF FIND NO. 3 (SEE "PARTIAL SECTION A-A" FOR DIMENSIONS) AT THE INTERFACE WITIH FIND NO. 1 EXCEPT IN J1 AND J2. ROOM TEMPERATURE CURE PERMITTED PROVIDED SEALING COMPOUND IS NOT DISTURBED FOR A MINIMUM OF 8 HOURS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007016	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Millen 8 APR 66
CHECKED [illegible] 28 Apr 66
APPROVED V. G. Kopsin 2 May 66
APPROVED [illegible] 2 May 66
APPROVED MIT [illegible] 5-12-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

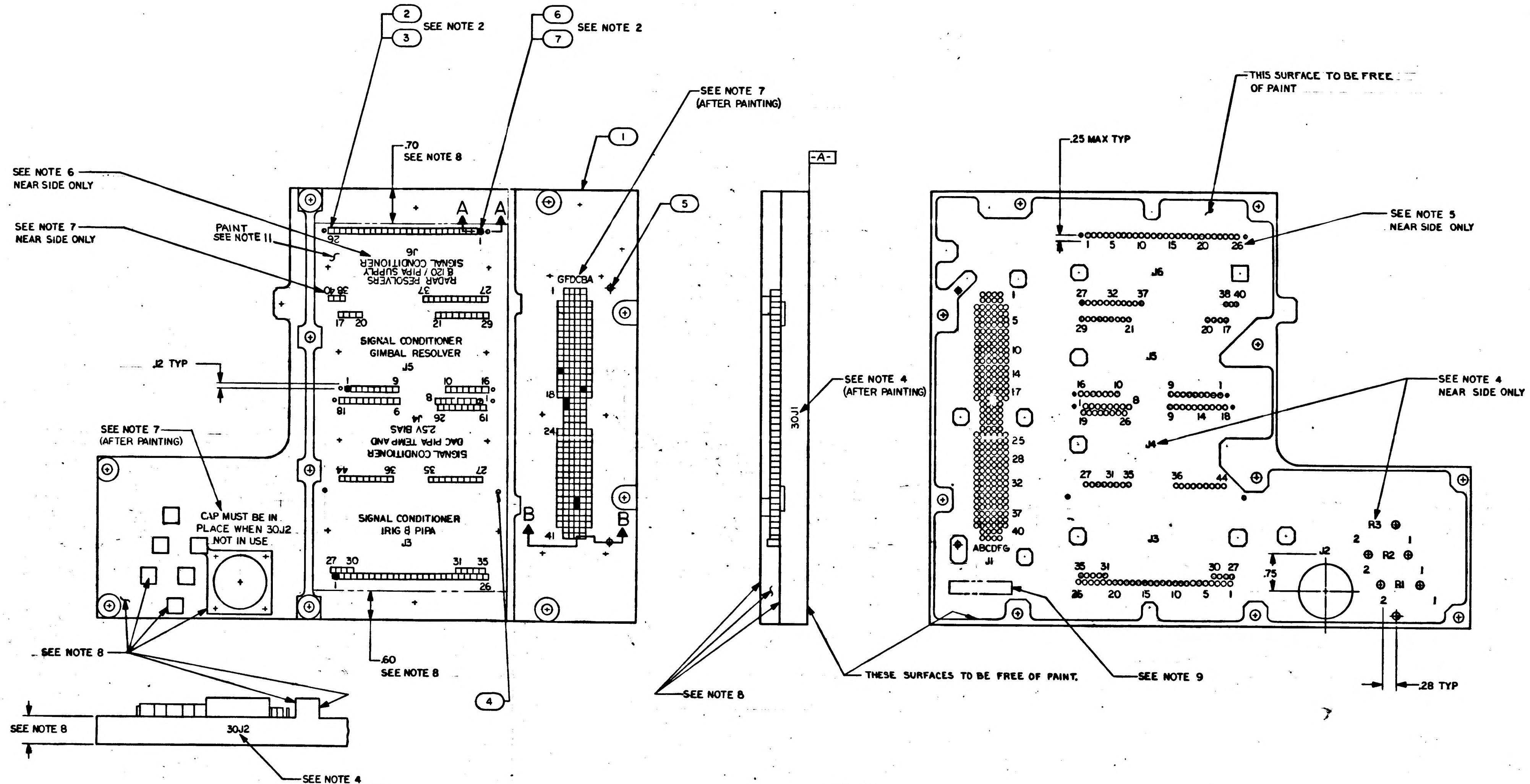
HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

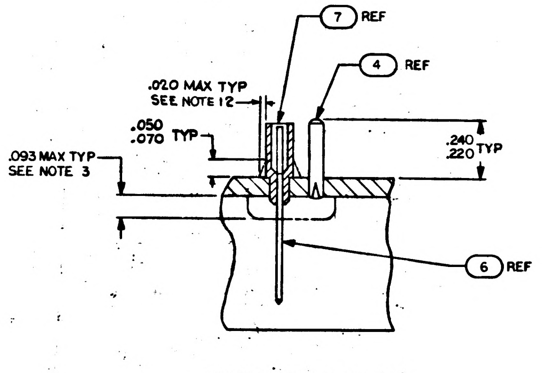
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

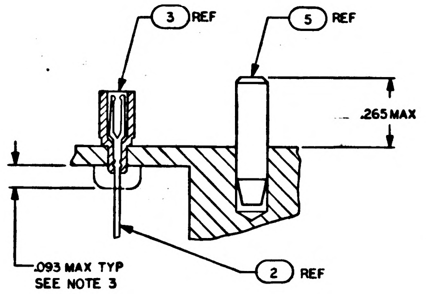
Ⓜ REVISIONS 2F698

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
Ⓜ A		REVISED PER TDRR 30637	P.H.	J.I.	8-17-66	
B		REVISED PER TDRR 30912	JJB	N S	9-8-66	
Ⓜ C		REVISED PER TDRR 30992	JJB	N S	9-13-66	
Ⓜ D		REVISED PER TDRR 32278	WA		12-12-66	
E		REVISED PER TDRR 32419	EC		8 JAN 67	
F		REVISED PER TDRR 32420	EC		8 JAN 67	


2
3
SEE NOTE 2
6
7
SEE NOTE 2
SEE NOTE 7
(AFTER PAINTING)
1
5
.70
SEE NOTE 8
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
PAINT
SEE NOTE 11
A
A
J6
SIGNAL CONDITIONER
& 120 / PIPA SUPPLY
RADAR RESOLVERS
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
.12 TYP
J4
2.5V BIAS
DAC PIPA TEMP AND
SIGNAL CONDITIONER
SIGNAL CONDITIONER
IRIG & PIPA
J3
GFDCBA
B
B
SEE NOTE 7
(AFTER PAINTING)
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
SEE NOTE 8
.60
SEE NOTE 8
4
-A-
SEE NOTE 4
(AFTER PAINTING)
30J1
SEE NOTE 8
THESE SURFACES TO BE FREE OF PAINT.
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
THIS SURFACE TO BE FREE
OF PAINT
.25 MAX TYP
SEE NOTE 5
NEAR SIDE ONLY
J6
J5
J4
J3
SEE NOTE 4
NEAR SIDE ONLY
ABCDFG
J1
J2
.75
R3
R2
R1
SEE NOTE 9
.28 TYP


7 REF
4 REF
.020 MAX TYP
SEE NOTE 12
.050
.070 TYP
.093 MAX TYP
SEE NOTE 3
.240
.220 TYP
6 REF

PARTIAL SECTION A-A
SCALE 4/1


3 REF
5 REF
.265 MAX
.093 MAX TYP
SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE/4 1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO. 2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III
SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
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6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
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9. IDENTIFY WITH PART NO. PER ND 1002019
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007014	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ±— DECIMALS ±.XX .02 .XXX .005 ANGLES ±—
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 27 APR 66
CHECKED 4 May 66
APPROVED 10 MAY 66
APPROVED 16 May 66
APPROVED MIT 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

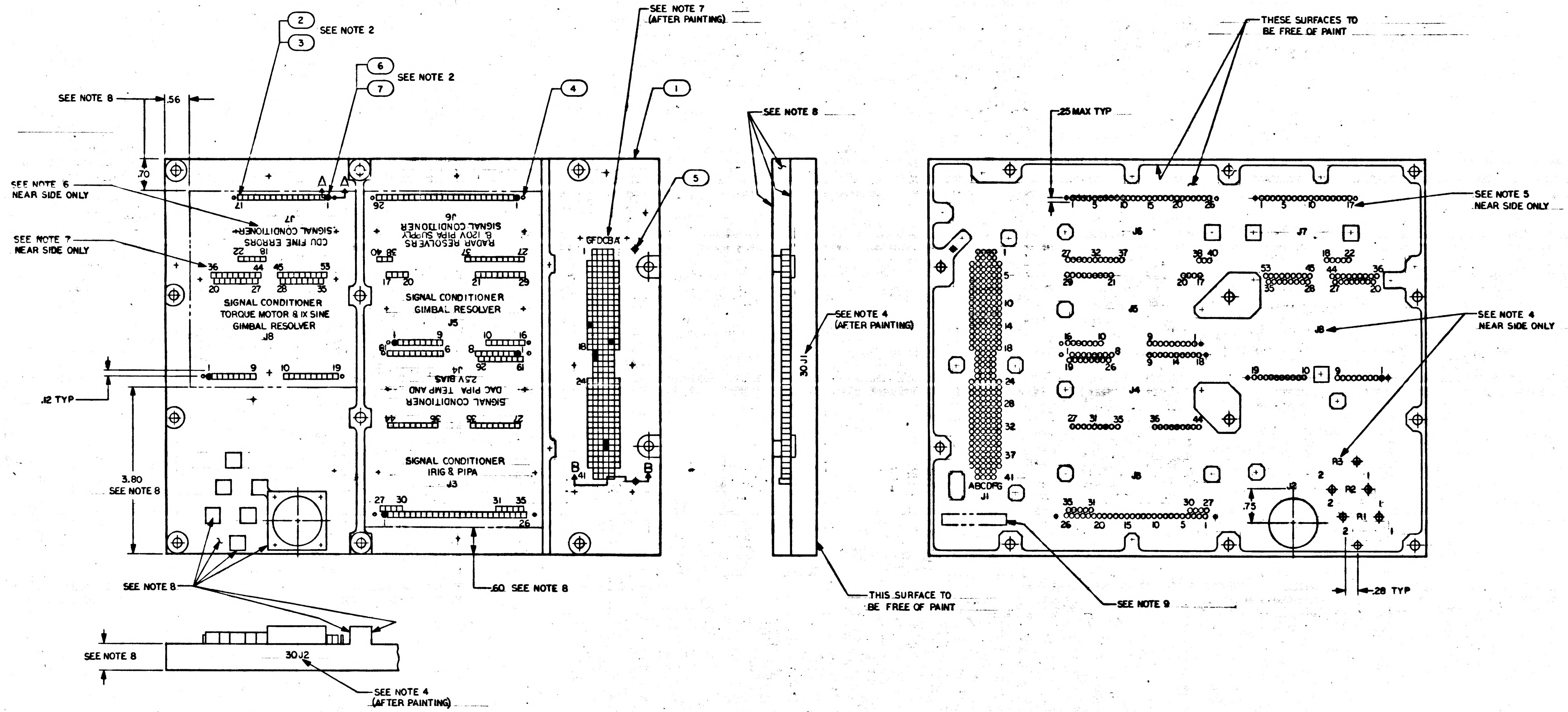
HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007019
SCALE 1/1
SHEET 1 OF 1

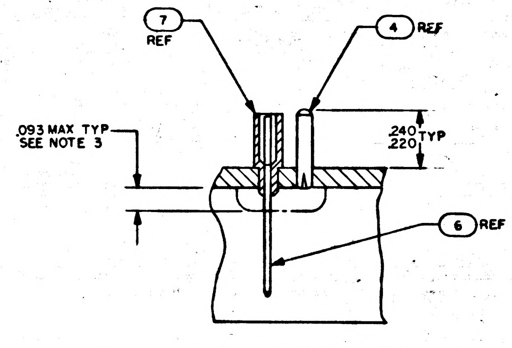
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 28627

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

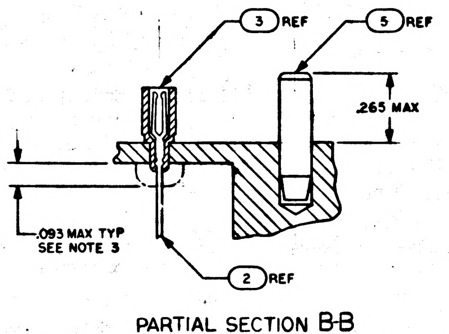


② ③ SEE NOTE 2
⑥ ⑦ SEE NOTE 2
④
SEE NOTE 7 (AFTER PAINTING)
①
⑤
SEE NOTE 8
.56
.70
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
A A
J7
CDU FINE ERRORS
SIGNAL CONDITIONER
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
& 120V PIPA SUPPLY
SIGNAL CONDITIONER
TORQUE MOTOR & 1X SINE
GIMBAL RESOLVER
J8
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
J4
25V BIAS
DAC PIPA TEMP AND
SIGNAL CONDITIONER
SIGNAL CONDITIONER
IRIG & PIPA
J3
GFDCBA
B B
.12 TYP
3.80 SEE NOTE 8
SEE NOTE 8
.60 SEE NOTE 8
SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)
SEE NOTE 8
SEE NOTE 4 (AFTER PAINTING)
30J1
THIS SURFACE TO BE FREE OF PAINT
THESE SURFACES TO BE FREE OF PAINT
.25 MAX TYP
SEE NOTE 5 NEAR SIDE ONLY
SEE NOTE 4 NEAR SIDE ONLY
J1
ABCDEFG
J2
R1 R2 R3
.75
SEE NOTE 9
.28 TYP



⑦ REF
④ REF
.093 MAX TYP SEE NOTE 3
.240 .220 TYP
⑥ REF

PARTIAL SECTION A-A
SCALE: 4/1



③ REF
⑤ REF
.265 MAX
.093 MAX TYP SEE NOTE 3
② REF

PARTIAL SECTION B-B
SCALE: 4/1

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III
SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289 ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS AND ALL TAPPED HOLES.
9. IDENTIFY WITH PART NO. PER ND1002019.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
12	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-27	PIN, STRAIGHT, HEADLESS (DOWEL)	5
12	1010620-7	PIN, GUIDE	4
439	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
439	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008048	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

6007016	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 8 APR 66
CHECKED 28 Apr 66
APPROVED V.G. 2 May 66
APPROVED 2 May 66
APPROVED MIT 5-13-66
A. C. METZGER
APPROVED MSC DATE

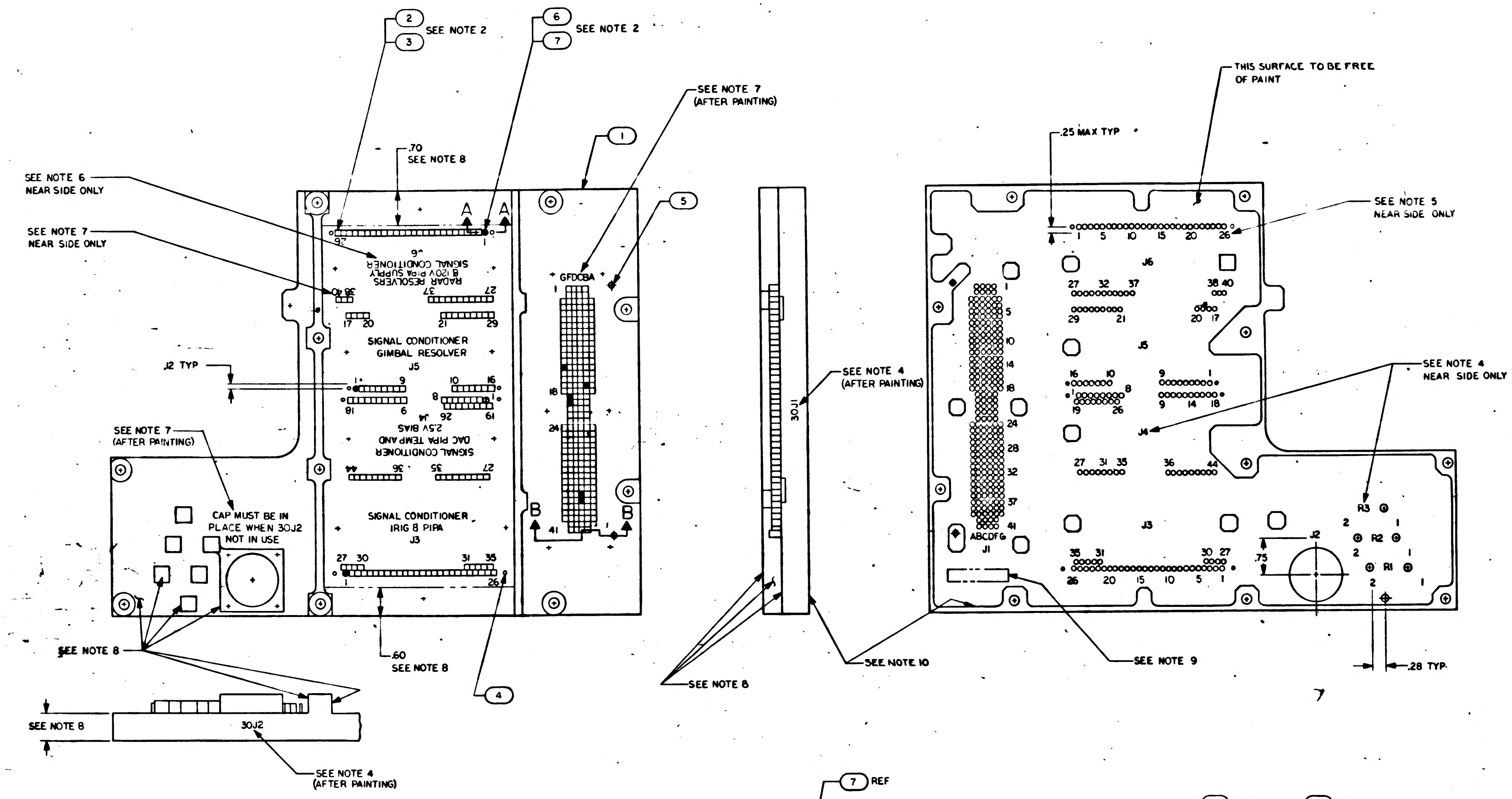
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

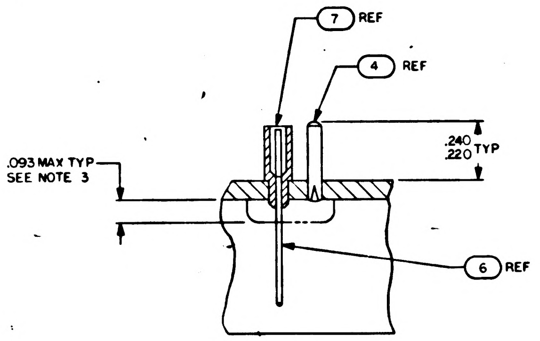
CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007018
SCALE 1/1
SHEET 1 OF 1

6007018

REVISIONS 2F69P						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30637	P.H.	J.I.	8-17-66	
B		REVISED PER TDRR 30912	JJB	N S	9-8-66	

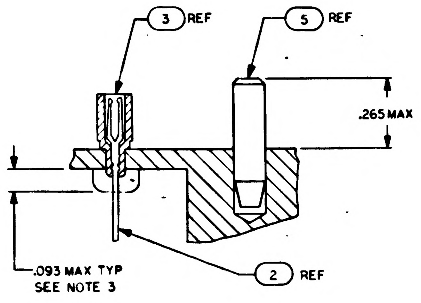


2
3
SEE NOTE 2
6
7
SEE NOTE 2
SEE NOTE 7
(AFTER PAINTING)
1
5
.70
SEE NOTE 8
SEE NOTE 6
NEAR SIDE ONLY
SEE NOTE 7
NEAR SIDE ONLY
A
A
26
1
J6
SIGNAL CONDITIONER
8 120V PIPA SUPPLY
RADAR RESOLVERS
38 40
37
27
17 20
21
29
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
.12 TYP
1
9
10
16
8
18
6
26
19
J4
2.5V BIAS
DAC PIPA TEMP AND
SIGNAL CONDITIONER
44
36
35
27
SEE NOTE 7
(AFTER PAINTING)
CAP MUST BE IN
PLACE WHEN 30J2
NOT IN USE
SIGNAL CONDITIONER
IRIG 8 PIPA
J3
27 30
31 35
1
26
GFDCBA
18
24
41
B
B
.60
SEE NOTE 8
4
SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4
(AFTER PAINTING)
30J1
SEE NOTE 4
(AFTER PAINTING)
SEE NOTE 8
SEE NOTE 10
THIS SURFACE TO BE FREE
OF PAINT
.25 MAX TYP
SEE NOTE 5
NEAR SIDE ONLY
1 5 10 15 20 26
J6
27 32 37
38 40
29 21
20 17
J5
16 10
9 1
8
19 26
9 14 18
J4
SEE NOTE 4
NEAR SIDE ONLY
27 31 35
36 44
1
5
10
14
18
24
28
32
37
41
ABCDFG
J1
J3
J2
.75
35 31
30 27
26 20 15 10 5 1
R3
R2
R1
2
1
SEE NOTE 9
.28 TYP



7 REF
4 REF
.093 MAX TYP
SEE NOTE 3
.240
.220 TYP
6 REF

PARTIAL SECTION A-A
SCALE 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP
SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE /4 1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO. 2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO. 3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY
9. IDENTIFY WITH PART NO. PER ND 1002019
10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND 1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.

10	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
10	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
011	LIST OF MATERIALS		

6007014	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± .XX .02 .XXX .005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 27 APR 66
CHECKED L. Hood 4 May 66
APPROVED V. G. Kosvaine 10 May 66
APPROVED 10 May 66
APPROVED MIT M. Mudey 5-11-66
R. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007019
SCALE 1/1
SHEET 1 OF 1

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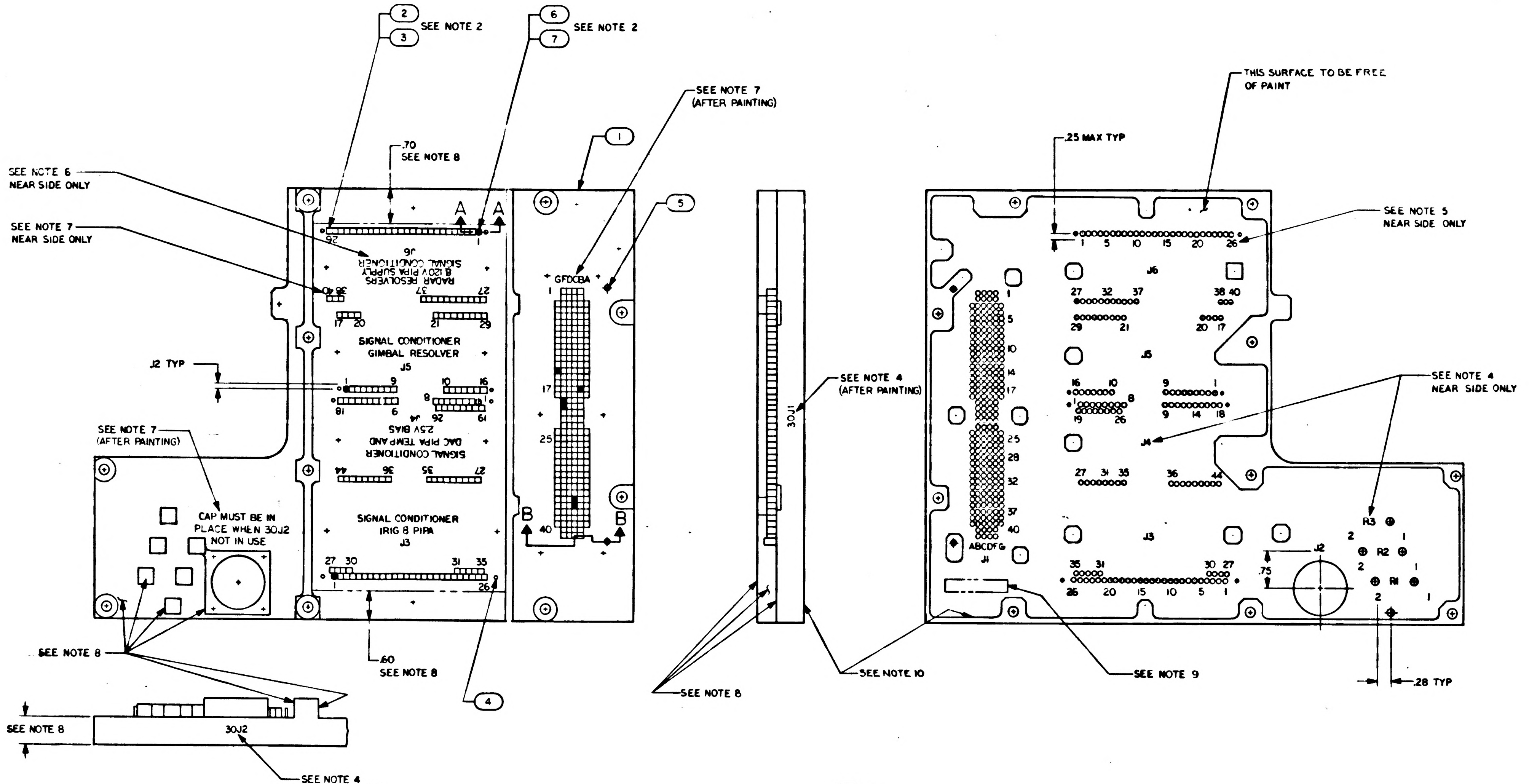
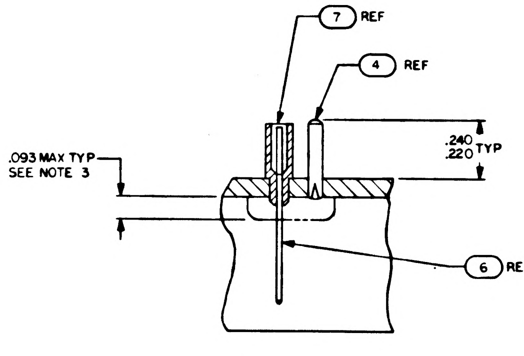
REVISIONS 2F698

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30637	P.H.	JI	8-17-66	
B		REVISED PER TDRR 30912	JJB	NS	9-8-66	
C		REVISED PER TDRR 30992	JJB	NS	9-13-66	

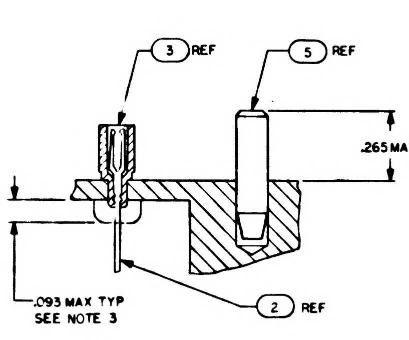


2
3
SEE NOTE 2
6
7
SEE NOTE 2
SEE NOTE 7 (AFTER PAINTING)
1
5
.70 SEE NOTE 8
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
A
A
26
1
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
8120V PIPA SUPPLY
38 40
37
27
17 20
21
29
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
.12 TYP
1
9
10
16
8
18
6
26
19
J4
2.5V BIAS
SIGNAL CONDITIONER
DAC PIPA TEMP AND
44
36
35
27
SEE NOTE 7 (AFTER PAINTING)
CAP MUST BE IN PLACE WHEN 30J2 NOT IN USE
SIGNAL CONDITIONER
IRIG 8 PIPA
J3
27
30
31
35
26
1
.60 SEE NOTE 8
4
SEE NOTE 8
SEE NOTE 8
30J2
SEE NOTE 4 (AFTER PAINTING)
GFDCBA
1
17
25
40
B
B
SEE NOTE 4 (AFTER PAINTING)
30J1
SEE NOTE 8
SEE NOTE 10
THIS SURFACE TO BE FREE OF PAINT
.25 MAX TYP
SEE NOTE 5 NEAR SIDE ONLY
1 5 10 15 20 26
J6
27 32 37
38 40
29 21
20 17
J5
16 10 9 1
8
19 26
9 14 18
J4
SEE NOTE 4 NEAR SIDE ONLY
5
10
14
17
25
28
32
37
40
27 31 35
36 44
ABCDFG
J1
J3
35 31
30 27
26 20 15 10 5 1
.12
.75
R3
2 1
R2
2 1
R1
2 1
.28 TYP
SEE NOTE 9



7 REF
4 REF
.093 MAX TYP SEE NOTE 3
.240
.220 TYP
6 REF

PARTIAL SECTION A-A
SCALE 4/1



3 REF
5 REF
.265 MAX
.093 MAX TYP SEE NOTE 3
2 REF

PARTIAL SECTION B-B
SCALE/4 1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE FIND NO. 2,3,6 AND 7 TO FIND NO. 1 PER ND1002136.
3. SEAL FIND NO.2,3,4,6 AND 7 TO FIND NO. 1 PER ND1002187 TYPE III SEALING COMPOUND SHALL NOT OBSCURE THE MARKINGS.
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
5. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
6. MARK .100/.140 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
7. MARK .060/.100 HIGH BLACK CHARACTERS IN INK PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10, NO PROTECTIVE COATING REQUIRED. CENTRALIZE AS SHOWN.
8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289, TYPE II, PRIOR TO THE INSTALLATION OF ANY FIND NUMBERS IN HEADER, ALL AROUND BETWEEN VIEWING PLANES EXCEPT SPOTFACED AREAS, TAPPED HOLES AND THE AREA UNDER FIND NO.3 AND 7 OF J1 AND EXTENDING .06 MAXIMUM BEYOND THEIR OUTER PERIPHERY
9. IDENTIFY WITH PART NO. PER ND 1002019
10. PAINT THERMAL INTERFACE, PLANE -A- AND OVERLAP ADJACENT VERTICAL SURFACE .10 TO .20 INCHES, PER ND 1002291, TYPE III, USING ZINC CHROMATE PRIMER PER MIL-P-8585 AND PAINT 1012543-003. ALL TAPPED HOLES TO BE FREE OF PAINT. DRY PAINT THICKNESS TO BE .002 INCH MAXIMUM, IN PLANE -A- ONLY.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
10	1008819-001	SLEEVE, MINIATURE GROUNDING, FEMALE	7
10	1008818-008	CONTACT, WRAPOST MINIATURE FEMALE GROUND	6
2	MS16555-627	PIN, STRAIGHT, HEADLESS (DOWEL)	5
8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007014	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Miller 27 APR 66
CHECKED [illegible] 4 May 66
APPROVED [illegible] 10 May 66
APPROVED [illegible]
APPROVED MIT M. [illegible] 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007019
SCALE 1/1
SHEET 1 OF 1

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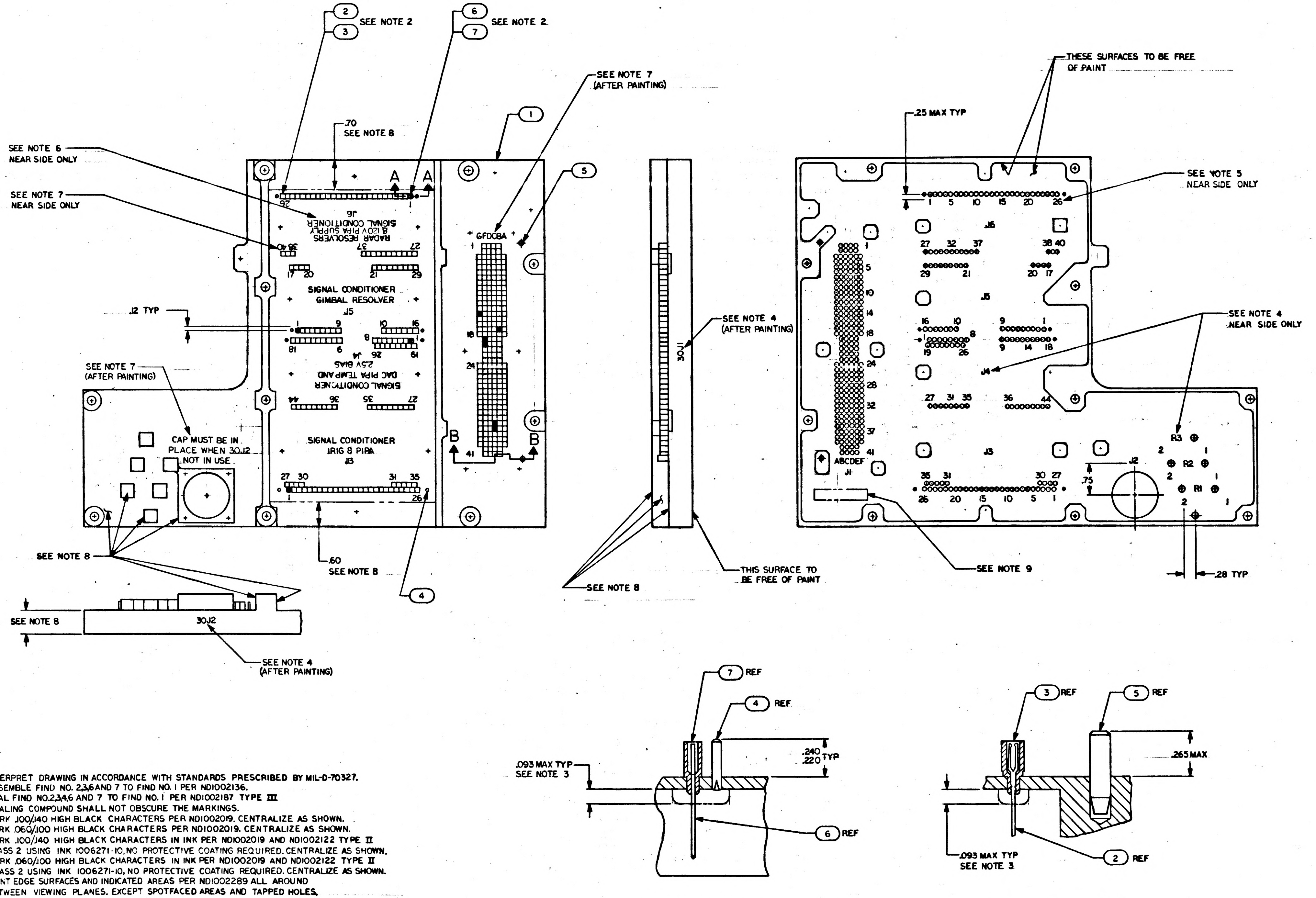
REVISIONS 2F69P

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



SEE NOTE 2
2
3
6
7
SEE NOTE 7 (AFTER PAINTING)
1
5
.70 SEE NOTE 8
SEE NOTE 6 NEAR SIDE ONLY
SEE NOTE 7 NEAR SIDE ONLY
A
A
J6
SIGNAL CONDITIONER
RADAR RESOLVERS
& 12V PIPA SUPPLY
SIGNAL CONDITIONER
GIMBAL RESOLVER
J5
J4
SIGNAL CONDITIONER
DAC PIPA TEMP AND
2.5V BIAS
SIGNAL CONDITIONER
IRIG 8 PIPA
J3
.12 TYP
GFDCBA
B
B
SEE NOTE 7 (AFTER PAINTING)
CAP MUST BE IN PLACE WHEN 30J12 NOT IN USE
SEE NOTE 8
.60 SEE NOTE 8
4
30J12
SEE NOTE 4 (AFTER PAINTING)
30J11
SEE NOTE 8
THIS SURFACE TO BE FREE OF PAINT
THESE SURFACES TO BE FREE OF PAINT
.25 MAX TYP
SEE NOTE 5 NEAR SIDE ONLY
SEE NOTE 4 NEAR SIDE ONLY
ABCDEF
J1
J2
R1
R2
R3
.75
SEE NOTE 9
.28 TYP
7 REF
4 REF
.093 MAX TYP SEE NOTE 3
.240 .220 TYP
6 REF
3 REF
5 REF
.265 MAX
2 REF
.093 MAX TYP SEE NOTE 3

PARTIAL SECTION A-A
SCALE 4/1

PARTIAL SECTION B-B
SCALE/4 1

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
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8. PAINT EDGE SURFACES AND INDICATED AREAS PER ND1002289 ALL AROUND BETWEEN VIEWING PLANES. EXCEPT SPOTFACED AREAS AND TAPPED HOLES.
9. IDENTIFY WITH PART NO. PER ND1002019.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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10	1008818-008	CONTACT, WRAPOST-MINIATURE FEMALE GROUND	6
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8	1010620-7	PIN, GUIDE	4
366	1006774	INSULATOR, WRAPOST-FEMALE, MINIATURE	3
366	1006781-10	CONTACT, WRAPOST-FEMALE, MINIATURE	2
1	6008056	HEADER INSEP ASSY	1

011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007014	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .XX .02 .XXX .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Miller 27 APR 66
CHECKED L. Hood 4 May 66
APPROVED V. G. Kapriano 10 MAY 66
APPROVED 10 May 66
APPROVED MIT M. C. Mulcahy 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER SUBASSEMBLY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007019
SCALE 1/1
SHEET 1 OF 1

6007019

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 29122

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

QTY	PART NO.	DESCRIPTION
1	1008841	GASKET, RETAINED
6	1008874-036	SCREW, CAP HEX SOC. HD.
4	1008874-037	SCREW, CAP HEX SOC. HD.
10	2004148-006	WASHER, FLAT

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6015000	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN		18May1966
CHECKED		20May66
APPROVED	V. A.	23MAY66
APPROVED		23May66
APPROVED MIT	A. C. METZGER	5-24-66
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION KIT
SIG. CONDITIONER ASSY TO PSA
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007020
SCALE —		SHEET 1 OF 1

6007020

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 29122

Ⓝ SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

QTY	PART NO.	DESCRIPTION
1	1008841	GASKET, RETAINED
8	1008874-036	SCREW, CAP HEX SOC. HD.
4	1008874-037	SCREW, CAP HEX SOC. HD.
12	2004148-006	WASHER, FLAT

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6015000	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	Louis S. Lowe	19 May 1966
CHECKED	L. Hood	20 May 66
APPROVED	V. G. Kagrian	23 May 66
APPROVED		23 May 66
APPROVED MIT	A. C. METZGER	5-2-66
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INSTALLATION KIT
SIG. CONDITIONER ASSY TO PSA
LEM FLIGHT QUAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6007021

SCALE — SHEET 1 OF 1

6007021

APPLICATION		REVISIONS 27931			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
2007090-041 2007090-021	2007222-021	A	REVISED PER TDRR 24961	7 JAN 66	BAT

REV STATUS OF SHEETS																	
REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG NO.
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Janovirate DATE 27 SEP 65
CHECKED W. Diehl 27 Sep. '65
APPROVAL Dale Jensen 27 Sep 65
APPROVAL M. D Birnbaum 28 Sep 65

LEAD SET AA, ELECTRICAL-
CDU ELECTRONICS TRAY X LEM

PER LETTER
NASA APPROVAL
MIT APPROVAL W. Kupfer 5 Oct 65

CODE IDENT NO.	SIZE		REV
80230	A	6007033	A

CONTRACT NAS 9-497
SCALE NONE
SHEET 1 OF 16

LUD

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-C-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 2 OF 16

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
3	1	1	1010807- 5	WIRE, 24AWG, WHITE
3	2	1	1010807- 19	WIRE, 24AWG, RED
3	3	1	1010807- 20	WIRE, 24AWG, BLUE
3	4	1	1010807- 21	WIRE, 24AWG, YELLOW

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 3 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	3		X2-236 X2-136					.81 .81	NO NO			
AA 2	3		X2-136 X2-122					.81 .81	NO NO			
AA 3	3		X2-122 X1-122					.81 .81	NO NO			
AA 4	3		X1-122 X1-121					.81 .81	NO NO			
AA 5	3		X1-121 X2-112					.81 .81	NO NO			
AA 6	3		X2-112 X2-212					.81 .81	NO NO			
AA 7	3		X2-212 X4-209					.81 .81	NO NO			
AA 8	3		X4-209 X2-160					.81 .81	NO NO			
AA 9	3		X2-160 X2-260					.81 .81	NO NO			
AA 10	3		X2-260 X3-160					.81 .81	NO NO			
AA 11	3		X3-160 X3-167					.81 .81	NO NO			
AA 12	3		X3-167 X1-263					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 4 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	3		X1-152 X4-204					.81 .81	NO NO			
AA 14	3		X1-152 X4-204					.81 .81	NO NO			
AA 15	3		X1-161 X4-205					.81 .81	NO NO			
AA 16	3		X1-161 X4-205					.81 .81	NO NO			
AA 17	3		X3-216 X4-210					.81 .81	NO NO			
AA 18	3		X4-210 X3-224					.81 .81	NO NO			
AA 19	3		X53-236 X4-217					.81 .81	NO NO			
AA 20	3		X53-236 X4-217					.81 .81	NO NO			
AA 21	3		X53-436 X4-218					.81 .81	NO NO			
AA 22	3		X53-436 X4-218					.81 .81	NO NO			
AA 23	3		X53-238 X4-219					.81 .81	NO NO			
AA 24	3		X53-238 X4-219					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 5 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	3		X53-119 X4-220					.81 .81	NO NO			
AA 26	3		X53-119 X4-220					.81 .81	NO NO			
AA 27	3		X4-211 X51-141					.81 .81	NO NO			
AA 28	3		X51-141 X4-212					.81 .81	NO NO			
AA 29	3		X4-212 X51-341					.81 .81	NO NO			
AA 30	3		X51-341 X4-213					.81 .81	NO NO			
AA 31	3		X4-213 X51-242					.81 .81	NO NO			
AA 32	3		X51-242 X4-214					.81 .81	NO NO			
AA 33	3		X4-214 X51-143					.81 .81	NO NO			
AA 34	3		X51-143 X4-215					.81 .81	NO NO			
AA 35	3		X4-215 X51-343					.81 .81	NO NO			
AA 36	3		X51-343 X4-216					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE REV LTR A
SHEET 6 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	3		X4-216 X51-244					.81 .81	NO NO			
AA 38			DELETED									
AA 39	3		X4-206 X6-112					.81 .81	NO NO			
AA 40	3		X6-112 X6-212					.81 .81	NO NO			
AA 41	3		X6-212 X8-112					.81 .81	NO NO			
AA 42	3		X8-112 X8-212					.81 .81	NO NO			
AA 43	3		X8-212 X12-112					.81 .81	NO NO			
AA 44	3		X12-112 X12-212					.81 .81	NO NO			
AA 45	3		X12-212 X14-112					.81 .81	NO NO			
AA 46	3		X14-112 X14-212					.81 .81	NO NO			
AA 47	3		X14-212 X14-236					.81 .81	NO NO			
AA 48	3		X14-236 X14-136					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE REV LTR A
SHEET 7 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 49	3		X14-136 X14-134					.81 .81	NO NO			
AA 50	3		X14-134 X8-236					.81 .81	NO NO			
AA 51	3		X8-236 X8-136					.81 .81	NO NO			
AA 52	3		X8-136 X8-134					.81 .81	NO NO			
AA 53	3		X8-134 X4-206					.81 .81	NO NO			
AA 54	3		X4-208 X6-136					.81 .81	NO NO			
AA 55	3		X6-136 X6-236					.81 .81	NO NO			
AA 56	3		X6-236 X5-245					.81 .81	NO NO			
AA 57	3		X5-245 X5-166					.81 .81	NO NO			
AA 58	3		X5-166 X6-160					.81 .81	NO NO			
AA 59	3		X6-160 X6-260					.81 .81	NO NO			
AA 60	3		X6-260 X8-160					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE REV LTR A
SHEET 8 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 61	3		X8-160 X8-260					.81 .81	NO NO			
AA 62	3		X8-260 X4-208					.81 .81	NO NO			
AA 63	3		X4-207 X12-136					.81 .81	NO NO			
AA 64	3		X12-136 X12-236					.81 .81	NO NO			
AA 65	3		X12-236 X11-245					.81 .81	NO NO			
AA 66	3		X11-245 X11-166					.81 .81	NO NO			
AA 67	3		X11-166 X12-160					.81 .81	NO NO			
AA 68	3		X12-160 X12-260					.81 .81	NO NO			
AA 69	3		X12-260 X14-160					.81 .81	NO NO			
AA 70	3		X14-160 X14-260					.81 .81	NO NO			
AA 71	3		X14-260 X4-207					.81 .81	NO NO			
AA 72	2		X1-140 X4-107					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE REV LTR A
SHEET 9 OF 16

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 73	2		X1-140 X4-107					.81 .81	NO NO			
AA 74	2		X1-247 X4-108					.81 .81	NO NO			
AA 75	2		X1-247 X4-108					.81 .81	NO NO			
AA 76			DELETED									
AA 77	2		X2-124 X2-224					.81 .81	NO NO			
AA 78	2		X2-224 X4-106					.81 .81	NO NO			
AA 79	2		X4-105 X2-248					.81 .81	NO NO			
AA 80	2		X2-248 X2-148					.81 .81	NO NO			
AA 81	2		X2-148 X3-260					.81 .81	NO NO			
AA 82	2		X4-109 X51-340					.81 .81	NO NO			
AA 83	2		X51-340 X4-110					.81 .81	NO NO			
AA 84	2		X4-110 X51-241					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 10 OF 16

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 85	2		X51-241 X4-111					.81 .81	NO NO			
AA 86	2		X4-111 X51-142					.81 .81	NO NO			
AA 87	2		X51-142 X4-112					.81 .81	NO NO			
AA 88	2		X4-112 X51-342					.81 .81	NO NO			
AA 89	2		X51-342 X4-113					.81 .81	NO NO			
AA 90	2		X4-113 X51-243					.81 .81	NO NO			
AA 91	2		X51-243 X4-114					.81 .81	NO NO			
AA 92	2		X4-114 X51-144					.81 .81	NO NO			
AA 93	2		X4-101 X14-224					.81 .81	NO NO			
AA 94	2		X14-224 X14-124					.81 .81	NO NO			
AA 95	2		X14-124 X12-224					.81 .81	NO NO			
AA 96	2		X12-224 X12-124					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 11 OF 16

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 97	2		X12-124 X4-102					.81 .81	NO NO			
AA 98	2		X4-102 X6-124					.81 .81	NO NO			
AA 99	2		X6-124 X6-224					.81 .81	NO NO			
AA 100	2		X6-224 X8-124					.81 .81	NO NO			
AA 101	2		X8-124 X8-224					.81 .81	NO NO			
AA 102	2		X8-224 X4-101					.81 .81	NO NO			
AA 103	2		X4-103 X14-248					.81 .81	NO NO			
AA 104	2		X14-248 X14-148					.81 .81	NO NO			
AA 105	2		X14-148 X12-248					.81 .81	NO NO			
AA 106	2		X12-248 X12-148					.81 .81	NO NO			
AA 107	2		X12-148 X4-104					.81 .81	NO NO			
AA 108	2		X4-104 X6-148					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 12 OF 16

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 109	2		X6-148 X6-248					.81 .81	NO NO			
AA 110	2		X6-248 X8-148					.81 .81	NO NO			
AA 111	2		X8-148 X8-248					.81 .81	NO NO			
AA 112	2		X8-248 X4-103					.81 .81	NO NO			
AA 113	4		X15-243 X15-233					.81 .81	NO NO			
AA 114	4		X15-233 X15-126					.81 .81	NO NO			
AA 115	4		X15-126 X15-209					.81 .81	NO NO			
AA 116	4		X15-209 X13-120					.81 .81	NO NO			
AA 117	4		X13-120 X11-144					.81 .81	NO NO			
AA 118	4		X15-264 X15-260					.81 .81	NO NO			
AA 119	4		X15-260 X15-250					.81 .81	NO NO			
AA 120	4		X15-250 X15-208					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 13 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 121	4		X15-208 X15-244					.81 .81	NO NO			
AA 122	4		X15-244 X16-210					.81 .81	NO NO			
AA 123	4		X16-210 X16-250					.81 .81	NO NO			
AA 124	4		X16-250 X16-163					.81 .81	NO NO			
AA 125	4		X15-171 X16-140					.81 .81	NO NO			
AA 126	4		X9-243 X9-233					.81 .81	NO NO			
AA 127	4		X9-233 X9-126					.81 .81	NO NO			
AA 128	4		X9-126 X9-209					.81 .81	NO NO			
AA 129	4		X9-209 X7-120					.81 .81	NO NO			
AA 130	4		X7-120 X5-144					.81 .81	NO NO			
AA 131	4		X9-264 X9-260					.81 .81	NO NO			
AA 132	4		X9-260 X9-250					.81 .81	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 133	4		X9-250 X9-208					.81 .81	NO NO			
AA 134	4		X9-208 X9-244					.81 .81	NO NO			
AA 135	4		X9-244 X10-210					.81 .81	NO NO			
AA 136	4		X10-210 X10-250					.81 .81	NO NO			
AA 137	4		X10-250 X10-163					.81 .81	NO NO			
AA 138	4		X9-171 X10-140					.81 .81	NO NO			
AA 139	1		X53-136 X4-131					.81 .81	NO NO			
AA 140	1		X53-336 X4-231					.81 .81	NO NO			
AA 141	3		X3-134 X3-132					.81 .81	NO NO			
AA 142	3		X3-132 X3-224					.81 .81	NO NO			
AA 143	3		X3-216 X3-213					.81 .81	NO NO			
AA 144	3		X3-213 X3-113					.81 .81	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 145	3		X3-113 X3-105					.81 .81	NO NO			
AA 146	3		X3-105 X3-103					.81 .81	NO NO			

APPLICATION	
NEXT ASSY	USED ON
2007090-041 2007090-021	2007222-021

REVISIONS 22931			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 24961	7 JAN 66	J. PAT
B	REVISED PER TDRR-27151	22-MAR-66	B. EF

REV STATUS OF SHEETS																	
REV		B	B	A	B	A	A	A	A	A	A	A	A	A	A	A	B
SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Janowiak DATE 27 SEP 65
CHECKED W. Diehl 27 Sep. '65
APPROVAL Dale Jensen 27 Sep 65
APPROVAL M. D Birnbaum 28 Sep 65
NOT REQUIRED PER LETTER
NASA APPROVAL
MIT APPROVAL 5 Oct 65
CONTRACT NAS 9-497

LEAD SET AA, ELECTRICAL-CDU ELECTRONICS TRAY X LEM

CODE IDENT NO.	SIZE		REV
80230	A	6007033	B
SCALE NONE		SHEET 1 OF 16	

LVD

NOTE NUMBER	GENERAL NOTES DESCRIPTION
1	NOTE ONE IS NOT APPLICABLE
2	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
3	VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.
4	WIRE WRAP ALL TERMINATIONS PER ND1002031.
5	WIRE WRAP THE SPECIFIED CIRCUIT POINT ON THE FIRST LEVEL (Z1) OF THE WIRE WRAP POST.
6	WIRE WRAP THE SPECIFIED CIRCUIT POINT ON THE SECOND LEVEL (Z2) OF THE WIRE WRAP POST.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR B
SHEET 2 OF 16

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
3	1	1	1010807- 5	WIRE, 24AWG, WHITE
3	2	1	1010807- 19	WIRE, 24AWG, RED
3	3	1	1010807- 20	WIRE, 24AWG, BLUE
3	4	1	1010807- 21	WIRE, 24AWG, YELLOW

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 3 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 1	3		X2-236 X2-136					.81 .81	NO NO			
AA 2	3		X2-136 X1-122					.81 .81	NO NO			
AA 3	3		X2-122 X1-229					.81 .81	NO NO			SEE NOTE 5
AA 4	3		X1-122 X1-121					.81 .81	NO NO			
AA 5	3		X1-121 X2-112					.81 .81	NO NO			
AA 6	3		X2-112 X2-212					.81 .81	NO NO			
AA 7	3		X2-212 X4-209					.81 .81	NO NO			
AA 8	3		X4-209 X2-160					.81 .81	NO NO			
AA 9	3		X2-160 X2-260					.81 .81	NO NO			
AA 10	3		X2-260 X3-160					.81 .81	NO NO			
AA 11	3		X3-160 X3-167					.81 .81	NO NO			
AA 12	3		X3-167 X1-263					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR B
SHEET 4 OF 16

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	3		X1-152 X4-204					.81 .81	NO NO			
AA 14	3		X1-152 X4-204					.81 .81	NO NO			
AA 15	3		X1-161 X4-205					.81 .81	NO NO			
AA 16	3		X1-161 X4-205					.81 .81	NO NO			
AA 17	3		X3-216 X4-210					.81 .81	NO NO			
AA 18	3		X4-210 X3-224					.81 .81	NO NO			
AA 19	3		X53-236 X4-217					.81 .81	NO NO			
AA 20	3		X53-236 X4-217					.81 .81	NO NO			
AA 21	3		X53-436 X4-218					.81 .81	NO NO			
AA 22	3		X53-436 X4-218					.81 .81	NO NO			
AA 23	3		X53-238 X4-219					.81 .81	NO NO			
AA 24	3		X53-238 X4-219					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 5 OF 16

LEAD SET AA ▼ 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	3		X53-119 X4-220					.81 .81	NO NO			
AA 26	3		X53-119 X4-220					.81 .81	NO NO			
AA 27	3		X4-211 X51-141					.81 .81	NO NO			
AA 28	3		X51-141 X4-212					.81 .81	NO NO			
AA 29	3		X4-212 X51-341					.81 .81	NO NO			
AA 30	3		X51-341 X4-213					.81 .81	NO NO			
AA 31	3		X4-213 X51-242					.81 .81	NO NO			
AA 32	3		X51-242 X4-214					.81 .81	NO NO			
AA 33	3		X4-214 X51-143					.81 .81	NO NO			
AA 34	3		X51-143 X4-215					.81 .81	NO NO			
AA 35	3		X4-215 X51-343					.81 .81	NO NO			
AA 36	3		X51-343 X4-216					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 6 OF 16

MIL 2084 9-65

LEAD SET AA ▼ 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	3		X4-216 X51-244					.81 .81	NO NO			
AA 38			DELETED									
AA 39	3		X4-206 X6-112					.81 .81	NO NO			
AA 40	3		X6-112 X6-212					.81 .81	NO NO			
AA 41	3		X6-212 X8-112					.81 .81	NO NO			
AA 42	3		X8-112 X8-212					.81 .81	NO NO			
AA 43	3		X8-212 X12-112					.81 .81	NO NO			
AA 44	3		X12-112 X12-212					.81 .81	NO NO			
AA 45	3		X12-212 X14-112					.81 .81	NO NO			
AA 46	3		X14-112 X14-212					.81 .81	NO NO			
AA 47	3		X14-212 X14-236					.81 .81	NO NO			
AA 48	3		X14-236 X14-136					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 7 OF 16

MIL 2084 9-65

LEAD SET AA ▼ 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 49	3		X14-136 X14-134					.81 .81	NO NO			
AA 50	3		X14-134 X8-236					.81 .81	NO NO			
AA 51	3		X8-236 X8-136					.81 .81	NO NO			
AA 52	3		X8-136 X8-134					.81 .81	NO NO			
AA 53	3		X8-134 X4-206					.81 .81	NO NO			
AA 54	3		X4-208 X6-136					.81 .81	NO NO			
AA 55	3		X6-136 X6-236					.81 .81	NO NO			
AA 56	3		X6-236 X5-245					.81 .81	NO NO			
AA 57	3		X5-245 X5-166					.81 .81	NO NO			
AA 58	3		X5-166 X6-160					.81 .81	NO NO			
AA 59	3		X6-160 X6-260					.81 .81	NO NO			
AA 60	3		X6-260 X8-160					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 8 OF 16

MIL 2084 9-65

LEAD SET AA ▼ 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 61	3		X8-160 X8-260					.81 .81	NO NO			
AA 62	3		X8-260 X4-208					.81 .81	NO NO			
AA 63	3		X4-207 X12-136					.81 .81	NO NO			
AA 64	3		X12-136 X12-236					.81 .81	NO NO			
AA 65	3		X12-236 X11-245					.81 .81	NO NO			
AA 66	3		X11-245 X11-166					.81 .81	NO NO			
AA 67	3		X11-166 X12-160					.81 .81	NO NO			
AA 68	3		X12-160 X12-260					.81 .81	NO NO			
AA 69	3		X12-260 X14-160					.81 .81	NO NO			
AA 70	3		X14-160 X14-260					.81 .81	NO NO			
AA 71	3		X14-260 X4-207					.81 .81	NO NO			
AA 72	2		X1-140 X4-107					.81 .81	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 9 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 73	2		X1-140 X4-107					.81 .81	NO NO			
AA 74	2		X1-247 X4-108					.81 .81	NO NO			
AA 75	2		X1-247 X4-108					.81 .81	NO NO			
AA 76			DELETED									
AA 77	2		X2-124 X2-224					.81 .81	NO NO			
AA 78	2		X2-224 X4-106					.81 .81	NO NO			
AA 79	2		X4-105 X2-248					.81 .81	NO NO			
AA 80	2		X2-248 X2-148					.81 .81	NO NO			
AA 81	2		X2-148 X3-260					.81 .81	NO NO			
AA 82	2		X4-109 X51-340					.81 .81	NO NO			
AA 83	2		X51-340 X4-110					.81 .81	NO NO			
AA 84	2		X4-110 X51-241					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 10 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 85	2		X51-241 X4-111					.81 .81	NO NO			
AA 86	2		X4-111 X51-142					.81 .81	NO NO			
AA 87	2		X51-142 X4-112					.81 .81	NO NO			
AA 88	2		X4-112 X51-342					.81 .81	NO NO			
AA 89	2		X51-342 X4-113					.81 .81	NO NO			
AA 90	2		X4-113 X51-243					.81 .81	NO NO			
AA 91	2		X51-243 X4-114					.81 .81	NO NO			
AA 92	2		X4-114 X51-144					.81 .81	NO NO			
AA 93	2		X4-101 X14-224					.81 .81	NO NO			
AA 94	2		X14-224 X14-124					.81 .81	NO NO			
AA 95	2		X14-124 X12-224					.81 .81	NO NO			
AA 96	2		X12-224 X12-124					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 11 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 97	2		X12-124 X4-102					.81 .81	NO NO			
AA 98	2		X4-102 X6-124					.81 .81	NO NO			
AA 99	2		X6-124 X6-224					.81 .81	NO NO			
AA 100	2		X6-224 X8-124					.81 .81	NO NO			
AA 101	2		X8-124 X8-224					.81 .81	NO NO			
AA 102	2		X8-224 X4-101					.81 .81	NO NO			
AA 103	2		X4-103 X14-248					.81 .81	NO NO			
AA 104	2		X14-248 X14-148					.81 .81	NO NO			
AA 105	2		X14-148 X12-248					.81 .81	NO NO			
AA 106	2		X12-248 X12-148					.81 .81	NO NO			
AA 107	2		X12-148 X4-104					.81 .81	NO NO			
AA 108	2		X4-104 X6-148					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 12 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 109	2		X6-148 X6-248					.81 .81	NO NO			
AA 110	2		X6-248 X8-148					.81 .81	NO NO			
AA 111	2		X8-148 X8-248					.81 .81	NO NO			
AA 112	2		X8-248 X4-103					.81 .81	NO NO			
AA 113	4		X15-243 X15-233					.81 .81	NO NO			
AA 114	4		X15-233 X15-126					.81 .81	NO NO			
AA 115	4		X15-126 X15-209					.81 .81	NO NO			
AA 116	4		X15-209 X13-120					.81 .81	NO NO			
AA 117	4		X13-120 X11-144					.81 .81	NO NO			
AA 118	4		X15-264 X15-260					.81 .81	NO NO			
AA 119	4		X15-260 X15-250					.81 .81	NO NO			
AA 120	4		X15-250 X15-208					.81 .81	NO NO			

SIZE A
CODE IDENT NO. 80230
6007033
SCALE-NONE
REV LTR A
SHEET 13 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 121	4		X15-208					.81	NO			
			X15-244					.81	NO			
AA 122	4		X15-244					.81	NO			
			X16-210					.81	NO			
AA 123	4		X16-210					.81	NO			
			X16-250					.81	NO			
AA 124	4		X16-250					.81	NO			
			X16-163					.81	NO			
AA 125	4		X15-171					.81	NO			
			X16-140					.81	NO			
AA 126	4		X9-243					.81	NO			
			X9-233					.81	NO			
AA 127	4		X9-233					.81	NO			
			X9-126					.81	NO			
AA 128	4		X9-126					.81	NO			
			X9-209					.81	NO			
AA 129	4		X9-209					.81	NO			
			X7-120					.81	NO			
AA 130	4		X7-120					.81	NO			
			X5-144					.81	NO			
AA 131	4		X9-264					.81	NO			
			X9-260					.81	NO			
AA 132	4		X9-260					.81	NO			
			X9-250					.81	NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 14 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 A

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 133	4		X9-250					.81	NO			
			X9-208					.81	NO			
AA 134	4		X9-208					.81	NO			
			X9-244					.81	NO			
AA 135	4		X9-244					.81	NO			
			X10-210					.81	NO			
AA 136	4		X10-210					.81	NO			
			X10-250					.81	NO			
AA 137	4		X10-250					.81	NO			
			X10-163					.81	NO			
AA 138	4		X9-171					.81	NO			
			X10-140					.81	NO			
AA 139	1		X53-136					.81	NO			
			X4-131					.81	NO			
AA 140	1		X53-336					.81	NO			
			X4-231					.81	NO			
AA 141	3		X3-134					.81	NO			
			X3-132					.81	NO			
AA 142	3		X3-132					.81	NO			
			X3-224					.81	NO			
AA 143	3		X3-216					.81	NO			
			X3-213					.81	NO			
AA 144	3		X3-213					.81	NO			
			X3-113					.81	NO			

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR A	SHEET 15 OF 16

MIL 2084 9-65

LEAD SET AA 6007033 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 145	3		X3-113					.81	NO			
			X3-105					.81	NO			
AA 146	3		X3-105					.81	NO			
			X3-103					.81	NO			
AA 147	3		X1-228					.81	NO			SEE NOTE 5
			X2-236					.81	NO			
AA 148	3		X1-230					.81	NO			SEE NOTE 5
			X2-150					.81	NO			
AA 149	3		X1-229					.81	NO			SEE NOTE 6
			X1-228					.81	NO			SEE NOTE 6

SIZE	CODE IDENT NO.	
A	80230	6007033
SCALE-NONE	REV LTR B	SHEET 16 OF 16

MIL 2084 9-65

APPLICATION	
NEXT ASSY	USED ON
2007090-041 2007090-021	2007222-021

REVISIONS 22931

SYM	DESCRIPTION	DATE	APPROVAL

REV															
SHEET															
REV STATUS REV	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

INSTRUMENTATION LAB

DRAWN [illegible] 27 SEP 65

CHECKED W. [illegible] 27 Sep '65

APPROVAL Dale Jensen 27 Sep 65

APPROVAL M.J. Burnham 27 Sep 65

~~NASA APPROVAL~~ NOT REQUIRED PER LETTER 65-012

MIT APPROVAL [illegible]

CONTRACT NAS 9-497

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD SET AA, ELECTRICAL-CDU ELECTRONICS TRAY X LEM

CODE IDENT NO. 802[illegible] SIZE A 6007033 REV +

SCALE NONE SHEET 1 OF 15

LEAD SET AA 6007033

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 NOTE ONE IS NOT APPLICABLE

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 VENDOR ITEM - SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 6007033

SCALE-NONE | REV LTR + | SHEET 2 OF 15

MIL 2084 4-63

LEAD SET AA 6007033

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
3	1	1	1010807- 5	WIRE, 24AWG, WHITE
3	2	1	1010807- 19	WIRE, 24AWG, RED
3	3	1	1010807- 20	WIRE, 24AWG, BLUE
3	4	1	1010807- 21	WIRE, 24AWG, YELLOW

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 6007033

SCALE-NONE | REV LTR + | SHEET 3 OF 15

MIL 2084 4-63

LEAD SET AA 6007033

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA	1	3		X2-236 X2-136					.81 .81	NO NO			
AA	2	3		X2-136 X2-122					.81 .81	NO NO			
AA	3	3		X2-122 X1-122					.81 .81	NO NO			
AA	4	3		X1-122 X1-121					.81 .81	NO NO			
AA	5	3		X1-121 X2-112					.81 .81	NO NO			
AA	6	3		X2-112 X2-212					.81 .81	NO NO			
AA	7	3		X2-212 X4-209					.81 .81	NO NO			
AA	8	3		X4-209 X2-160					.81 .81	NO NO			
AA	9	3		X2-160 X2-260					.81 .81	NO NO			
AA	10	3		X2-260 X3-160					.81 .81	NO NO			
AA	11	3		X3-160 X3-167					.81 .81	NO NO			
AA	12	3		X3-167 X1-263					.81 .81	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 6007033

SCALE-NONE | REV LTR + | SHEET 4 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 13	3		X1-152 X4-204					.81 .81	NO NO			
AA 14	3		X1-152 X4-204					.81 .81	NO NO			
AA 15	3		X1-161 X4-205					.81 .81	NO NO			
AA 16	3		X1-161 X4-205					.81 .81	NO NO			
AA 17	3		X3-117 X4-210					.81 .81	NO NO			
AA 18	3		X4-210 X3-224					.81 .81	NO NO			
AA 19	3		X53-236 X4-217					.31 .81	NO NO			
AA 20	3		X53-236 X4-217					.81 .81	NO NO			
AA 21	3		X53-436 X4-218					.81 .81	NO NO			
AA 22	3		X53-436 X4-218					.81 .81	NO NO			
AA 23	3		X53-238 X4-219					.81 .81	NO NO			
AA 24	3		X53-238 X4-219					.81 .81	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	6007033
SCALE-NONE	REV LTR ◆	SHEET 5 OF 15

MIL 2064 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 25	3		X53-119 X4-220					.81 .81	NO NO			
AA 26	3		X53-119 X4-220					.81 .81	NO NO			
AA 27	3		X4-211 X51-141					.81 .81	NO NO			
AA 28	3		X51-141 X4-212					.81 .81	NO NO			
AA 29	3		X4-212 X51-341					.81 .81	NO NO			
AA 30	3		X51-341 X4-213					.81 .81	NO NO			
AA 31	3		X4-213 X51-242					.81 .81	NO NO			
AA 32	3		X51-242 X4-214					.81 .81	NO NO			
AA 33	3		X4-214 X51-143					.81 .81	NO NO			
AA 34	3		X51-143 X4-215					.81 .81	NO NO			
AA 35	3		X4-215 X51-343					.81 .81	NO NO			
AA 36	3		X51-343 X4-216					.81 .81	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	6007033
SCALE-NONE	REV LTR ◆	SHEET 6 OF 15

MIL 2064 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 37	3		X4-216 X51-244					.81 .81	NO NO			
AA 38	3		X51-244 X53-649					.81 .81	NO NO			
AA 39	3		X4-206 X6-112					.81 .81	NO NO			
AA 40	3		X6-112 X6-212					.81 .81	NO NO			
AA 41	3		X6-212 X8-112					.81 .81	NO NO			
AA 42	3		X8-112 X8-212					.81 .81	NO NO			
AA 43	3		X8-212 X12-112					.81 .81	NO NO			
AA 44	3		X12-112 X12-212					.81 .81	NO NO			
AA 45	3		X12-212 X14-112					.81 .81	NO NO			
AA 46	3		X14-112 X14-212					.81 .81	NO NO			
AA 47	3		X14-212 X14-236					.81 .81	NO NO			
AA 48	3		X14-236 X14-136					.81 .81	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	6007033
SCALE-NONE	REV LTR ◆	SHEET 7 OF 15

MIL 2064 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 49	3		X14-136 X14-134					.81 .81	NO NO			
AA 50	3		X14-134 X8-236					.81 .81	NO NO			
AA 51	3		X8-236 X8-136					.81 .81	NO NO			
AA 52	3		X8-136 X8-134					.81 .81	NO NO			
AA 53	3		X8-134 X4-206					.81 .81	NO NO			
AA 54	3		X4-208 X6-136					.81 .81	NO NO			
AA 55	3		X6-136 X6-236					.81 .81	NO NO			
AA 56	3		X6-236 X5-245					.81 .81	NO NO			
AA 57	3		X5-245 X5-166					.81 .81	NO NO			
AA 58	3		X5-166 X6-160					.81 .81	NO NO			
AA 59	3		X6-160 X6-260					.81 .81	NO NO			
AA 60	3		X6-260 X8-160					.81 .81	NO NO			

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	6007033
SCALE-NONE	REV LTR ◆	SHEET 8 OF 15

MIL 2064 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 61	3		X8-160 X8-260					.81 .81	NO NO			
AA 62	3		X8-260 X4-208					.81 .81	NO NO			
AA 63	3		X4-207 X12-136					.81 .81	NO NO			
AA 64	3		X12-136 X12-236					.81 .81	NO NO			
AA 65	3		X12-236 X11-245					.81 .81	NO NO			
AA 66	3		X11-245 X11-166					.81 .81	NO NO			
AA 67	3		X11-166 X12-160					.81 .81	NO NO			
AA 68	3		X12-160 X12-260					.81 .81	NO NO			
AA 69	3		X12-260 X14-160					.81 .81	NO NO			
AA 70	3		X14-160 X14-260					.81 .81	NO NO			
AA 71	3		X14-260 X4-207					.81 .81	NO NO			
AA 72	2		X1-140 X4-107					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE-NONE
REV LTR ◆
SHEET 9 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 73	2		X1-140 X4-107					.81 .81	NO NO			
AA 74	2		X1-247 X4-108					.81 .81	NO NO			
AA 75	2		X1-247 X4-108					.81 .81	NO NO			
AA 76	2		X3-120 X2-124					.81 .81	NO NO			
AA 77	2		X2-124 X2-224					.81 .81	NO NO			
AA 78	2		X2-224 X4-106					.81 .81	NO NO			
AA 79	2		X4-105 X2-248					.81 .81	NO NO			
AA 80	2		X2-248 X2-148					.81 .81	NO NO			
AA 81	2		X2-148 X3-260					.81 .81	NO NO			
AA 82	2		X4-109 X51-340					.81 .81	NO NO			
AA 83	2		X51-340 X4-110					.81 .81	NO NO			
AA 84	2		X4-110 X51-241					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE-NONE
REV LTR ◆
SHEET 10 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 85	2		X51-241 X4-111					.81 .81	NO NO			
AA 86	2		X4-111 X51-142					.81 .81	NO NO			
AA 87	2		X51-142 X4-112					.81 .81	NO NO			
AA 88	2		X4-112 X51-342					.81 .81	NO NO			
AA 89	2		X51-342 X4-113					.81 .81	NO NO			
AA 90	2		X4-113 X51-243					.81 .81	NO NO			
AA 91	2		X51-243 X4-114					.81 .81	NO NO			
AA 92	2		X4-114 X51-144					.81 .81	NO NO			
AA 93	2		X4-101 X14-224					.81 .81	NO NO			
AA 94	2		X14-224 X14-124					.81 .81	NO NO			
AA 95	2		X14-124 X12-224					.81 .81	NO NO			
AA 96	2		X12-224 X12-124					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE-NONE
REV LTR ◆
SHEET 11 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 97	2		X12-124 X4-102					.81 .81	NO NO			
AA 98	2		X4-102 X6-124					.81 .81	NO NO			
AA 99	2		X6-124 X6-224					.81 .81	NO NO			
AA 100	2		X6-224 X8-124					.81 .81	NO NO			
AA 101	2		X8-124 X8-224					.81 .81	NO NO			
AA 102	2		X8-224 X4-101					.81 .81	NO NO			
AA 103	2		X4-103 X14-248					.81 .81	NO NO			
AA 104	2		X14-248 X14-148					.81 .81	NO NO			
AA 105	2		X14-148 X12-248					.81 .81	NO NO			
AA 106	2		X12-248 X12-148					.81 .81	NO NO			
AA 107	2		X12-148 X4-104					.81 .81	NO NO			
AA 108	2		X4-104 X6-148					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE-NONE
REV LTR ◆
SHEET 12 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 109	2		X6-148 X6-248					.81 .81	NO NO			
AA 110	2		X6-248 X8-148					.81 .81	NO NO			
AA 111	2		X8-148 X8-248					.81 .81	NO NO			
AA 112	2		X8-248 X4-103					.81 .81	NO NO			
AA 113	4		X15-243 X15-233					.81 .81	NO NO			
AA 114	4		X15-233 X15-126					.81 .81	NO NO			
AA 115	4		X15-126 X15-209					.81 .81	NO NO			
AA 116	4		X15-209 X13-120					.81 .81	NO NO			
AA 117	4		X13-120 X11-144					.81 .81	NO NO			
AA 118	4		X15-264 X15-260					.81 .81	NO NO			
AA 119	4		X15-260 X15-250					.81 .81	NO NO			
AA 120	4		X15-250 X15-208					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE - NONE
REV LTR ◆
SHEET 13 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 121	4		X15-208 X15-244					.81 .81	NO NO			
AA 122	4		X15-244 X16-210					.81 .81	NO NO			
AA 123	4		X16-210 X16-250					.81 .81	NO NO			
AA 124	4		X16-250 X16-163					.81 .81	NO NO			
AA 125	4		X15-171 X16-140					.81 .81	NO NO			
AA 126	4		X9-243 X9-233					.81 .81	NO NO			
AA 127	4		X9-233 X9-126					.81 .81	NO NO			
AA 128	4		X9-126 X9-209					.81 .81	NO NO			
AA 129	4		X9-209 X7-120					.81 .81	NO NO			
AA 130	4		X7-120 X5-144					.81 .81	NO NO			
AA 131	4		X9-264 X9-260					.81 .81	NO NO			
AA 132	4		X9-260 X9-250					.81 .81	NO NO			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE - NONE
REV LTR ◆
SHEET 14 OF 15

MIL 2084 4-63

LEAD SET AA 6007033 ◆

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
AA 133	4		X9-250 X9-208					.81 .81	NO NO			
AA 134	4		X9-208 X9-244					.81 .81	NO NO			
AA 135	4		X9-244 X10-210					.81 .81	NO NO			
AA 136	4		X10-210 X10-250					.81 .81	NO NO			
AA 137	4		X10-250 X10-163					.81 .81	NO NO			
AA 138	4		X9-171 X10-140					.81 .81	NO NO			
AA 139	1		X53-136 X4-131					.81 .81	NO NO			
AA 140	1		X53-336 X4-231					.81 .81	NO NO			

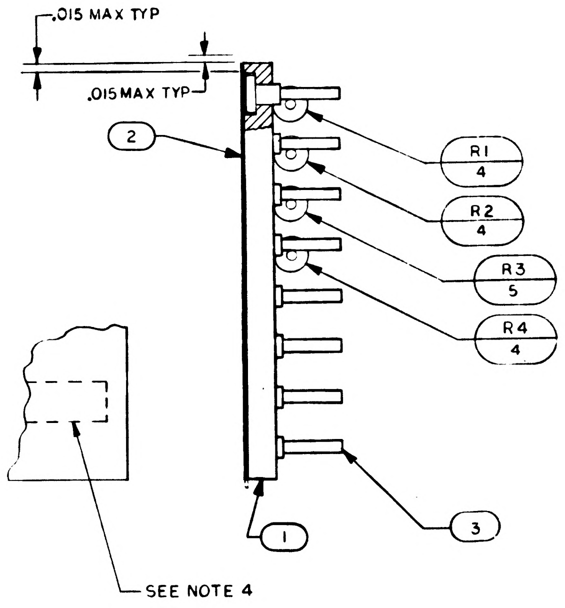
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
6007033
SCALE - NONE
REV LTR ◆
SHEET 15 OF 15

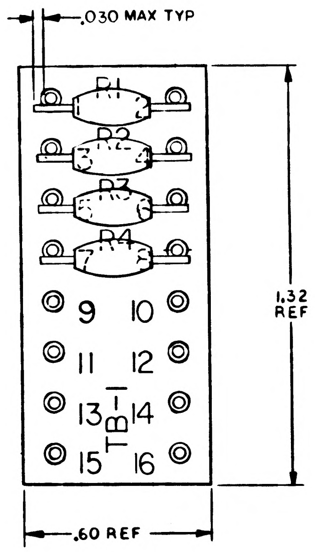
MIL 2084 4-63

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 28629

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29768	R	RWH	27 Jun 66	





NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. WELD PER ND 1002005
3. BOND FIND NO. 2 AND 3 TO FIND NO. 1 PER ND1002004
4. IDENTIFY WITH PART NO. PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1006750-39	RESISTOR	5
3	1006750-56	RESISTOR	4
16	1008000	TERMINAL LUG	3
1	6008054	INSULATOR, TERMINAL BOARD	2
1	6008053	TERMINAL BOARD	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007016	6007010
6007014	6007013
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN J. Koss 9 FEB 66
CHECKED [illegible] 14 Feb 66
APPROVED
APPROVED
APPROVED MIT [illegible] 5-10-66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD ASSY
BUFFER RESISTORS LEM SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6007040
SCALE 4/1
SHEET 1 OF 1

6007040A

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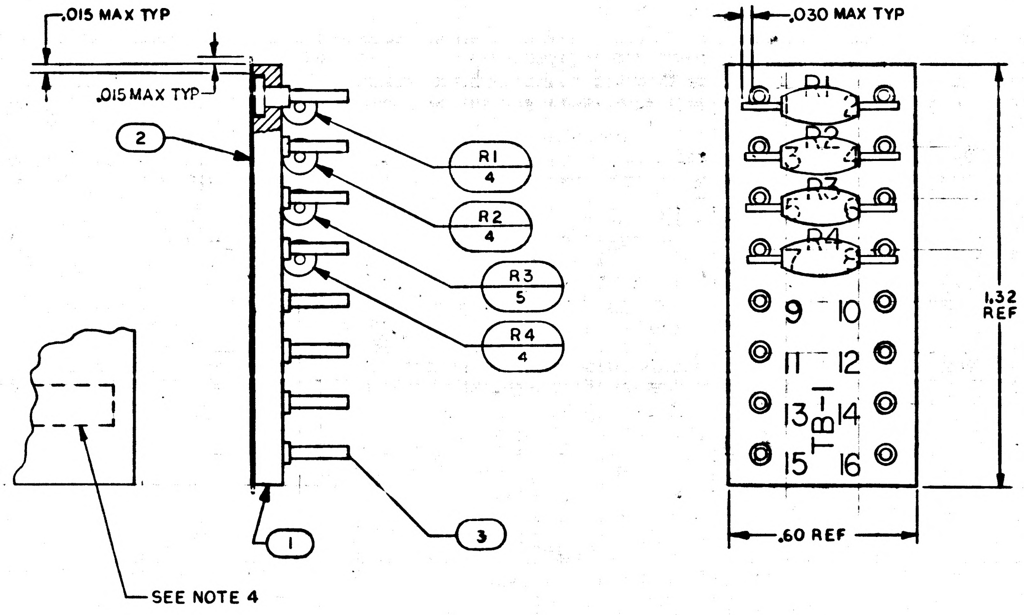
REVISIONS 28629

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. WELD PER ND 1002005
3. BOND FIND NO. 2 AND 3 TO FIND NO. 1 PER ND1002004
4. IDENTIFY WITH PART NO. PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1006750-39	RESISTOR	5
3	1006750-56	RESISTOR	4
12	1008000	TERMINAL LUG	3
1	6008054	INSULATOR, TERMINAL BOARD	2
1	6008053	TERMINAL BOARD	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007016	6007010
6007014	6007013
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± XX ± .02 XXX ± .005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN J Kosa 9 FEB 66
CHECKED R Bergeskey 14 Feb 66
APPROVED
APPROVED
APPROVED MIT W G Murphy 5-10-66
APPROVED MSC A. S. METZGER
DATE

TERMINAL BOARD ASSY
BUFFER RESISTORS
LEM SIGNAL CONDITIONER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6007040

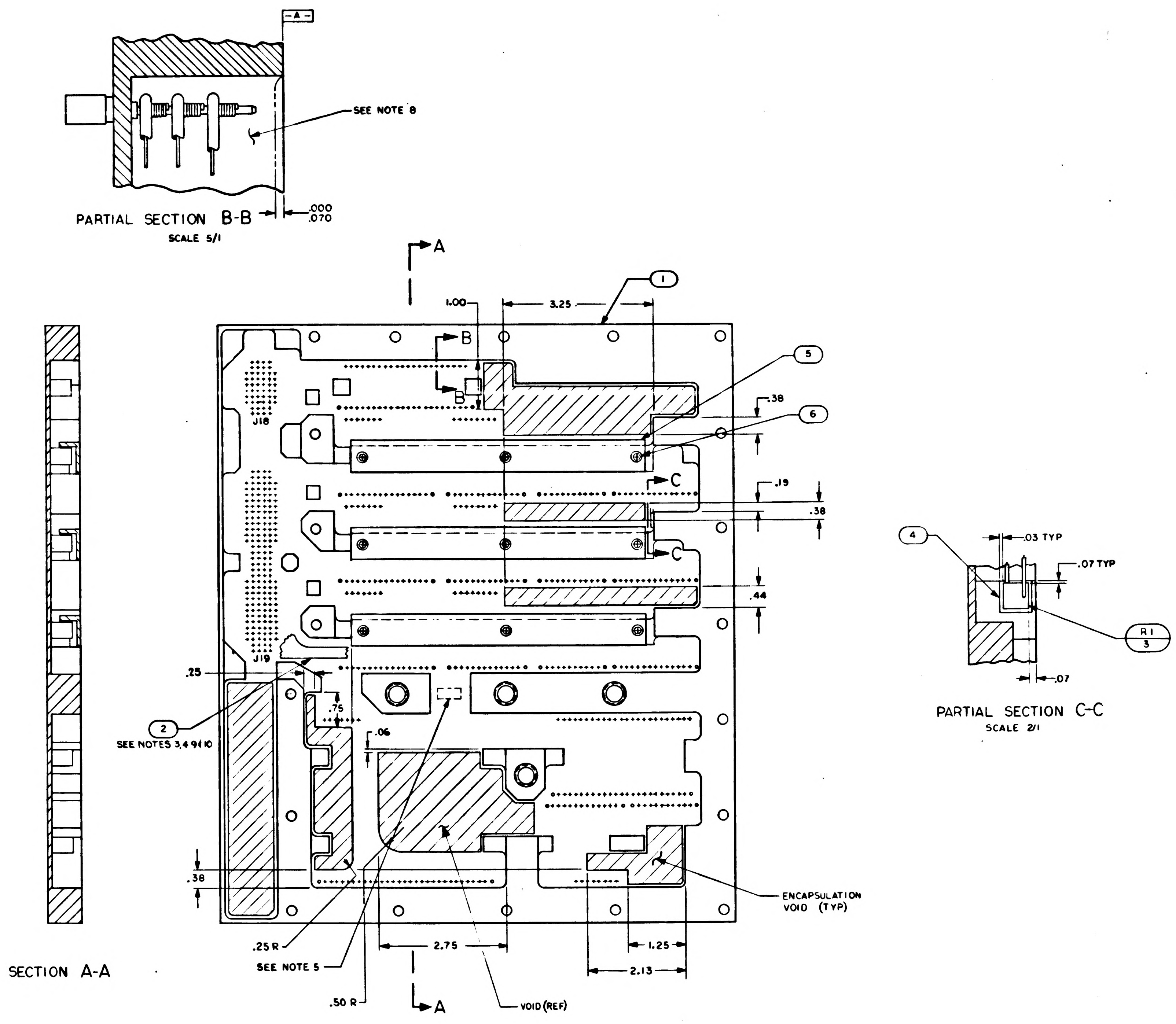
SCALE 4/1 SHEET 1 OF 1

MASTER

6007040

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 25432						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 28520	JW		16 MAY 66	



FROM	TO
R1-1	J19-A22
R1-2	J19-B22

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SOLDER LEADS OF FIND NO. 3 FROM APPLICABLE CHART PER ND1002071
3. ASSEMBLE LEAD SET TO FIND NO. 1
4. SPOT TIE LEAD SET PER ND1002032
5. IDENTIFY WITH PART NO. PER ND1002019 FARSIDE
6. PROCURE PER PS6007102
7. BOND FIND NO. 4 TO FIND NO. 1 PER ND1002004, TYPE I. APPLY A THIN COAT OF ADHESIVE PER ND1002004, TYPE I OVER FIND NO. 4 AND ADJACENT AREA TO BOND FIND NO. 3 TO FIND NO. 4
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT.
   ~~ENCAPSULATION OPTIONAL ON SIDES OF ALL .670 HEIGHT SURFACES IN VOID AREAS .000/.125~~.
   ENCAPSULATE .032/.125 ALL SIDES ADJACENT TO VOIDS.
   ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094
9. BOND LEAD SET TO FIND NO. 1 PER ND1002004, TYPE I AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 x 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
9	NAS 1352-08-6	SCREW, CAP, SOCKET HEAD	6
3	6008032	ANGLE SUPPORT	5
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	4
1	1008833-001	RESISTOR, TEMP SENSITIVE, WAFER	3
1	6014524	LEAD SET AA ELECTRICAL	2
1	6007007-011	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	E. Gross	27 JAN 66
CHECKED		27 Jan 66
APPROVED		31 JAN 66
APPROVED		
APPROVED MIT		
APPROVED MSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

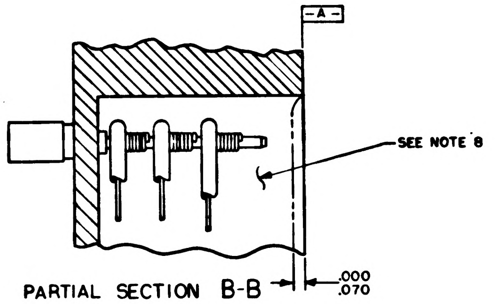
PTA HEADER ASSEMBLY

CODE IDENT NO	SIZE	DRAWING NO.
80230	E	6007102
SCALE 1/1		SHEET 1 OF 1

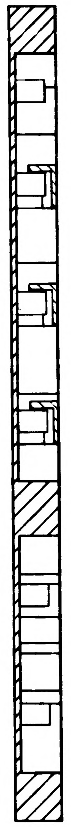
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 25832

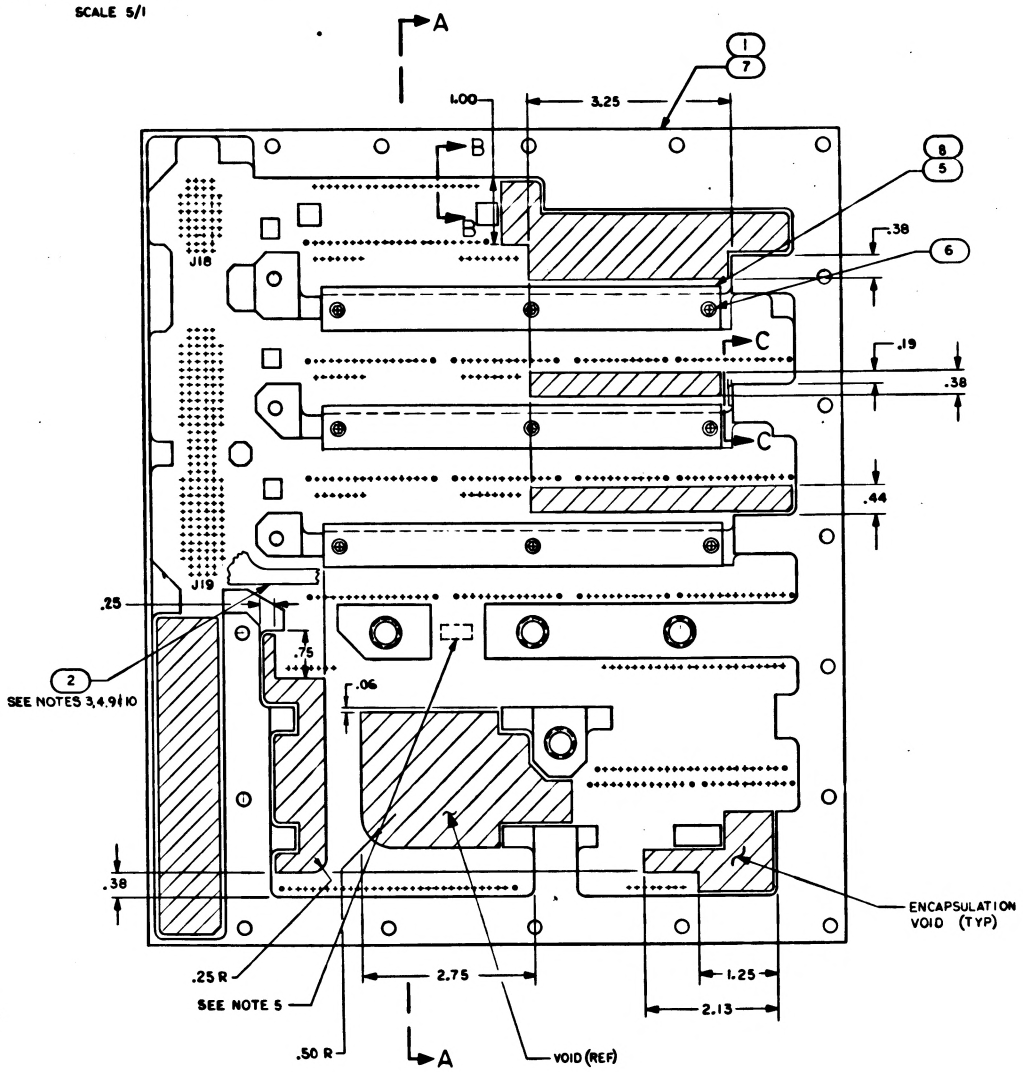
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 28520	JW		16 MAY 66	
B		REVISED PER TDRR 31180	EC	JI	29 SEP 66	

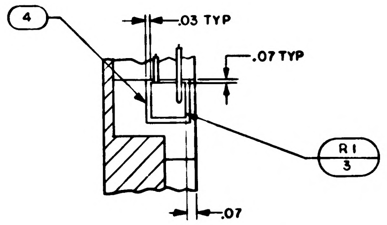


PARTIAL SECTION B-B
SCALE 5/1



SECTION A-A





PARTIAL SECTION C-C
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SOLDER LEADS OF FIND NO. 3 FROM APPLICABLE CHART PER ND1002071
3. ASSEMBLE LEAD SET TO FIND NO. 1 OR FIND NO.7
4. SPOT TIE LEAD SET PER ND1002032
5. IDENTIFY WITH PART NO. PER ND1002019 FARSIDE
6. PROCURE PER PS6007102
7. BOND FIND NO.4 TO FIND NO.1 OR FIND NO.7 PER ND1002004, TYPE I. APPLY A THIN COAT OF ADHESIVE PER ND1002004, TYPE I OVER FIND NO. 4 AND ADJACENT AREA TO BOND FIND NO. 3 TO FIND NO. 4
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT.
   ~~ENCAPSULATION OPTIONAL ON SIDES OF ALL .070 HEIGHT SURFACES IN VOID AREAS .000/.125.~~
   ENCAPSULATE .032/.125 ALL SIDES ADJACENT TO VOIDS.
   ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094
9. BOND LEAD TO FIND NO.1 OR FIND NO.7 PER ND1002004, TYPE I AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 x 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.

FROM	TO
R1-1	J19-A22
R1-2	J19-B22

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	-	6010669	ANGLE SUPPORT	8
1	-	6007007-021	HEADER SUBASSEMBLY	7
9	9	NAS 1352-08-6	SCREW, CAP, SOCKET HEAD	6
-	3	6008032	ANGLE SUPPORT	5
AR	AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	4
1	1	1008833-001	RESISTOR, TEMP SENSITIVE, WAFER	3
1	1	6014524	LEAD SET AA ELECTRICAL	2
-	1	6007007-011	HEADER SUBASSEMBLY	1
021	011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Gross 27 JAN 66
CHECKED R. L. Kingsbury 27 Jan 66
APPROVED V A Vaccaro 31 JAN 66
APPROVED
APPROVED MIT
A. G. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PTA HEADER
ASSEMBLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007102

SCALE 1/1
SHEET 1 OF 1

APOLLO G&N Specification
PS6007102 REV B
Original Issue Date: 16 MAR '66
Release Authority: TDRR 27300
Class A **Release**
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY PTA (LEM)

DRAWING NO. 6007102

Record of Revisions

Ⓜ

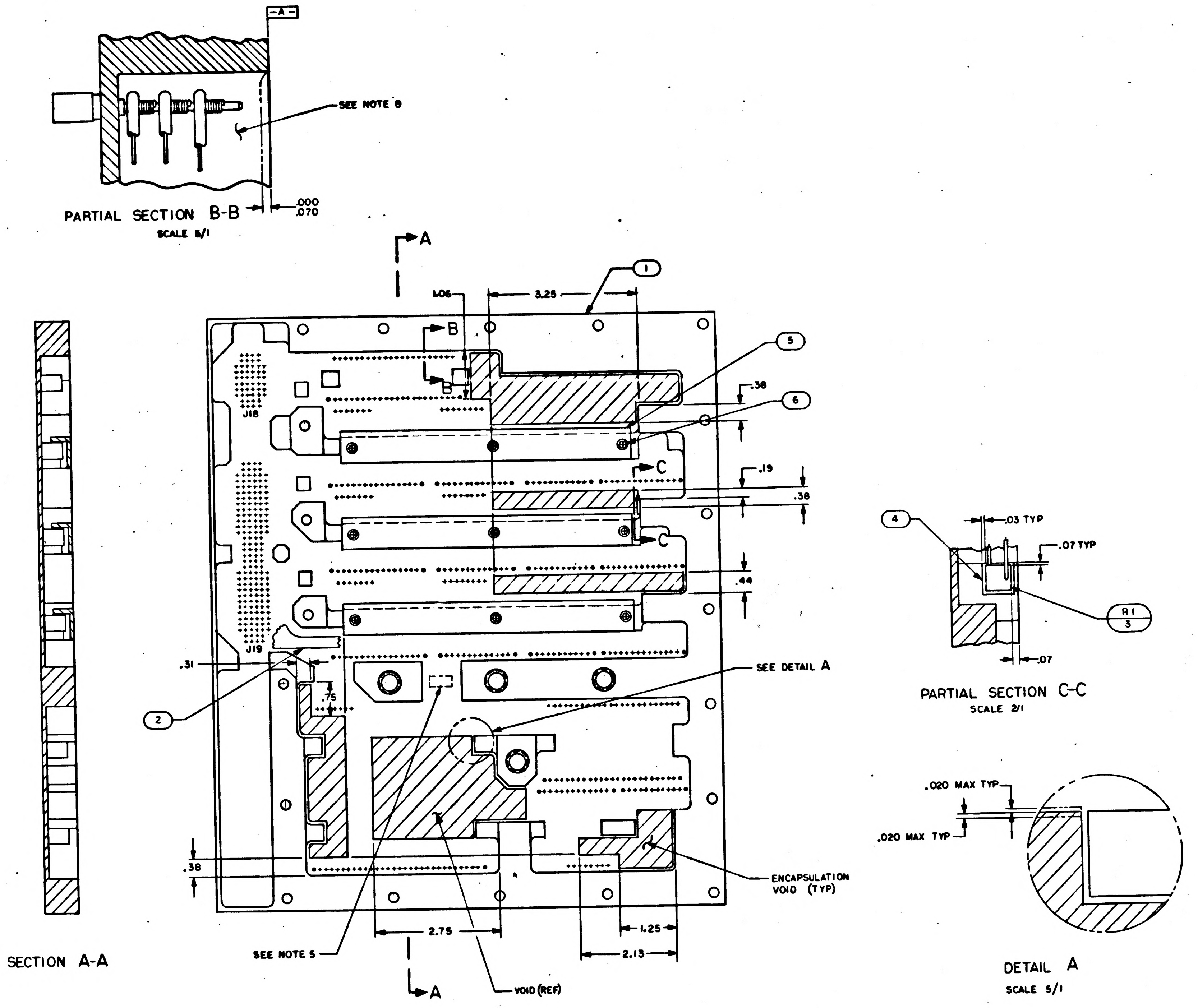
Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30610	5, 6	EA	--
9/22/66	B	31181	2	MGM-EA	ACM

This specification consists of page 1 to 9 inclusive.

APPROVALS	A. C. METZG NASA/MSC	3/14/66 MIT/IL	D. Jensen 9 MAR 66 ACSP

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 25832						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



FROM	TO
R1-1	J19-A22
R1-2	J19-B22

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SOLDER LEADS OF FIND NO. 3 FROM APPLICABLE CHART PER ND1002071
3. ASSEMBLE LEAD SET TO FIND NO. 1
4. SPOT TIE LEAD SET PER ND1002032
5. IDENTIFY WITH PART NO. PER ND1002019 FARSIDE
6. PROCURE PER PS6007102
7. BOND FIND NO. 4 TO FIND NO. 1 PER ND1002004, TYPE I. APPLY A THIN COAT OF ADHESIVE PER ND1002004, TYPE I OVER FIND NO. 4 AND ADJACENT AREA TO BOND FIND NO. 3 TO FIND NO. 4
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT. ENCAPSULATION OPTIONAL ON SIDES OF ALL .670 HEIGHT SURFACES IN VOID AREAS .000/.125. ENCAPSULATE .032/.125 ALL SIDES OTHER THAN .670 HIGH ADJACENT TO VOIDS. ENCAPSULATE BOTTOM OF HEADER VOIDS .032/.062

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
9	NAS 1352-08-6	SCREW, CAP, SOCKET HEAD	6
3	6008032	ANGLE SUPPORT	5
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	4
1	1008833-001	RESISTOR, TEMP SENSITIVE, WAFER	3
1	6014524	LEAD SET AA ELECTRICAL	2
1	6007007-011	HEADER SUBASSEMBLY	1
011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —
DECIMALS .XX ± .02 .XXX ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Gross 17 Jan 66
CHECKED R.L. Knightly 27 Jan 66
APPROVED V.A. Kozeinikh 31 Jan 66
APPROVED 28 Jan 66
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PTA HEADER ASSEMBLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6007102

SCALE 1/1
SHEET 1 OF 1

6007102

APOLLO G&N Specification
PS6007102 REV —
Original Issue Date: 16 MAR '66
Release Authority: TDRR 27300
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY PTA (LEM)

DRAWING NO. 6007102

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 9 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	3/14/66 17 Mar 66 MIT/IL	D. Jensen 9 MAR 66 ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Header Assembly PTA (LEM), hereafter called the assembly, Part Number 6007102-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007102	Header Assembly PTA (LEM)
6014522	Interconnect List for PTA Header

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section.

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 **Continuity and DC Resistance.** Continuity shall be as specified on Drawing 6014522. All pins electrically connected except A2J19-A22 and A2J19-B22 shall exhibit dc resistance of 0.5 ohms or less. The dc resistance from A2J19-A22 to A2J19-B22 shall be 1.5K ohms to 16.0K ohms.

3.1.2 **Grounding Pin Resistance.** Each pin listed in Table I shall exhibit a dc resistance of less than 15.0 milliohms to the frame.

3.1.3 **Insulation Resistance.** The resistance between each network and all other networks shall be greater than or equal to 100 megohms. The chassis is a network.

TABLE I

GROUNDING PINS

PIN	PIN
A2J1-1	A2J19-A12
2-6	-B6
3-1	-B9
4-1	-B12
5-1	-B23
6-6	-C6
7-1	-C9
8-1	-C12
9-1	-D6
10-6	-D9
11-1	-D12
12-1	-F6
13-1	-F9
14-1	-F12
15-1	-F13
16-1	-G6
17-1	-G9
19-A6	A2J19-G12
A2J19-A9	

0.3 inch pp constant displacement from 10 cps to the crossover frequency. During vibration the continuity of the assembly shall be constantly monitored per Drawing 6014522. Any evidence of discontinuity shall be recorded and shall be cause for rejection. The monitoring circuitry shall have a response time of 10 μseconds or less for any open circuit. Workmanship-vibration testing shall be performed on all units other than spares, at the higher assembly level with operational modules installed.

4.3.3 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of Standard MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014522 shall be less than 0.5 ohm, with the exception of pins A2J19-A22 and A2J19-B22. Any readings greater than 0.5 ohm for pins electrically connected as per drawing 6014522 shall be recorded and shall be cause for rejection. The dc resistance measured from pin A2J19-A22 to A2J19-B22 shall be 1.5K ohms to 16.0K ohms when measured with a low current resistance measuring device. This measurement shall be made passing 2.50 ma or less current through pins A2J19-A22 and A2J19-B22.

4.3.4 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table I and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.2 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated.

4.3.5 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of Standard MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 vdc limited to a short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks. Megger voltage shall not be applied to the pins specified in 6.1.

4.3.6 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw insert resistance shall be calculated using the formula specified in 6.3a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.3.b and shall be equal to or less than 10 milliohms.

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REVISIONS 25873

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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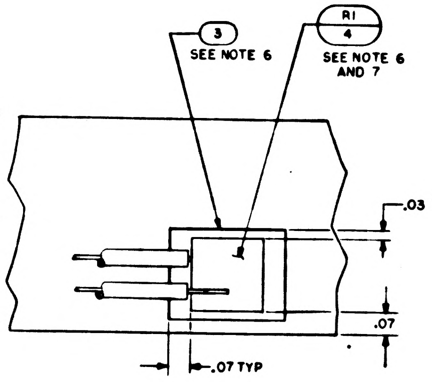
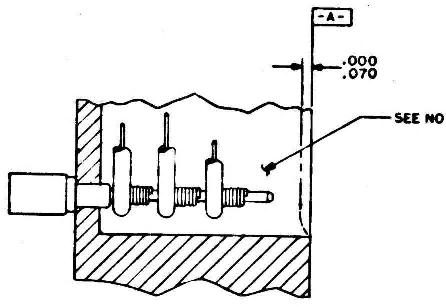
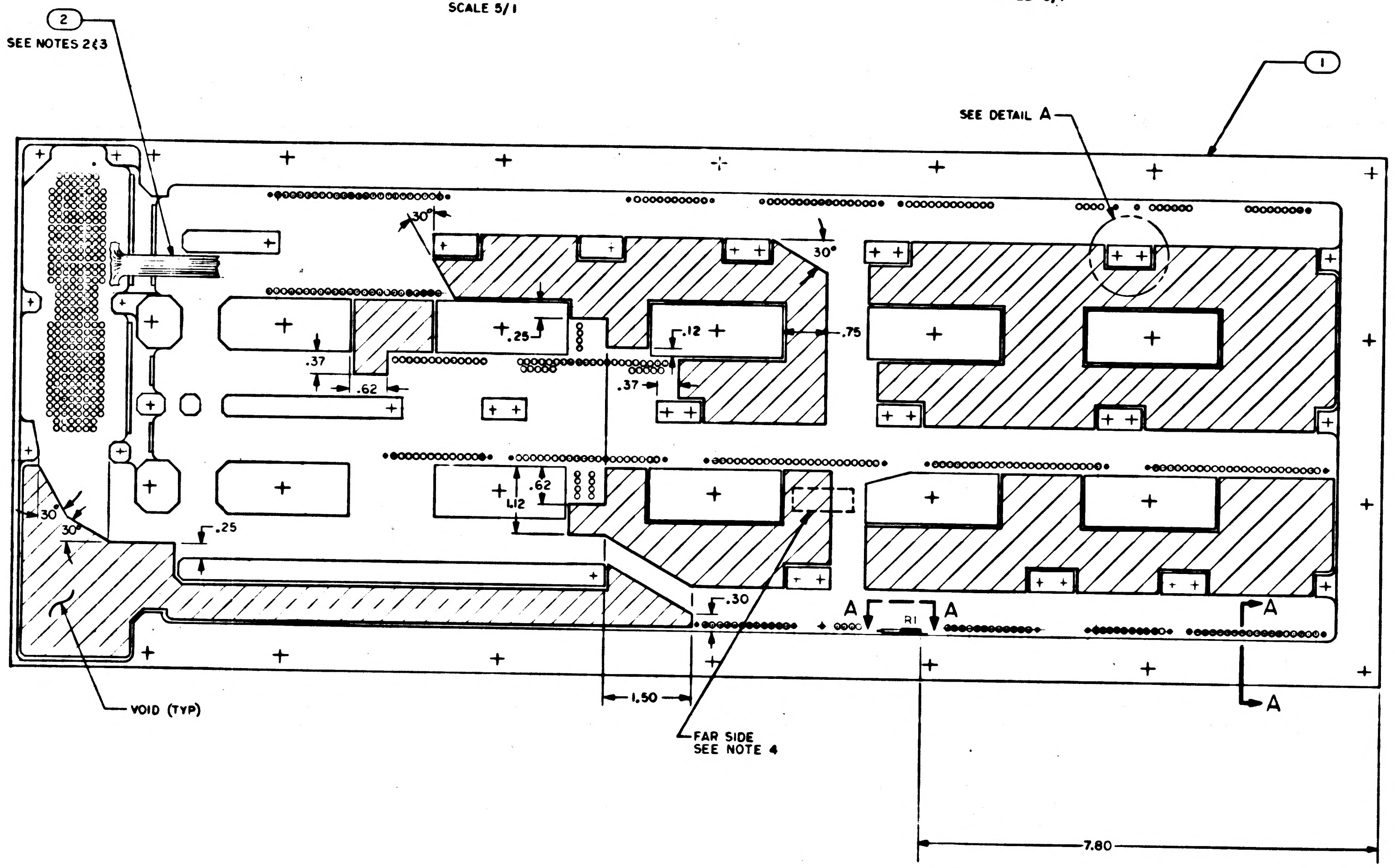
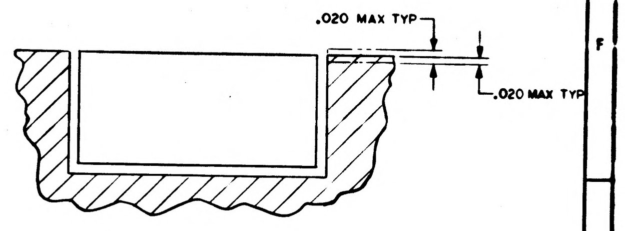


VIEW A-A
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1





DETAIL A
SCALE 5/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2 TO FIND NO. 1
3. SPOT TIE LEAD SET FIND NO. 2 PER ND1002032
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO. 3 TO FIND NO. 1. APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I OVER FIND NO. 3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE $\boxed{-A-}$ SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE SIDES OF ALL .482 HEIGHT BOSSES ADJACENT TO VOIDS .032/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .032/.062. ENCAPSULATION OPTIONAL ON SIDES OF ALL .670 HEIGHT SURFACES IN VOID AREAS .000/.125

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	6014523	LEAD SET	2
1	6007006-021	HEADER SUB-ASSEMBLY	1

-011

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Gross 26 JAN 66
CHECKED [illegible] 27 Jan 66
APPROVED [illegible] [illegible] Jan 66
APPROVED
APPROVED MIT W. Kupfer [illegible]
APPROVED MSC A. [illegible]
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

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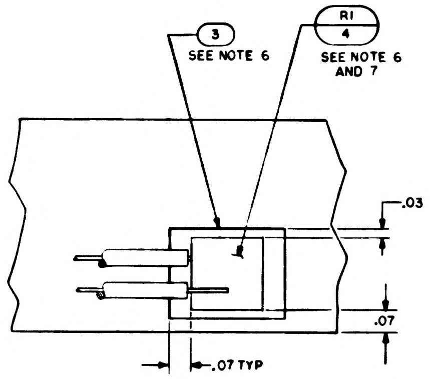
REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 27994		EF	66	
B		REVISED PER TDRR 28529	JHP	EF	10 MAY 66	



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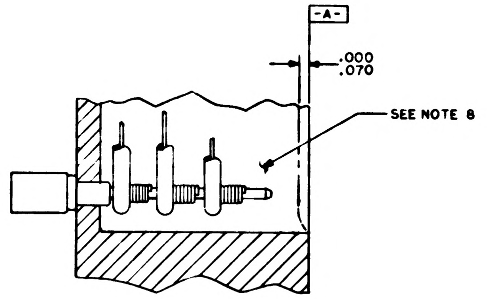
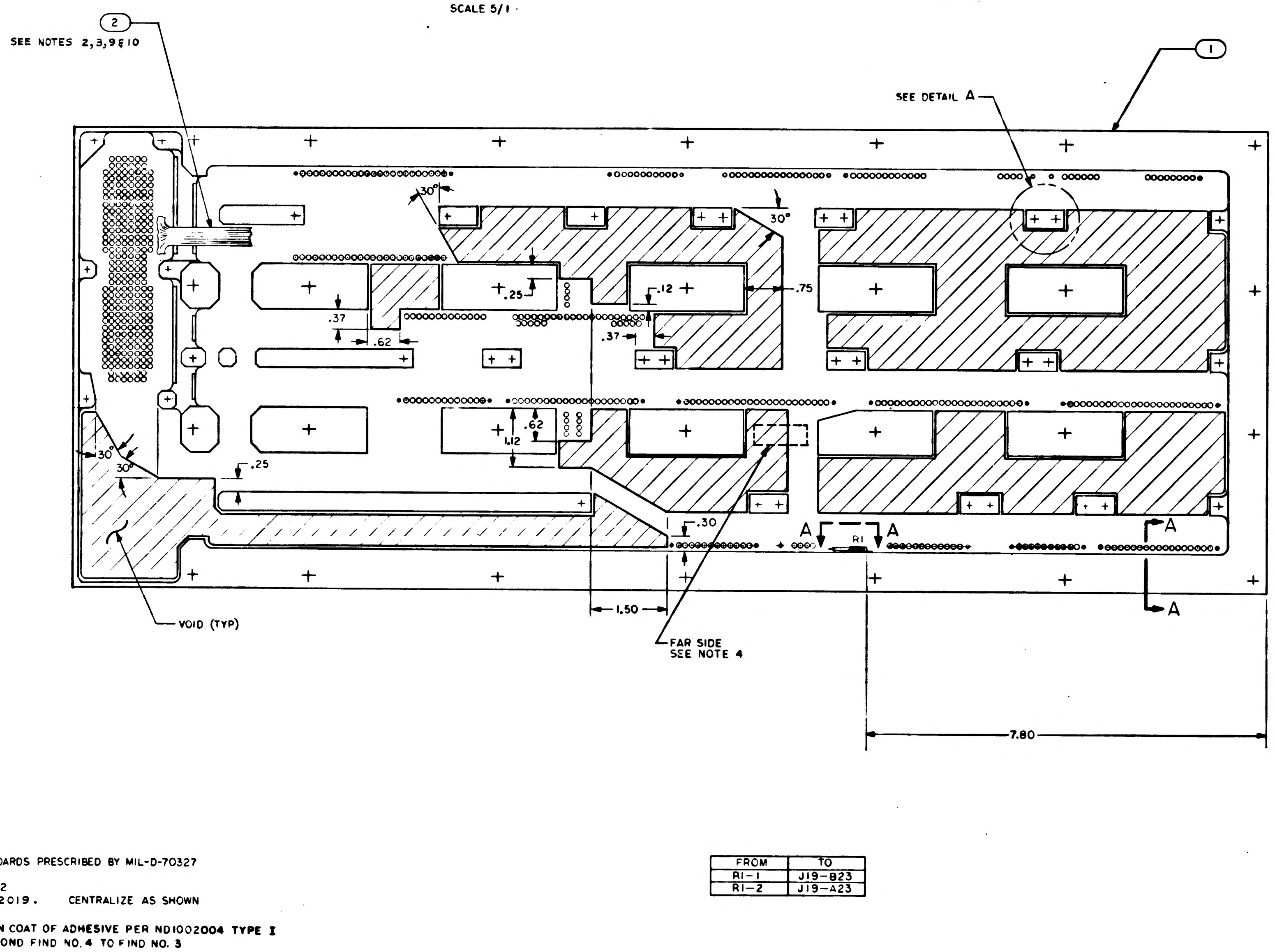
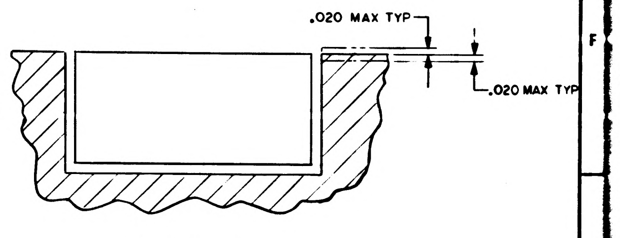
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1





DETAIL A
SCALE 5/1

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO.2 TO FIND NO.1
3. SPOT TIE LEAD SET FIND NO.2 PER ND1002032
4. IDENTIFY WITH PART NUMBER PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO.3 TO FIND NO.1. APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I OVER FIND NO.3 AND THE ADJACENT AREA. BOND FIND NO.4 TO FIND NO.3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO.4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE ALL SIDES ADJACENT TO VOIDS .062/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094.
9. BOND LEAD SET FIND NO. 2 TO FIND NO. 1 PER ND 1002004, TYPE I, AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 × 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	6014523	LEAD SET	2
1	6007006-021	HEADER SUB-ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Gross 26 JAN 66
CHECKED 27 Jan 66
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
LEM PSA

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

6007103 B

APOLLO G&N Specification
PS6007103 REV B
Original Issue Date: 16 MAR '66
Release Authority: TDRR 27302
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY PSA (LEM)

DRAWING NO. 6007103

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30611	4, 5	EA	---
9/14/66	B	31170	2	MGM/EA	ACM

This specification consists of page 1 to 8 inclusive.

APPROVALS	C. METZGER NASA/MSC	3/16/66 MIT/IL	D. Jensen 9 MAR 66 ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Header Assembly PSA (LEM), hereafter called the assembly, Part Numbers 6007103-011 and 6007103-021.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

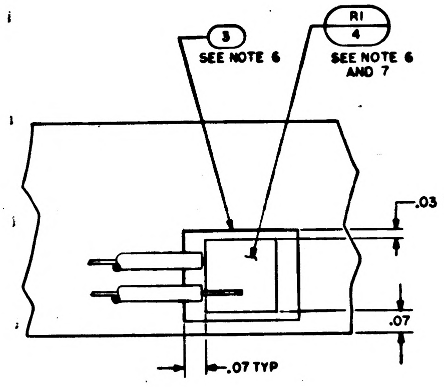
APOLLO G&N

6007103	Header Assembly PSA (LEM)
6014521	Interconnect List for PSA Header

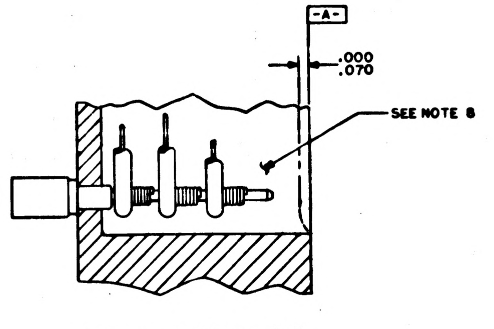
(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

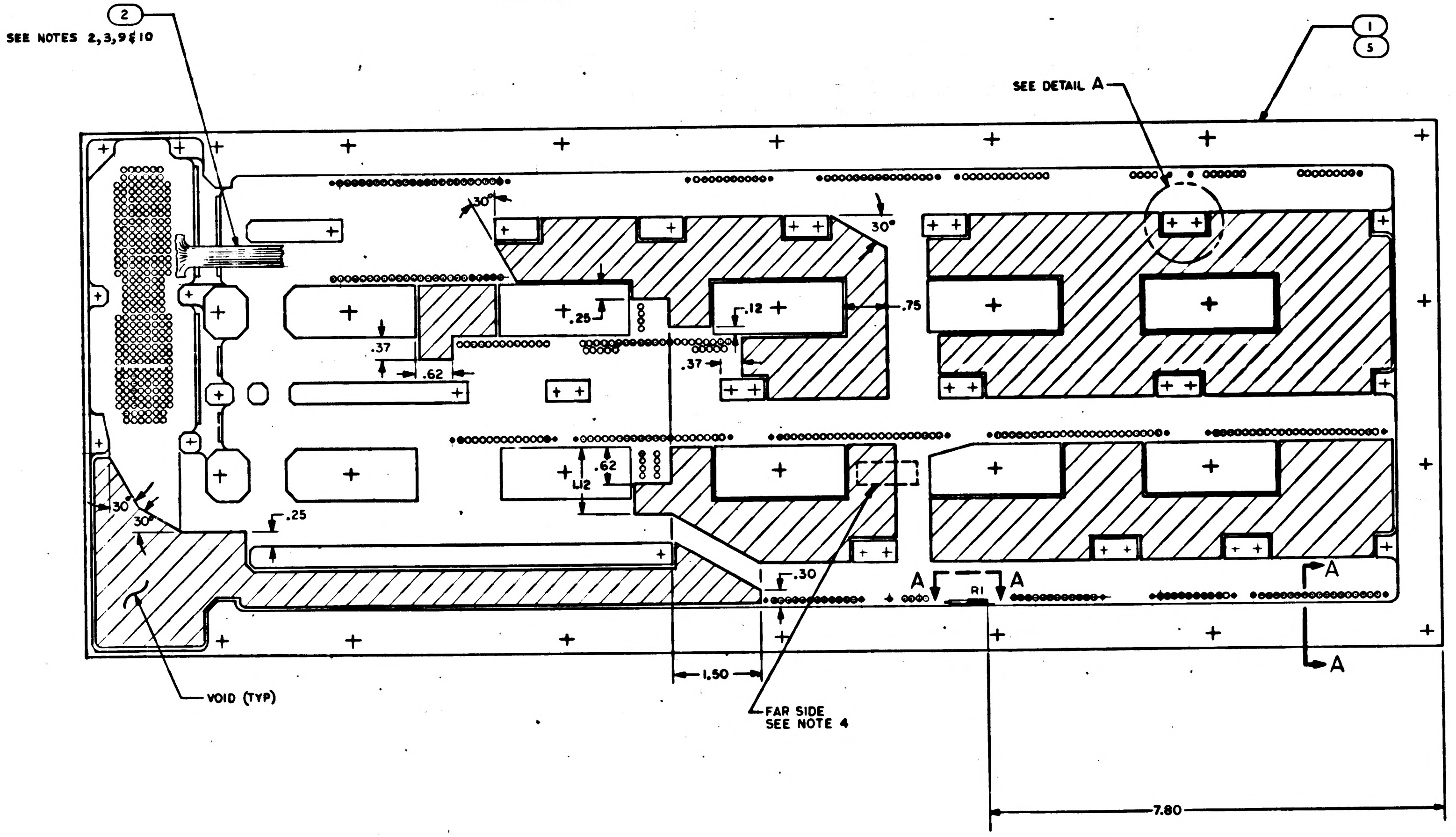
a. The contract
b. This specification
c. Documents listed in this section

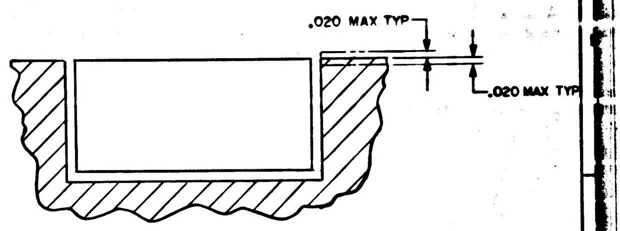


VIEW A-A
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1





DETAIL A
SCALE 5/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5.
3. SPOT TIE LEAD SET FIND NO.2 PER ND1002032
4. IDENTIFY WITH PART NUMBER PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO.3 TO FIND NO. 1, OR FIND NO.5, APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I. OVER FIND NO.3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE ALL SIDES ADJACENT TO VOIDS .062/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094.
9. BOND LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5 PER ND1002004, TYPE I, AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 × 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

REVISIONS 25833

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 27994	JW	EF	66	
B		REVISED PER TDRR 28529	JHP	EF	10 MAY 66	
C		REVISED PER TDRR 31169	TD		28 SEP 66	

QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	6007006-031	HEADER SUBASSEMBLY	5
1	1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	1	6014523	LEAD SET	2
-	1	6007006-021	HEADER, SUB-ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN E. Gross 26 JAN 66
CHECKED 27 Jan 66
APPROVED 31 Jan 66
APPROVED
APPROVED MIT W Kupfer
A. L. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

APOLLO G&N Specification
PS6007103 REV D
Original Issue Date: 16 MAR 66
Release Authority: TDRR 27302
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY PSA (LEM)

DRAWING NO. 6007103

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
8/11/66	A	30611	4, 5	EA	---
9/14/66	B	31170	2	MGM/EA	ACM
9/28/67	C	34714	2	MGM EA	--
9/12/68	D	36829	3, 5	MGM EA	--

This specification consists of page 1 to 8 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	3/16/66 MIT/IL	D. Jensen 9 MAR 66 AC

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 Continuity and DC Resistance. Continuity shall be as specified on Drawing 6014521. All pins electrically connected except 45J19-B23 and 45J19-A23 shall exhibit dc resistance of 0.5 ohms or less. The dc resistance from 45J19-B23 to 45J19-A23 shall be 5.75k ohms ±0.85k ohms at a temperature of 22.5±2.5°C.

3.1.2 Grounding Pin Resistance. Each pin listed in Table I shall exhibit a dc resistance of 15 milliohms or less to the frame.

TABLE I

GROUNDING PINS

PIN	PIN	PIN
45J1-1	45J7-1	45J12-1
45J2-1	45J8-1	45J13-1
45J3-1	45J9-1	45J14-1
45J5-1	45J10-1	45J17-1
45J6-1	45J11-1	45J19-D9

3.1.3 Insulation Resistance. The resistance between each network and all other networks shall be greater than or equal to 100 megohms. The chassis is a network.

3.1.4 Mounting Screw Insert Resistance. The parallel resistance, from mounting screw to header frame, of all mounting screw inserts surrounding connector 45J19 shall be equal to or less than 10 milliohms.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007103 and all drawings and engineering data referenced thereon.

4.3.2 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of Standard MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014521 shall be less than 0.5 ohm, with the exception of pins 45J19-B23 and 45J19-A23. Any readings greater than 0.5 ohm for pins electrically connected as per Drawing 6014521 shall be recorded and shall be cause for rejection. The dc resistance measured from pin 45J19-B23 to 45J19-A23 shall be 5.75K ohms ±0.85K ohms at a temperature of 22.5±2.5°C when measured with a low current resistance measuring device. This measurement shall be made by passing 2.50 ma or less current through pins 45J19-B23 and 45J19-A23.

4.3.3 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table I and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.2 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated..

4.3.4 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of Standard MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 vdc limited to a short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks. Megger voltage shall not be applied to the pins specified in 6.1.

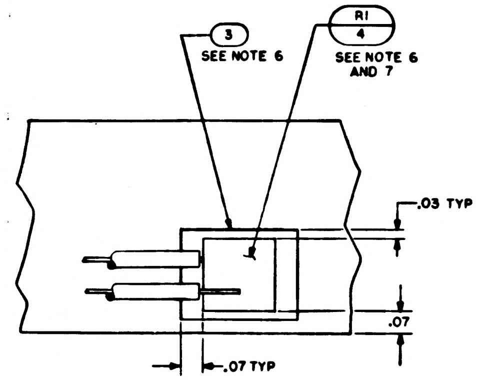
4.3.5 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw insert resistance shall be calculated using the formula specified in 6.3.a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.3.b and shall be equal to or less than 10 milliohms.

5. PREPARATION FOR DELIVERY

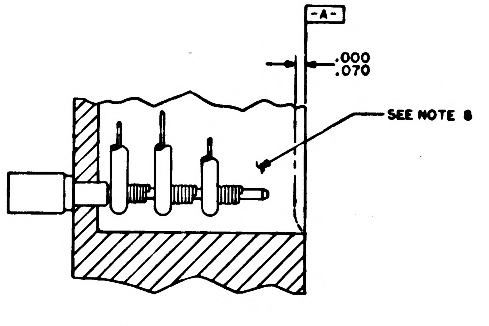
5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 2799	JW	EF	66	
B		REVISED PER TDRR 28529	JHP	EF	10 MAY 66	
C		REVISED PER TDRR 31169	TD		28 SEP 66	
D		REVISED PER TDRR 33073	RM		3 MAR 67	
E		REVISED PER TDRR34651	JS		28 SEP 67	

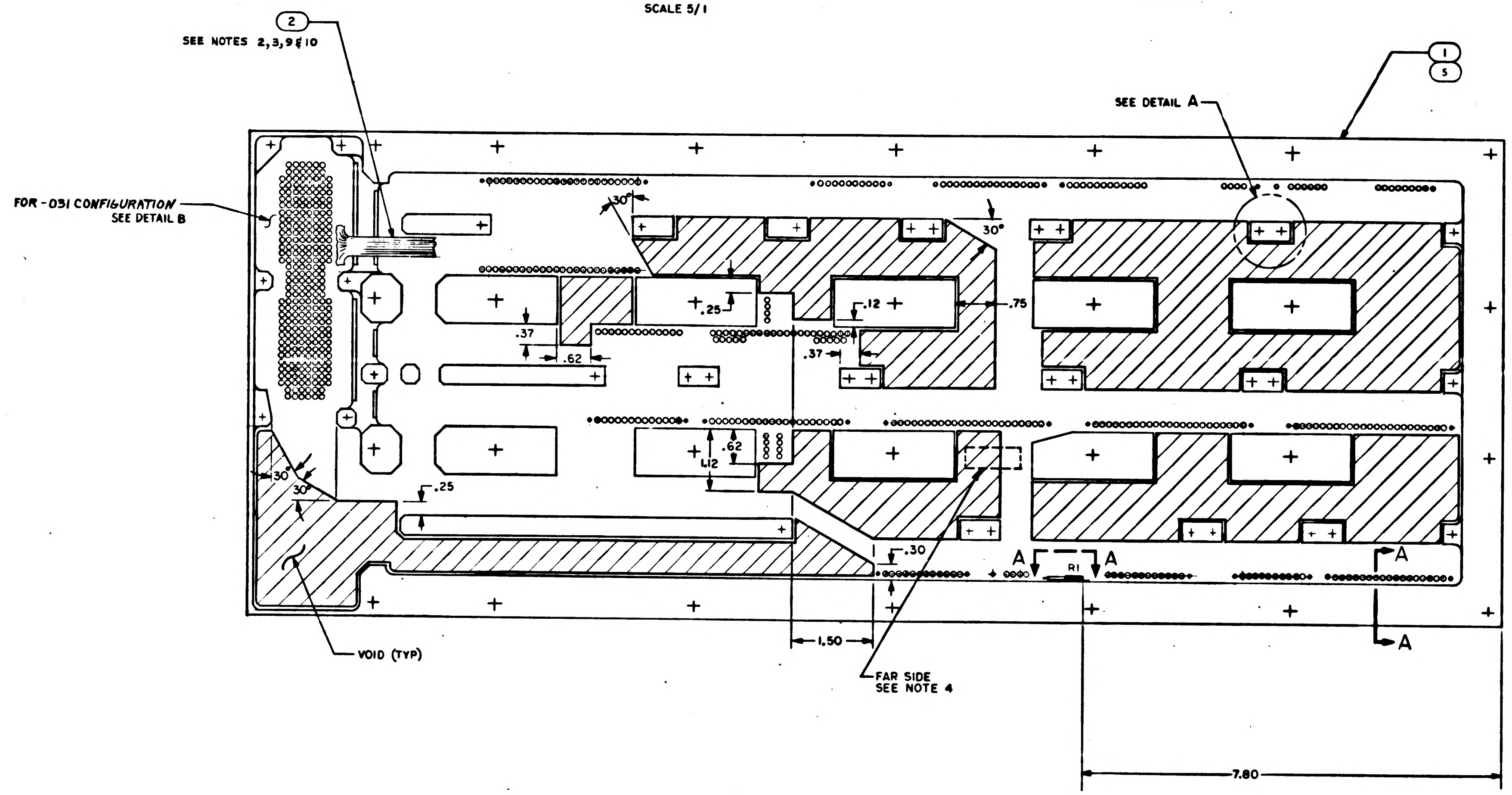
REVISIONS 25873

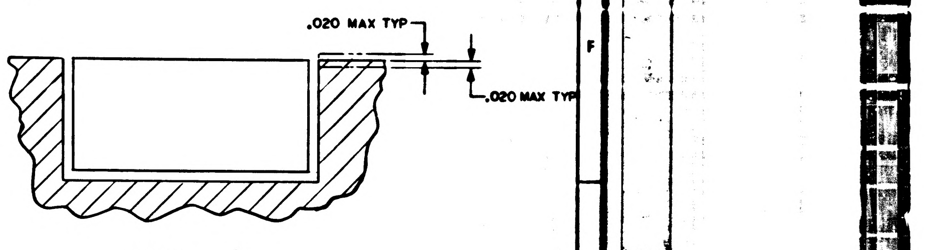


VIEW A-A
SCALE 5/1

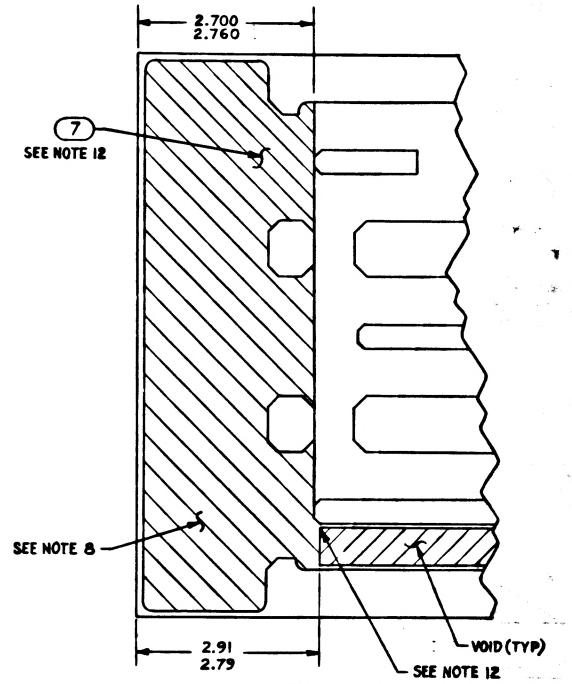


PARTIAL SECTION A-A
SCALE 5/1





DETAIL A
SCALE 5/1



DETAIL B
FOR -031 CONFIGURATION ONLY

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 6 OR FIND NO. 8, AS APPLICABLE.
4. IDENTIFY WITH PART NUMBER PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO. 3 TO FIND NO. 1, OR FIND NO. 5, APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I. OVER FIND NO. 3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE ALL SIDES ADJACENT TO VOIDS .062/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094.
9. BOND LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5 PER ND1002004, TYPE I, AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 × 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.
12. APPLY FIND NO. 7 TO ENCAPSULANT SURFACE AND IT MUST NOT EXTEND ABOVE COLDPLATE INTERFACE SURFACE. FIND NO. 7 TO EXTEND FLUSH TO .04 FROM THE SIDES OF THE HEADER AND FROM EDGES OF ANY OF THE COLDPLATE INTERFACE SURFACES. OVERLAP EDGES OF ADJOINING STRIPS OF FOIL BY .25 OF AN INCH MINIMUM. FIND NO. 7 TO COVER EXPOSED CORNERS OF ENCAPSULATION, SEE DETAIL B.

QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	–	–	1008936-001	LACING TAPE	8
AR	–	–	1008937-005	TAPE, PRESSURE SENSITIVE ADHESIVE ALUMINUM FOIL BACKED	7
–	AR	AR	1012555-002	LACING TAPE	6
1	1	–	6007006-031	HEADER SUBASSEMBLY	5
1	1	1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	AR	AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	1	1	6014523	LEAD SET	2
–	–	1	6007006-021	HEADER SUB-ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

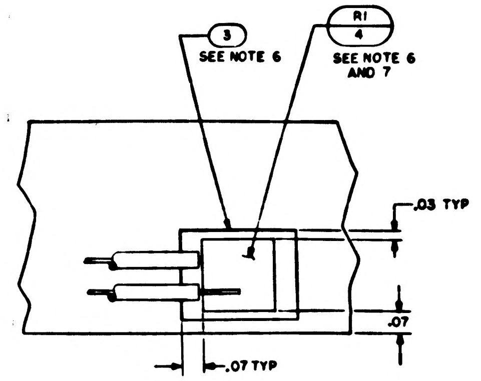
DRAWN E. Glass 26 JAN 66
CHECKED 27 Jan 66
APPROVED 31 Jan 66
APPROVED
APPROVED MIT W Kupfer
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

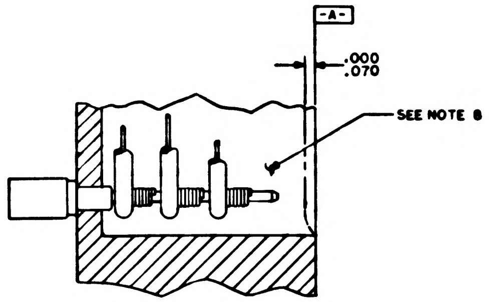
HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

		REVISIONS 25833				
SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED
A		REVISED PER DKR 2799	JW	EF	66	
B		REVISED PER TDRR 28529	JHP	EF	10 MAY 66	
C		REVISED PER TDRR 31169	TD		66	
D		REVISED PER TDRR 35073	RM		67	
E		REVISED PER TDRR 34651	JS		28 SEP 67	
F		REVISED PER TDRR 36694			68	



VIEW A-A
SCALE 5/1



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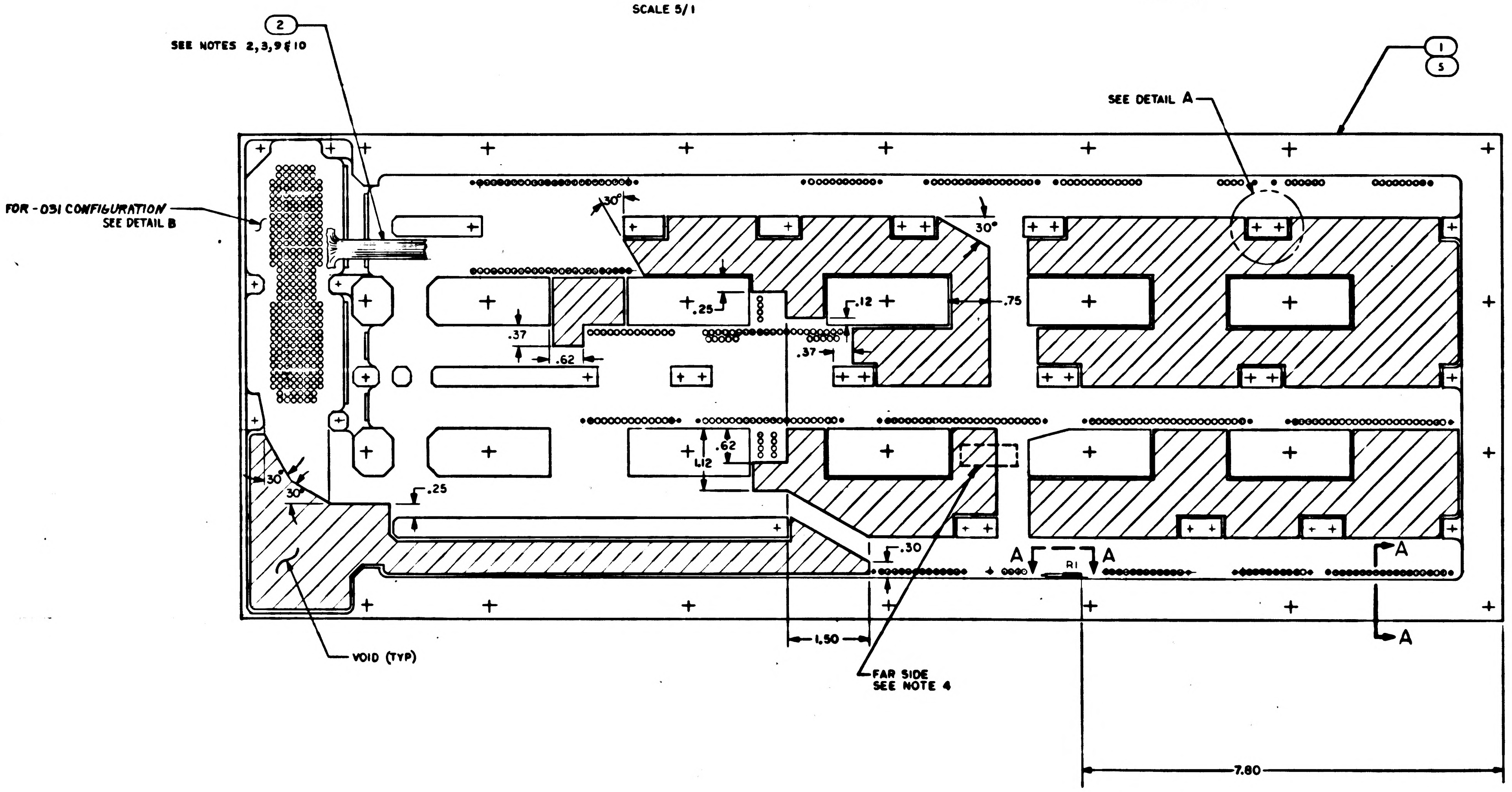
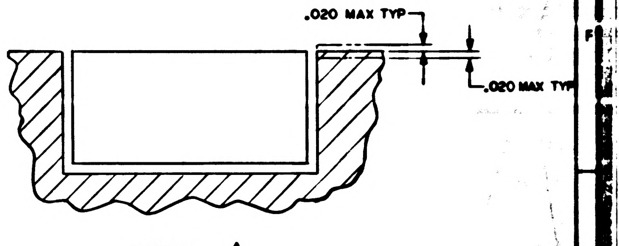
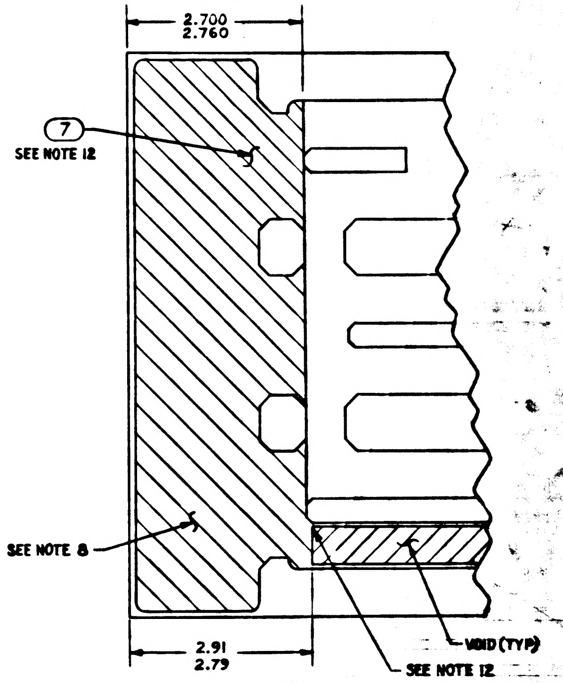




DETAIL A
SCALE 5/1



DETAIL B
FOR -031. CONFIGURATION ONLY

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5.
3. SPOT TIE LEAD SET PER ND1002032 USING FIND NO. 6 OR FIND NO. 8, AS APPLICABLE.
4. IDENTIFY WITH PART NUMBER PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO. 3 TO FIND NO. 1, OR FIND NO. 5, APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I. OVER FIND NO. 3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE -A- SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE ALL SIDES ADJACENT TO VOIDS .062/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .062/.094.
9. BOND LEAD SET FIND NO. 2 TO FIND NO. 1 OR FIND NO. 5 PER ND1002004, TYPE I, AS REQUIRED.
10. ALL WIRES INCLUDING SPOT TIES MUST BE COVERED WITH ENCAPSULANT AND MUST BE BELOW THE PLANE ESTABLISHED BY THE TOP SURFACE OF THE ENCAPSULANT.
11. .13 × 45° CHAMFERS PERMISSIBLE ON ALL INTERNAL CORNERS OF VOIDS.
12. APPLY FIND NO. 7 TO ENCAPSULANT SURFACE AND IT MUST NOT EXTEND ABOVE COLDPLATE INTERFACE SURFACE. FIND NO. 7 TO EXTEND FLUSH TO .04 FROM THE SIDES OF THE HEADER AND FROM EDGES OF ANY OF THE COLDPLATE INTERFACE SURFACES. OVERLAP EDGES OF ADJOINING STRIPS OF FOIL BY .25 OF AN INCH MINIMUM. FIND NO. 7 TO COVER EXPOSED CORNERS OF ENCAPSULATION, SEE DETAIL B.
13. PAINT THERMAL INTERFACE SURFACE -A- PER ND1002291 USING ZINC CHROMATE PRIMER, FIND NO. 9 AND PAINT FIND NO. 10 (PRESSURE SPRAY WITHOUT PAINT THINNER), EXCEPT THE -011 CONFIGURATION. ALL THREADED HOLES TO BE FREE OF PAINT. MAXIMUM DRY FILM THICKNESS TO BE .004 INCH. PAINT ON THE THERMAL INTERFACE SURFACE TO EXTEND .06 TO .12 INCH ONTO ADJACENT ENCAPSULANT SURFACE.

QTY REQD -031	QTY REQD -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	-	1012543-003	PAINT	10
AR	AR	-	1008852	PRIMER	9
AR	-	-	1008936-001	LACING TAPE	8
AR	-	-	1008937-005	TAPE, PRESSURE SENSITIVE ADHESIVE ALUMINUM FOIL BACKED	7
-	AR	AR	1012555-002	LACING TAPE	6
1	1	-	6007006-031	HEADER SUBASSEMBLY	5
1	1	1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	AR	AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	1	1	6014523	LEAD SET	2
-	-	1	6007006-021	HEADER SUB-ASSEMBLY	1

LIST OF MATERIALS

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Grass
CHECKED
APPROVED
APPROVED
APPROVED MIT
A. L. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

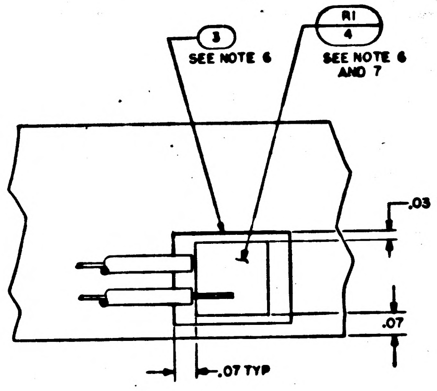
HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

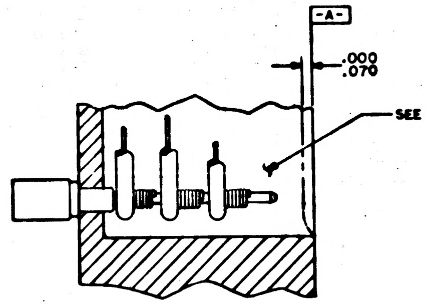
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 25833

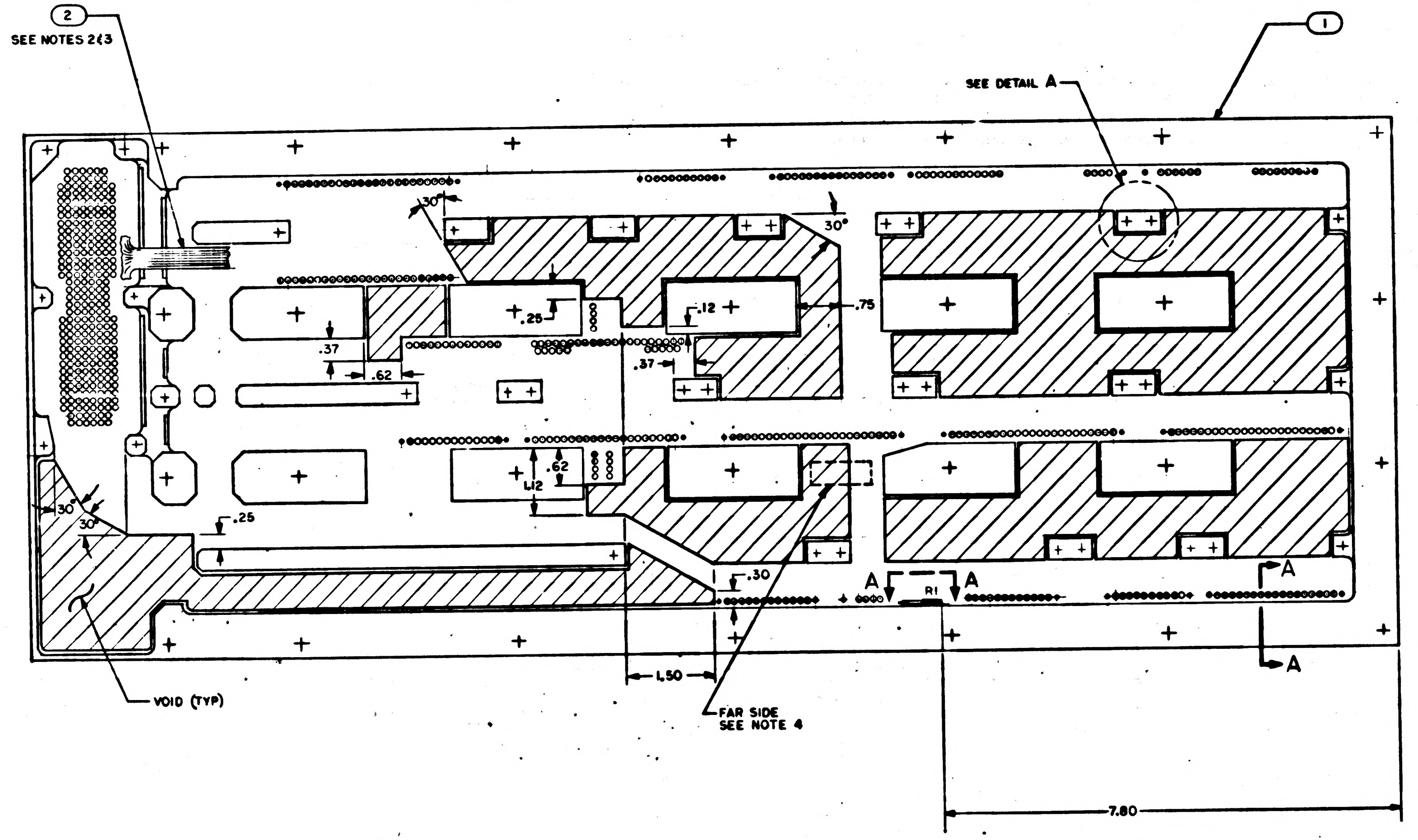
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

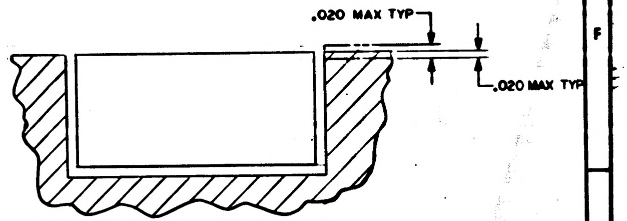


VIEW A-A
SCALE 5/1



PARTIAL SECTION A-A
SCALE 5/1





DETAIL A
SCALE 5/1

FROM	TO
R1-1	J19-B23
R1-2	J19-A23

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ASSEMBLE LEAD SET FIND NO. 2 TO FIND NO. 1
3. SPOT TIE LEAD SET FIND NO. 2 PER ND1002032
4. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
5. PROCURE PER PS6007103
6. BOND FIND NO. 3 TO FIND NO. 1. APPLY A THIN COAT OF ADHESIVE PER ND1002004 TYPE I OVER FIND NO. 3 AND THE ADJACENT AREA. BOND FIND NO. 4 TO FIND NO. 3 PER ND1002004, TYPE I
7. SOLDER LEADS OF FIND NO. 4 FROM APPLICABLE CHART PER ND1002071
8. ENCAPSULATE PER ND1002236. SURFACES IN PLANE $\boxed{-A-}$ SHALL BE FREE OF ENCAPSULANT. ENCAPSULATE SIDES OF ALL .482 HEIGHT BOSSES ADJACENT TO VOIDS .032/.125. ENCAPSULATE BOTTOM OF HEADER VOIDS .032/.062. ENCAPSULATION OPTIONAL ON SIDES OF ALL .670 HEIGHT SURFACES IN VOID AREAS .000/.125

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1008833-001	RESISTOR TEMP SENSITIVE WAFER	4
AR	MIL-I-15126	MYLAR TAPE, TYPE MFT 2.5	3
1	6014523	LEAD SET	2
1	6007006-011	HEADER SUB-ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN E. Gross
CHECKED
APPROVED
APPROVED
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER ASSEMBLY
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6007103
SCALE 1/1
SHEET 1 OF 1

APOLLO G&N Specification
PS6007103 REV —
Original Issue Date: 16 MAR '66
Release Authority: TDRR 27302
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

HEADER ASSEMBLY PSA (LEM)

DRAWING NO. 6007103

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 8 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	3/16/66 MIT/IL	D. Jensen 9 MAR 66 ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Header Assembly PSA (LEM), hereafter called the assembly, Part Number 6007103-011.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007103	Header Assembly PSA (LEM)
6014521	Interconnect List for PSA Header

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 Continuity and DC Resistance. Continuity shall be as specified on Drawing 6014521. All pins electrically connected except 45J19-B23 and 45J19-A23 shall exhibit dc resistance of 0.5 ohms or less. The dc resistance from 45J19-B23 to 45J19-A23 shall be 1.5K ohms to 16.0K ohms.

3.1.2 Grounding Pin Resistance. Each pin listed in Table I shall exhibit a dc resistance of 15 milliohms or less to the frame.

TABLE I

GROUNDING PINS

PIN	PIN	PIN
45J1-1	45J7-1	45J12-1
45J2-1	45J8-1	45J13-1
45J3-1	45J9-1	45J14-1
45J5-1	45J10-1	45J17-1
45J6-1	45J11-1	45J19-D9

3.1.3 Insulation Resistance. The resistance between each network and all other networks shall be greater than or equal to 100 megohms. The chassis is a network.

3.1.4 Mounting Screw Insert Resistance. The parallel resistance, from mounting screw to header frame, of all mounting screw inserts surrounding connector 45J19 shall be equal to or less than 10 milliohms.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with Drawing 6007103 and all drawings and engineering data referenced thereon.

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
Continuity and DC Resistance	3.1.1	4.3.3
Grounding Pin Resistance	3.1.2	4.3.4
Insulation Resistance	3.1.3	4.3.5
Mounting Screw Insert Resistance	3.1.4	4.3.6
Drawing Compliance	3.2.1	4.3.1

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.2 Nonconforming Units. Failure of the unit to pass any examination or test of this specification shall automatically classify the unit as nonconforming. Each nonconforming unit corrected by the contractor shall be reinspected. Reinspection may be limited to the test or examination which defined the nonconformance, or, when directed by the cognizant inspector, a complete retest and reexamination may be required. Nonconforming units which have not been corrected will be considered for acceptance only upon formal application by the contractor to the cognizant NASA representative.

4.3 TESTS

4.3.1 Drawing Compliance. The assembly shall be visually examined for compliance to the requirements of Drawing 6007103. Particular attention shall be given to inspection for nicks, scratches, burrs, dents, encapsulant defects, contaminants, pin misalignment, and legibility and appearance of markings.

4.3.2 Workmanship-Vibration. For spare units only, the assembly shall be vibrated with dummy modules which simulate the respective module weight. The proper connector pins shall be wired and monitored for continuity during the vibration test. The assembly shall be mounted on the vibration fixture in a manner similar to the way it will be mounted in service so that it will be vibrated along the simulated command module X, Y, and Z axes. The assembly shall be vibrated with simple harmonic motion swept from 10 to 2000 cps at a rate of one octave/15 sec. The magnitude of vibration shall be 3.5g rms limited to a 0.3 inch pp

constant displacement from 10 cps to the crossover frequency. During vibration the continuity of the assembly shall be constantly monitored per Drawing 6014521. Any evidence of discontinuity shall be recorded and shall be cause for rejection. The monitoring circuitry shall have a response time of 10 μsec or less for any open circuit. Workmanship-vibration testing shall be performed on all units other than spares at the higher assembly level with operational modules installed.

4.3.3 Continuity and DC Resistance. Continuity and dc resistance shall be measured using a low voltage resistance measuring device in accordance with Method 303 of Standard MIL-STD-202. Measurements shall be made from each individual pin to all other pins electrically connected, but duplicate tests of pins previously tested need not be made. All readings for pins electrically connected per Drawing 6014521 shall be less than 0.5 ohm, with the exception of pins 45J19-B23 and 45J19-A23. Any readings greater than 0.5 ohm for pins electrically connected as per Drawing 6014521 shall be recorded and shall be cause for rejection. The dc resistance measured from pin 45J19-B23 to 45J19-A23 shall be 1.5K ohms to 16.0K ohms when measured with a low current resistance measuring device. This measurement shall be made by passing 2.50 ma or less current through pins 45J19-B23 and 45J19-A23.

4.3.4 Grounding Pin Resistance. With a dc current of 3.0±2.5 amperes passed through the frame and the pin being tested, and the dc voltage measured across the pin and the frame as shown in Figure 1, the dc resistance between each individual pin listed in Table I and the frame shall be calculated and recorded. The resistance shall be calculated using the equation specified in 6.2 and the value shall be as specified in 3.1.2. To ensure good electrical connections when measuring the voltage and current the protective finish of the frame may be penetrated.

4.3.5 Insulation Resistance. The insulation resistance between each electrically connected network and all other networks shall be as specified in 3.1.3 when measured in accordance with Method 302 of Standard MIL-STD-202. The megohmmeter used shall have an output voltage of 500±100 vdc limited to a short circuit current of 2.0 milliamperes or less. Any reading of less than 100 megohms shall be recorded and shall be cause for rejection. Spare pins shall be included as individual networks. Megger voltage shall not be applied to the pins specified in 6.1.

4.3.6 Mounting Screw Insert Resistance. With a dc current of 3.0±2.5 amperes passed through each mounting screw insert as shown in Figure 2, the dc current and voltage drop shall be measured and the mounting screw insert resistance shall be calculated using the formula specified in 6.3.a. To insure a good electrical connection to the header frame, the module guide pins may be used as a connection point. The parallel resistance of all the inserts surrounding each connector shall be calculated using the formula specified in 6.3.b and shall be equal to or less than 10 milliohms.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES

6.1 THERMISTOR POWER DISSIPATION. It is imperative that the current utilized in measuring the dc resistance from pin 45J19-B23 to 45J19-A23 shall not exceed 2.50 ma. Any current greater than 2.50 ma will result in exceeding the resistance tolerance of the thermistor.

6.2 GROUNDING PIN RESISTANCE EQUATION. Grounding pin resistance shall be calculated using the following equation:

$$R = \frac{E}{I} \text{ milliohms}$$

where: E is the millivoltmeter indication
I is the ammeter indication

6.3 MOUNTING SCREW INSERT RESISTANCE

a. The resistance of each mounting screw insert shall be calculated using the following formula:

$$R = \frac{E}{I}$$

where: E is the voltmeter indication
I is the ammeter indication

b. The parallel resistance of all the mounting screw inserts surrounding the connector shall be calculated using the following formula:

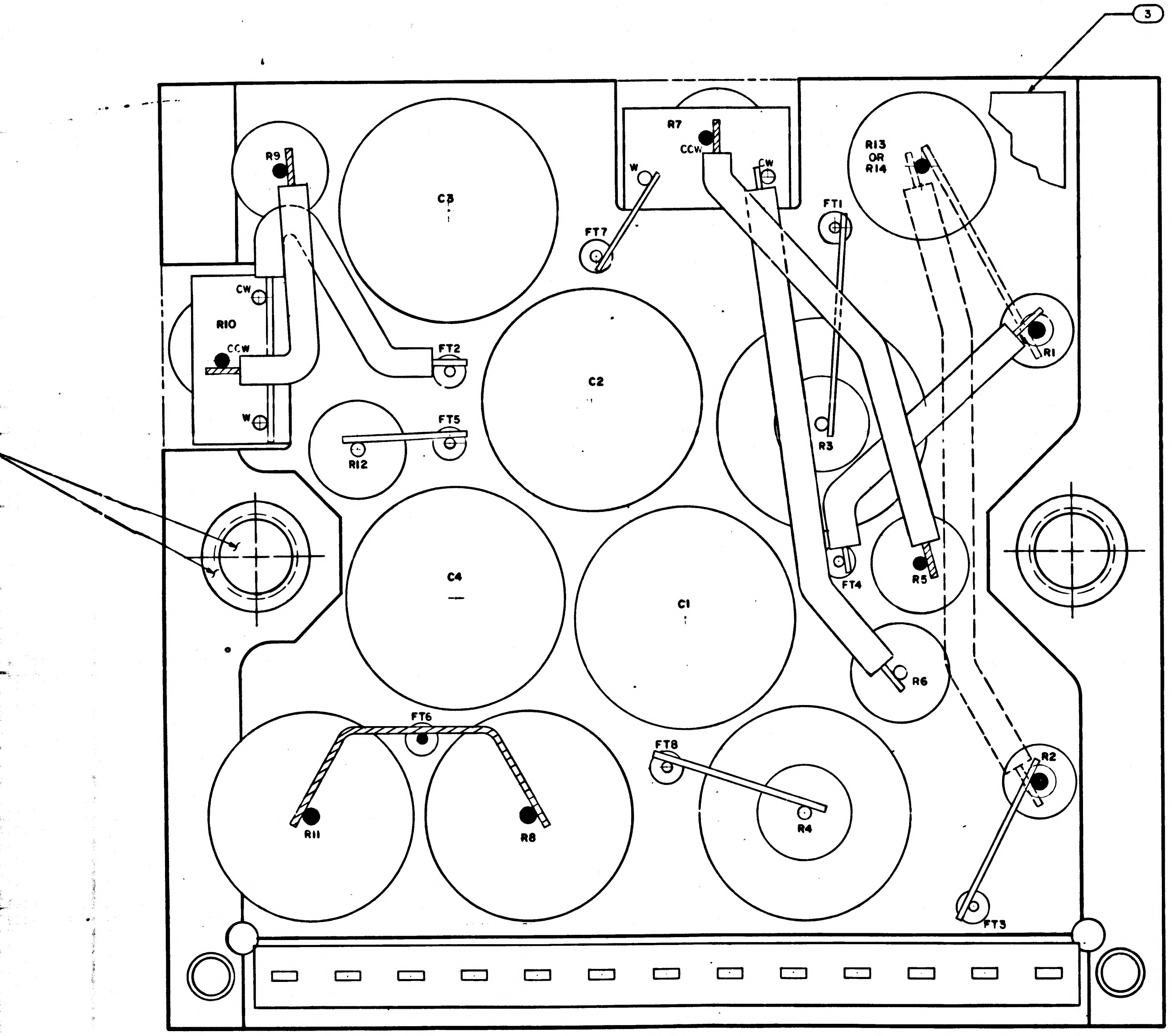
$$R_{Total} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \ldots + \frac{1}{R_n}}$$

where: R_1, R_2, R_n are the resistance of each of the inserts surrounding the connector.

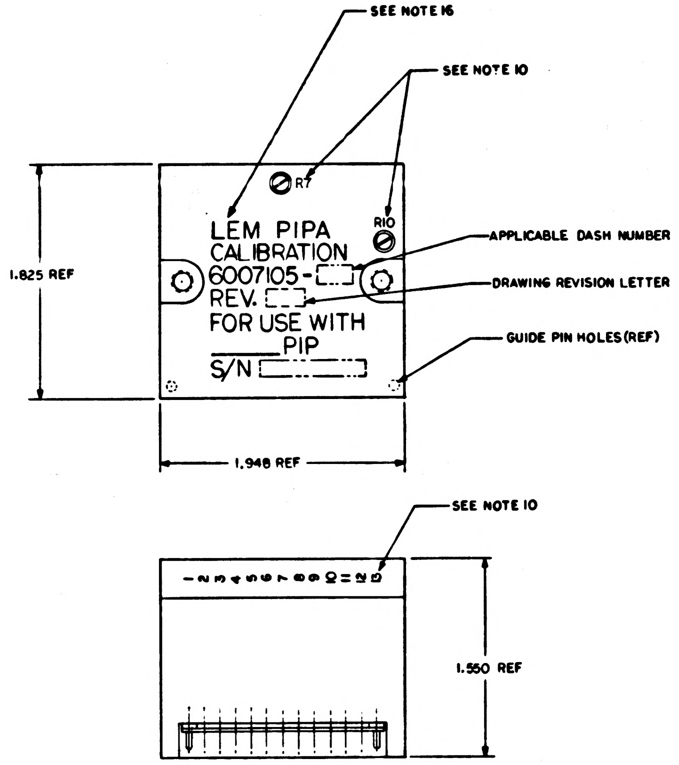
RJM:lv

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842		

REVISIONS



3
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT7
FT1
CW
R10
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3



SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-25	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
1	2008002	INSULATOR, BOTTOM	3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
-011	LIST OF MATERIALS		

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN TONY BELL DATE 1/19/65
CHECKED 1/26/65
APPROVAL 1/26/65
APPROVAL 1/26/65
NASA APPROVAL
MIT APPROVAL W Kupfer 2 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEM PIPA CALIBRATION
ASSEMBLY

CODE IDENT NO. — SIZE J NASA DRAWING NO. 6007105
SCALE 10/1 WT — SHEET 1 OF 1

6007105 A

MASTER

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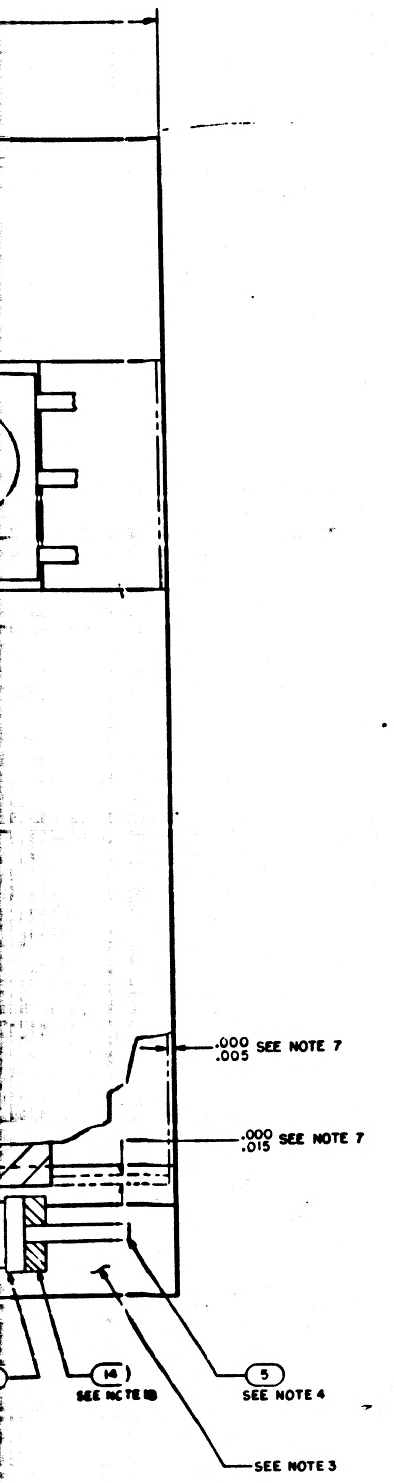
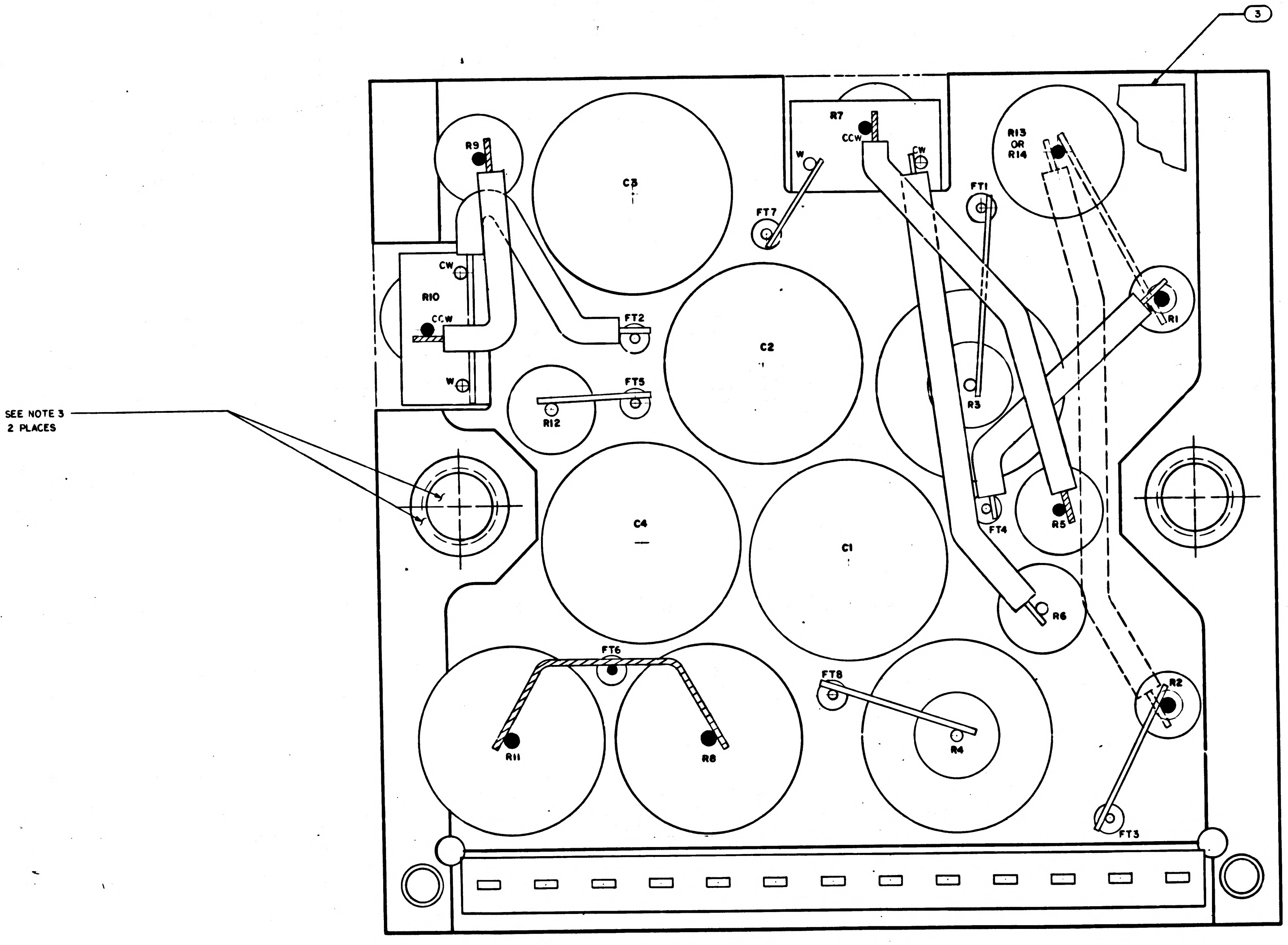

.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 3


3
SEE NOTE 3
2 PLACES
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
FT5
R12
C2
R3
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C4
C1
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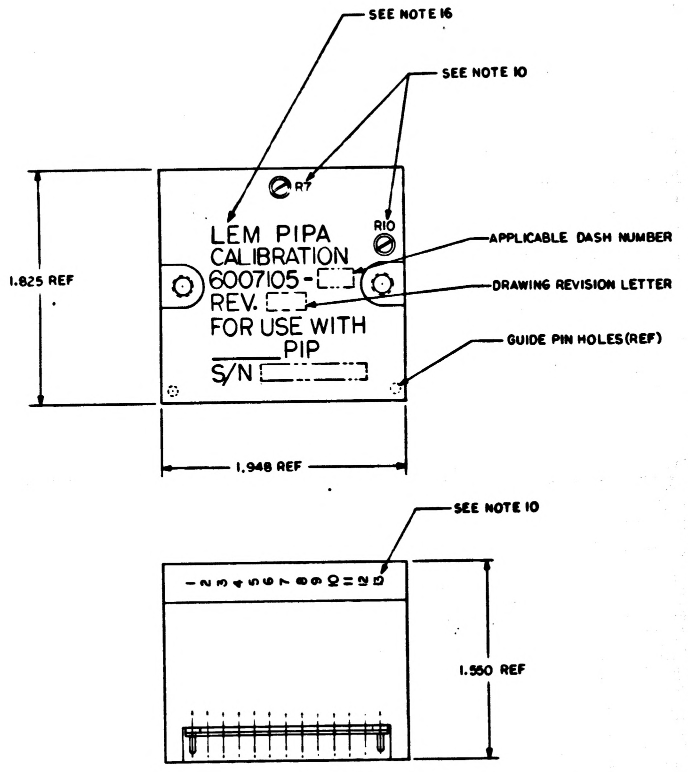
R2
R11
R8
R4
FT3

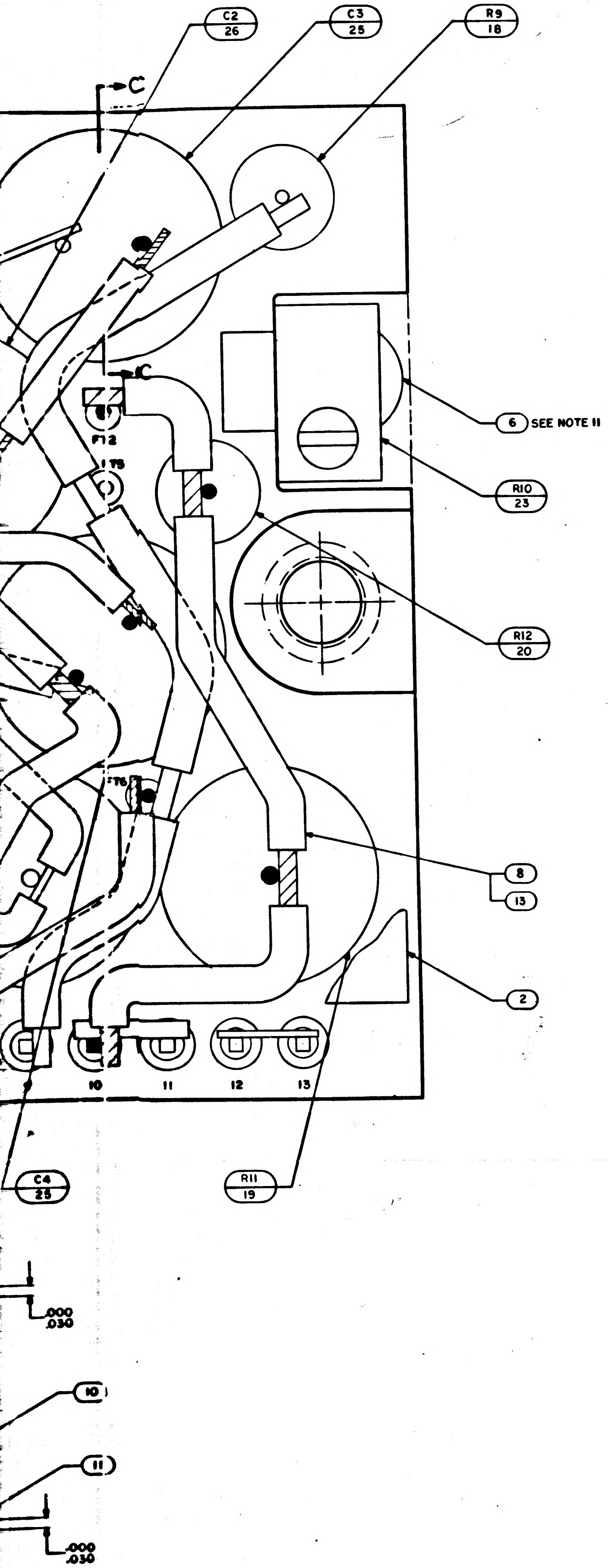

SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105 -
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES (REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

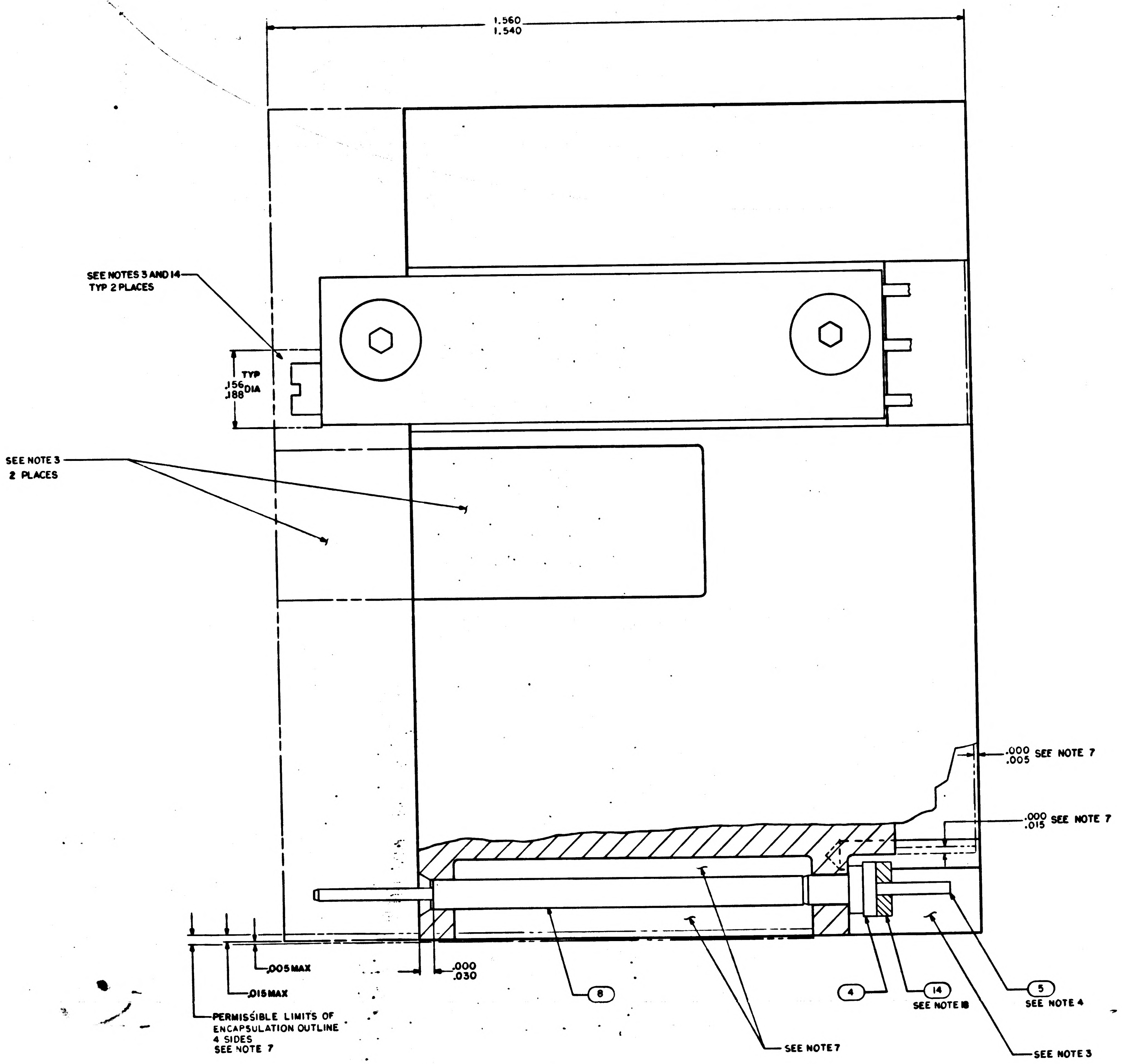
MASTER

6007000		
NEXT ASSY	USED ON	
APPLICATIO		

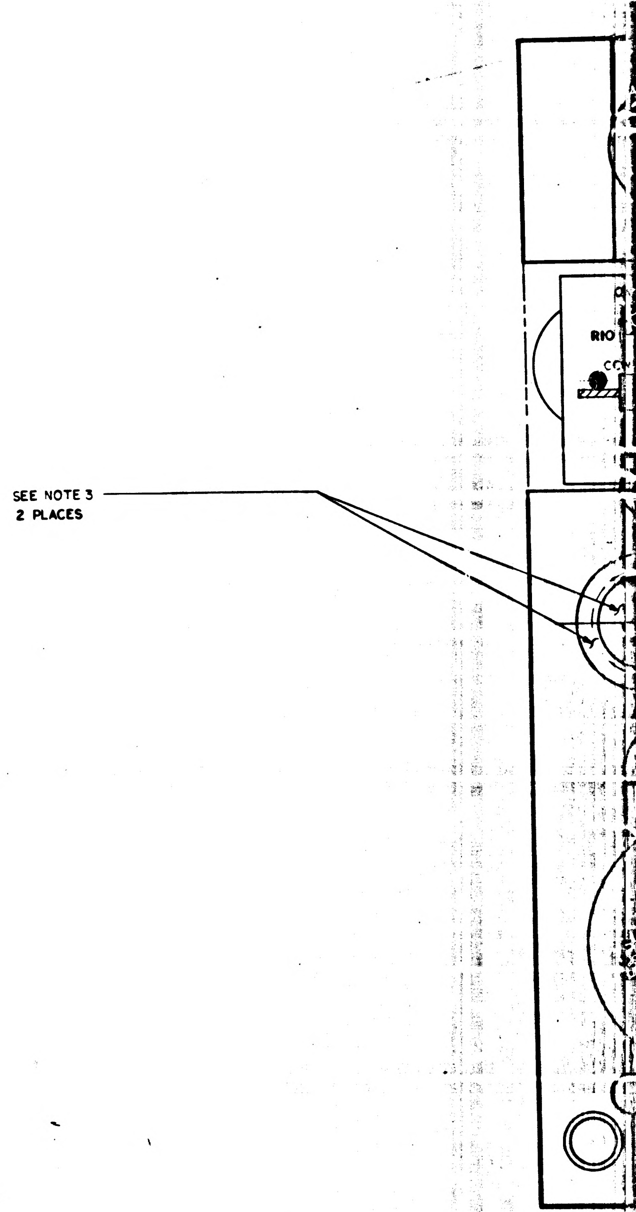
UNLESS OTHERWISE
DIMENSIONS ARE IN
TOLERANCES ON
FRACTIONS
±
DO NOT SCALE THIS
MATERIAL



C
C2
26
C3
25
R9
18
C
F12
1 T5
6 SEE NOTE 11
R10
23
R12
20
FT6
8
13
2
10
11
12
13
C4
25
R11
19
.000
.030
10
11
.000
.030
B



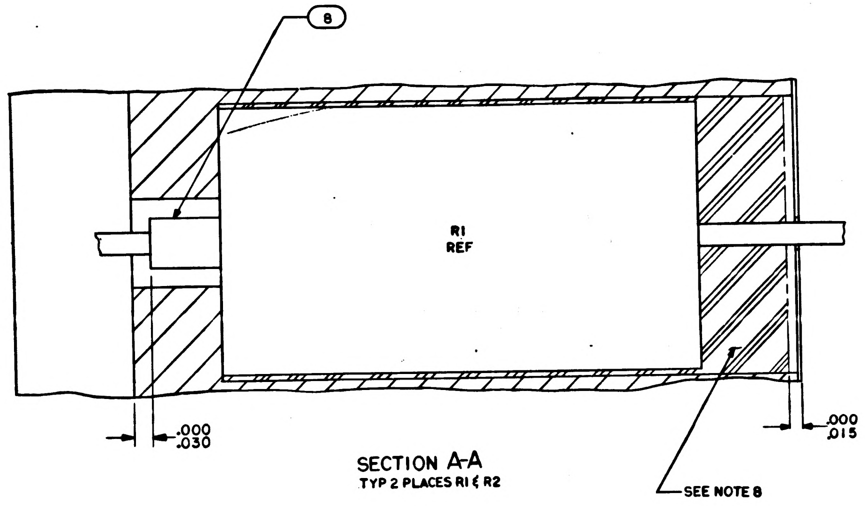
1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156 DIA
.188
SEE NOTE 3
2 PLACES
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
4
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3



SEE NOTE 3
2 PLACES
R10

6007105 A

6007105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R1
REF
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.000
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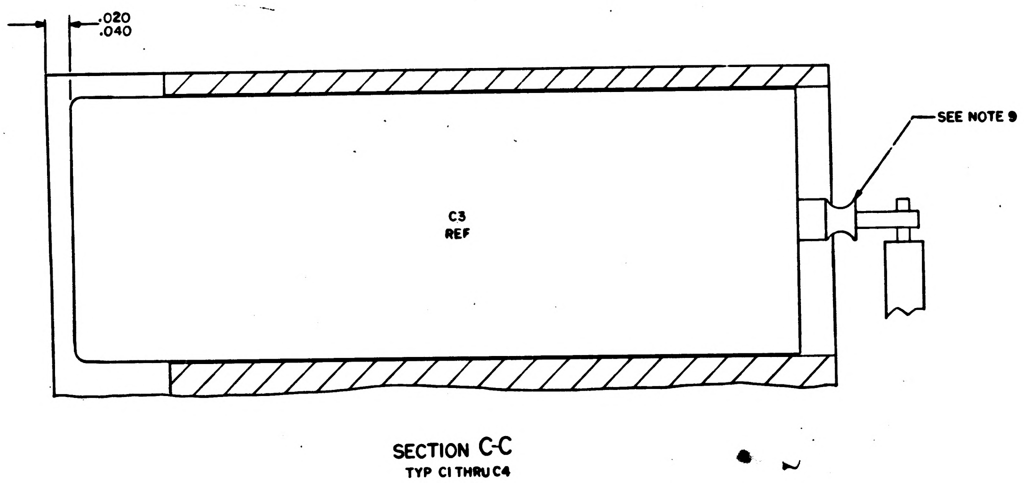
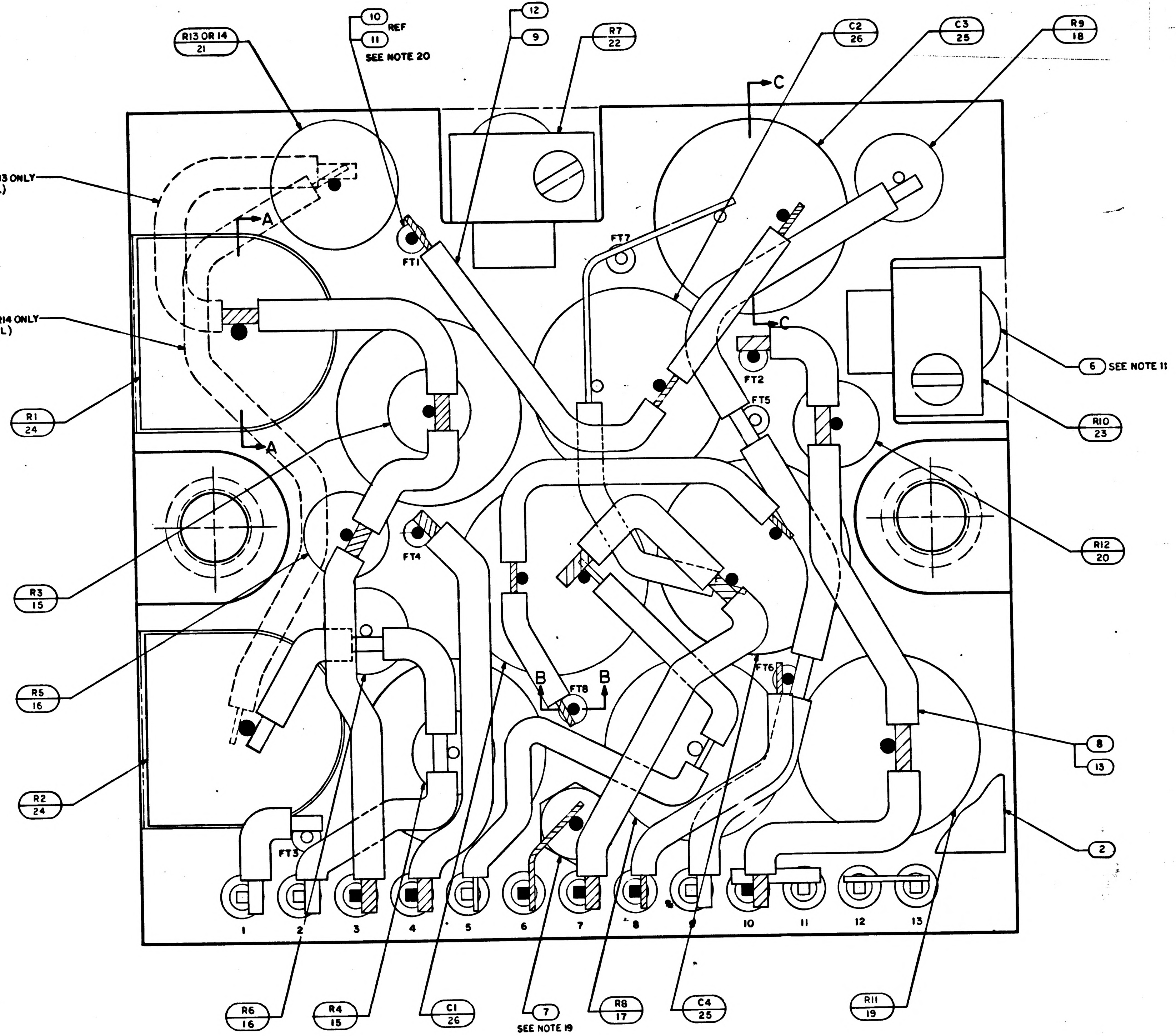
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2


.020
.040
C3
REF
SEE NOTE 9

SECTION C-C
TYP C1 THRU C4


TO BE USED WITH R13 ONLY (2ND LEVEL)
TO BE USED WITH R14 ONLY (2ND LEVEL)
R13 OR 14 / 21
10 / 11 REF
SEE NOTE 20
12 / 9
R7 / 22
C2 / 26
C3 / 25
R9 / 18
C
A
FT1
FT7
6 SEE NOTE 11
R10 / 23
FT2
FT5
R1 / 24
R12 / 20
R3 / 15
FT4
R5 / 16
B
FT8
FT6
8 / 13
R2 / 24
FT3
2
1 2 3 4 5 6 7 8 9 10 11 12 13
R6 / 16
R4 / 15
C1 / 26
7
SEE NOTE 19
R8 / 17
C4 / 25
R11 / 19

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C OR D. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C OR D
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18. BOND FIND NO. 14 TO FIND NO. 4 PER ND1002237
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1. FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C OR D
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95,000
-9	96,250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11

PART NO.	VALUE Ω
1010923-26	135.561
-27	136.816
-28	138.095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R13 OR R14

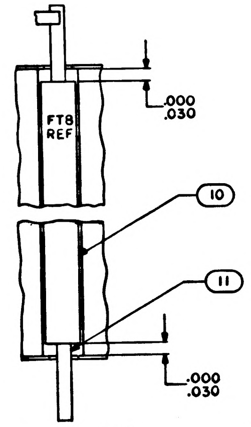
PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

R12

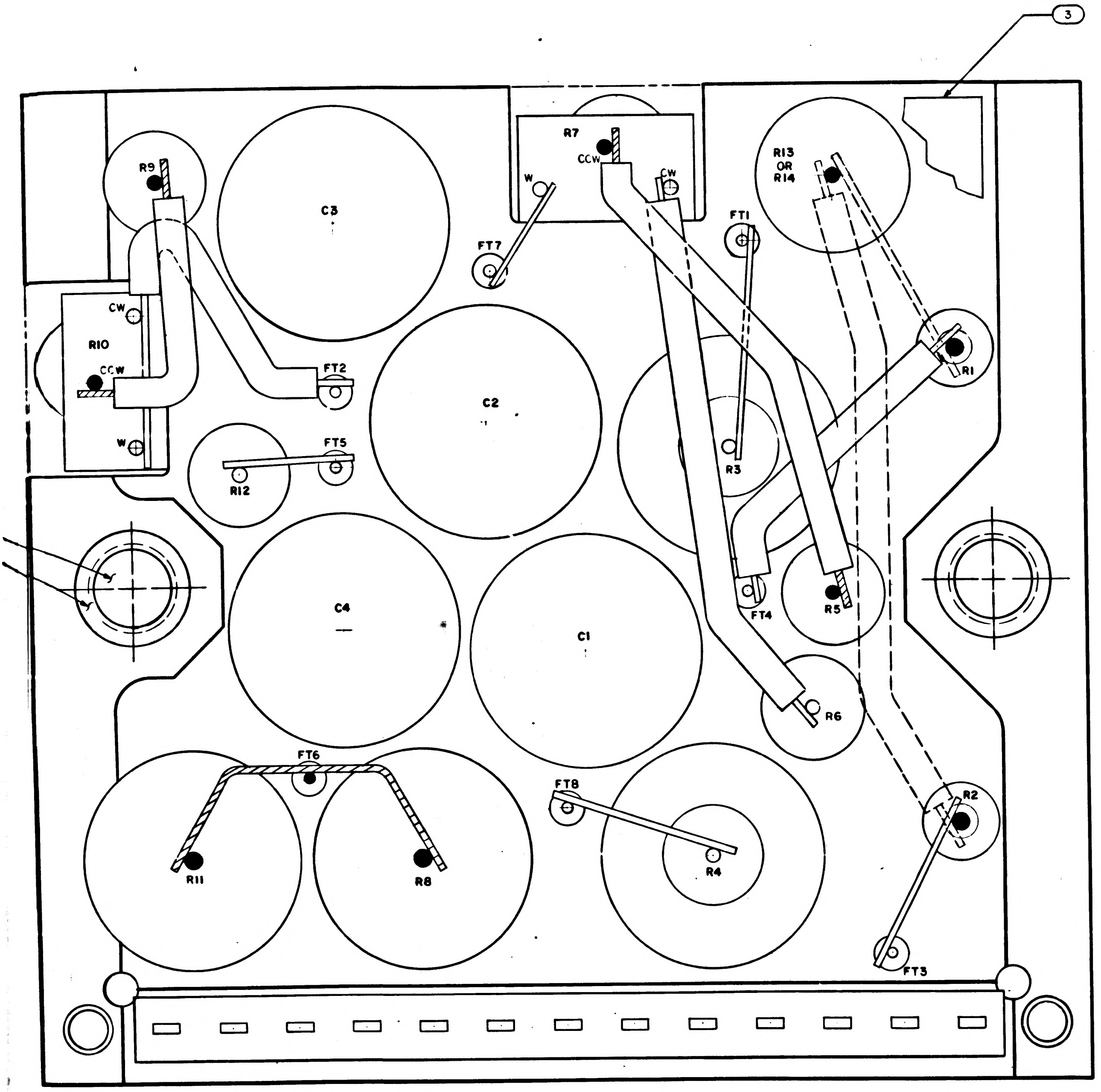
PART NO.	VALUE
1010283-20	15.932K
-21	17.525K
-22	19.473K
-23	21.907K
-24	25.036K
-25	29.209K
-26	35.051K
-27	43.814K
-28	58.418K
-29	87.627K
1010283-30	175.254K


.000
.030
FT8
REF
10
11
.000
.030

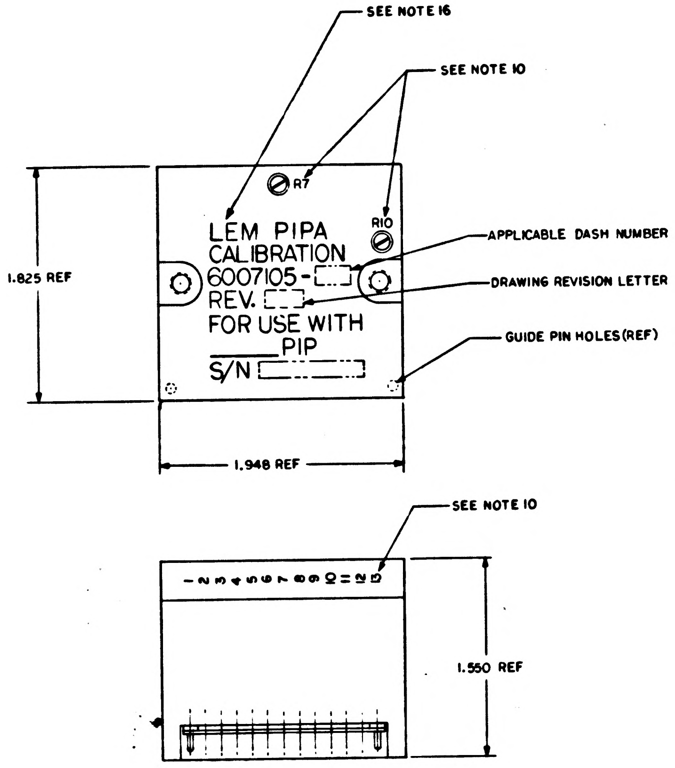
SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

6007105 A

REVISIONS 5966			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	2MAR65	[illegible]
B	REVISED PER TDRR 18515	4APR65	[illegible]



3
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
R5
FT4
R6
FT6
FT8
R2
R11
R8
R4
FT3



SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
1	2008002	INSULATOR, BOTTOM	3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
-011	LIST OF MATERIALS		

B

6007105

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

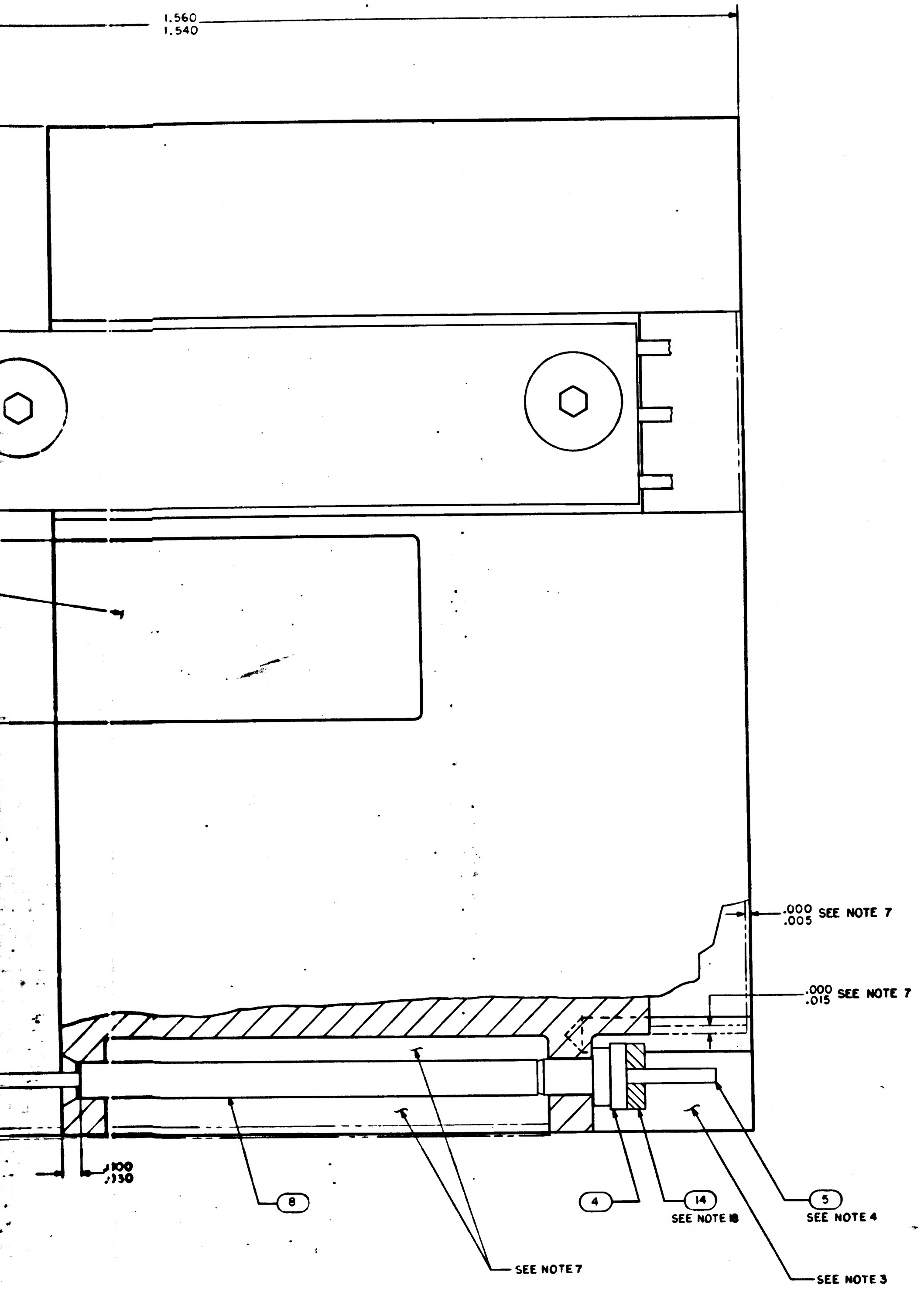
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN TONY BELL DATE 1/19/65
CHECKED [illegible] 1/26/65
APPROVAL [illegible] 1/26/65
APPROVAL [illegible] 1/26/65
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 2 FEB 65

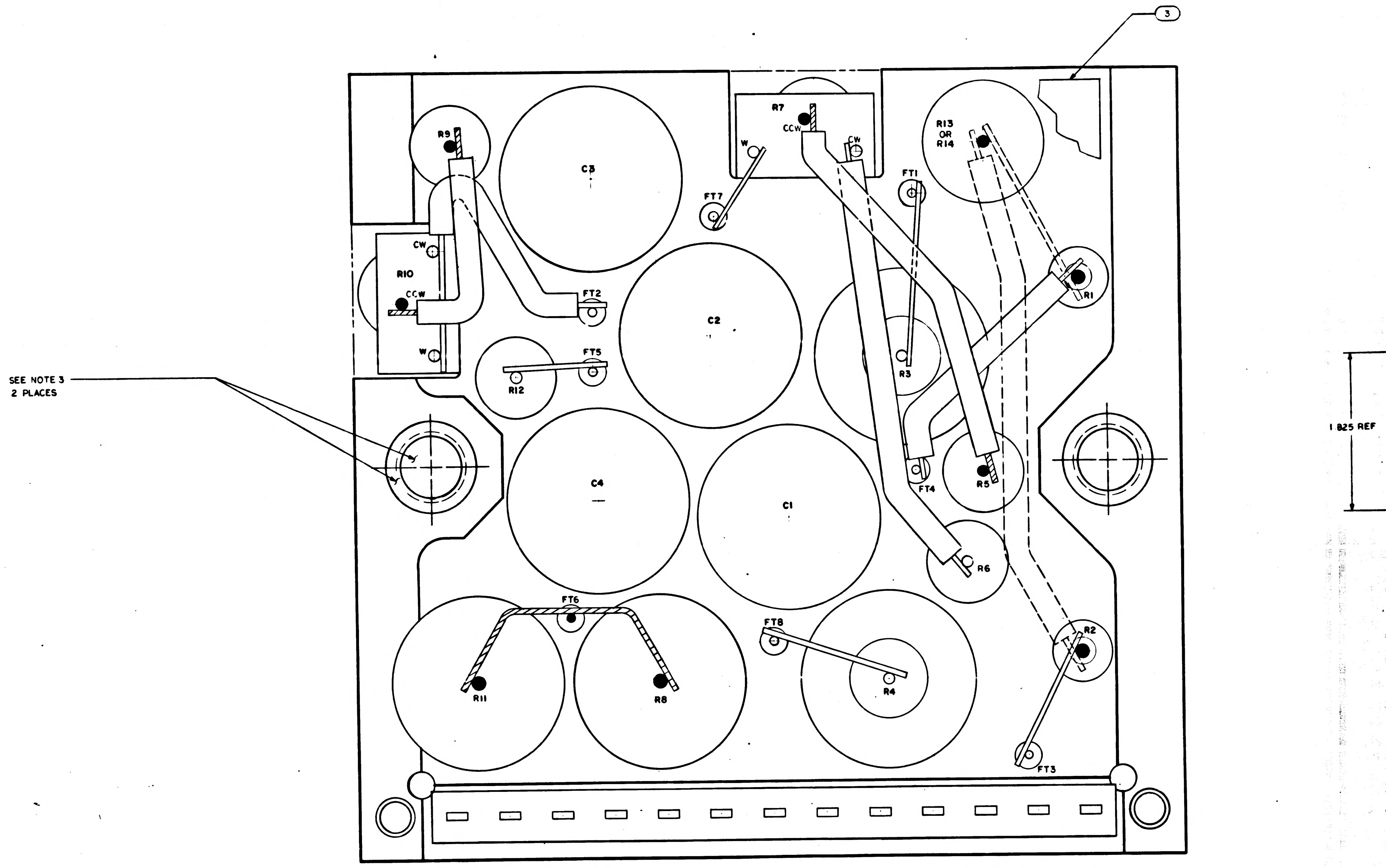
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

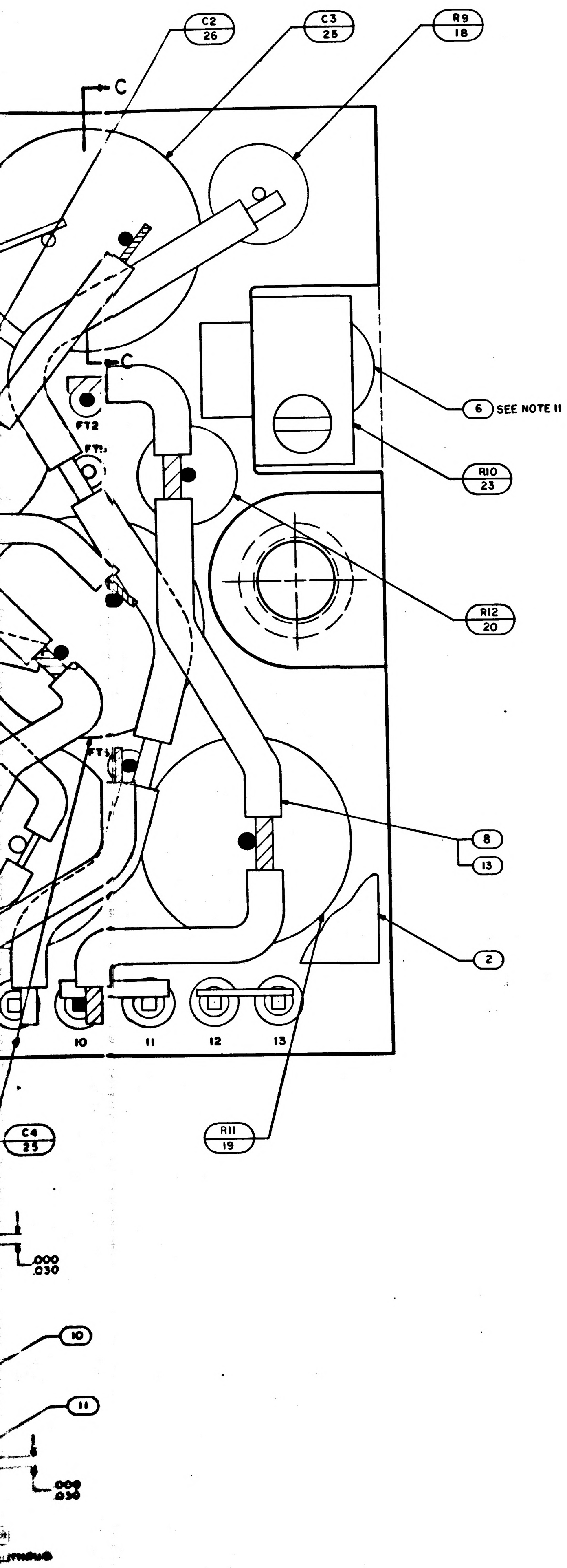
LEM PIPA CALIBRATION ASSEMBLY

CODE IDENT NO. 80230 SIZE J NASA DRAWING NO. 6007105
SCALE 10/1 WT — SHEET 1 OF 1

6007105 SHT


1.560
1.540
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.100
.130
8
4
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3


3
R9
C3
R7
CCW
CW
W
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
C2
FT5
R12
R3
R1
SEE NOTE 3
2 PLACES
C4
C1
FT4
R5
R6
1.825 REF
FT6
FT8
R2
R11
R8
R4
FT3


C2
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C3
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R9
18
C
C
6 SEE NOTE 11
R10
23
R12
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FT2
FT1
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10
11
12
13
C4
25
R11
19
.000
.030
10
11
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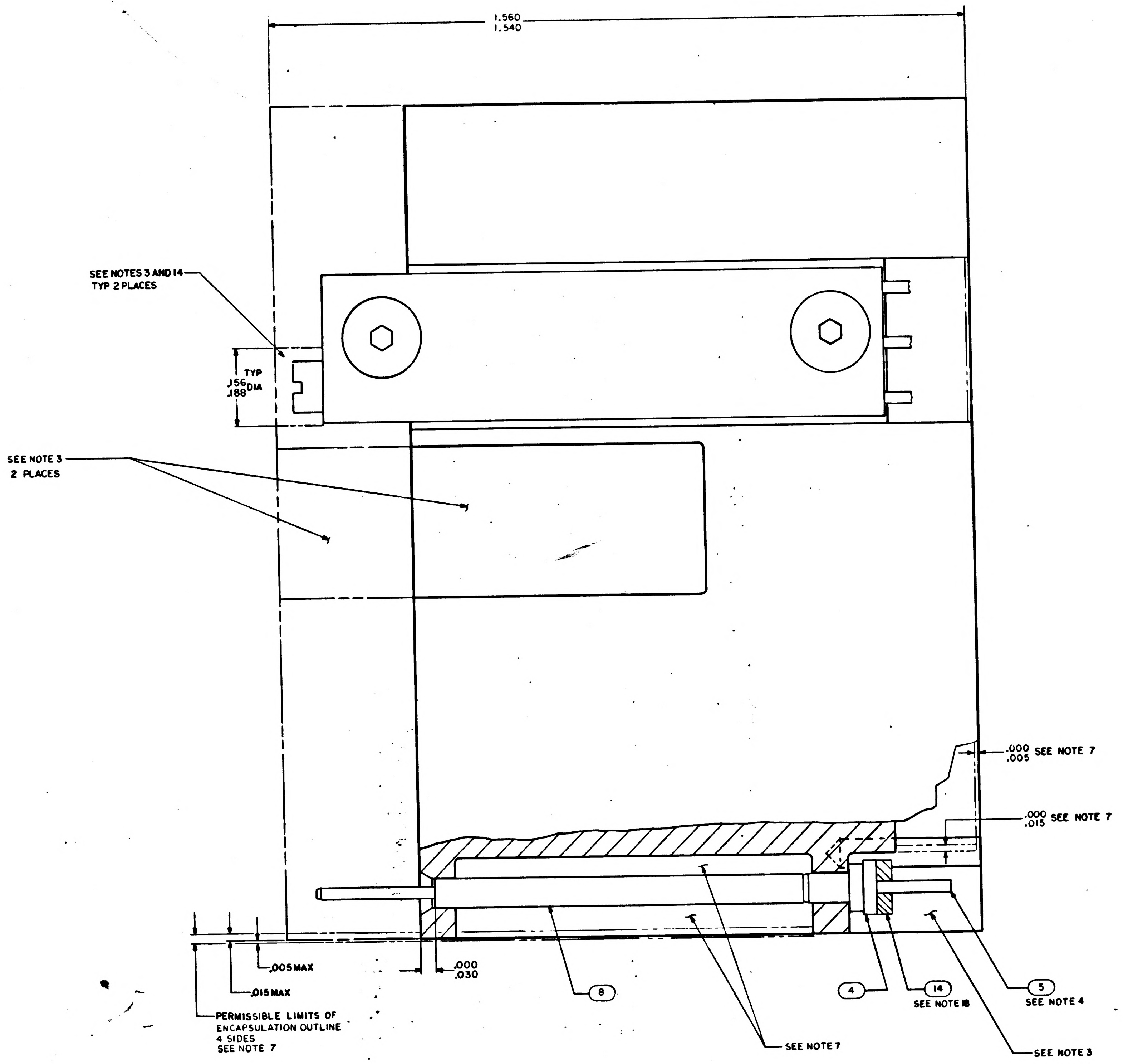
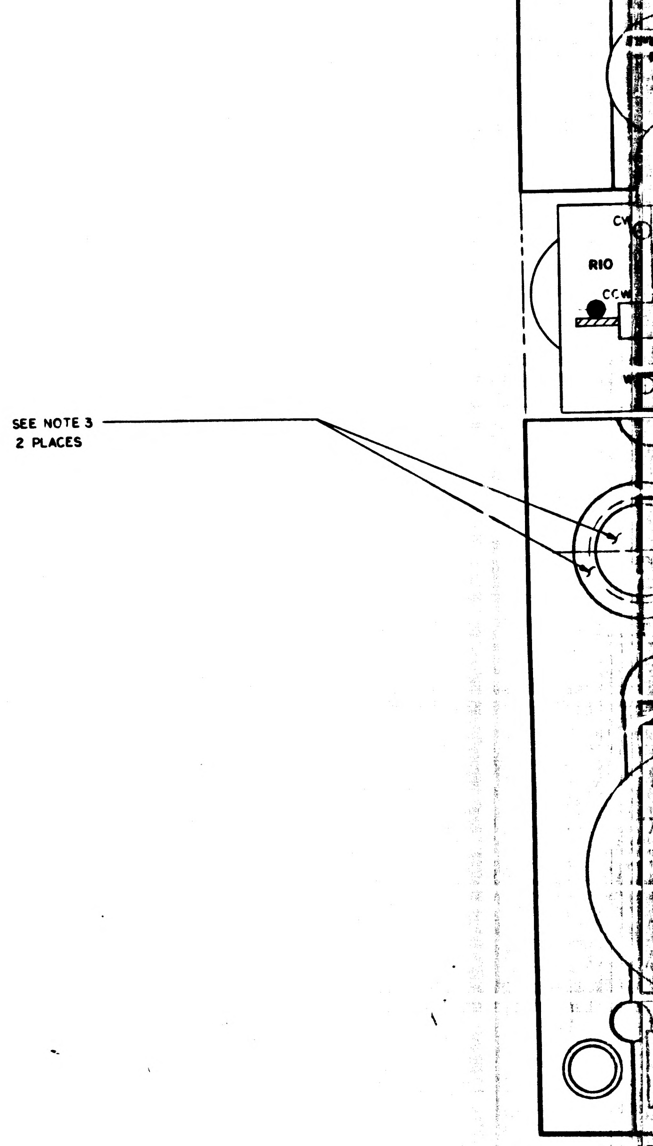
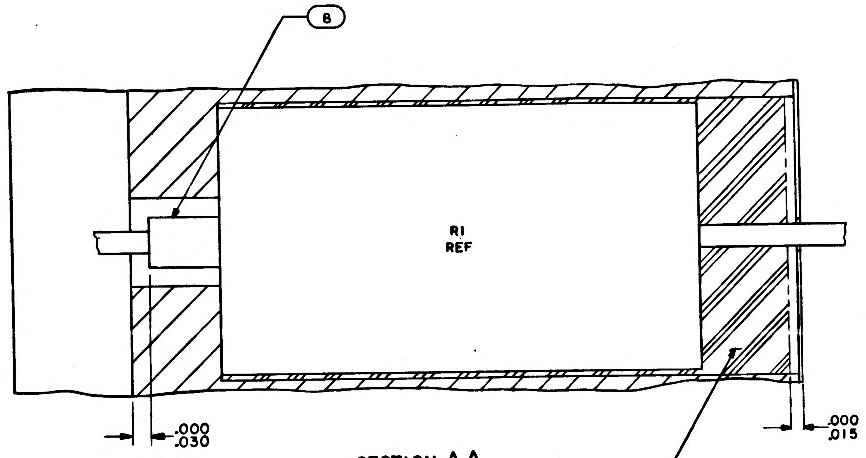
.030


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
.000
.030
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
8
4
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3


SEE NOTE 3
2 PLACES
CW
R10
CCW

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO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R1
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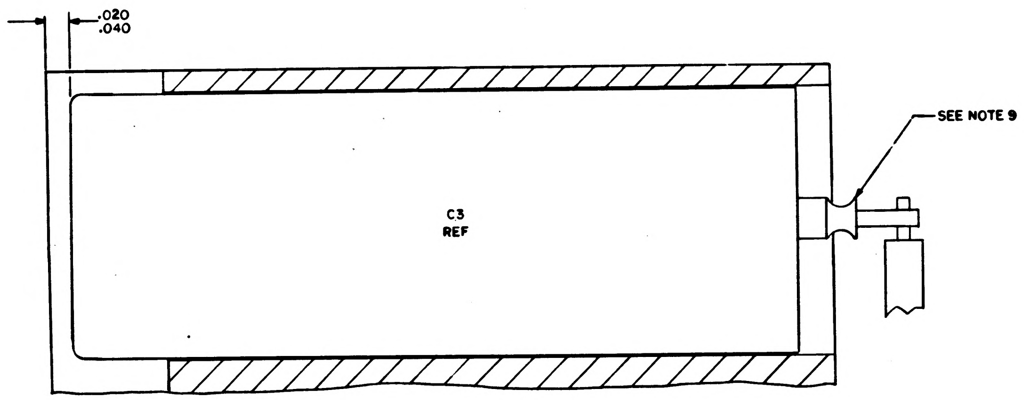
SEE NOTE 8

SECTION A-A

TYP 2 PLACES R1 & R2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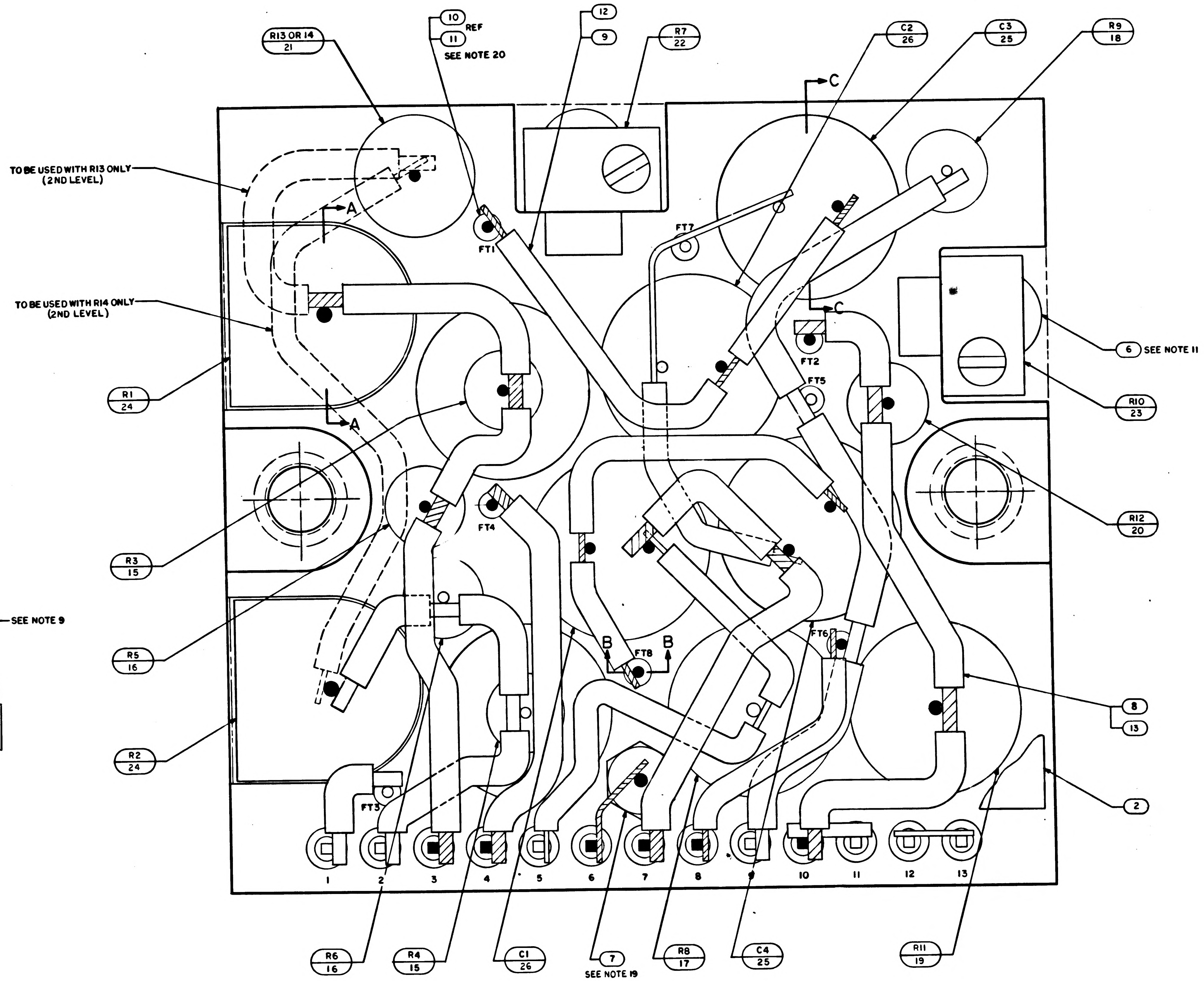
C3
REF
SEE NOTE 9

SECTION C-C

TYP C1 THRU C4


R13 OR R14
21
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REF
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SEE NOTE 20
12
9
R7
22
C2
26
C3
25
R9
18
C
TO BE USED WITH R13 ONLY (2ND LEVEL)
TO BE USED WITH R14 ONLY (2ND LEVEL)
A
A
FT1
FT7
FT2
FT5
C
6 SEE NOTE 11
R10
23
R1
24
R12
20
R3
15
FT4
R5
16
B
FT8
B
FT6
8
13
R2
24
FT3
2
1
2
3
4
5
6
7
8
9
10
11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C OR D. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO. 6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C OR D
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18. BOND FIND NO. 14 TO FIND NO. 4 PER ND1002237
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C OR D
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95000
-9	96250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11

PART NO.	VALUE Ω
1010923-26	135,561
-27	136.816
-28	138,095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R13 OR R14

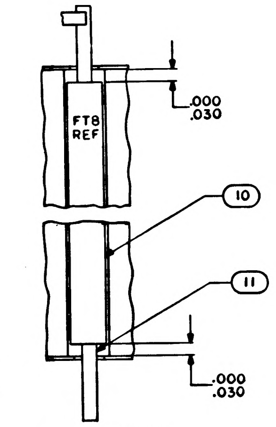
PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

R12

PART NO.	VALUE
1010283-20	15.932K
-21	17.525K
-22	19.473K
-23	21.907K
-24	25.036K
-25	29.209K
-26	35.051K
-27	43.814K
-28	58.418K
-29	87.627K
1010283-30	175.254K


FT8
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SECTION B-B

TYPICAL FOR ALL FEEDTHRUS

6007105 | SHT

SYM	DESCRIPTION	DATE	APPROVAL
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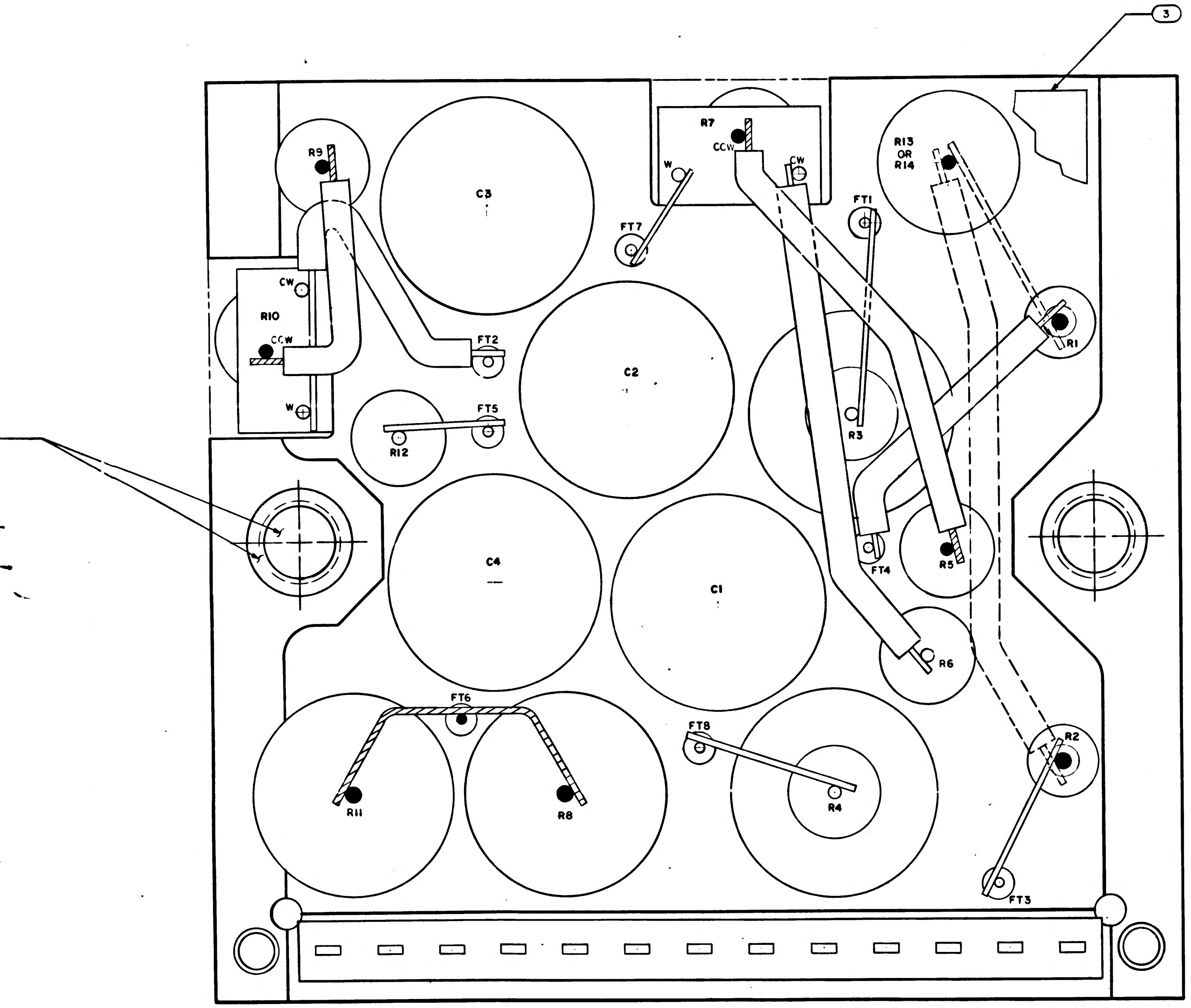
B	REVISED PER TDRR 18515	[illegible]	[illegible]
C	REVISED PER TDRR 18967	[illegible]	[illegible]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R9
C3
R7
CCW
CW
W
R13
OR
R14
FT7
FT1
CW
R10
CCW
W
FT2
FT5
R12
C2
R3
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C4
C1
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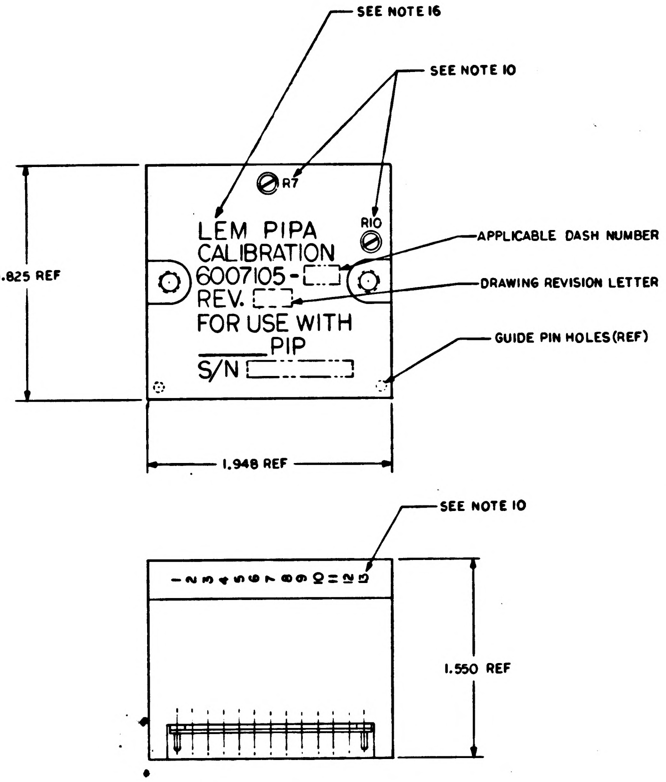
R8
FT8
R4
R2
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE,ELEC .032 DIA	13
AR	1006757-8	WIRE,ELEC .010 X .020	12
AR	1006757-1	WIRE,ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL,THREADED	7
4	1010618-3	SCREW,BUTTON HEAD	6
13	1006782-5	CONTACT,WRAPOST-MALE MINAT	5
13	1006775	INSULATOR,WRAPOST-MALE MINAT	4
1	2008002	INSULATOR,BOTTOM	3
1	2008003	INSULATOR,TOP	2
1	2008099	HEATSINK	1

-011 LIST OF MATERIALS

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN TONY BELL DATE 1/19/65
CHECKED [illegible]
APPROVAL [illegible] 1/26/65
APPROVAL [illegible] 1/26/65
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 2 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

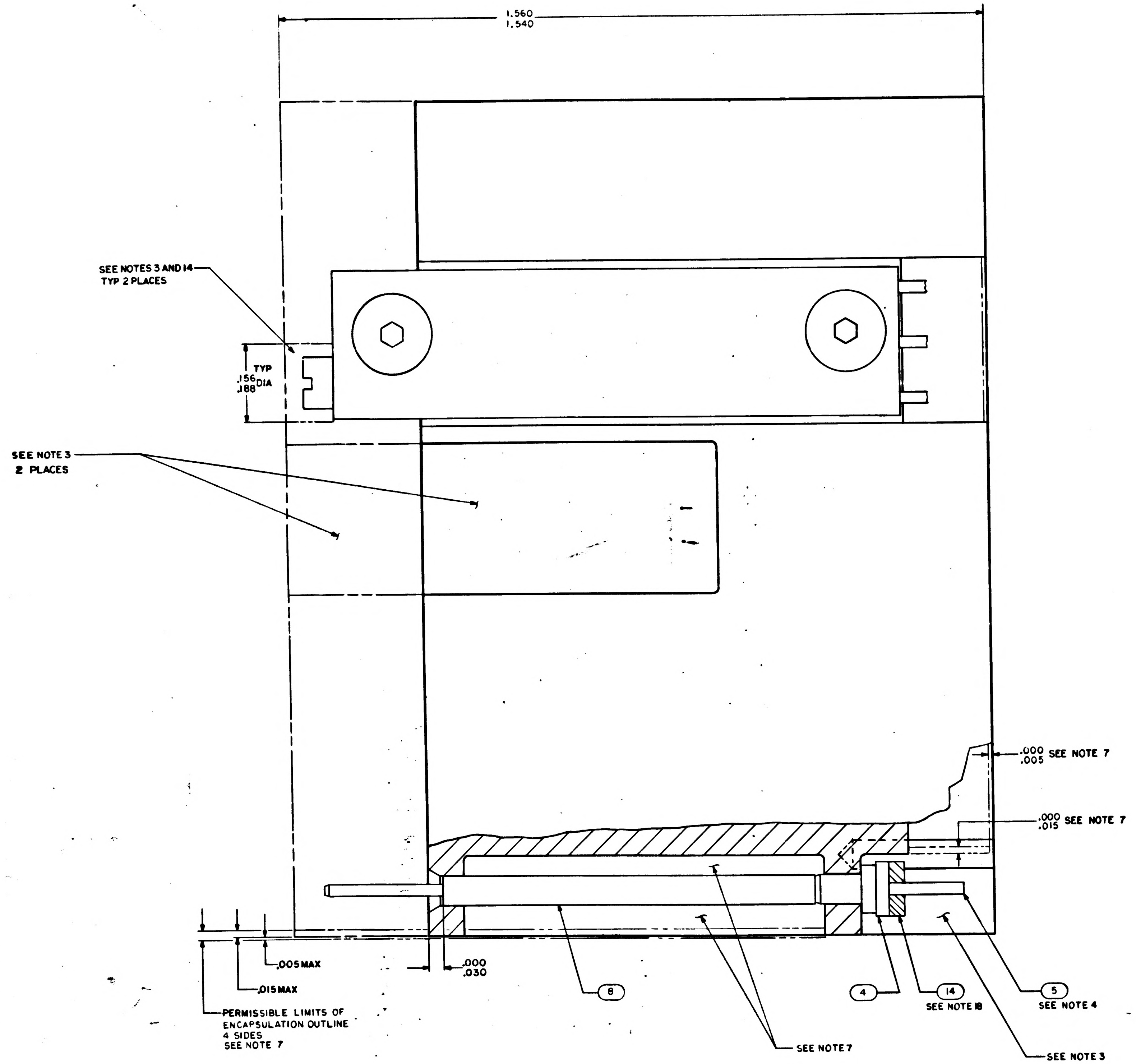
LEM PIPA CALIBRATION ASSEMBLY

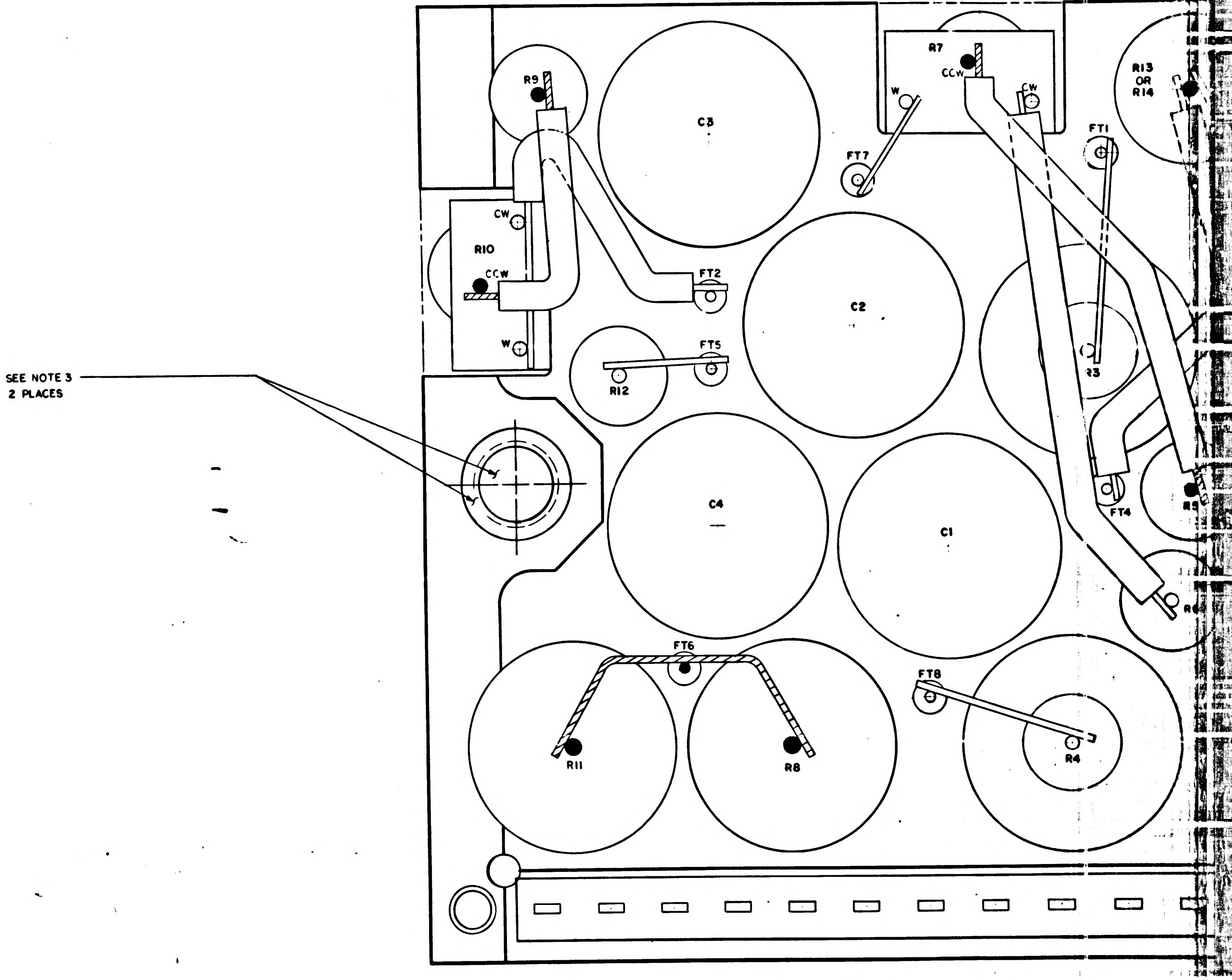
CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

6007105 C

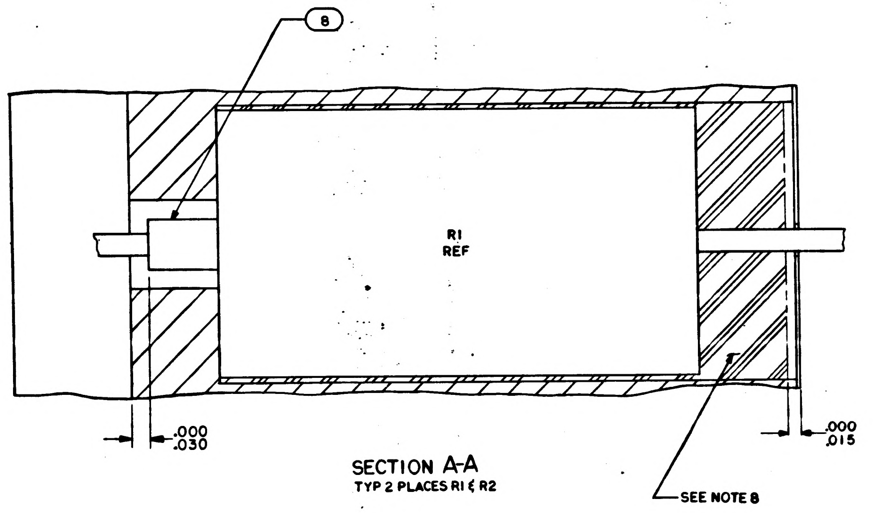
6007105 SHT C

3 H


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.005MAX
.015MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
SEE NOTE 7
4
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 3


SEE NOTE 3
2 PLACES
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT7
FT1
CW
R10
CCW
W
FT2
FT5
R12
C2
R3
C4
C1
FT4
R5
R6
FT6
FT8
R11
R8
R4

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO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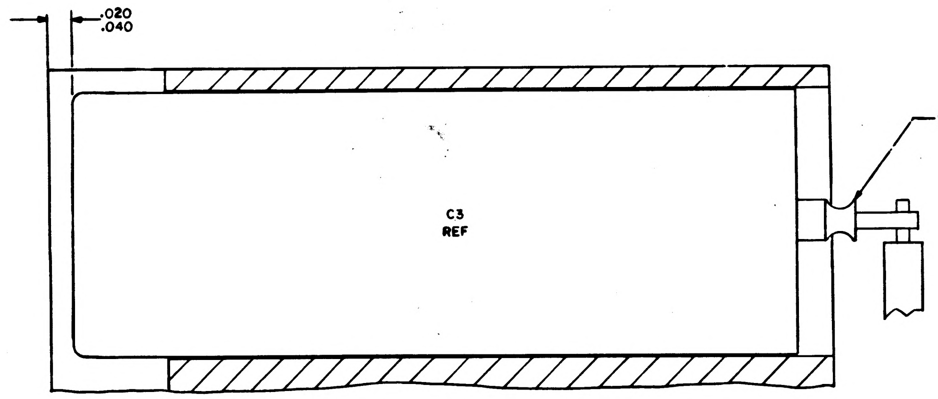
R1
REF
.000
.030
.000
.015
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2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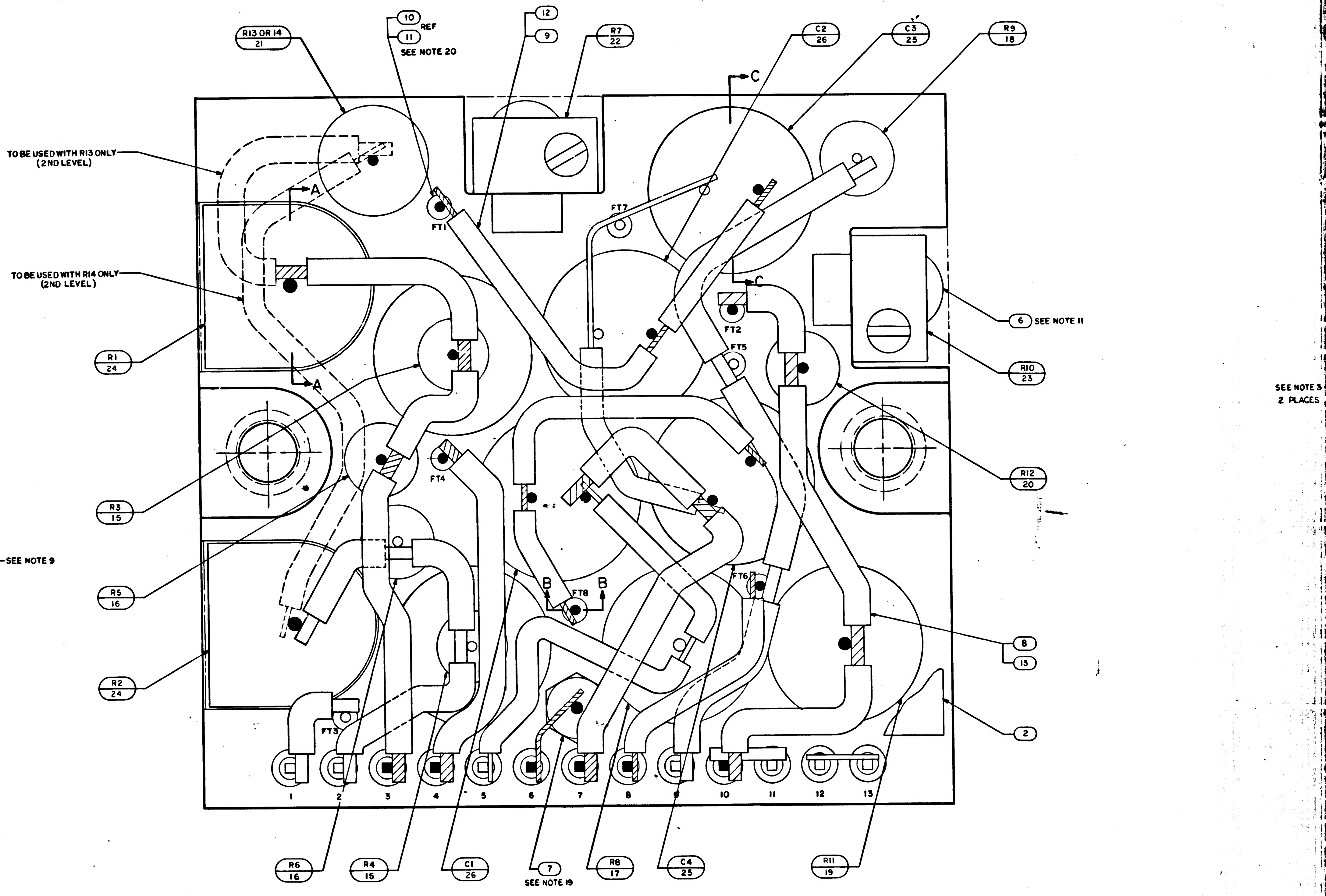
C3
REF
SEE NOTE 9

SECTION C-C
TYP C1 THRU C4


R13 OR 14
21
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11
REF
SEE NOTE 20
12
9
R7
22
C2
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C3
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R9
18
TO BE USED WITH R13 ONLY
(2ND LEVEL)
TO BE USED WITH R14 ONLY
(2ND LEVEL)
A
A
C
C
FT1
FT7
FT2
FT5
FT4
FT6
FT8
FT3
B
B
6 SEE NOTE 11
R10
23
SEE NOTE 3
2 PLACES
R1
24
R3
15
R12
20
R5
16
8
13
R2
24
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1
2
3
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9
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11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C OR D. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO. 6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C OR D
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18. BOND FIND NO. 14 TO FIND NO. 4 PER ND1002237
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C OR D
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377 - 8	95,000
- 9	96,250
- 10	97,500
- 11	98,750
- 12	100,000
- 13	101,250
- 14	102,500
- 15	103,750
1010377 - 16	105,000

R11

PART NO.	VALUE Ω
1010923 - 26	135.561
- 27	136.816
- 28	138.095
- 29	139.397
- 30	140.725
- 31	142.078
- 32	143.457
- 33	144.864
- 34	146.298
- 35	147.761
1010923 - 36	149.253

R13 OR R14

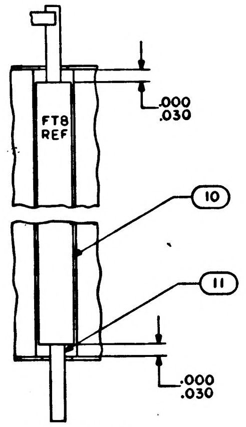
PART NO.	VALUE
1010251 - 21	67.4K
1010251 - 40	102K
1010251 - 41	205K
1010251 - 23	82.6K
1010251 - 27	149K
1010251 - 30	373K
1010251 - 31	746K

C3 AND C4

PART NO	VALUE uf
1010289 - 39	.00260
- 40	.00282
- 41	.00304
- 42	.00326
- 43	.00348
- 44	.00370
- 45	.00392
- 47	.00414
- 48	.00436
1010289 - 49	.00458

R12

PART NO.	VALUE	PART NO	VALUE
1010283 - 20	15.932K	1010283 - 43	350.508
- 21	17.525K	- 44	116.836
- 22	19.473K	- 45	70.102
- 23	21.907K	- 46	50.073
- 24	25.036K	- 47	38.945
- 25	29.209K	- 48	31.864
- 26	35.051K	- 49	26.962
- 27	43.814K	- 50	23.367
- 28	58.418K	- 51	20.618
- 29	87.627K	- 52	18.448
1010283 - 30	175.254K	- 53	16.691
		1010283 - 54	15.239


FT8
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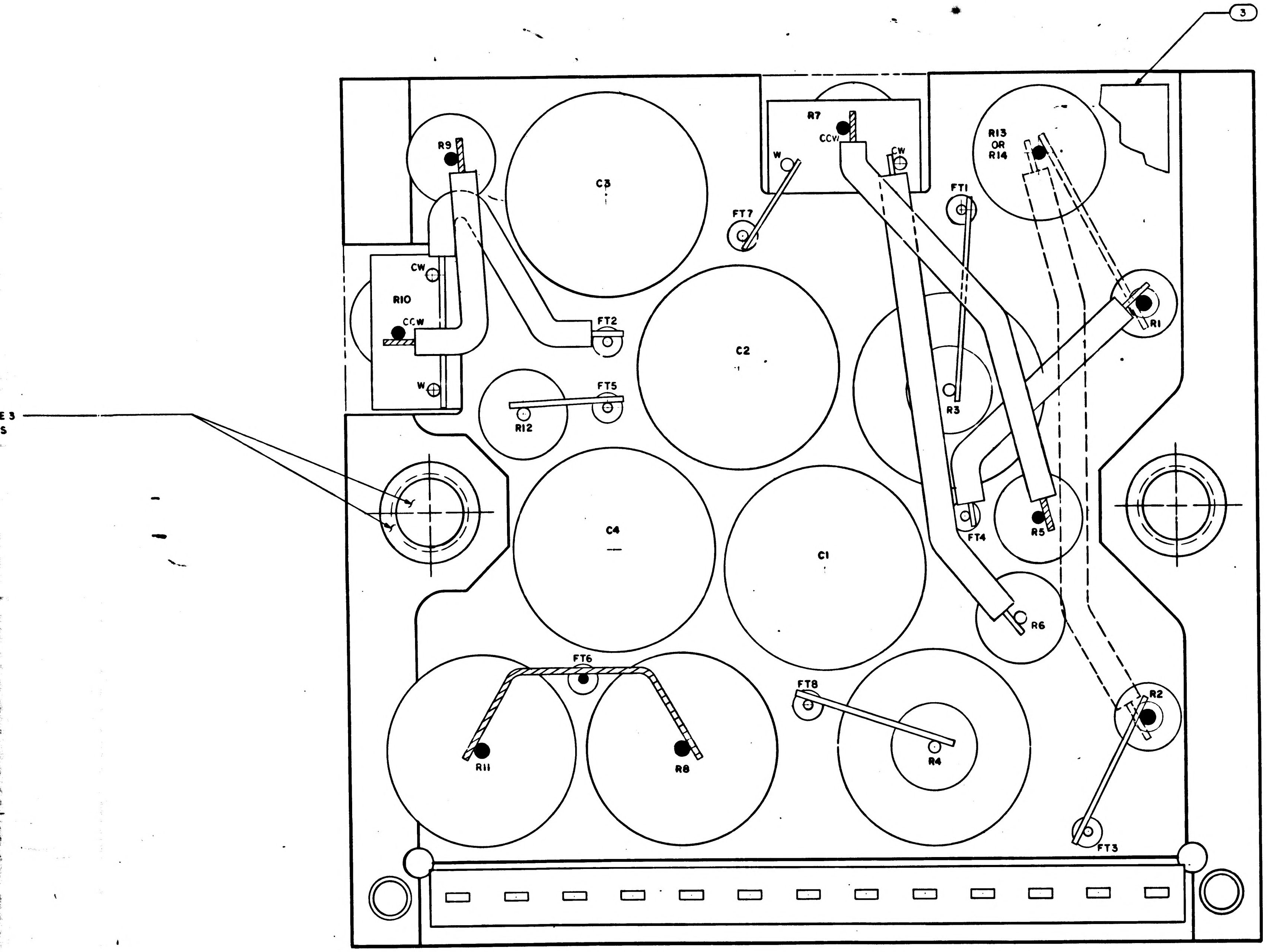
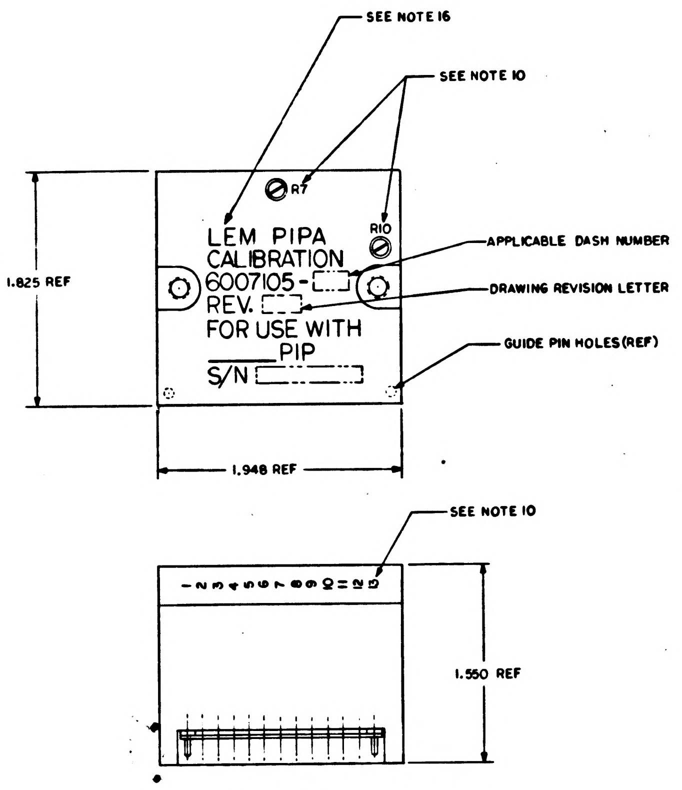
SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	[illegible]	[illegible]
B	REVISED PER TDRR 18515	[illegible]	[illegible]
C	REVISED PER TDRR 18967	[illegible]	[illegible]
D	REVISED PER TDRR 19153	27 [illegible] 65	[illegible]


3
E 3
S
R9
C3
R7
CCW
W
CW
FT7
FT1
R13
OR
R14
CW
R10
CCW
W
FT2
C2
FT5
R12
R3
R1
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MAL MINAT	4
1	2008002	INSULATOR, BOTTOM	3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
-011	LIST OF MATERIALS		

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN TONY BELL DATE 1/13/65
CHECKED [illegible]
APPROVAL [illegible] 1/26/65
APPROVAL [illegible] 1/26/65
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 2 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

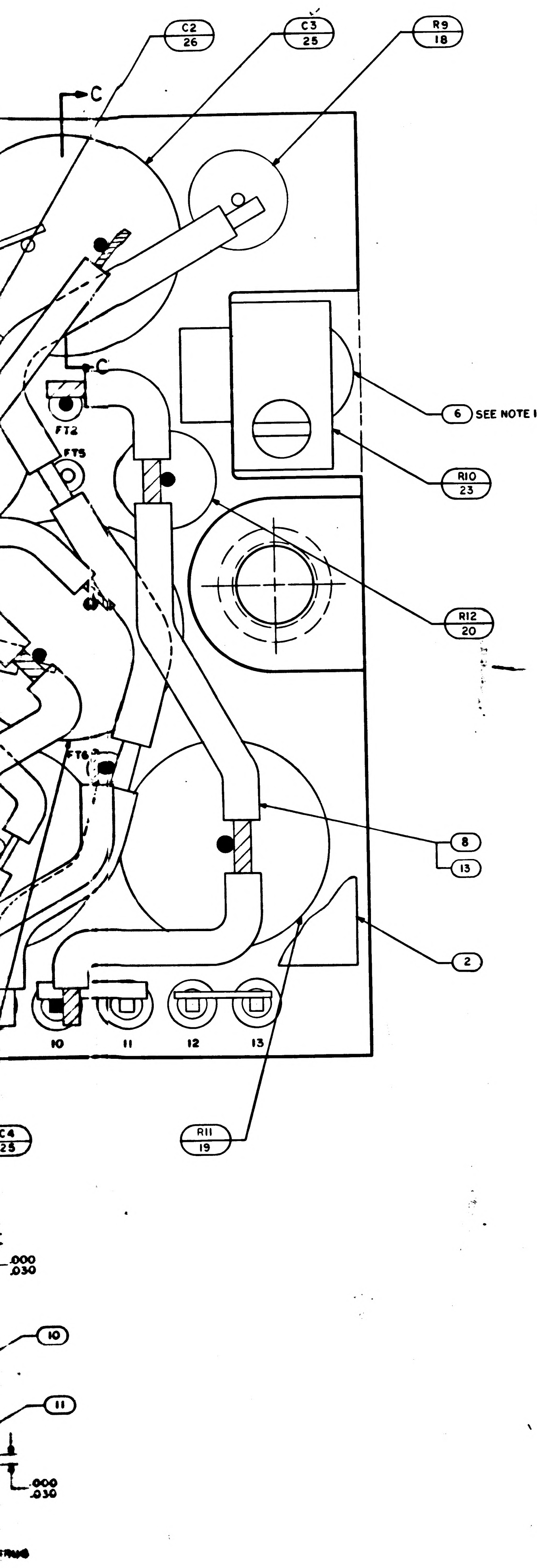
LEM PIPA CALIBRATION ASSEMBLY

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

D
6007105

6007105 SHT D

F3


C2
26
C3
25
R9
18
C
C
FT2
FT5
6 SEE NOTE 11
R10
23
R12
20
FT6
8
13
2
10
11
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13
C4
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R11
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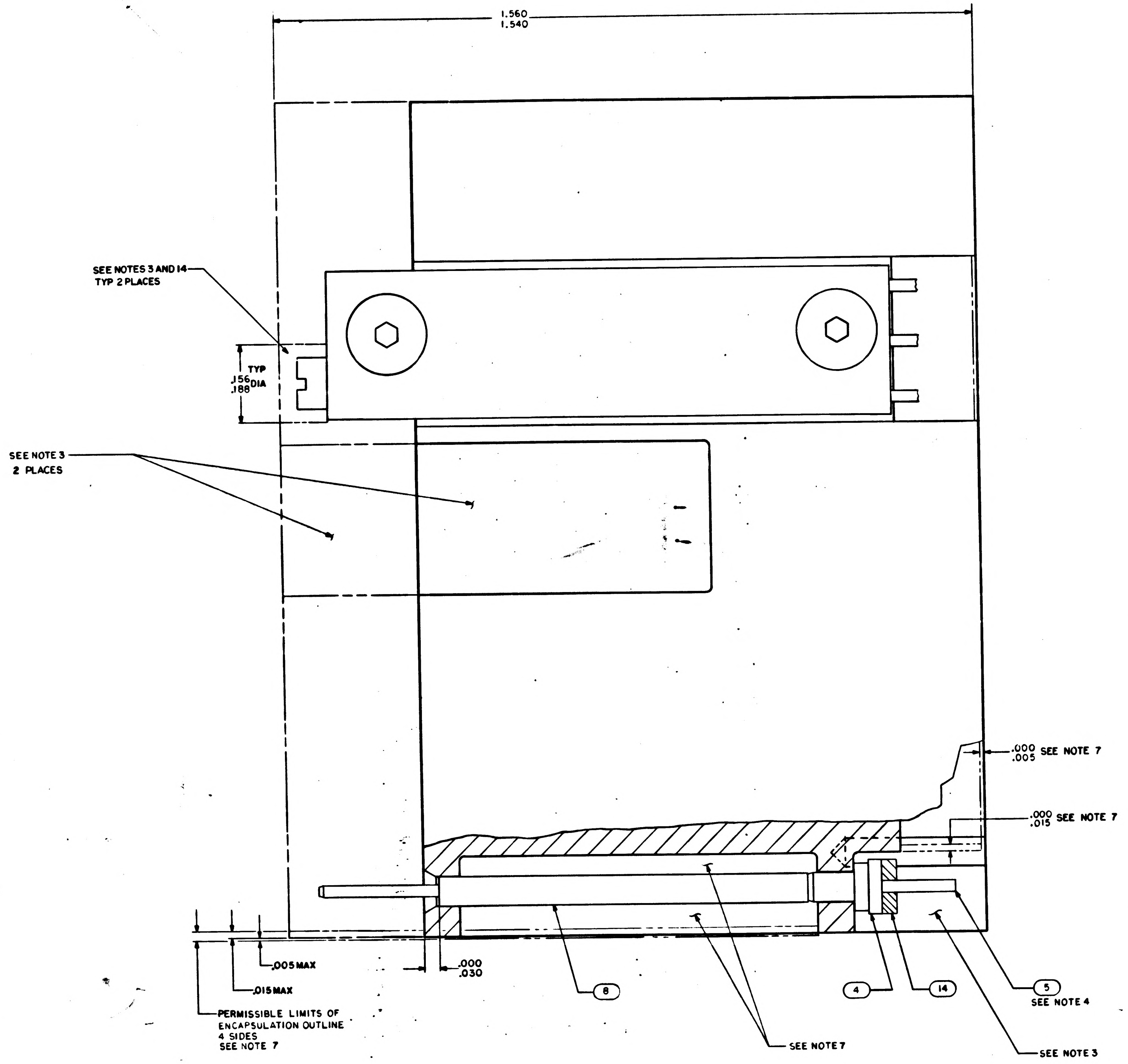
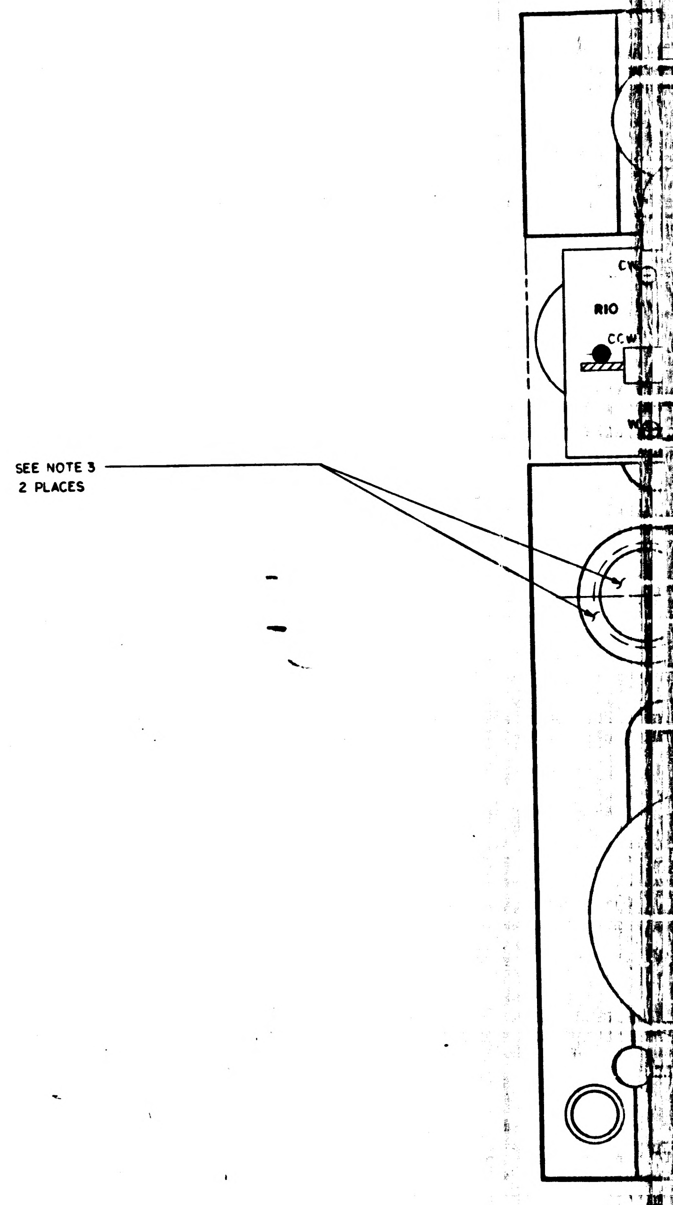
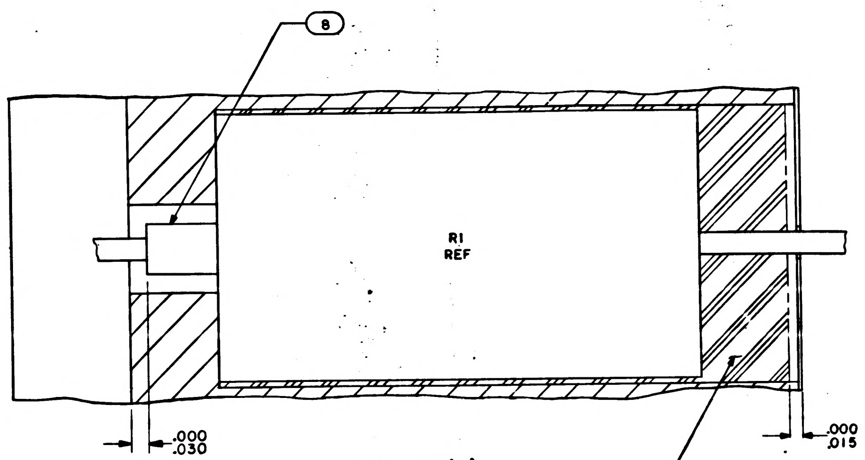
.030
10
11
.000
.030


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
4
14
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3


SEE NOTE 3
2 PLACES
R10
CW
CCW

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO


8
R1
REF
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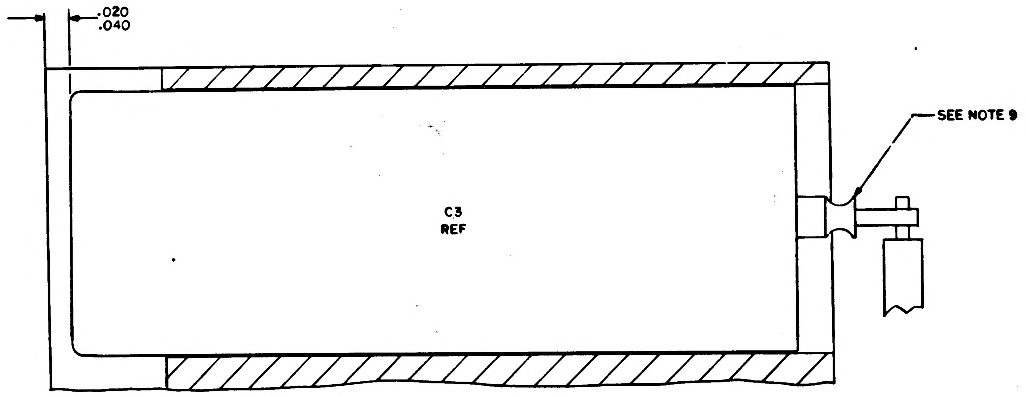
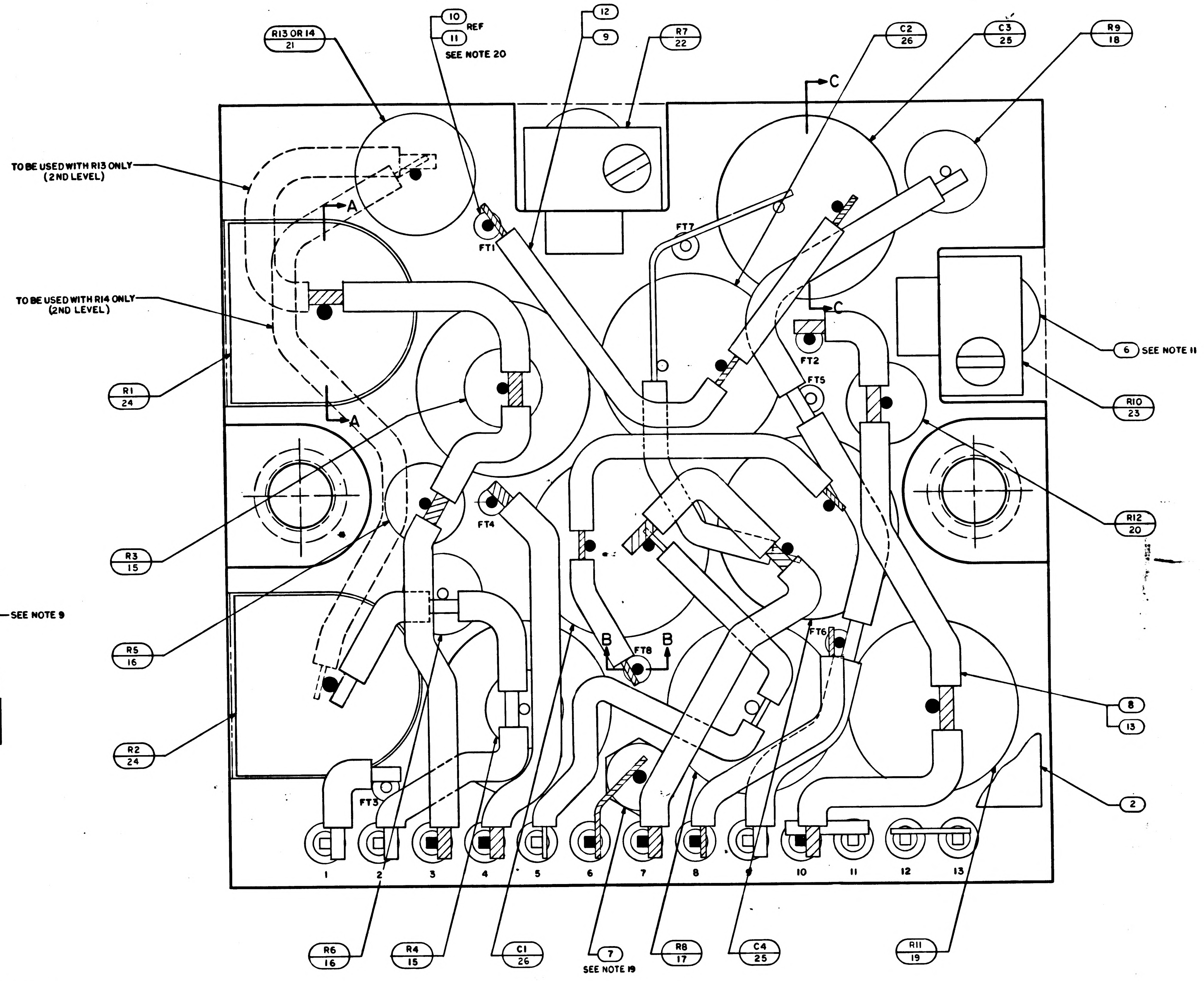
.030
.000
.015
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2


.020
.040
SEE NOTE 9
C3
REF

SECTION C-C
TYP C1 THRU C4


R13 OR R14
21
10
11
REF
SEE NOTE 20
12
9
R7
22
C2
26
C3
25
R9
18
TO BE USED WITH R13 ONLY (2ND LEVEL)
TO BE USED WITH R14 ONLY (2ND LEVEL)
C
C
A
A
FT1
FT7
FT2
FT5
FT4
FT6
FT8
FT3
B
B
6 SEE NOTE 11
R10
23
R1
24
R12
20
R3
15
R5
16
R2
24
8
13
2
1
2
3
4
5
6
7
8
9
10
11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C OR D. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO. 6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C OR D
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20. STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C OR D
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95,000
-9	96,250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11

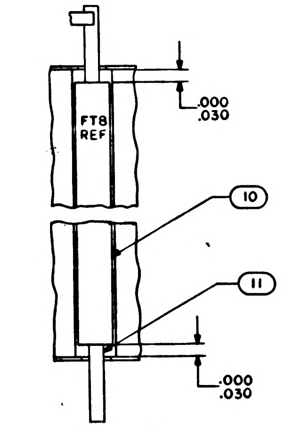
PART NO.	VALUE Ω
1010923-26	135,561
-27	136.816
-28	138,095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.[illegible]53

R13 OR R14

PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K
1010251-23	82.6K
1010251-27	149K
1010251-30	373K
1010251-31	746K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

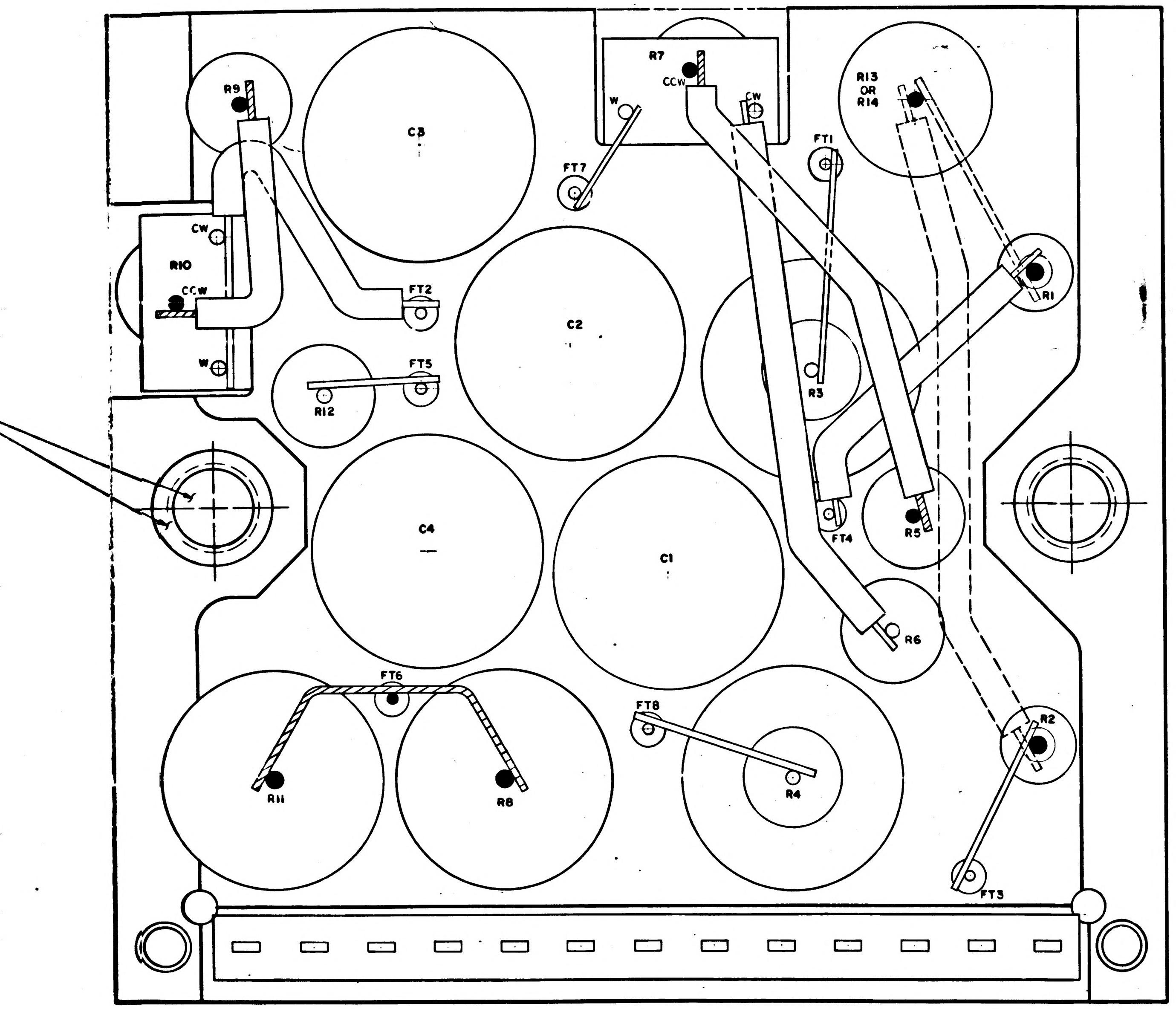

.000
.030
FT8
REF
10
11
.000
.030

SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

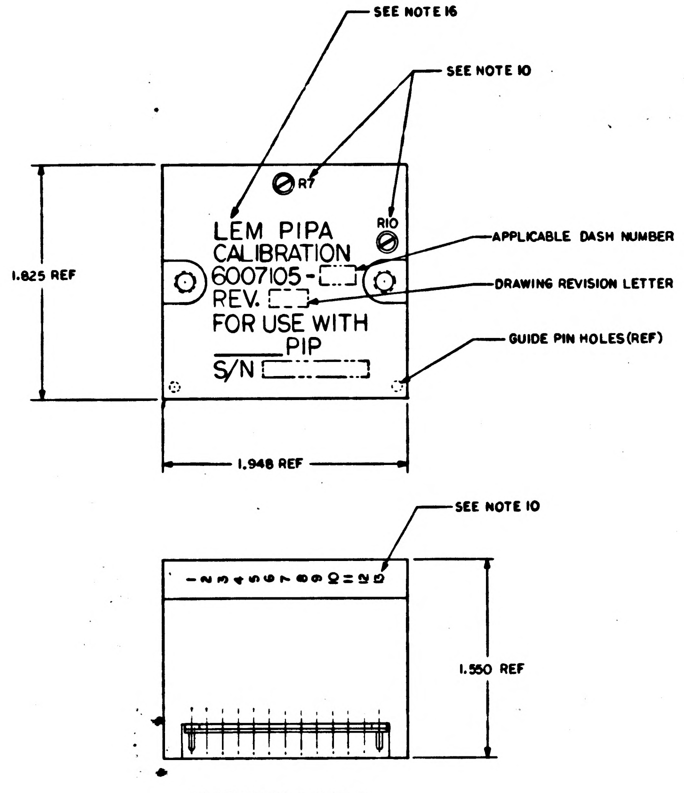
R12

PART NO.	VALUE	PART NO	VALUE
1010283-20	15.932K	1010283-43	350.508
-21	17.525K	-44	116.836
-22	19.473K	-45	70.102
-23	21.907K	-46	50.073
-24	25.036K	-47	38.945
-25	29.209K	-48	31.864
-26	35.051K	-49	26.962
-27	43.814K	-50	23.367
-28	58.418K	-51	20.618
-29	87.627K	-52	18.448
1010283-30	175.254K	-53	16.691
		1010283-54	15.239

REVISIONS 15366			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	[illegible]	
B	REVISED PER TDRR 18515	21 APR 65	
C	REVISED PER TDRR 18967	10 MAY 65	
D	REVISED PER TDRR 19153	27 MAY 65	
E	REVISED PER TDRR 21489	[illegible]	



R9
C3
R7
CCW
CW
W
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
R5
FT4
R6
FT6
FT8
R2
R11
R8
R4
FT3



SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
			3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
-011	LIST OF MATERIALS		

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN TONY BELL DATE 1/19/65
CHECKED
APPROVAL 1/26/65
APPROVAL 1/26/65
NASA APPROVAL
MIT APPROVAL 2 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

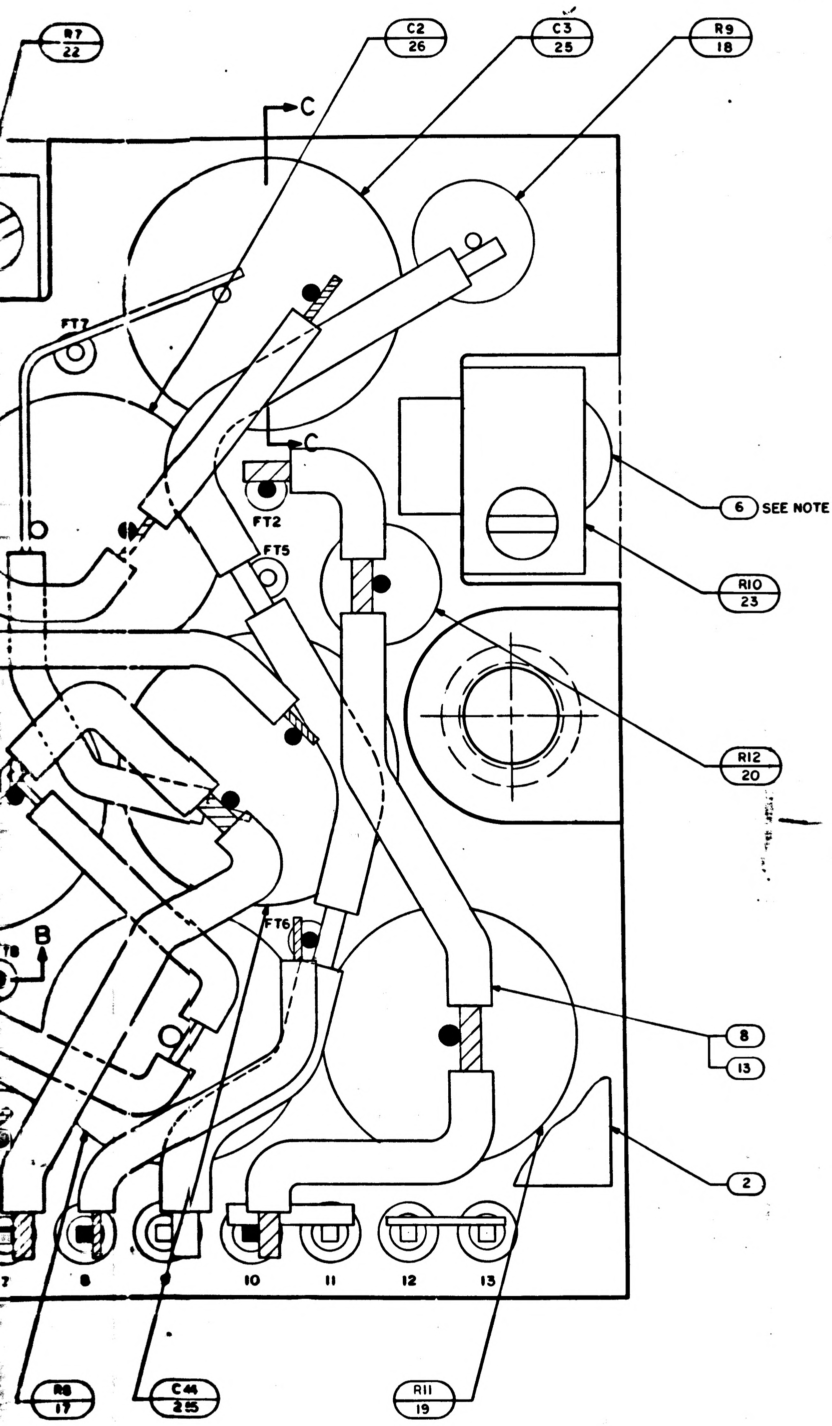
LEM PIPA CALIBRATION ASSEMBLY

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

6007105 E

3H

MASTER



R7 22
C2 26
C3 25
R9 18
C
FT7
C
FT2
FT5
6 SEE NOTE 11
R10 23
R12 20
FT6
B
FT8
8
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2
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8
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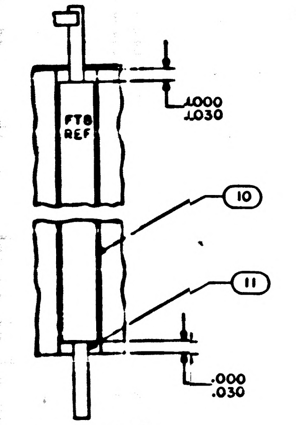
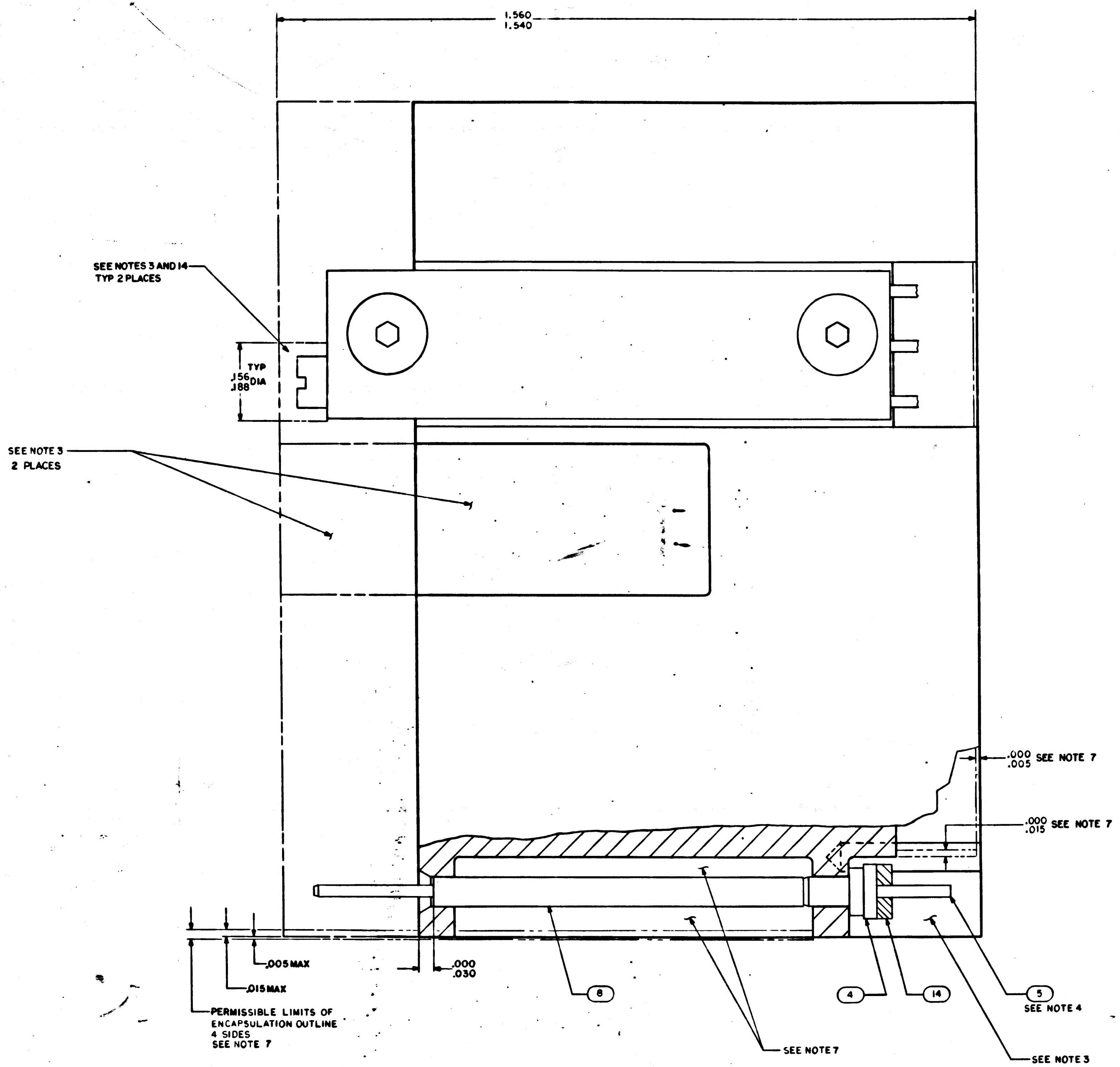
12
13
R8 17
C44 215
R11 19

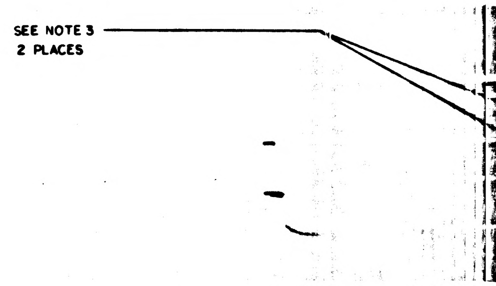


FT8 REF
.000 .030
10
11
.000 .030

SECTION B-B
TYPICAL FOR ALL FEEDTHRUS



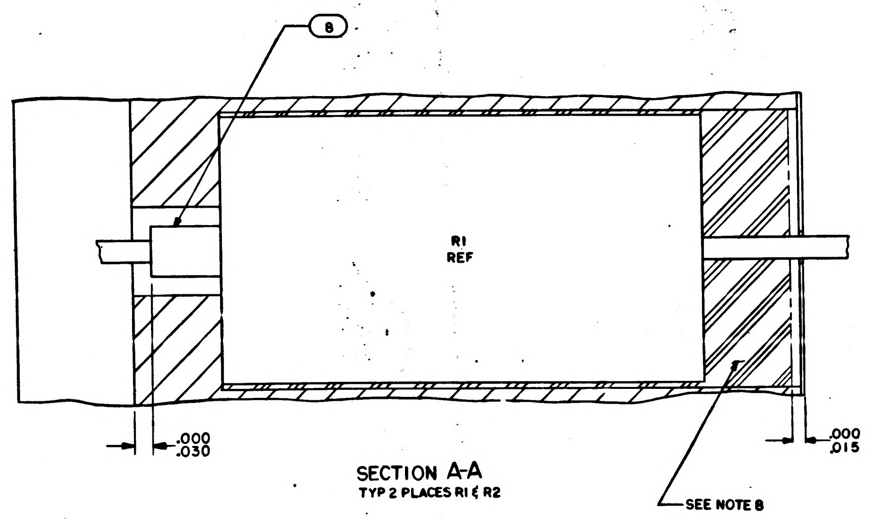
1.560 1.540
SEE NOTES 3 AND 14 TYP 2 PLACES
.156 .188 TYP DIA
SEE NOTE 3 2 PLACES
.000 .005 SEE NOTE 7
.000 .015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF ENCAPSULATION OUTLINE 4 SIDES SEE NOTE 7
.000 .030
8
4
14
5 SEE NOTE 4
SEE NOTE 7
SEE NOTE 3



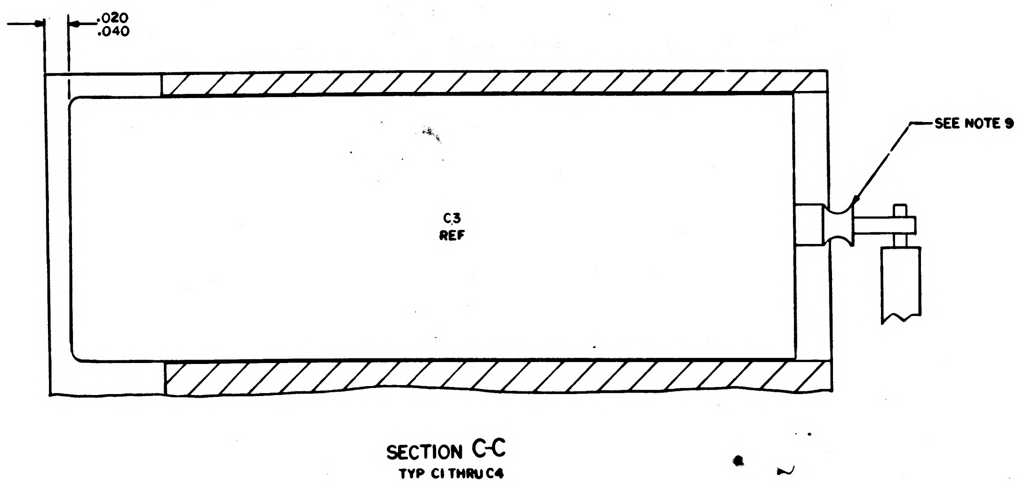
SEE NOTE 3 2 PLACES

6007105 SHT D

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


8
R1
REF
.000
.030
.000
.015
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2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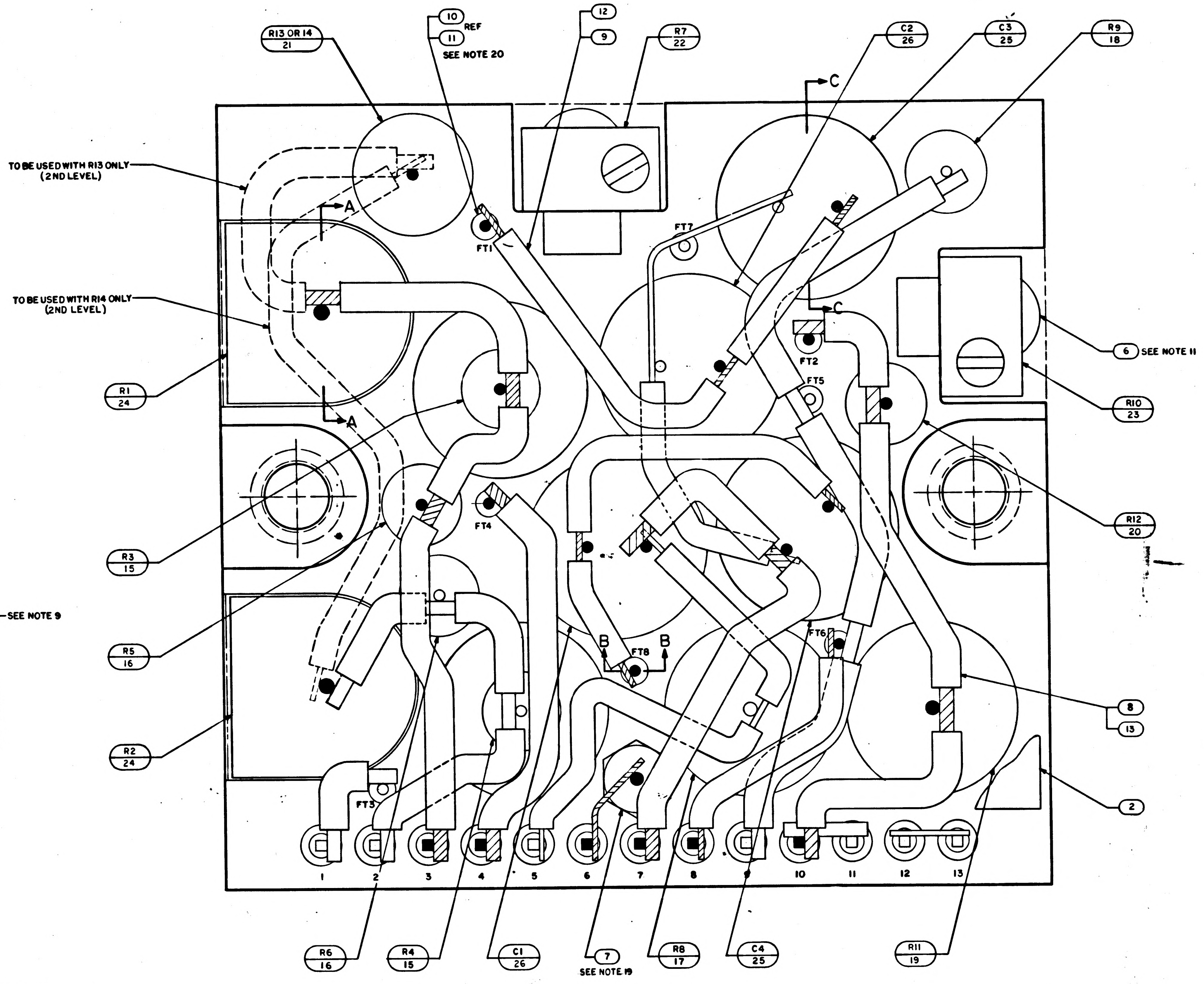
.040
C3
REF
SEE NOTE 9

SECTION C-C
TYP C1 THRU C4


R13 OR R14
21
10
REF
11
SEE NOTE 20
12
9
R7
22
C2
26
C3
25
R9
18
TO BE USED WITH R13 ONLY
(2ND LEVEL)
TO BE USED WITH R14 ONLY
(2ND LEVEL)
C
C
A
A
FT1
FT7
FT2
FT5
6 SEE NOTE 11
R10
23
R1
24
R3
15
FT4
R12
20
R5
16
B
B
FT8
FT6
8
13
R2
24
FT3
2
1
2
3
4
5
6
7
8
9
10
11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C OR D. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C OR D
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002C69
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20. STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C OR D
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95000
-9	96250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11

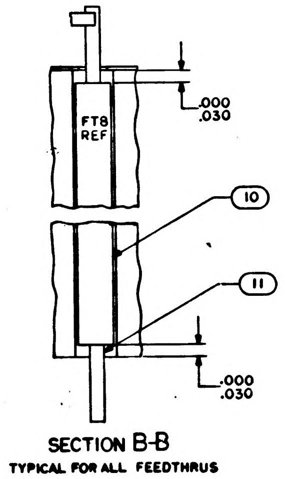
PART NO.	VALUE Ω
1010923-26	135.561
-27	136.816
-28	138.095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R13 OR R14

PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K
1010251-23	82.6K
1010251-27	149K
1010251-30	373K
1010251-31	746K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

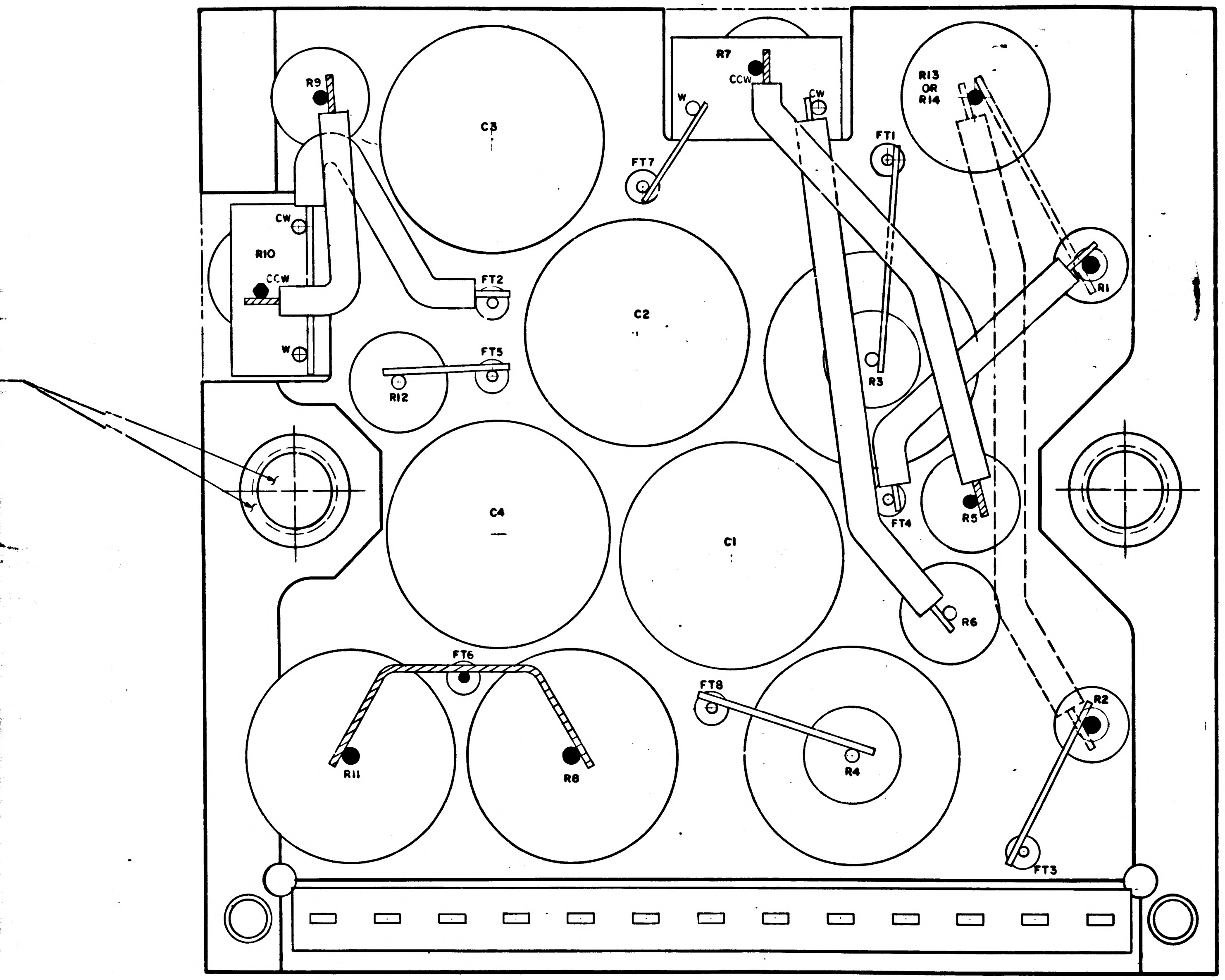

FT8
REF
.000
.030
10
11
.000
.030

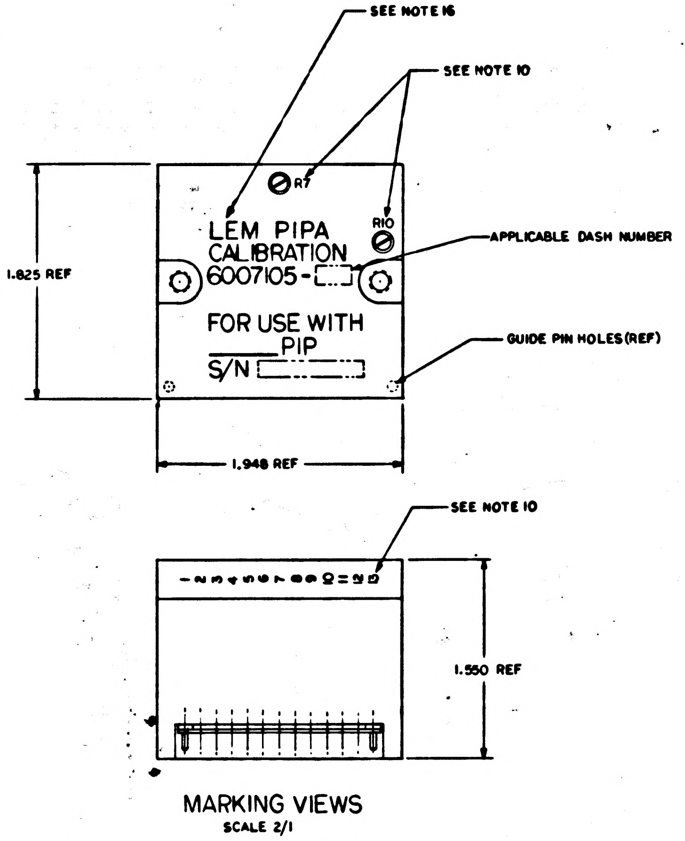
SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

R12

PART NO.	VALUE	PART NO	VALUE
1010283-20	15.932K	1010283-43	350.508
-21	17.525K	-44	116.836
-22	19.473K	-45	70.102
-23	21.907K	-46	50.073
-24	25.036K	-47	38.945
-25	29.209K	-48	31.864
-26	35.051K	-49	26.962
-27	43.814K	-50	23.367
-28	58.418K	-51	20.618
-29	87.627K	-52	18.448
1010283-30	175.254K	-53	16.691
		1010283-54	15.239

REVISIONS 13966			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	[illegible]	WR
B	REVISED PER TDRR 18515	[illegible] APR 65	WR
C	REVISED PER TDRR 18967	[illegible] 65	WR
D	REVISED PER TDRR 19153	27 [illegible] 65	[illegible]
E	REVISED PER TDRR 21489	[illegible]	[illegible]
F	REVISED PER TDRR 23001	7 OCT 65	WR


R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
R10
CW
CCW
W
FT2
C2
FT5
R12
R3
R1
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
			3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
-011	LIST OF MATERIALS		

3H

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

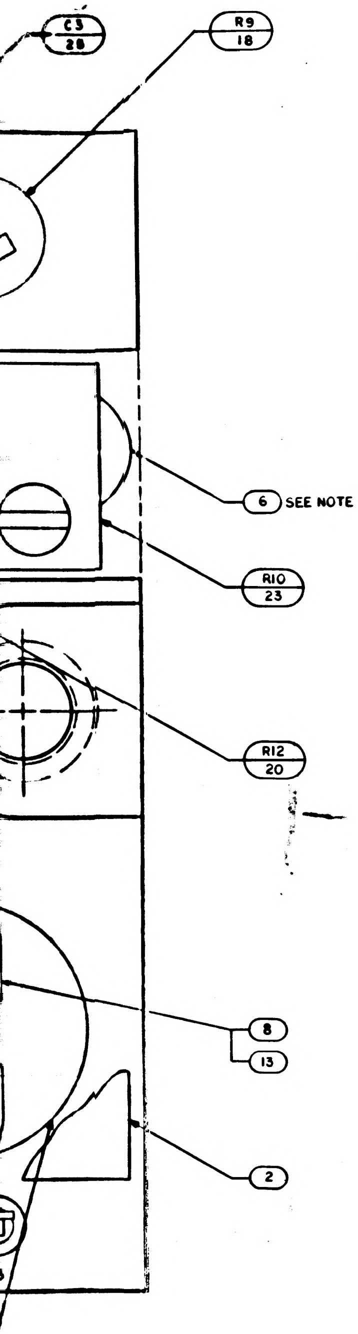
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN TONY BELL DATE 1/13/65
CHECKED [illegible]
APPROVAL [illegible] 1/26/65
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 2 FEB 65

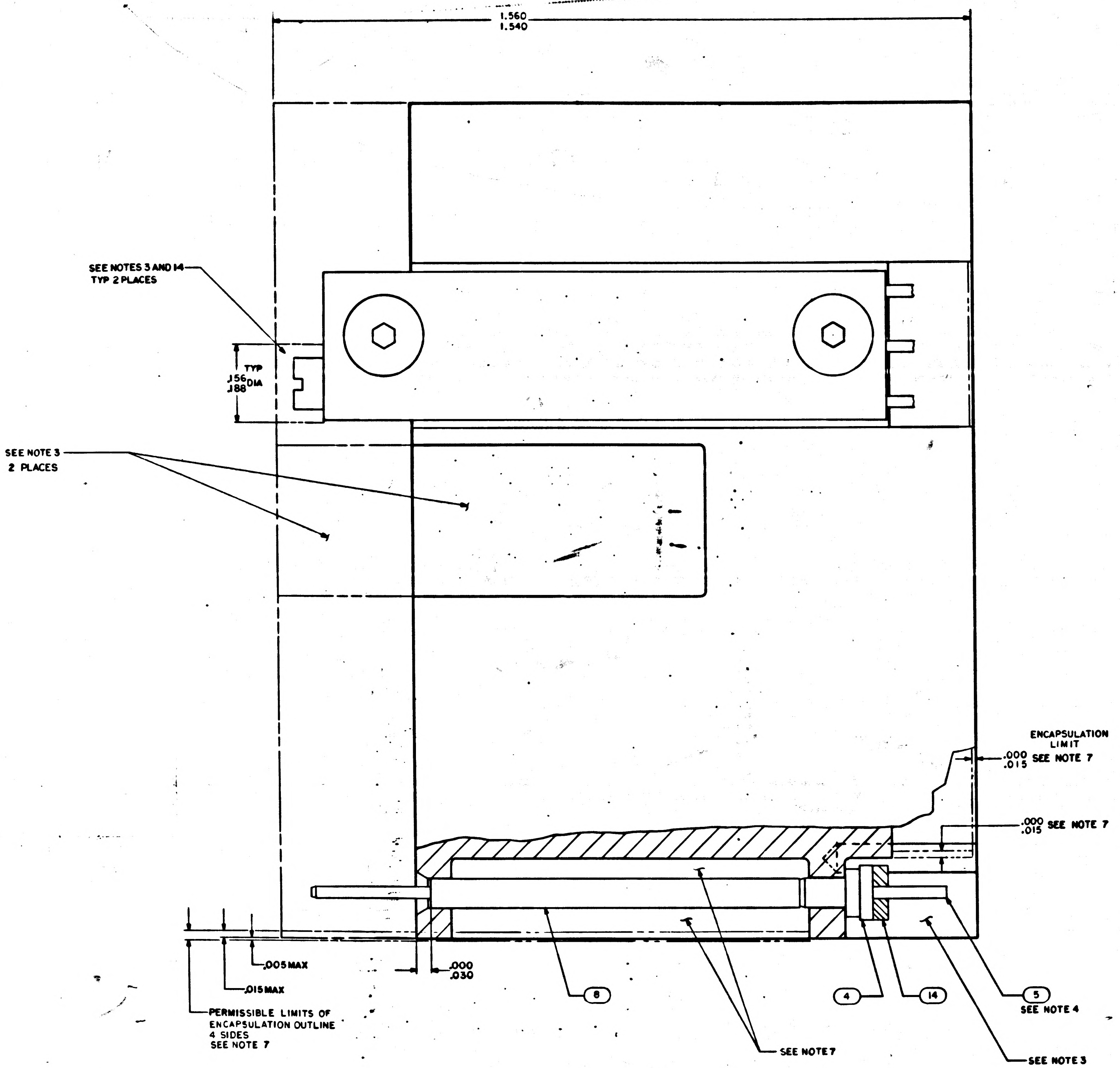
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

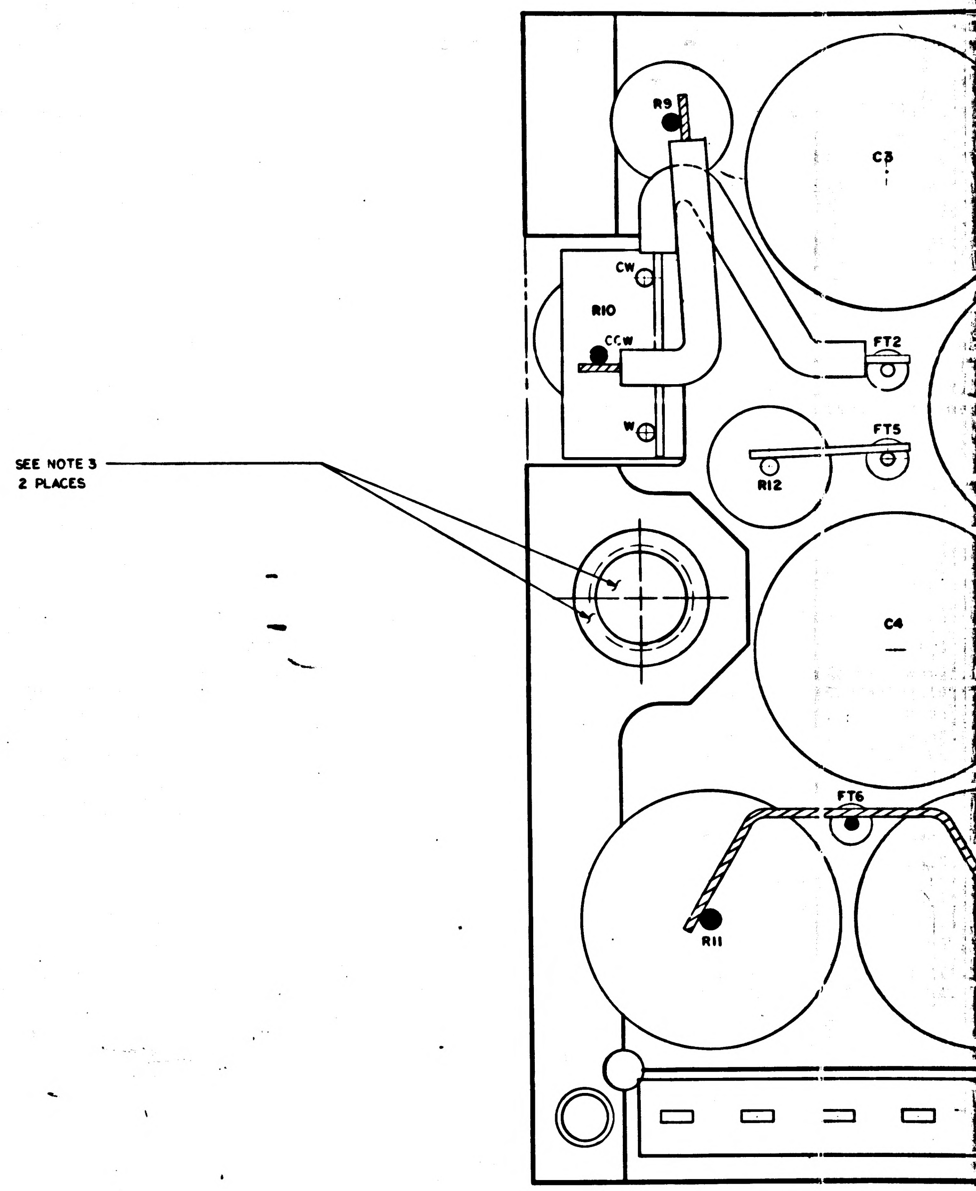
LEM PIPA CALIBRATION
ASSEMBLY

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

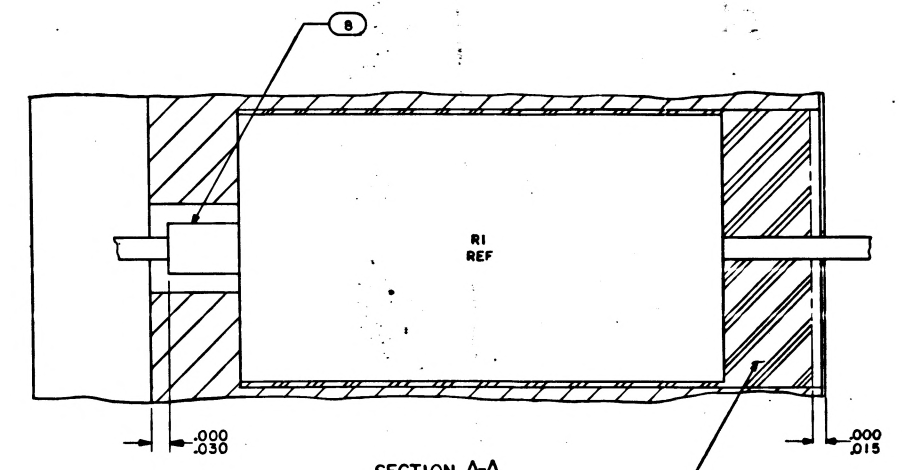
6007105 F


C3
28
R9
18
6 SEE NOTE 11
R10
23
R12
20
8
13
2

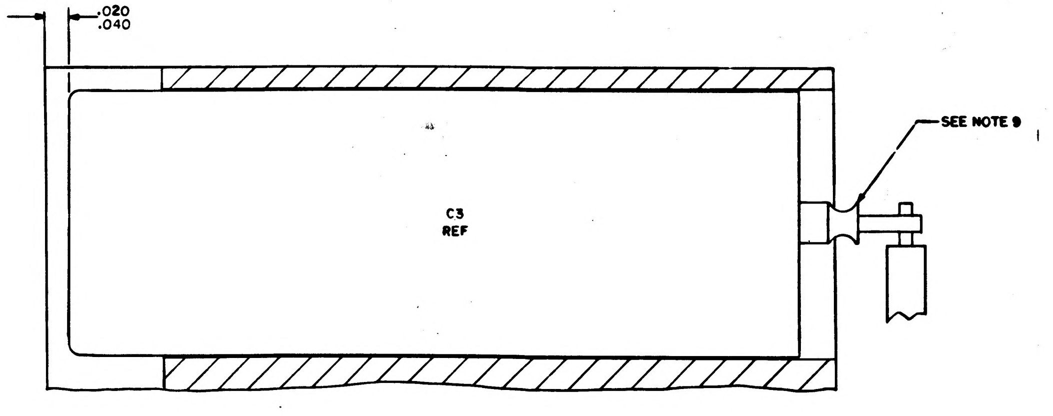

1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188
DIA
SEE NOTE 3
2 PLACES
ENCAPSULATION
LIMIT
.000
.015
SEE NOTE 7
.000
.015
SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
4
14
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3


SEE NOTE 3
2 PLACES
R9
C3
CW
R10
CCW
W
FT2
FT5
R12
C4
FT6
R11

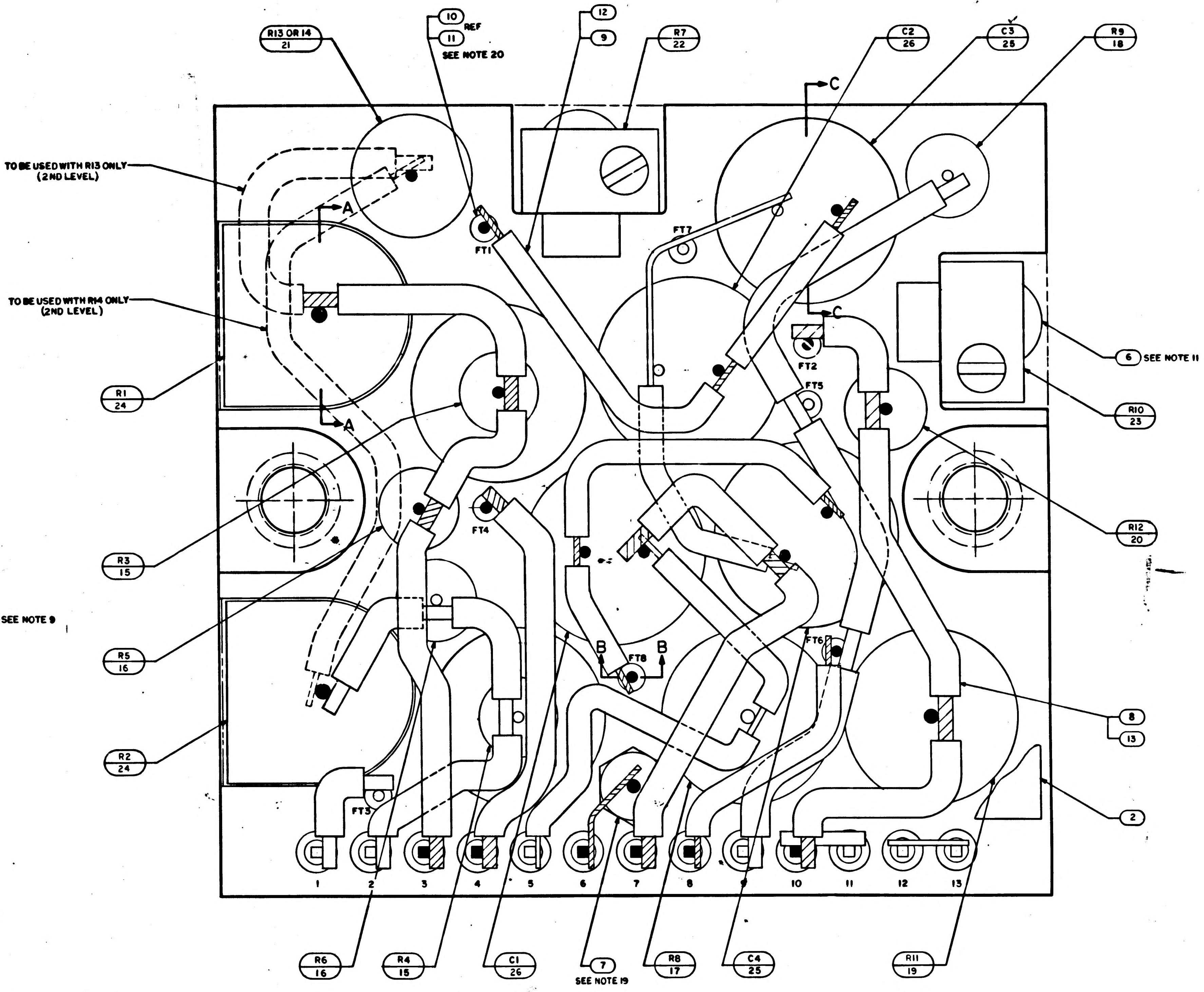
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO



SECTION A-A
TYP 2 PLACES R1 & R2



SECTION C-C
TYP C1 THRU C4



NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD J. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO. 6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD J
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER APPLICABLE P.S.
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD J
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 6007015
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN BLADES AND INSULATORS TO BE FREE OF PAINT

3 X

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95000
-9	96250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11

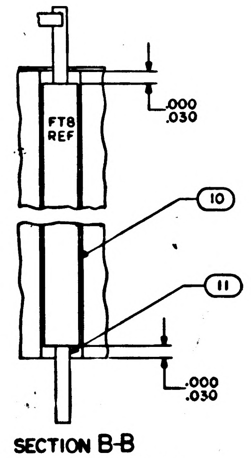
PART NO.	VALUE Ω
1010923-26	135,561
-27	136,816
-28	138,095
-29	139,397
-30	140,725
-31	142,078
-32	143,457
-33	144,864
-34	146,298
-35	147,761
1010923-36	149,253

R13 OR R14

PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K
1010251-23	82.6K
1010251-27	149K
1010251-30	373K
1010251-31	746K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458



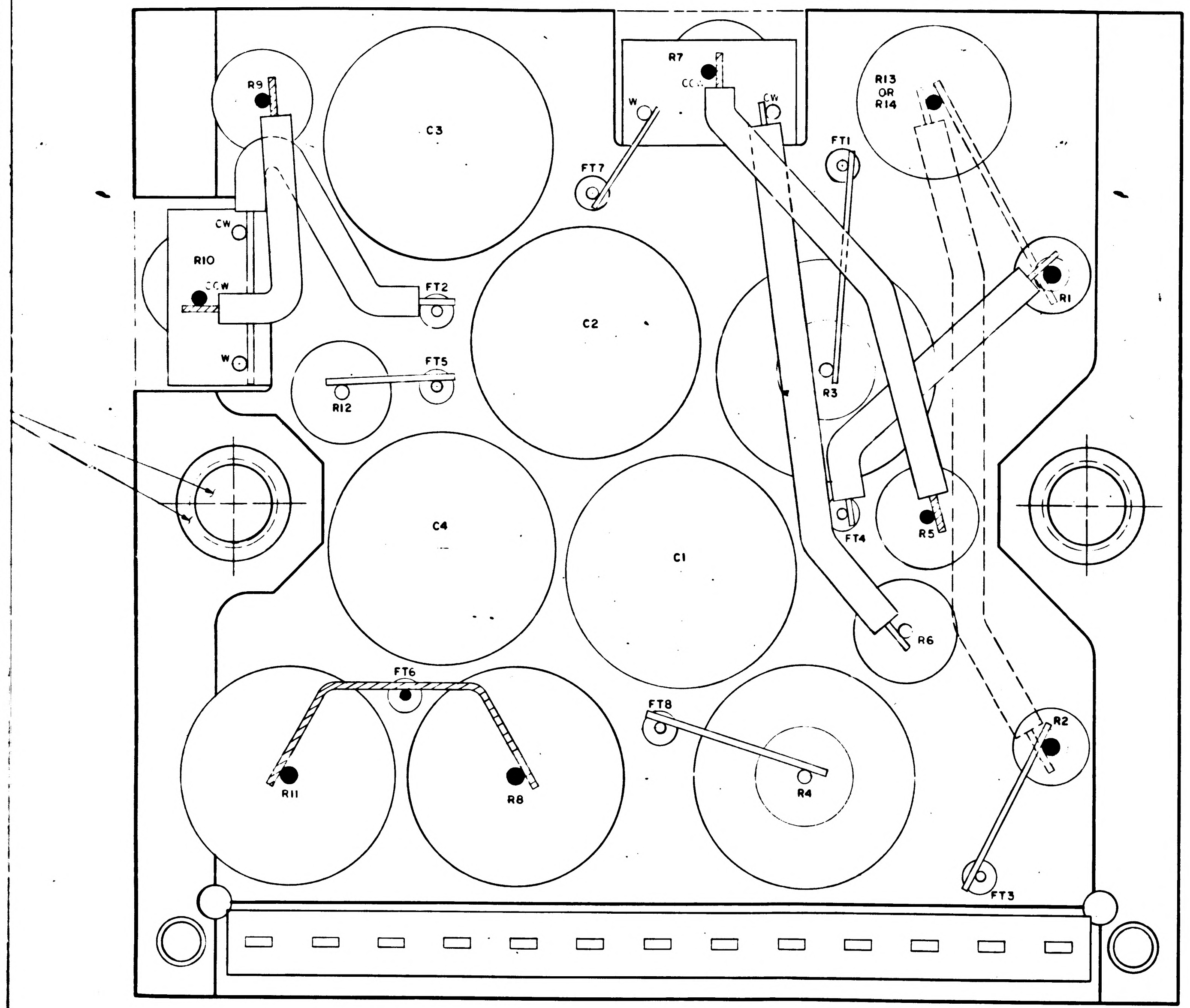
SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

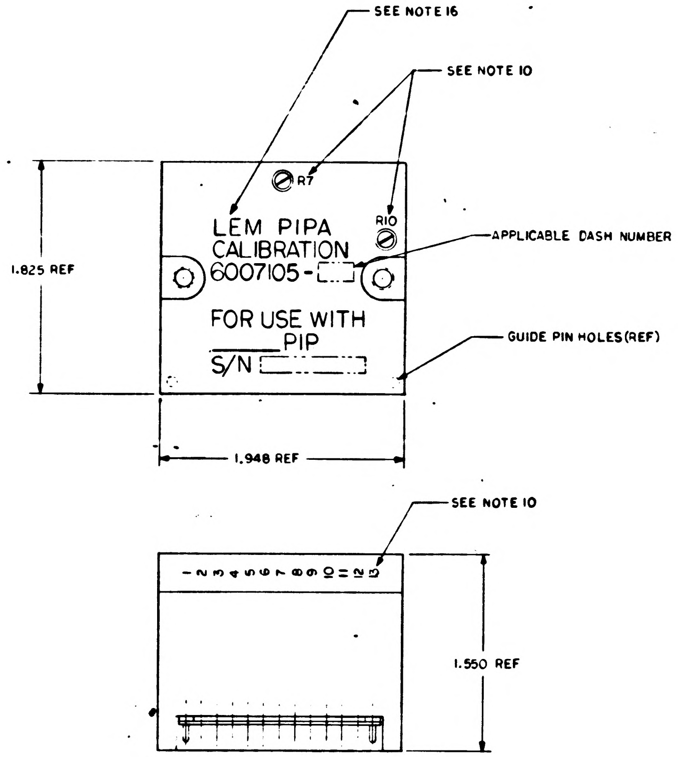
R12

PART NO.	VALUE	PART NO	VALUE
1010283-20	15.932K	1010283-43	350.508
-21	17.525K	-44	116.836
-22	19.473K	-45	70.102
-23	21.907K	-46	50.073
-24	25.036K	-47	38.945
-25	29.209K	-48	31.864
-26	35.051K	-49	26.962
-27	43.814K	-50	23.367
-28	58.418K	-51	20.618
-29	87.627K	-52	18.448
1010283-30	175.254K	-53	16.691
		1010283-54	15.239

6007105 F

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	[illegible]	N.K.
B	REVISED PER TDRR 18515	[illegible] 65	WR
C	REVISED PER TDRR 18967	6MAY65	WR
D	REVISED PER TDRR 19153	27MAY65	[illegible]
E	REVISED PER TDRR 21489	[illegible]	N.K.
F	REVISED PER TDRR 23001	7OCT65	WR
G	REVISED PER TDRR 25514	8FEB66	JHP


R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
C2
FT5
R12
R3
R1
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-1	WIRE, ELEC .010 X .020	12
AR	1010848-2	WIRE, ELEC .020 DIA	11
			10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
			3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-011	LIST OF MATERIALS		

G
6007105

3H

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN TONY BELL DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible] 1/26/65
APPROVAL [illegible] 1/26/65
NASA APPROVAL
MIT APPROVAL [illegible] 9 Feb 66

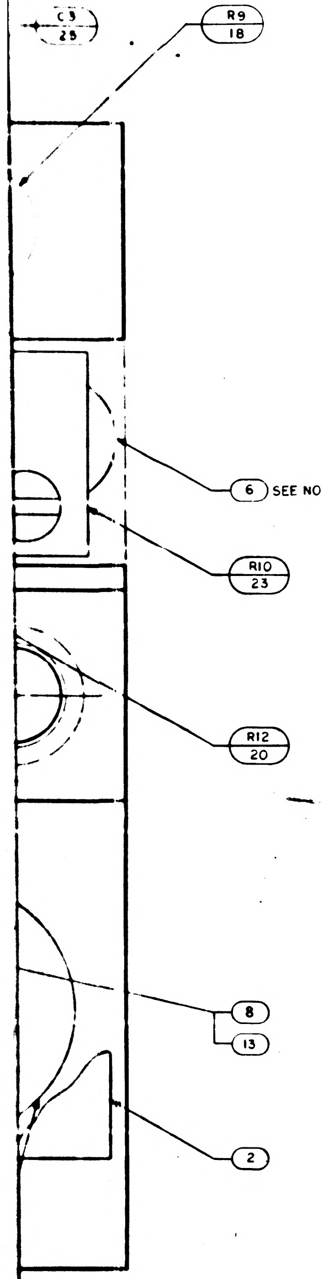
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

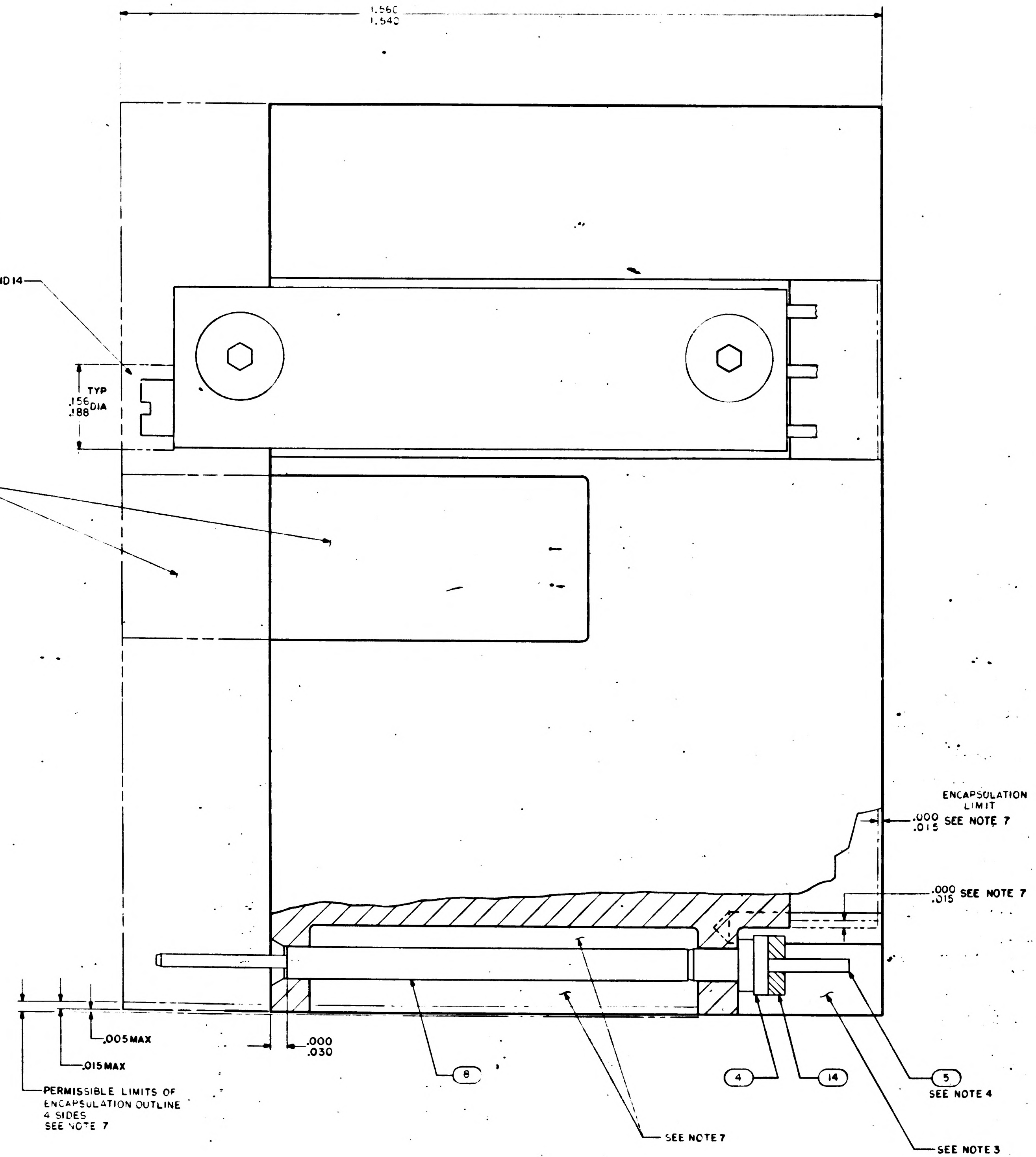
LEM PIPA-CALIBRATION
ASSEMBLY

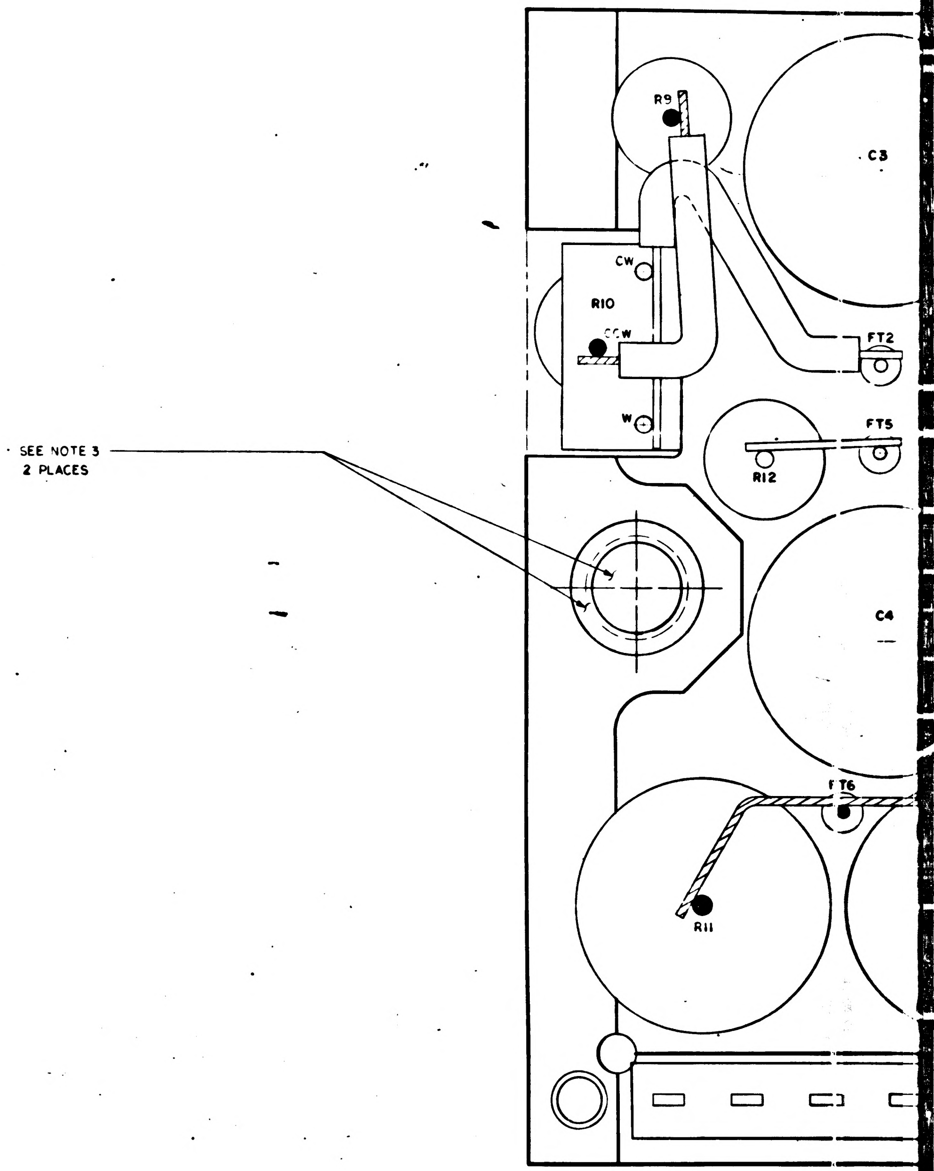
CODE IDENT NO	SIZE	NASA DRAWING NO
80230	J	6007105
SCALE 10/1	WT —	SHEET 1 OF 1

6007105 | G

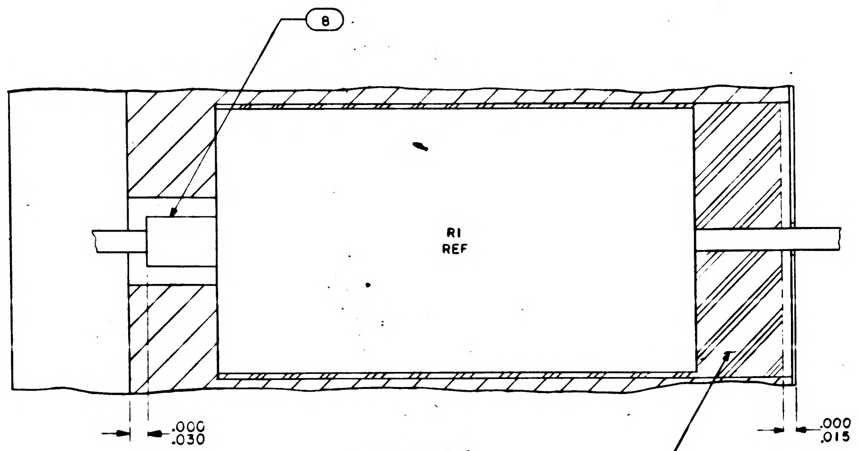
3/6007105


C3
25
R9
18
6 SEE NOTE 11
R10
23
R12
20
8
13
2


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
ENCAPSULATION
LIMIT
.000
.015 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
SEE NOTE 7
4
14
5
SEE NOTE 4
SEE NOTE 3


SEE NOTE 3
2 PLACES
R9
C3
CW
R10
CCW
W
FT2
FT5
R12
C4
FT6
R11

2/6007105



8
R1
REF
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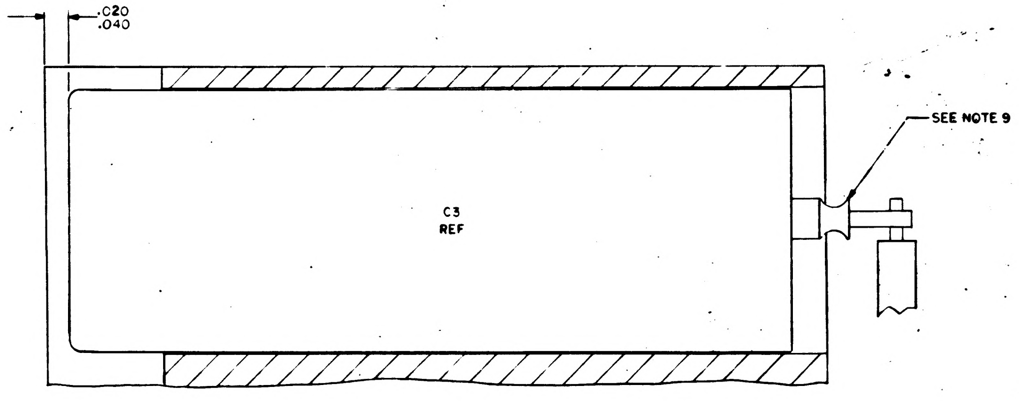
.000
.015
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2



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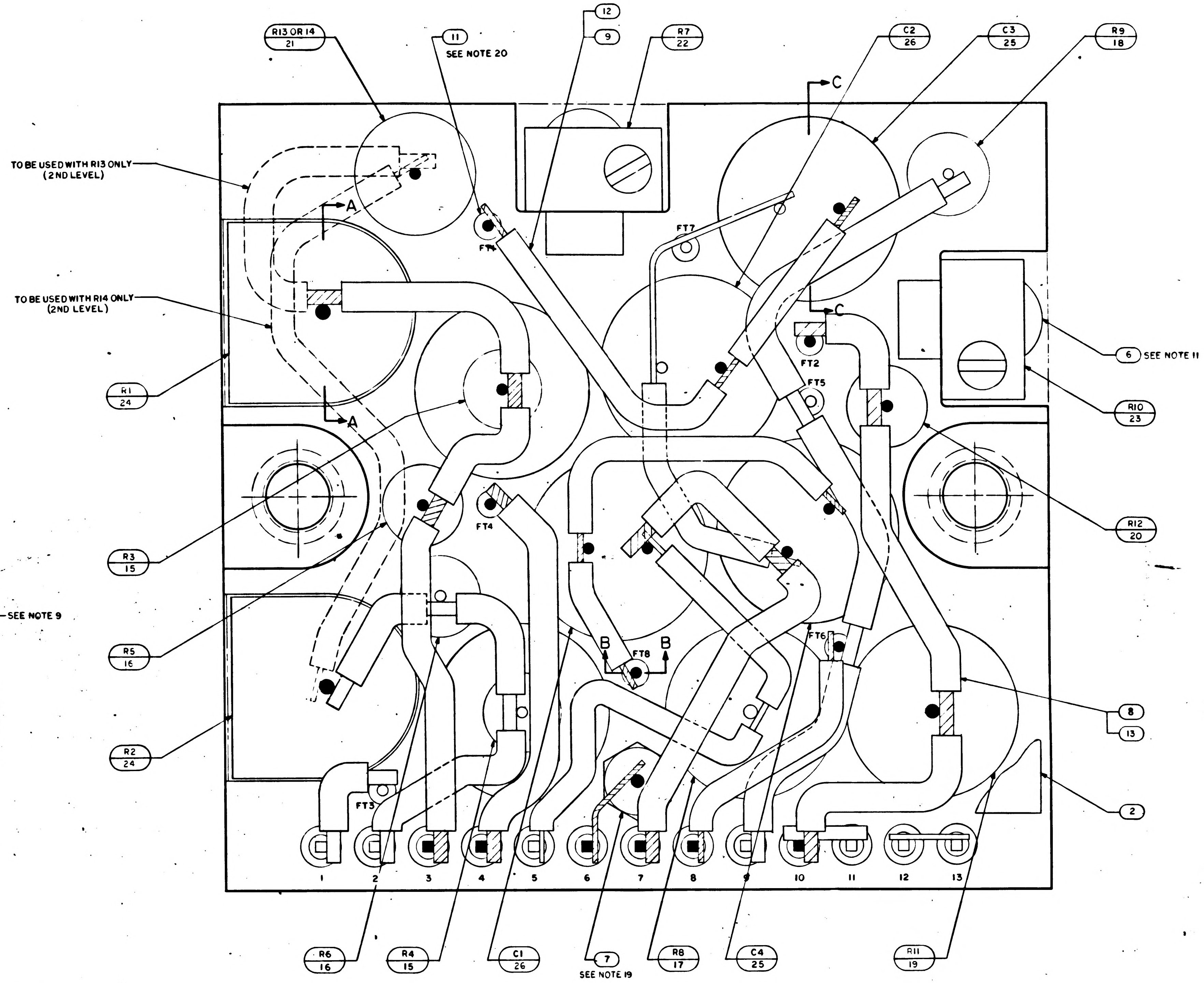
C3
REF
SEE NOTE 9

SECTION C-C
TYP C1 THRU C4



R13 OR 14
21
11
SEE NOTE 20
12
9
R7
22
C2
26
C3
25
R9
18
8
TO BE USED WITH R13 ONLY (2ND LEVEL)
TO BE USED WITH R14 ONLY (2ND LEVEL)
A
A
C
C
FT1
FT7
FT2
FT5
FT4
FT3
FT6
FT8
B
B
6 SEE NOTE 11
R10
23
R1
24
R12
20
R3
15
R5
16
R2
24
8
13
2
1
2
3
4
5
6
7
8
9
10
11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD J. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD J
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER APPLICABLE PS
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20. STAKE FT1 FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD J
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 6007015
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279, USING 1010992 PRIMER AND 1008609-4 PAINT. CONNECTOR PIN BLADES AND INSULATORS TO BE FREE OF PAINT

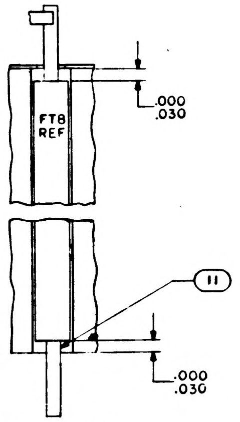
R5 AND R6	
PART NO.	VALUE Ω
1010377-8	95000
-9	96250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102,500
-15	103,750
1010377-16	105,000

R11	
PART NO.	VALUE Ω
1010923-26	135,561
-27	136,916
-28	138,095
-29	139.397
-30	140.725
-31	142.079
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R13 OR R14	
PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K
1010251-23	82.6K
1010251-27	149K
1010251-30	373K
1010251-31	746K

C3 AND C4	
PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

R12			
PART NO.	VALUE	PART NO	VALUE
1010283-20	15.932K	1010283-43	350.508
-21	17.525K	44	116 .836
-22	19.473K	-45	70 .102
-23	21.907K	-46	50 .073
-24	25.036K	-47	38 .945
-25	29.209K	-48	31 .864
-26	35.051K	-49	26 .962
-27	43.814K	-50	23 .367
-28	58.418K	-51	20 .618
-29	87.627K	-52	18 .448
1010283-30	175.254K	-53	16 .691
		1010283-54	15 .239



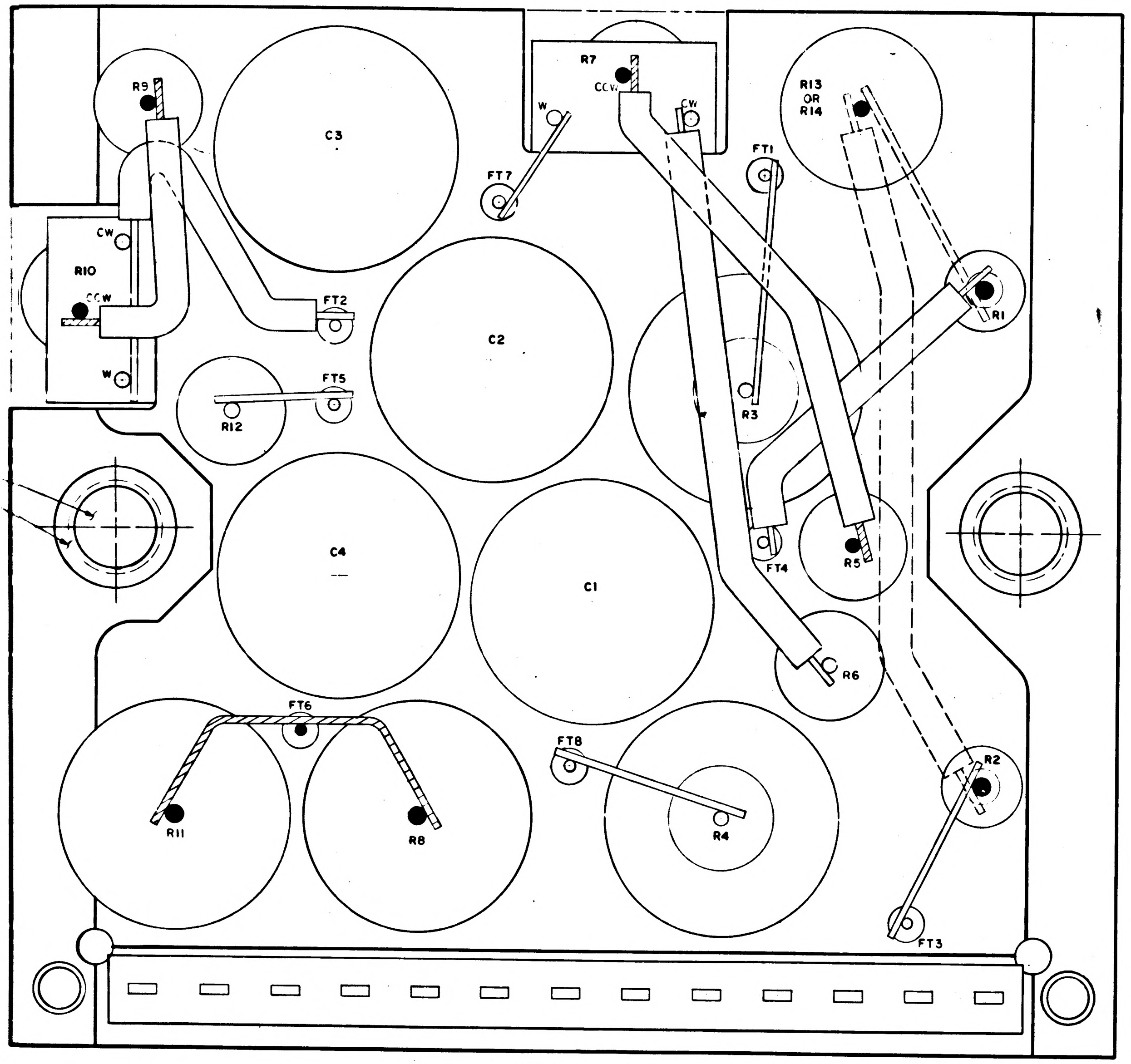
.000
.030
FT8
REF
11
.000
.030

SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

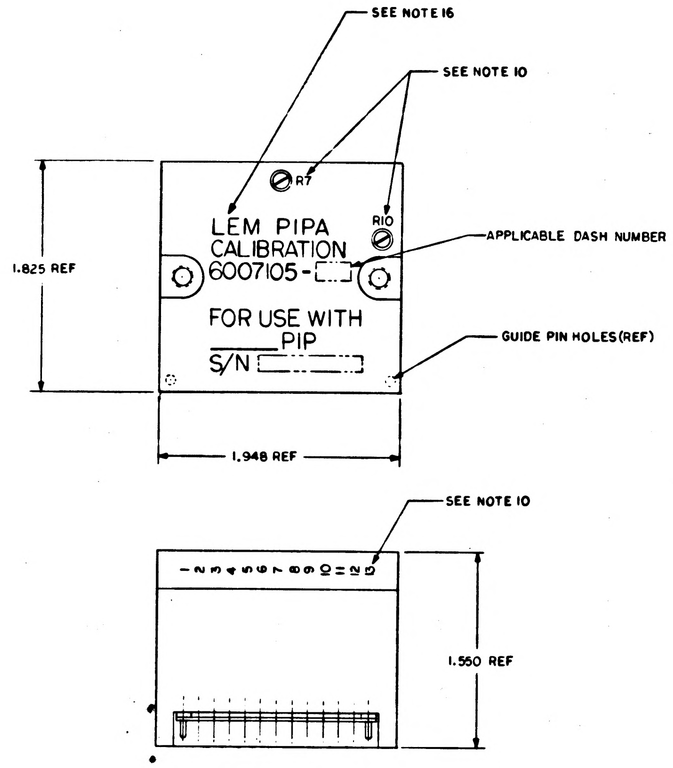
6007105 G

1/6007105

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	2MAR65	WR
B	REVISED PER TDRR 18515	[illegible]	WR
C	REVISED PER TDRR 18967	6MAY65	
D	REVISED PER TDRR 19153	27MAY65	MOM
E	REVISED PER TDRR 21489	[illegible]	
F	REVISED PER TDRR 23001	7OCT65	WR
G	REVISED PER TDRR 25514	3FEB66	JHP
H	REVISED PER TDRR 25551	11 FEB 66	JAC



R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
R10
CW
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3



SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
APPLICABLE DASH NUMBER
FOR USE WITH
PIP
S/N
GUIDE PIN HOLES (REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 G
1.550 REF

MARKING VIEWS
SCALE 2/1

⨯	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-1	WIRE, ELEC .010 X .020	12
AR	1010848-2	WIRE, ELEC .020 DIA	11
			10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
			3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-011	LIST OF MATERIALS		

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN TONY BELL DATE 1/13/65
CHECKED
APPROVAL 1/26/65
APPROVAL 1/26/65
NASA APPROVAL
MIT APPROVAL 9 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEM PIPA CALIBRATION ASSEMBLY

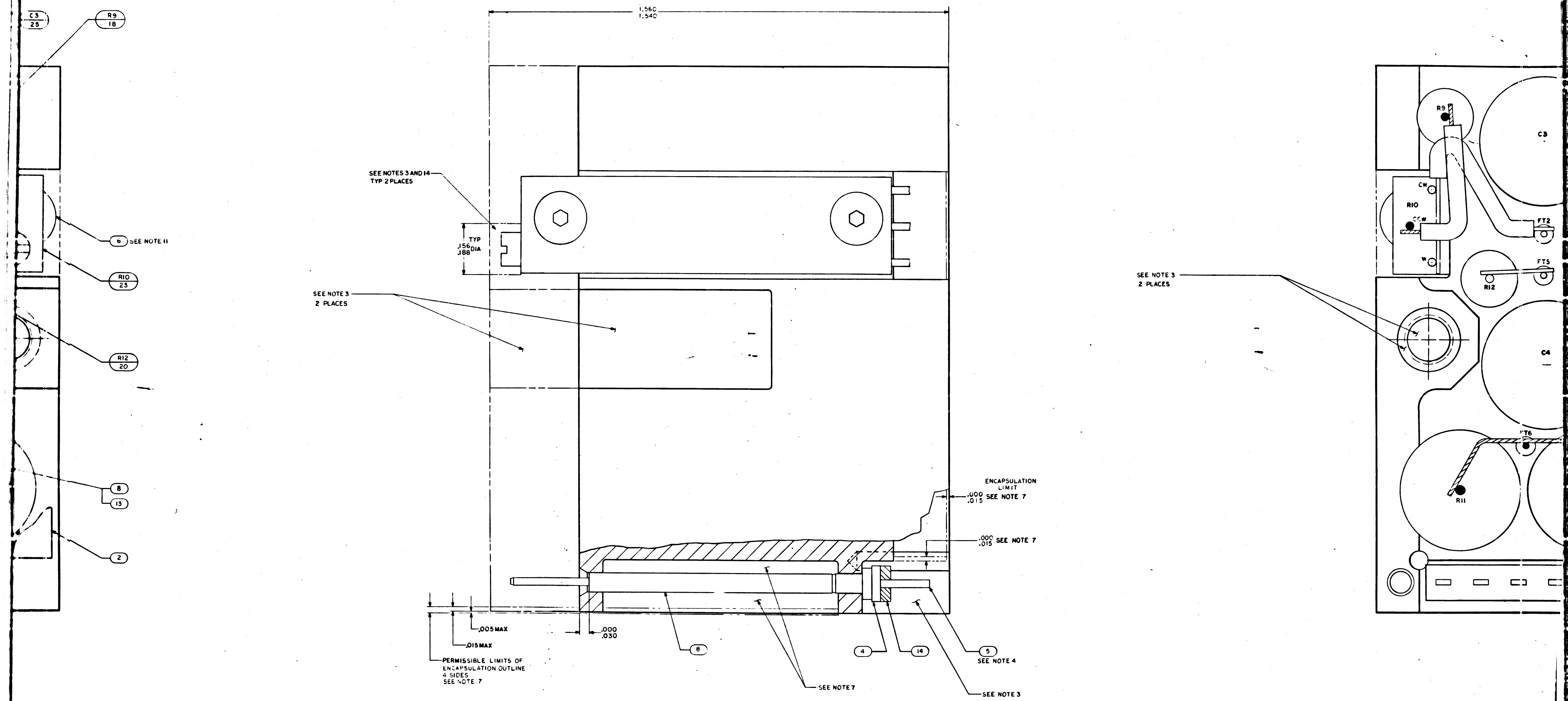
CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

6007105 H

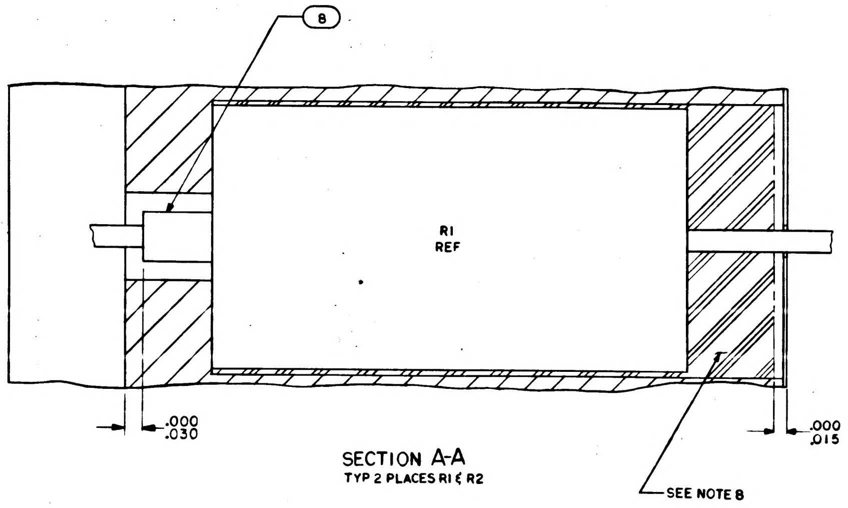
3H

6007105 H

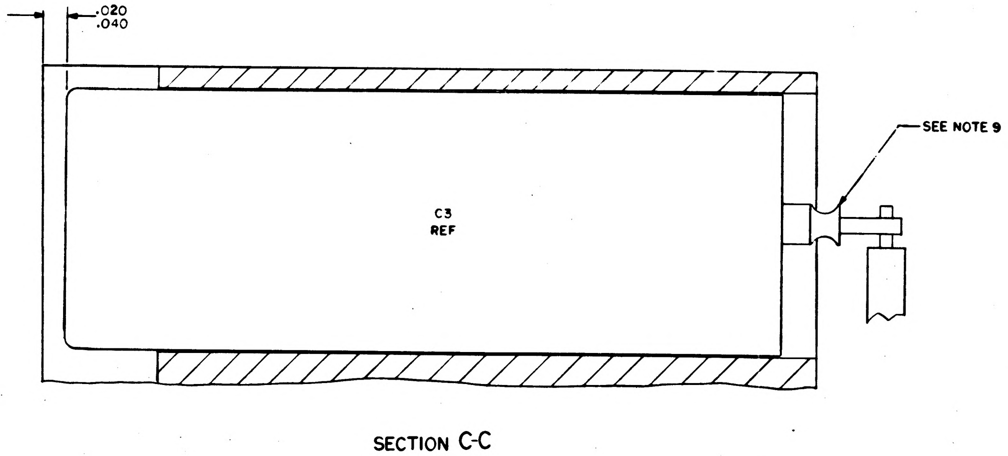
3/6007105


C3 25
R9 18
6 SEE NOTE 11
R10 23
R12 20
8
13
2
1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
ENCAPSULATION LIMIT
.000
.015 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
.000
.030
PERMISSIBLE LIMITS OF ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
8
4
14
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3
SEE NOTE 3
2 PLACES
R9
C3
CW
R10
CCW
W
FT2
FT5
R12
C4
FT6
R11

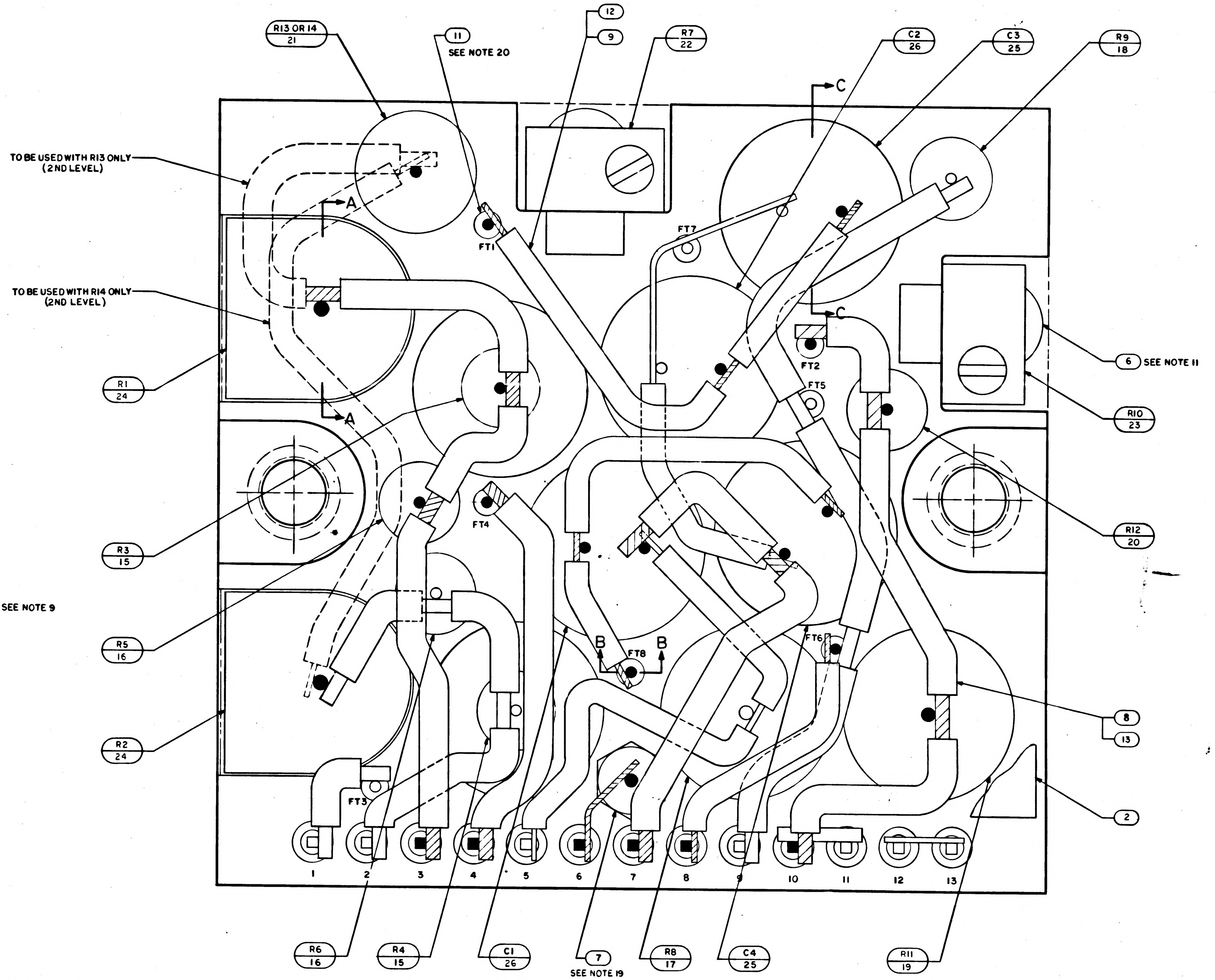
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO



SECTION A-A
TYP 2 PLACES R1 & R2



SECTION C-C
TYP C1 THRU C4

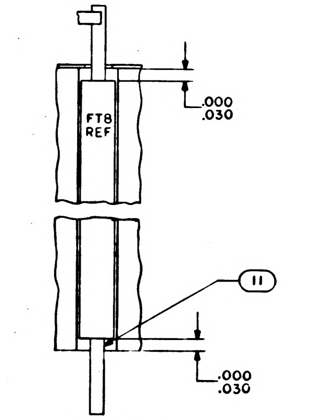


R5 AND R6	
PART NO.	VALUE Ω
1010377 – 8	95000
– 9	96250
– 10	97,500
– 11	98,750
– 12	100,000
– 13	101,250
– 14	102 500
– 15	103,750
1010377 – 16	105,000

R11	
PART NO.	VALUE Ω
1010923 – 26	135,561
– 27	136,316
– 28	138,095
– 29	139.397
– 30	140.725
– 31	142.079
– 32	143.457
– 33	144.864
– 34	146.298
– 35	147.761
1010923 – 36	149.253

R13 OR R14	
PART NO.	VALUE
1010251 – 21	67.4K
1010251 – 40	102K
1010251 – 41	205K
1010251 – 23	82.6K
1010251 – 27	149K
1010251 – 30	373K
1010251 – 31	746K

C3 AND C4	
PART NO	VALUE uf
1010289 – 39	.00260
– 40	.00282
– 41	.00304
– 42	.00326
– 43	.00348
– 44	.00370
– 45	.00392
– 47	.00414
– 48	.00436
1010289 – 49	.00458



SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

R12			
PART NO.	VALUE	PART NO	VALUE
1010283 – 20	15.932K	1010283 – 43	350 .508
– 21	17.525K	– 44	116 .836
– 22	19.473K	– 45	70 .102
– 23	21.907K	– 46	50 .073
– 24	25.036K	– 47	38 .945
– 25	29.209K	– 48	31 .864
– 26	35.051K	– 49	26 .962
– 27	43.814K	– 50	23 .367
– 28	58.418K	– 51	20 .618
– 29	87.627K	– 52	18 .448
1010283 – 30	175.254K	– 53	16 .691
		1010283 – 54	15 .239

NOTES:

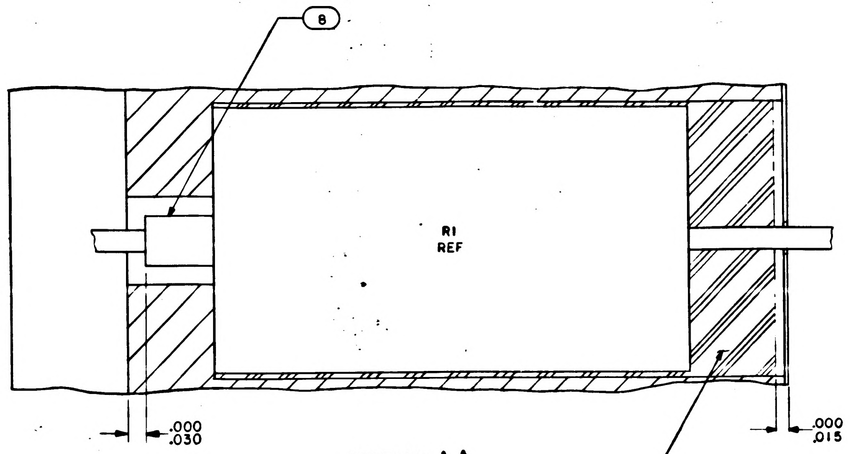
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD J. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD J
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER APPLICABLE P.S.
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20. STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD J
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 6007105
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN BLADES AND INSULATORS TO BE FREE OF PAINT

6007105

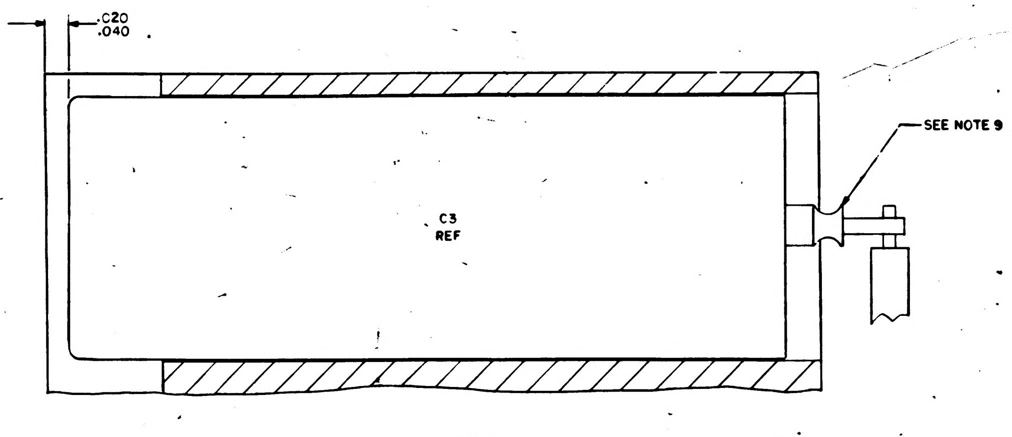
1/6007105

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

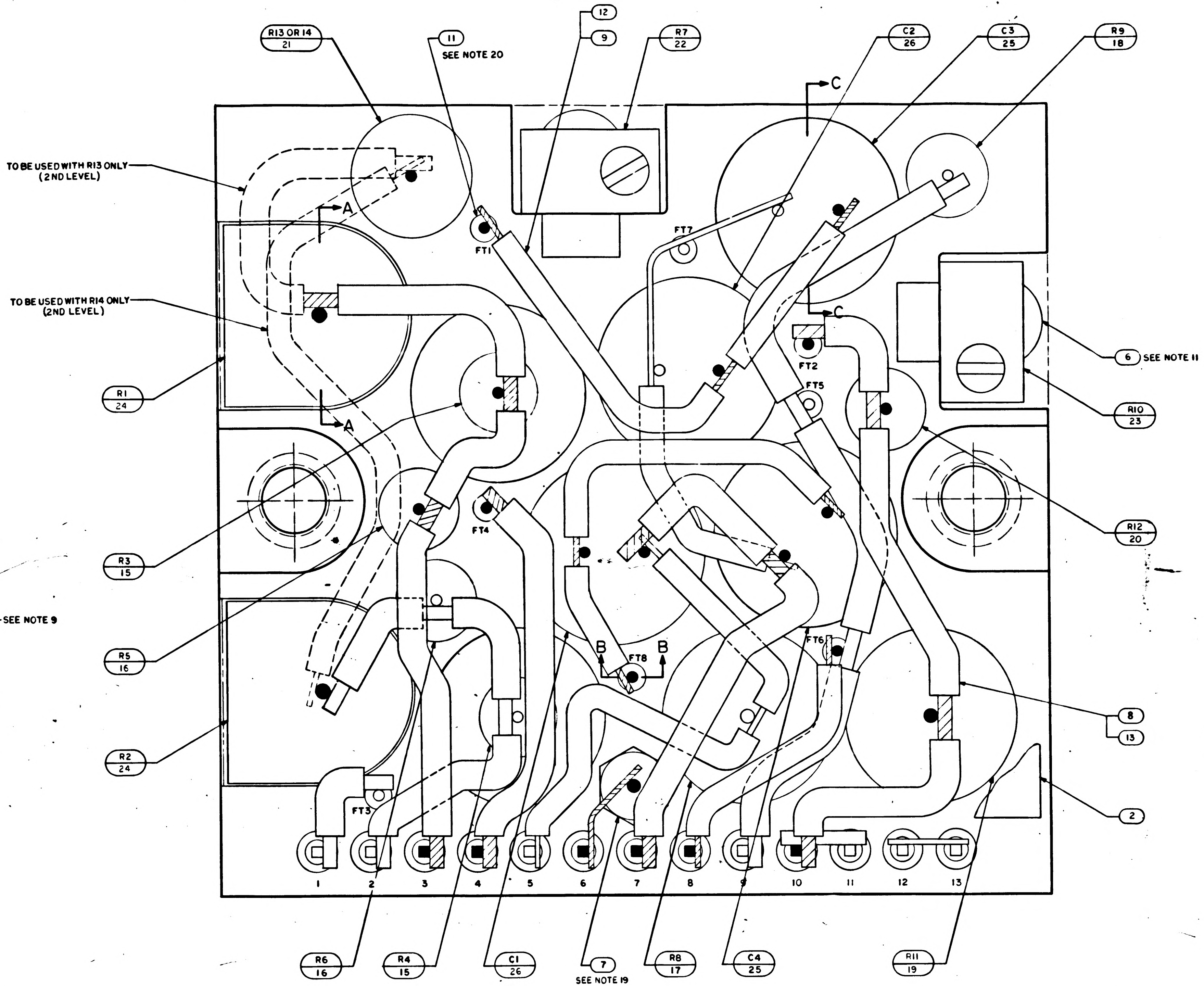
C1



SECTION A-A
TYP 2 PLACES R1 & R2



SECTION C-C
TYP C1 THRU C4



NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9. R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD J. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL-P-8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD J
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14. C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER APPLICABLE P.S.
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18.
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1 FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD J
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 6007105
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN BLADES AND INSULATORS TO BE FREE OF PAINT

R5 AND R6

PART NO.	VALUE Ω
1010377-8	95000
-9	96250
-10	97,500
-11	98,750
-12	100,000
-13	101,250
-14	102 500
-15	103,750
1010377-16	105,000

R11

PART NO.	VALUE Ω
1010923-26	135.561
-27	136.816
-28	138.095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R13 OR R14

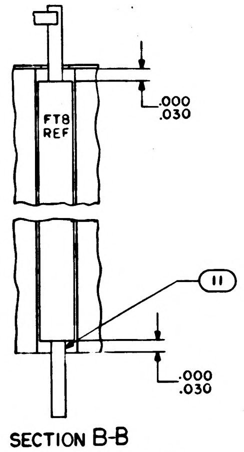
PART NO.	VALUE
1010251-21	67.4K
1010251-40	102K
1010251-41	205K
1010251-23	82.6K
1010251-27	149K
1010251-30	373K
1010251-31	746K

C3 AND C4

PART NO	VALUE uf
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

R12

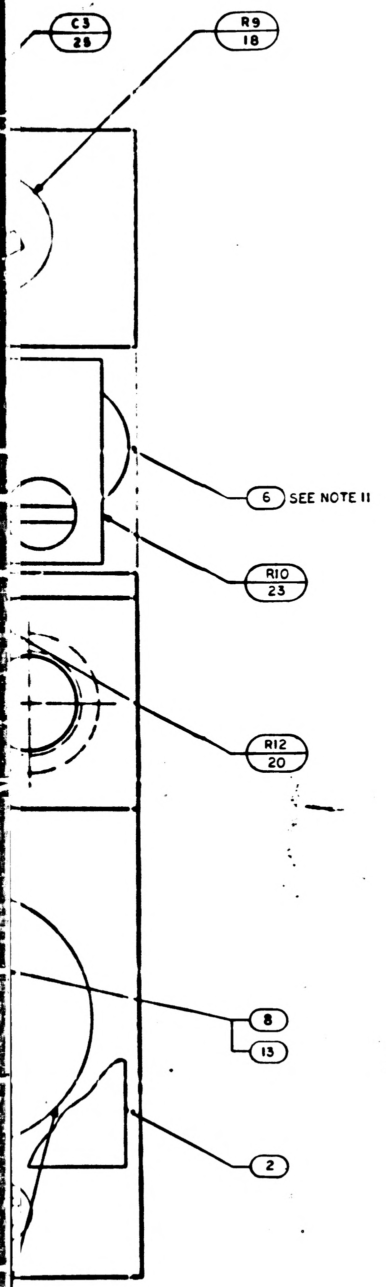
PART NO.	VALUE	PART NO	VALUE
1010283-20	15.932K	1010283-43	350.508
-21	17.525K	-44	116 .836
-22	19.473K	-45	70 .102
-23	21.907K	-46	50 .073
-24	25.036K	-47	38 .945
-25	29.209K	-48	31 .864
-26	35.051K	-49	26 .962
-27	43.814K	-50	23 .367
-28	58.418K	-51	20 .618
-29	87.627K	-52	18 .448
1010283-30	175.254K	-53	16 .691
		1010283-54	15 .239

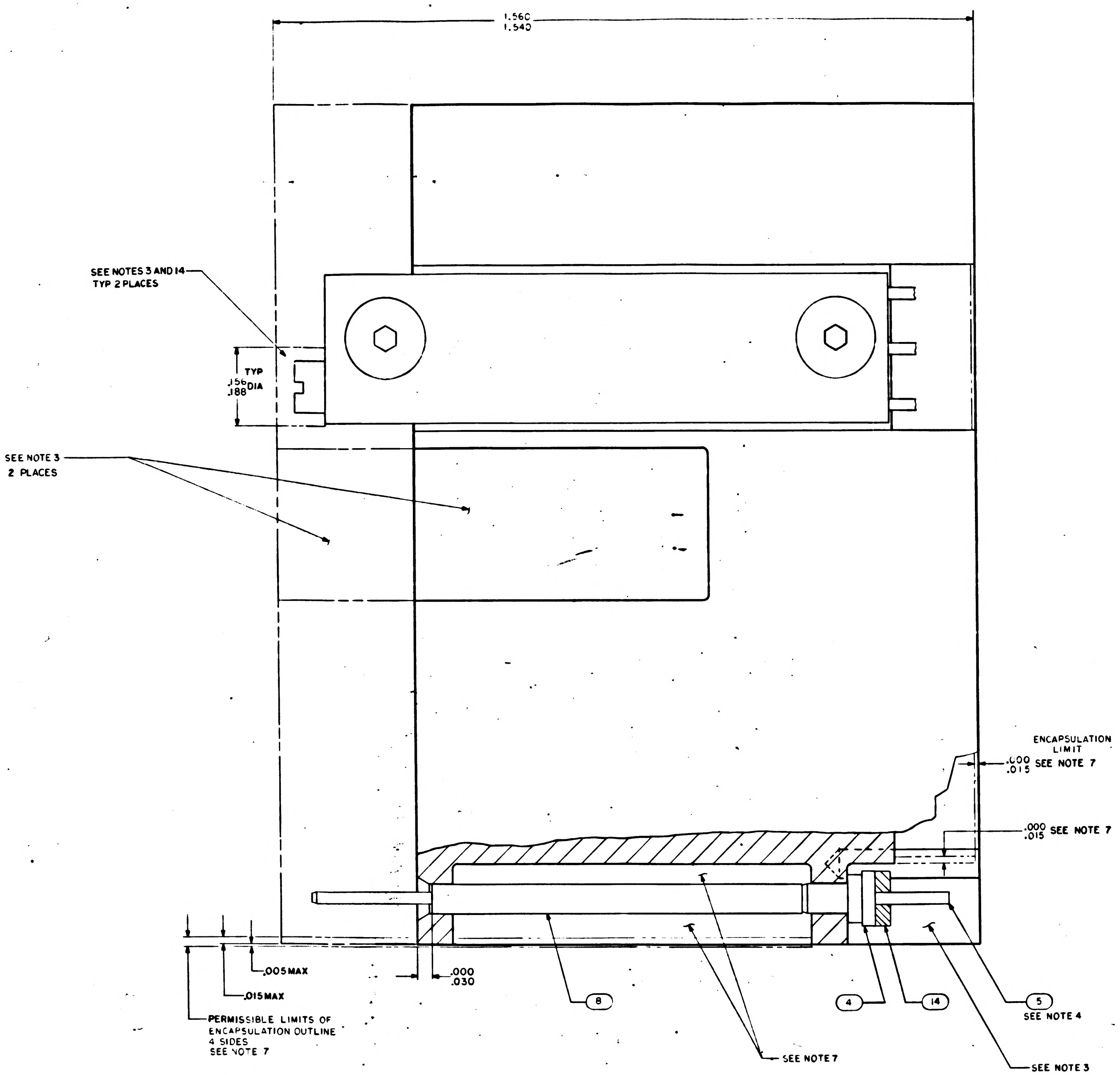


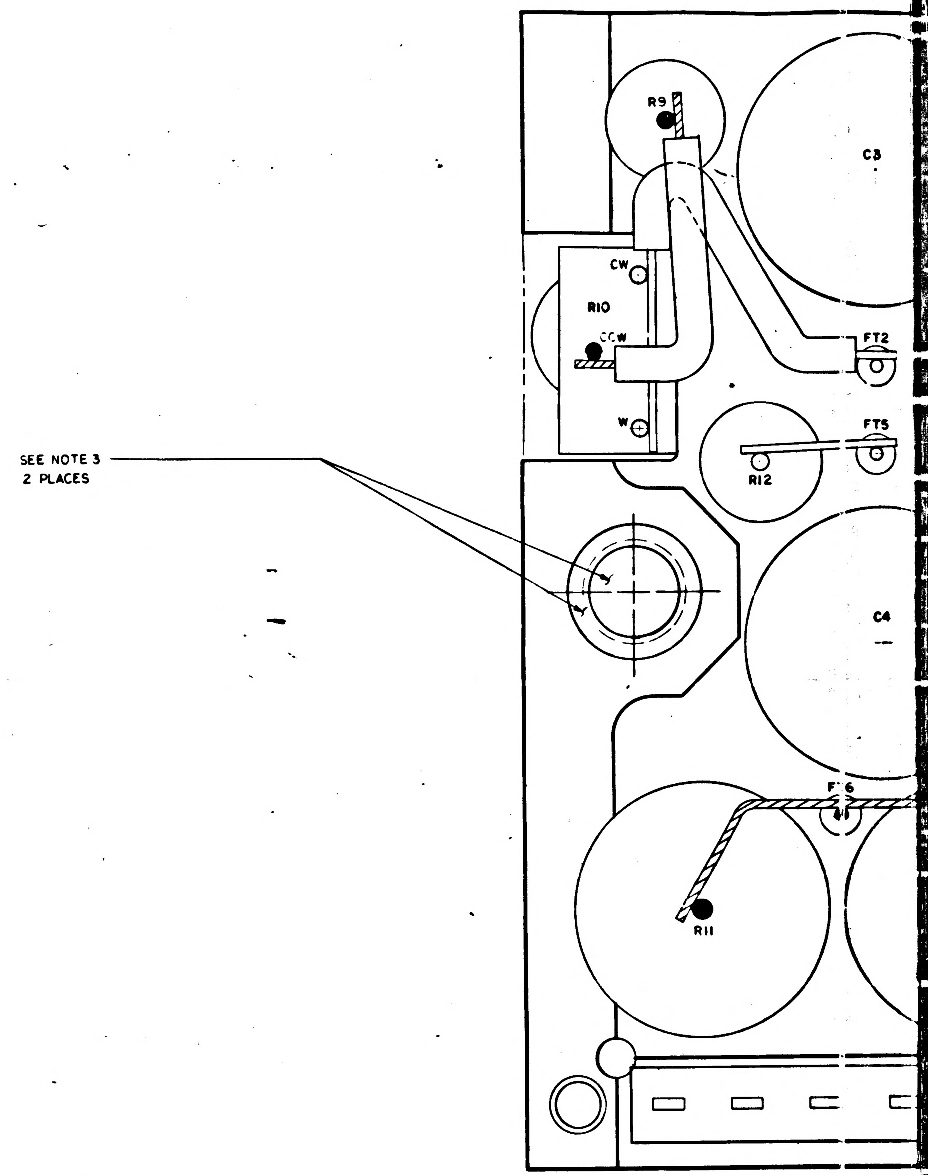
SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

6007105 J

1/6007105

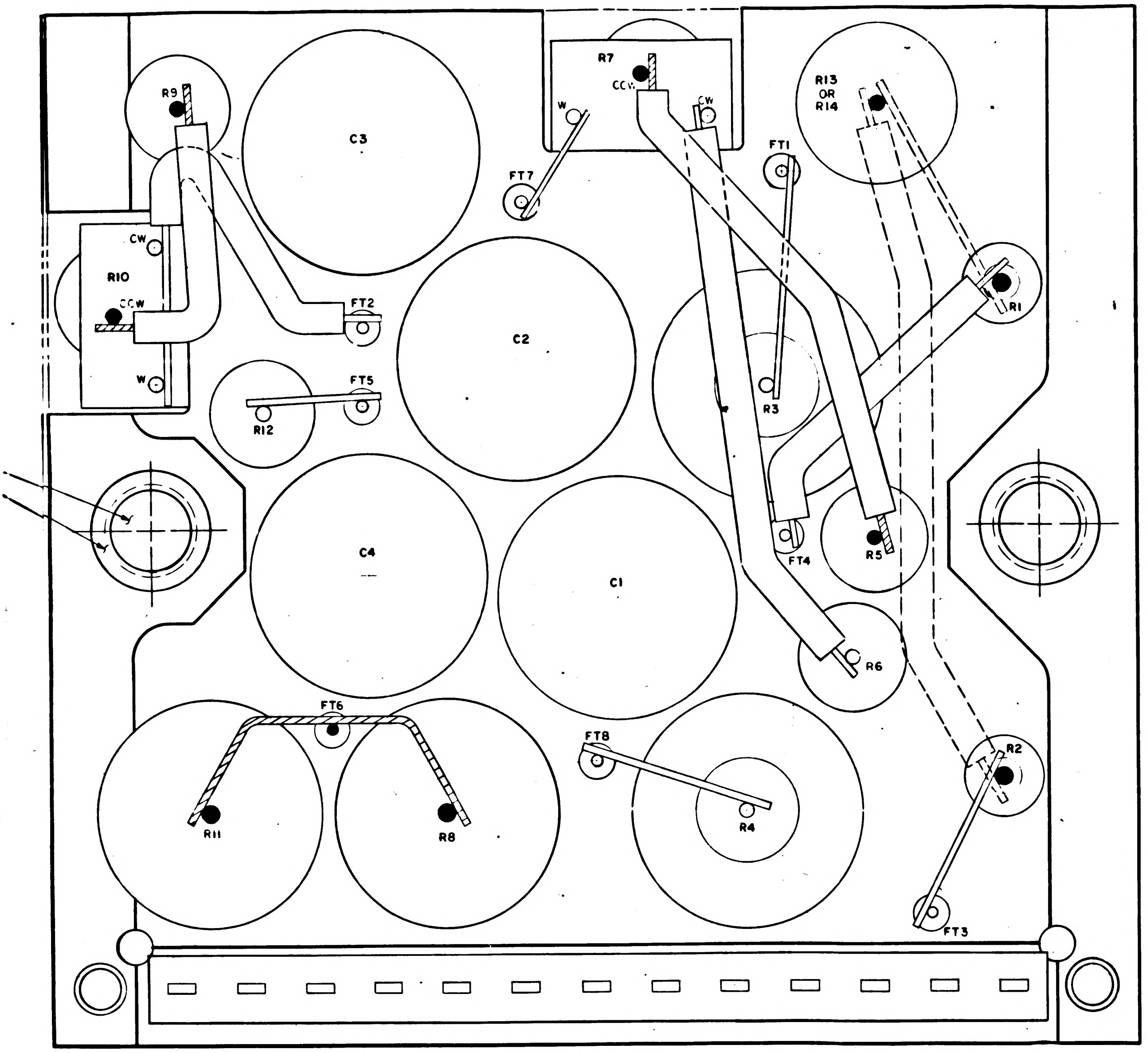

C3
29
R9
18
6 SEE NOTE 11
R10
23
R12
20
8
13
2


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
ENCAPSULATION
LIMIT
.000
.015 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
8
4
14
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3


R9
C3
CW
R10
CCW
W
FT2
FT5
R12
SEE NOTE 3
2 PLACES
C4
FT6
R11

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16842	[illegible]	[illegible]
B	REVISED PER TDRR 18515	[illegible]	WP
C	REVISED PER TDRR .5967	[illegible]	[illegible]
D	REVISED PER TDRR 19153	27 [illegible]	[illegible]
E	REVISED PER TDRR 2148-	[illegible]	[illegible]
F	REVISED PER TDRR 23001	[illegible]	WK
G	REVISED PER TDRR 25514	8FEB66	JHP
H	REVISED PER TDRR 25551	11 FEB 66	KP JAC
J	REVISED PER TDRR 30602	17 AUG 66	JJB JI

(17)


R9
C3
R7
CCW
W
CW
R13
OR
R14
FT7
FT1
CW
R10
CCW
W
FT2
C2
FT5
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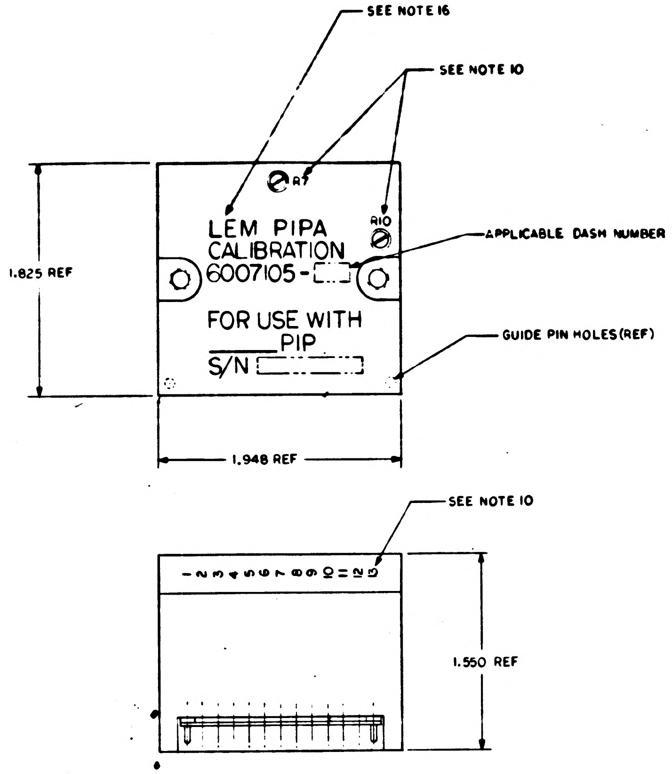
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
APPLICABLE DASH NUMBER
FOR USE WITH
PIP
S/N
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-38	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-21	WIRE,ELEC .032 DIA	13
AR	1006757-1	WIRE,ELEC .010 X .020	12
AR	1010848-2	WIRE,ELEC .020 DIA	11
			10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL,THREADED	7
4	1010618-3	SCREW,BUTTON HEAD	6
13	1006782-5	CONTACT,WRAPOST-MALE MINAT	5
13	1006775	INSULATOR,WRAPOST-MALE MINAT	4
			3
1	2008003	INSULATOR,TOP	2
1	2008099	HEATSINK	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-011	LIST OF MATERIALS		

J
6007105

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN TONY BELL DATE 1/11/65
CHECKED [illegible]
APPROVAL [illegible] 1/26/65
APPROVAL D. R. test 1/26/65
NASA APPROVAL [illegible]
MIT APPROVAL W Kupfer 9 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEM PIPA CALIBRATION
ASSEMBLY

CODE IDENT NO	SIZE	NASA DRAWING NO
80230	J	6007105
SCALE 10/1	WT —	SHEET 1 OF 1

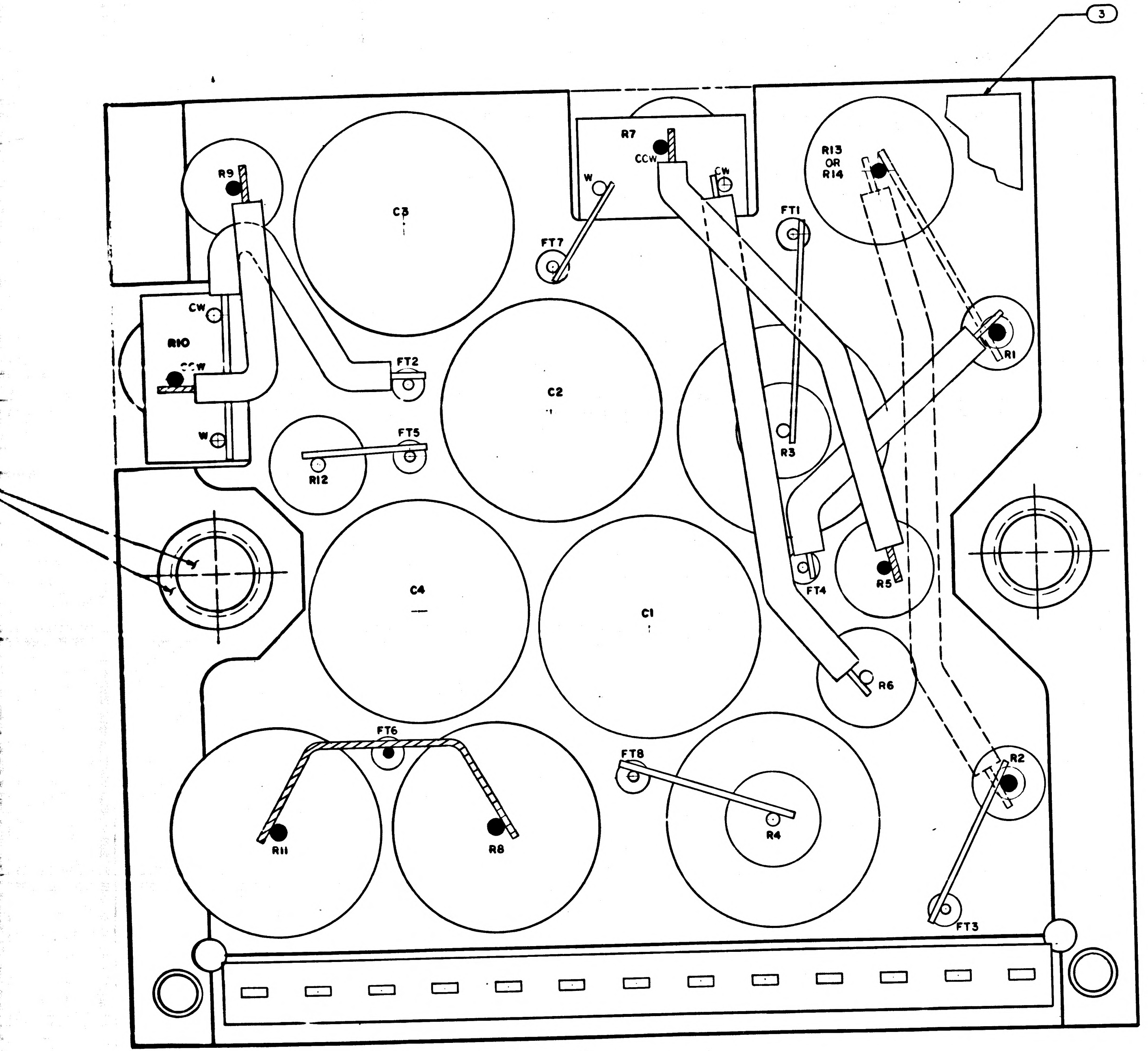
3H

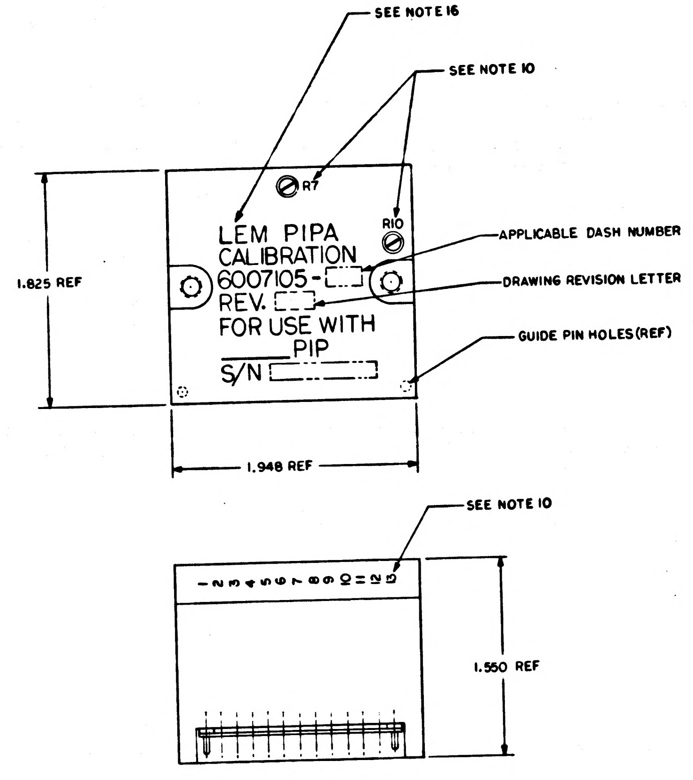
6007105 J

3 7 6007105

REVISION 15966

SYM	DESCRIPTION	DATE	APPROVAL


3
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT1
FT7
CW
R10
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
R5
FT4
R6
FT6
FT8
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES (REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 G
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010000	SCHEMATIC	REF
2	1010289-46	CAPACITOR	26
2	SEE NOTE 15	CAPACITOR	25
2	1010262-11	RESISTOR	24
1	1010373-8	RESISTOR	23
1	1010373-9	RESISTOR	22
1	SEE NOTE 15	RESISTOR	21
1	SEE NOTE 15	RESISTOR	20
1	SEE NOTE 15	RESISTOR	19
1	1010283-19	RESISTOR	18
1	1010923-25	RESISTOR	17
2	SEE NOTE 15	RESISTOR	16
2	1010377-335	RESISTOR	15
1	1008540-13	GASKET	14
AR	1006757-9	WIRE, ELEC .032 DIA	13
AR	1006757-8	WIRE, ELEC .010 X .020	12
AR	1006757-1	WIRE, ELEC .020 DIA	11
AR	1006776-22	INSULATION SLEEVING	10
AR	1006776-21	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
1	2008093	TERMINAL, THREADED	7
4	1010618-3	SCREW, BUTTON HEAD	6
13	1006782-5	CONTACT, WRAPOST-MALE MINAT	5
13	1006775	INSULATOR, WRAPOST-MALE MINAT	4
1	2008002	INSULATOR, BOTTOM	3
1	2008003	INSULATOR, TOP	2
1	2008099	HEATSINK	1

-011
LIST OF MATERIALS

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN TONY BELL DATE 1/14/65
CHECKED 1/26/65
APPROVAL 1/26/65
APPROVAL 1/26/65
NASA APPROVAL
MIT APPROVAL 2 Feb 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

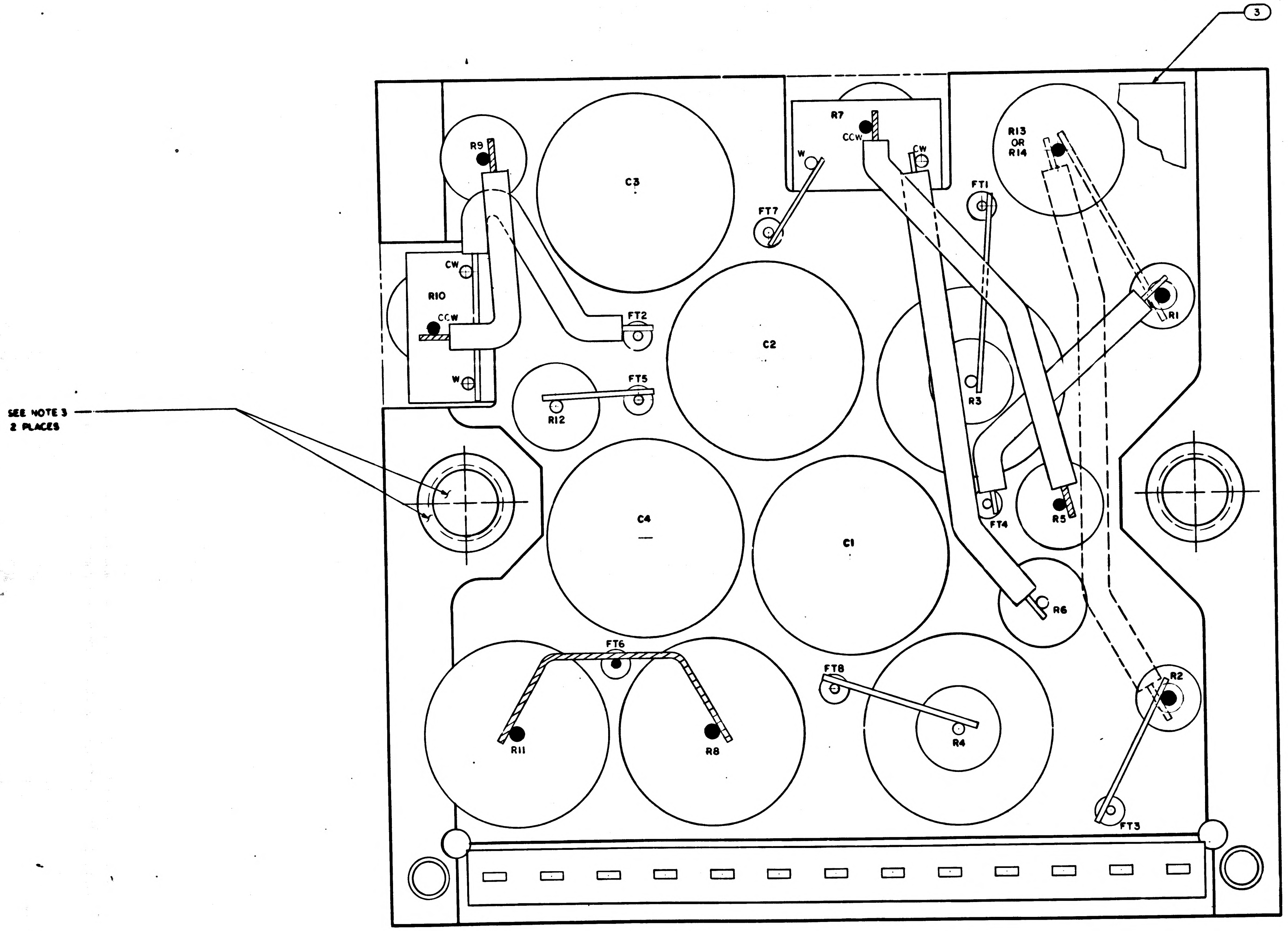
LEM PIPA CALIBRATION ASSEMBLY

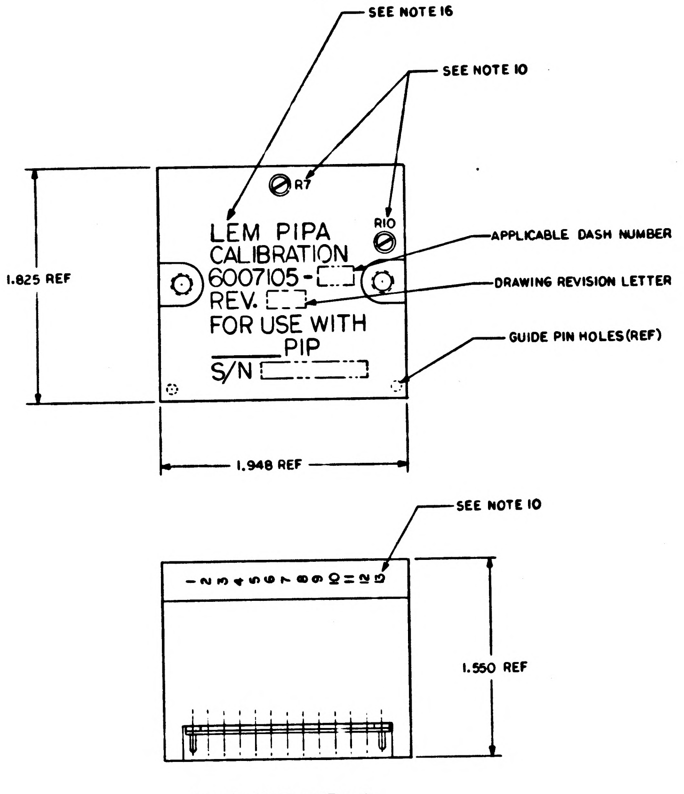
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 6007105
SCALE 10/1
WT —
SHEET 1 OF 1

6007105

6007105

F-4


3
SEE NOTE 3
2 PLACES
R9
C3
R7
CCW
W
CW
R13
OR
R14
FT7
FT1
R10
CW
CCW
W
FT2
C2
R1
FT5
R12
R3
C4
C1
FT4
R5
R6
FT6
FT8
R2
R11
R8
R4
FT3


SEE NOTE 16
SEE NOTE 10
R7
R10
LEM PIPA
CALIBRATION
6007105-
REV.
FOR USE WITH
PIP
S/N
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES(REF)
1.825 REF
1.948 REF
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOM NCLATURE OR DESCRIPTION
☒	6010000	SCHEMATIC
2	1010289-46	CAPACITOR
2	SEE NOTE 15	CAPACITOR
2	1010262-11	RESISTOR
1	1010373-8	RESISTOR
1	1010373-9	RESISTOR
1	SEE NOTE 15	RESISTOR
1	SEE NOTE 15	RESISTOR
1	SEE NOTE 15	RESISTOR
1	1010283-19	RESISTOR
1	1010923-25	RESISTOR
2	SEE NOTE 15	RESISTOR
2	1010377-335	RESISTOR
1	1008540-13	GASKET
AR	1006757-9	WIRE,ELEC .0 2 DIA
AR	1006757-8	WIRE,ELEC .0 0 X.020
AR	1006757-1	WIRE,ELEC .0 20 DIA
AR	1006776-22	INSULATION S EEVING
AR	1006776-21	INSULATION S EEVING
AR	1006776-20	INSULATION S LEEVING
1	2008093	TERMINAL,TH EADED
4	1010618-3	SCREW,BUTTO HEAD
13	1006782-5	CONTACT,WRA OST-MALE MINA
13	1006775	INSULATOR,W APOST MALE M
1	2008002	INSULATOR,B TTOM
1	2008003	INSULATOR,T P
1	2008099	HEATSINK

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

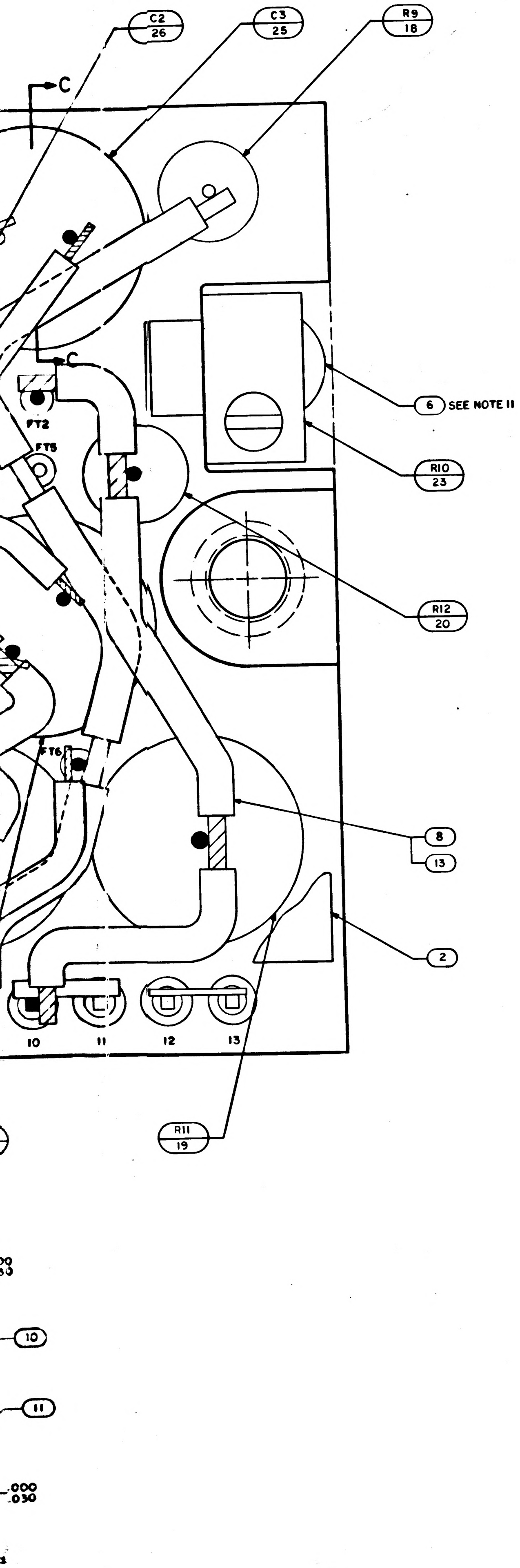
DRAWN TONY BELL DATE 1/14/65
CHECKED
APPROVAL 1/26/65
APPROVAL 1/26/65
NASA APPROVAL
MIT APPROVAL

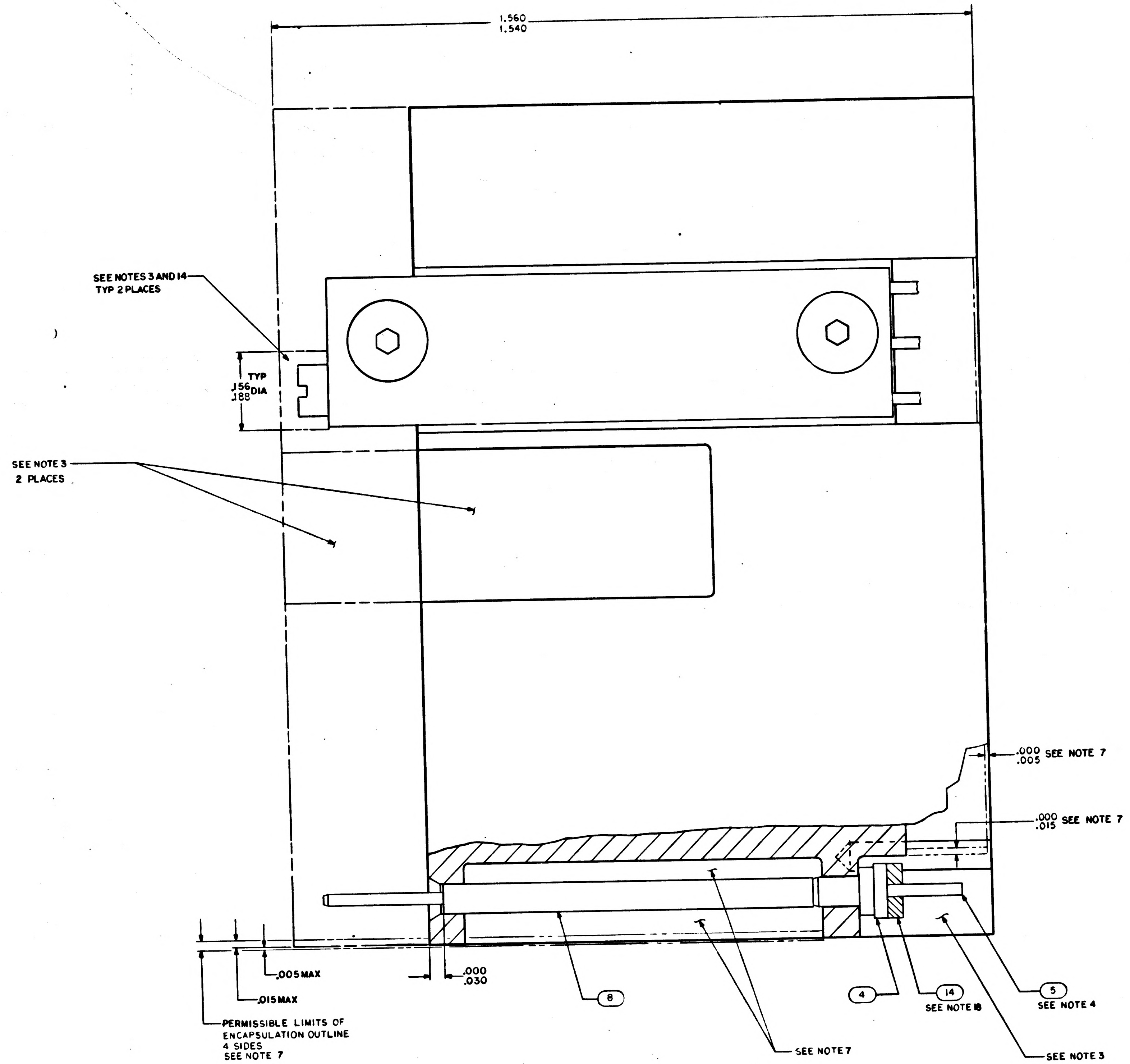
MANNED S ACECRAFT CENTER
HO STON, TEXAS

LEM PIPA CALIBRAT
AS EMBLY

CODE IDENT NO. — SIZE J NASA DRAWING NO. 6007105
SCALE 10/1 WT — SHEET

6007105


C2
26
C3
25
R9
18
C
C
FT2
FT5
FT6
6 SEE NOTE 11
R10
23
R12
20
8
13
2
10
11
12
13
R11
19
.00
.30
10
11
.000
.030


1.560
1.540
SEE NOTES 3 AND 14
TYP 2 PLACES
TYP
.156
.188 DIA
SEE NOTE 3
2 PLACES
.000
.005 SEE NOTE 7
.000
.015 SEE NOTE 7
.005 MAX
.015 MAX
PERMISSIBLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
SEE NOTE 7
.000
.030
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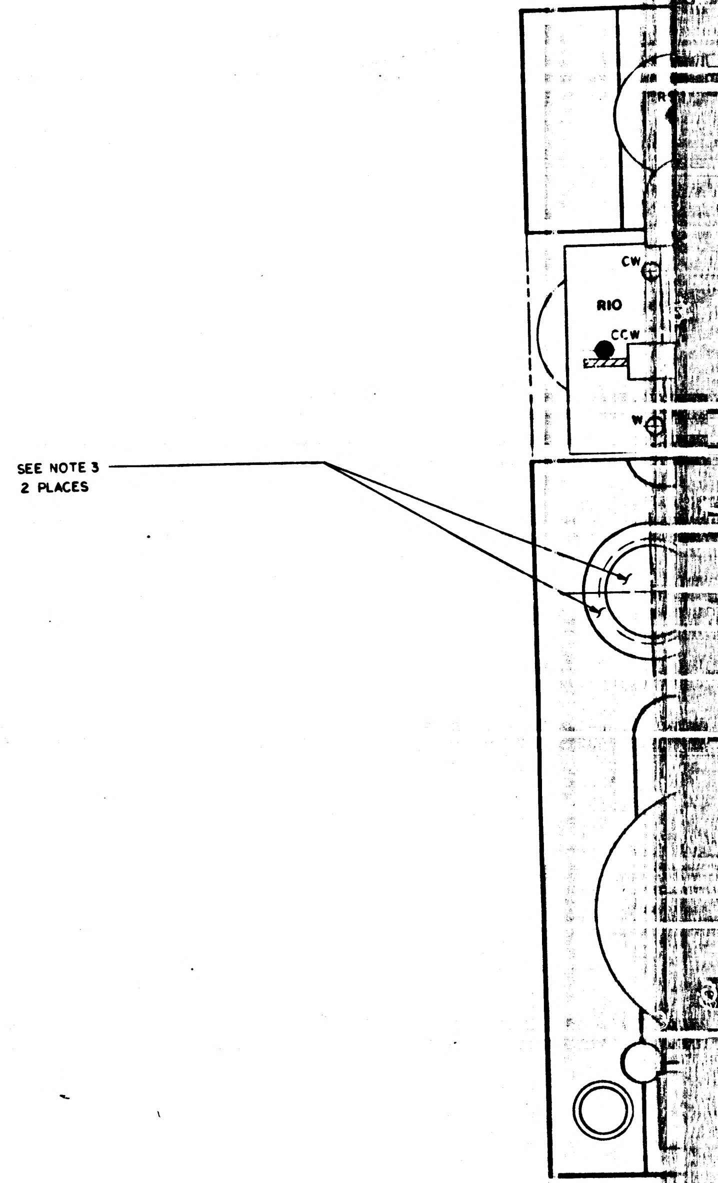
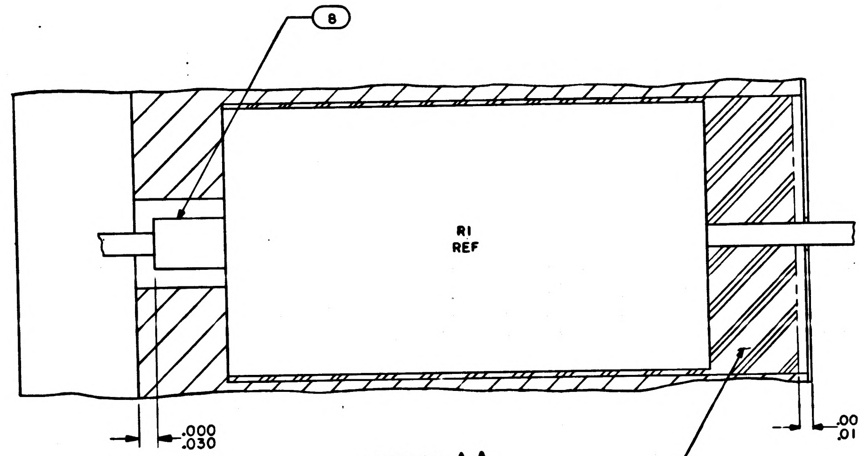
4
14
SEE NOTE 18
5
SEE NOTE 4
SEE NOTE 7
SEE NOTE 3

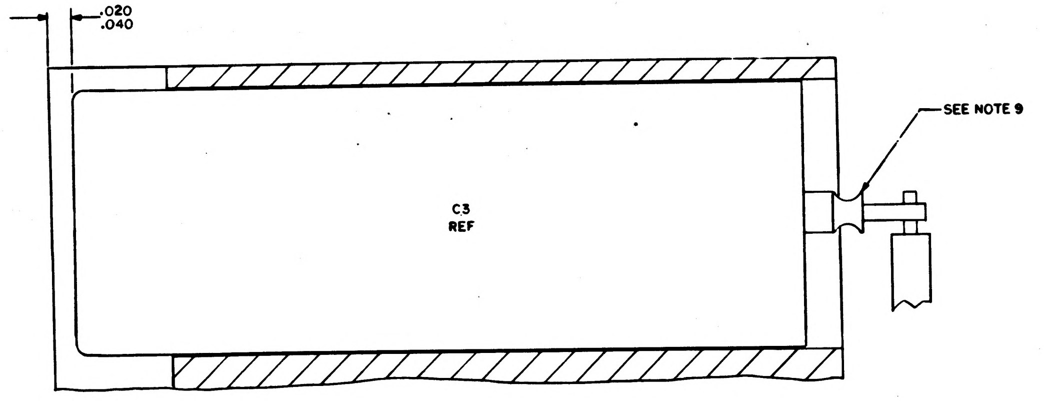

SEE NOTE 3
2 PLACES
CW
R10
CCW
W

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



8
R1
REF
.000
.030
.000
.015
SEE NOTE 8

SECTION A-A
TYP 2 PLACES R1 & R2



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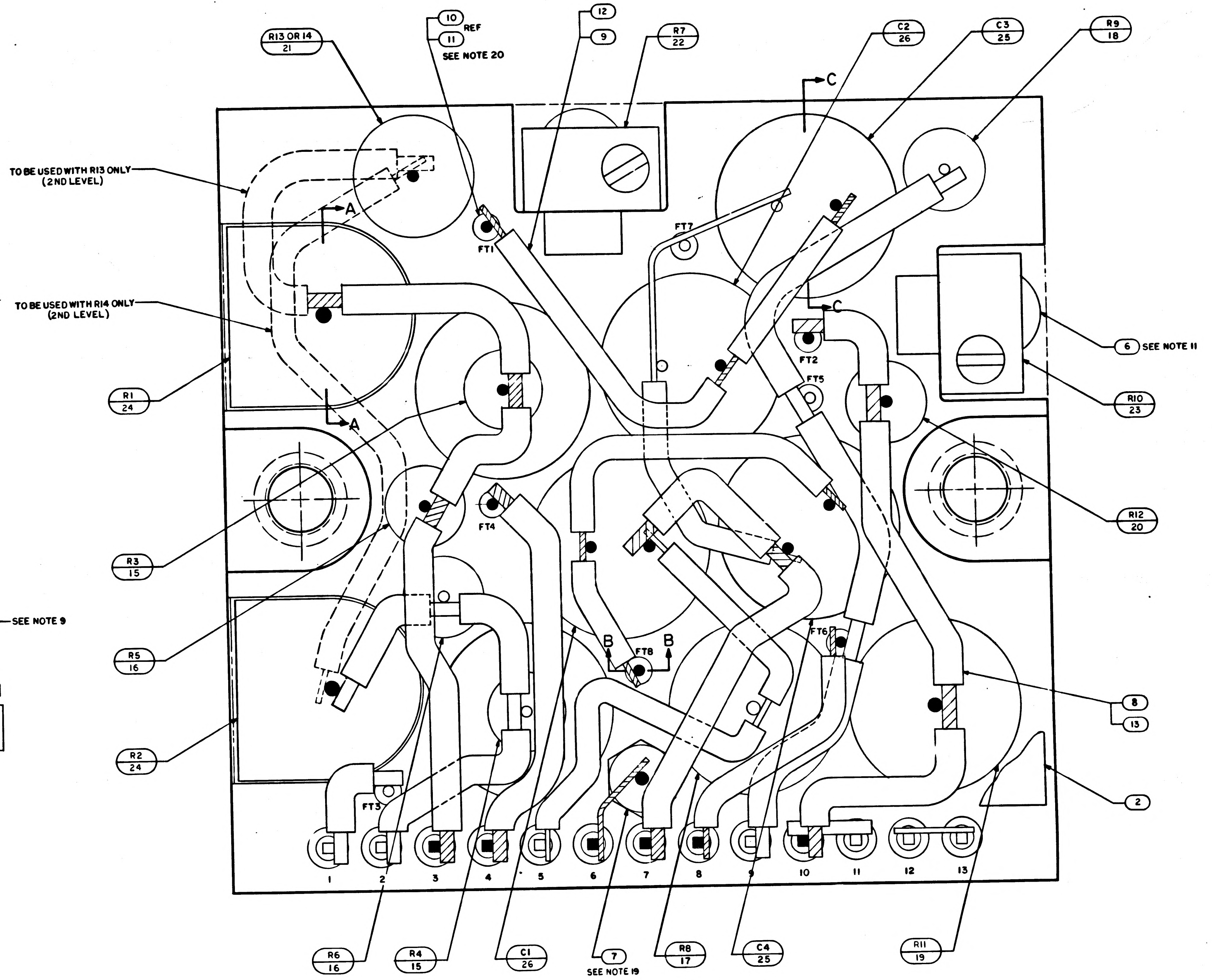
C3
REF
SEE NOTE 9

SECTION C-C
TYP C1 THRU C4



R13 OR R14
21
10
REF
11
SEE NOTE 20
12
9
R7
22
C2
26
C3
25
R9
18
TO BE USED WITH R13 ONLY
(2ND LEVEL)
TO BE USED WITH R14 ONLY
(2ND LEVEL)
A
A
C
C
FT1
FT7
FT2
FT5
6 SEE NOTE 11
R10
23
R1
24
R12
20
R3
15
FT4
R5
16
B
B
FT8
FT6
8
13
R2
24
2
FT3
1
2
3
4
5
6
7
8
9
10
11
12
13
R6
16
R4
15
C1
26
7
SEE NOTE 19
R8
17
C4
25
R11
19

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WELD PER ND 1002005
3. INICATED AREAS TO BE FREE OF ENCAPSULATING COMPOUND
4. ASSEMBLE FIND NO. 4 TO FIND NO. 5 PER ND 1002136
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
7. ENCAPSULATE PER ND1002002 BLACK. REMOVE ALL FLASHING
8. ENCAPSULATE PER ND1002117
9. STAKE R3 THRU R6, R8, R9, R11 THRU R13 OR R14, C1 THRU C4 PER ND 1002009 METHOD C. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
10. MARK .100/.060 WHITE CHARACTERS PER ND 1002019. CENTRALIZE AS SHOWN
11. APPLY WET ZINC CHROMATE PRIMER PER MIL—P—8585 TO FIND NO.6 AT INSTALLATION
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEEDTHRU
14. AFTER FINAL ADJUSTMENT, SEAL ADJUSTING SCREW PER ND 1002009 METHOD C
15. VALUE OF R5 AND R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED AT FINAL TEST FROM APPROPRIATE CHART PER ATP
16. MARK .140/.100 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
17. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
18. BOND FIND NO. 14 TO FIND NO. 4 PER ND1002237
19. MOUNTING TORQUE FOR FIND NO. 7 TO BE 15-20 INCH OUNCES
20 STAKE FT1, FT2, FT3, FT4 AND FT8 PER ND1002009 METHOD C
21. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S.

R5 AND R6

PART NO.	VALUE Ω
1010377- 8	95,000
- 9	96,250
- 10	97,500
- 11	98,750
- 12	100,000
- 13	101,250
- 14	102,500
- 15	103,750
1010377 - 16	105,000

R11

PART NO.	VALUE Ω
1010923 - 26	135,561
- 27	136.816
- 28	138.095
- 29	139.397
- 30	140.725
- 31	142.078
- 32	143.457
- 33	144.864
- 34	146.298
- 35	147.761
1010923 - 36	149.253

R13 OR R14

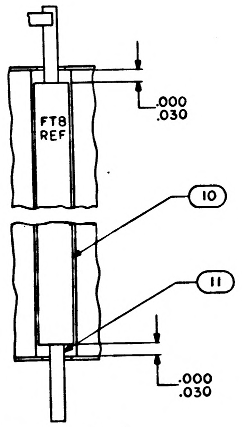
PART NO.	VALUE
1010251 - 21	67.4K
1010251 - 40	102K
1010251 - 41	205K

C3 AND C4

PART NO	VALUE uf
1010289 - 39	.00260
- 40	.00282
- 41	.00304
- 42	.00326
- 43	.00348
- 44	.00370
- 45	.00392
- 47	.00414
- 48	.00436
1010289 - 49	.00458

R12

PART NO.	VALUE
1010283 - 20	15.932K
- 21	17.525K
- 22	19.473K
- 23	21.907K
- 24	25.036K
- 25	29.209K
- 26	35.051K
- 27	43.814K
- 28	58.419K
- 29	87.627K
1010283 - 30	175.254K



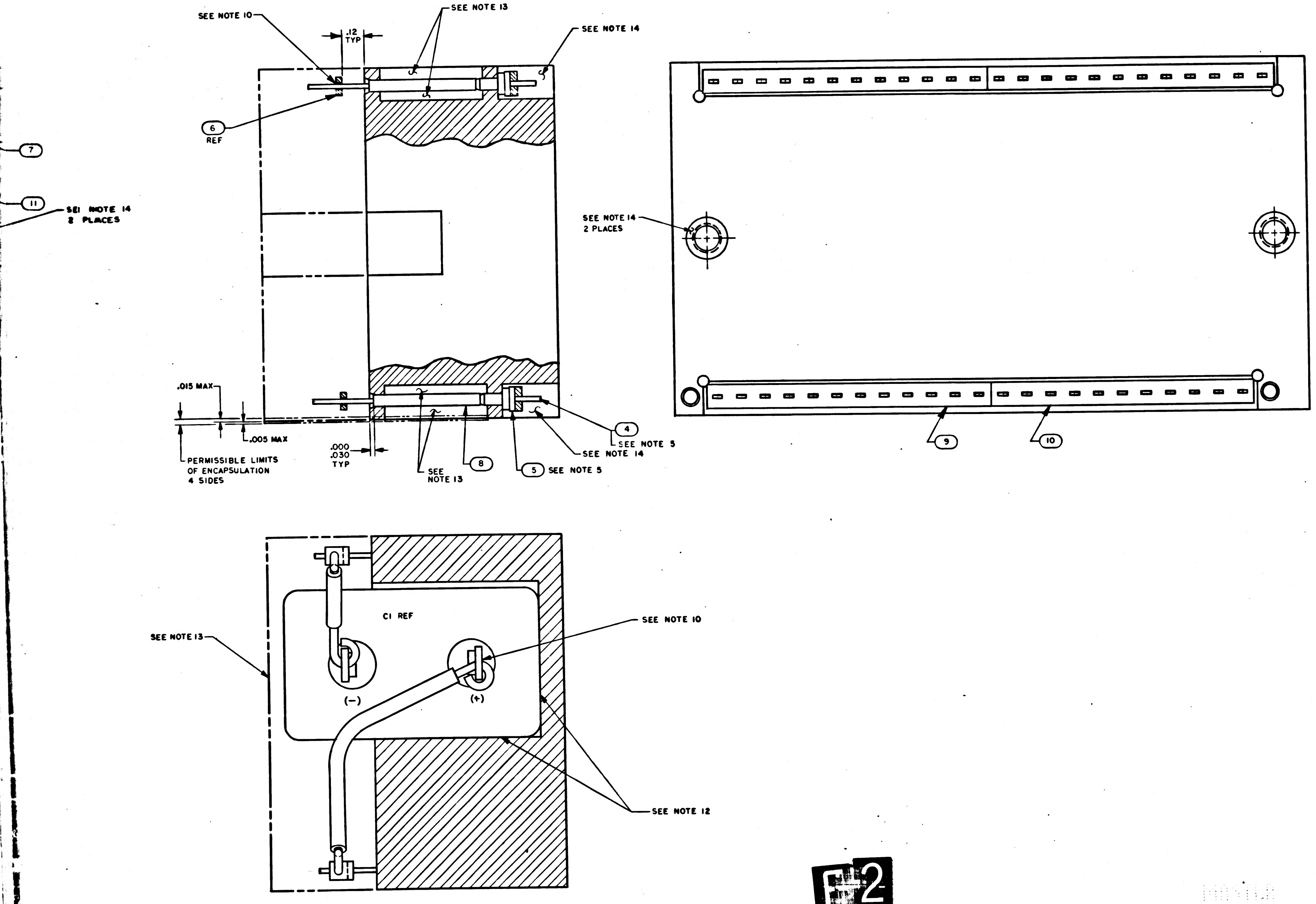
FT8
REF
.000
.030
10
11
.000
.030

SECTION B-B
TYPICAL FOR ALL FEEDTHRUS

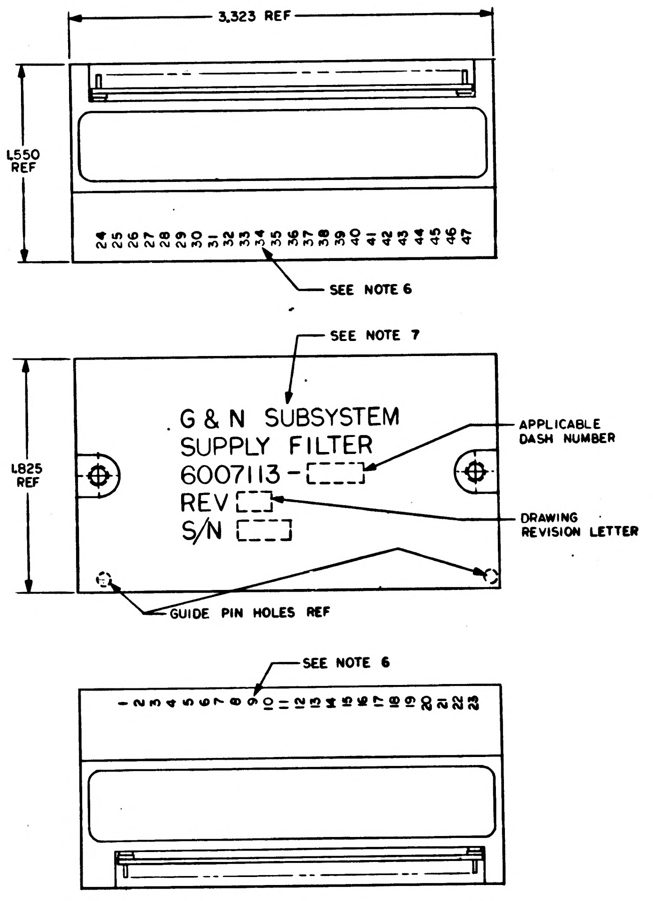
6007105

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

REVISIONS


SEE NOTE 10
SEE NOTE 13
SEE NOTE 14
.12 TYP
6 REF
7
11
SEI NOTE 14 2 PLACES
.015 MAX
.005 MAX
PERMISSIBLE LIMITS OF ENCAPSULATION 4 SIDES
.000 .030 TYP
SEE NOTE 13
8
5 SEE NOTE 5
4 SEE NOTE 5
SEE NOTE 14
SEE NOTE 14 2 PLACES
9
10
SEE NOTE 13
C1 REF
(-)
(+)
SEE NOTE 10
SEE NOTE 12
F2

SECTION A-A


3.323 REF
1.550 REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 6
SEE NOTE 7
G & N SUBSYSTEM
SUPPLY FILTER
6007113 -
REV
S/N
1.825 REF
APPLICABLE DASH NUMBER
DRAWING REVISION LETTER
GUIDE PIN HOLES REF
SEE NOTE 6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6010004	SCHEMATIC	REF
AR	1006757-1	WIRE, ELEC	12
AR	QQ-W-343 TYPE S	WIRE, ELEC COPPER, AWG 18, SOFT TIN COATED	11
1	1008540-11	GASKET	10
3	1008540-12	GASKET	9
AR	1006776-20	INSULATION SLEEVING	8
AR	1006776-18	INSULATION SLEEVING	7
2	6008016	BUS BAR, SINGLE LUG	6
47	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	5
47	1006782-5	CONTACT, WRAPOST-MALE, MINIATURE	4
1	2008093-001	TERMINAL, THREADED	3
1	1010637-1	CAPACITOR	2
1	6008015	HEATSINK	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX±.02 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN		3 JUN 65
CHECKED	C.A. Geartz	24 JUN 65
APPROVED		24 Jun 65
APPROVED		6/25/65
APPROVED MIT		2 Jul 65
APPROVED MSC		7-26-65

G & N SUBSYSTEM
SUPPLY FILTER
MODULE ASSY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007113

SCALE 5/1 SHEET 1 OF 1

6007113

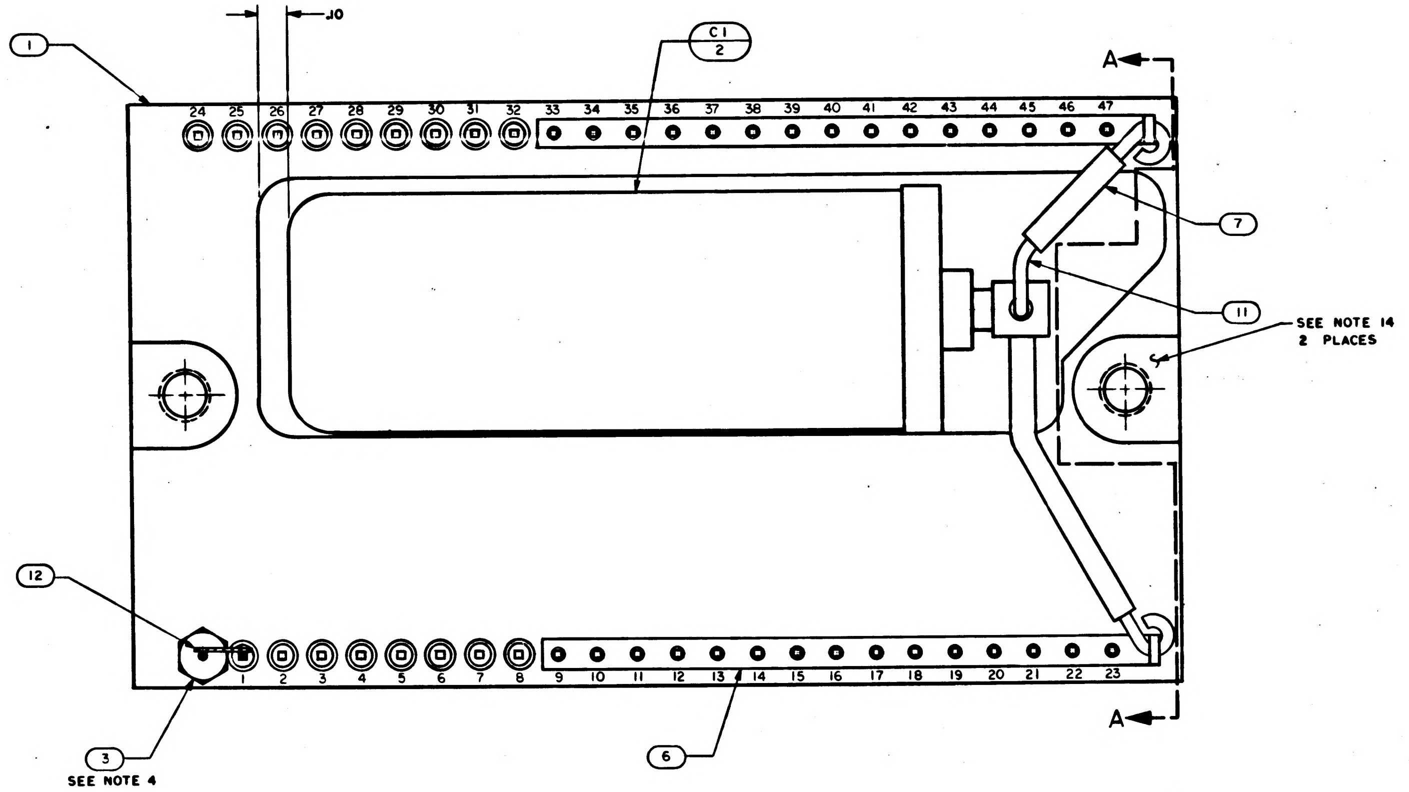
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

D

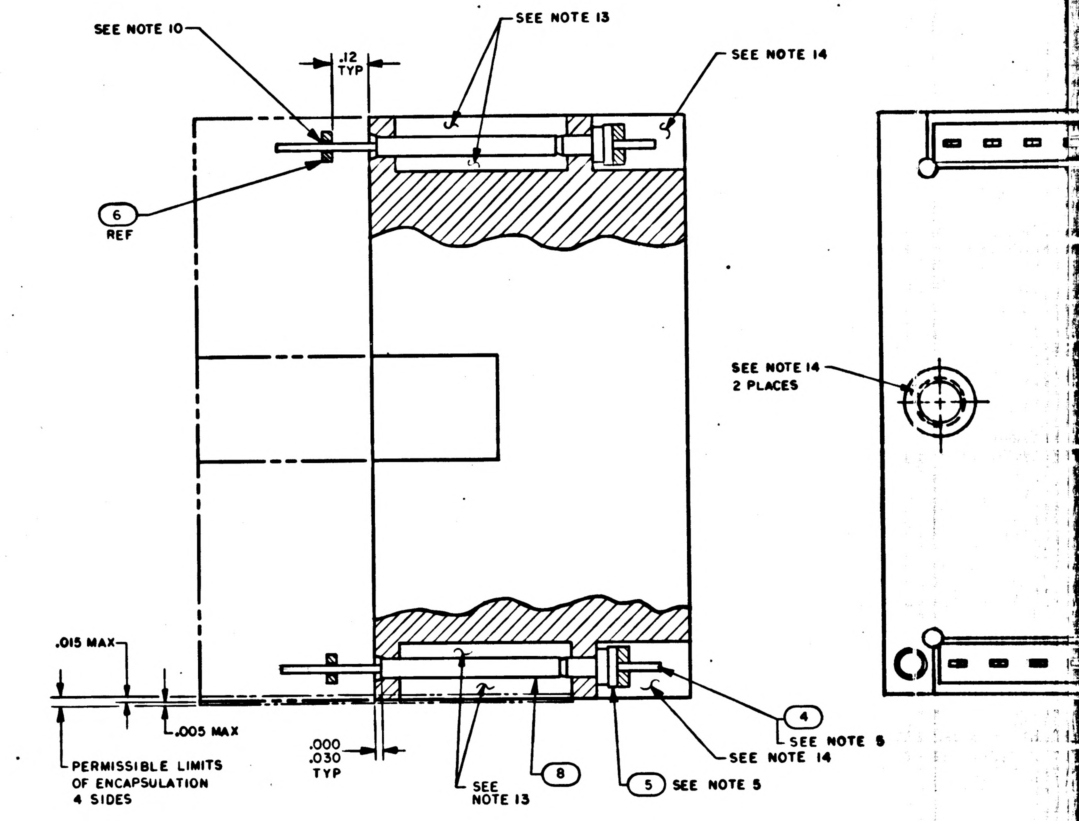
C

B

A



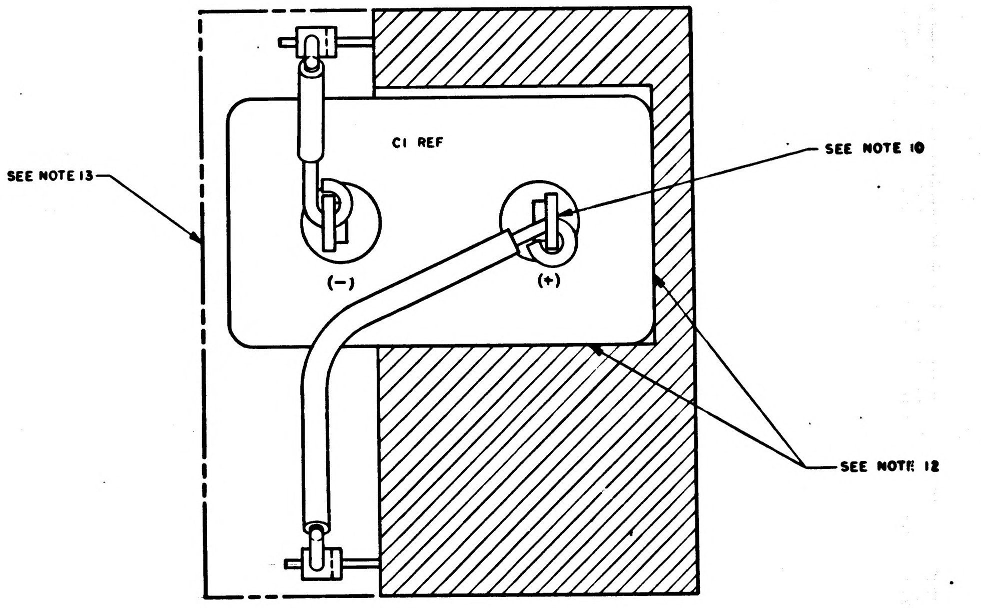
1
C1
2
.10
A
A
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
7
11
SEE NOTE 14
2 PLACES
12
3
SEE NOTE 4
6



SEE NOTE 10
.12
TYP
SEE NOTE 13
SEE NOTE 14
6
REF
SEE NOTE 14
2 PLACES
.015 MAX
.005 MAX
PERMISSIBLE LIMITS
OF ENCAPSULATION
4 SIDES
.000
.030
TYP
SEE
NOTE 13
8
5
SEE NOTE 5
4
SEE NOTE 5
SEE NOTE 14

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. + DENOTES POSITIVE SIDE OF CAPACITOR
4. MOUNTING TORQUE FOR FIND NO.3 TO BE 15–20 INCH OUNCES
5. ASSEMBLE FIND NO.4 AND FIND NO.5 TO FIND NO.1 PER ND1002136
6. MARK .060/.100 HIGH WHITE CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
7. MARK .100/.140 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
8. WELD PER ND1002005
9. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
10. SOLDER PER ND1002071
11. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
12. BOND FIND NO. 2 TO FIND NO.1 PER ND1002187, TYPE I.
13. ENCAPSULATE PER ND1002002. REMOVE FLASHING
14. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
15. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF P.S.6007113



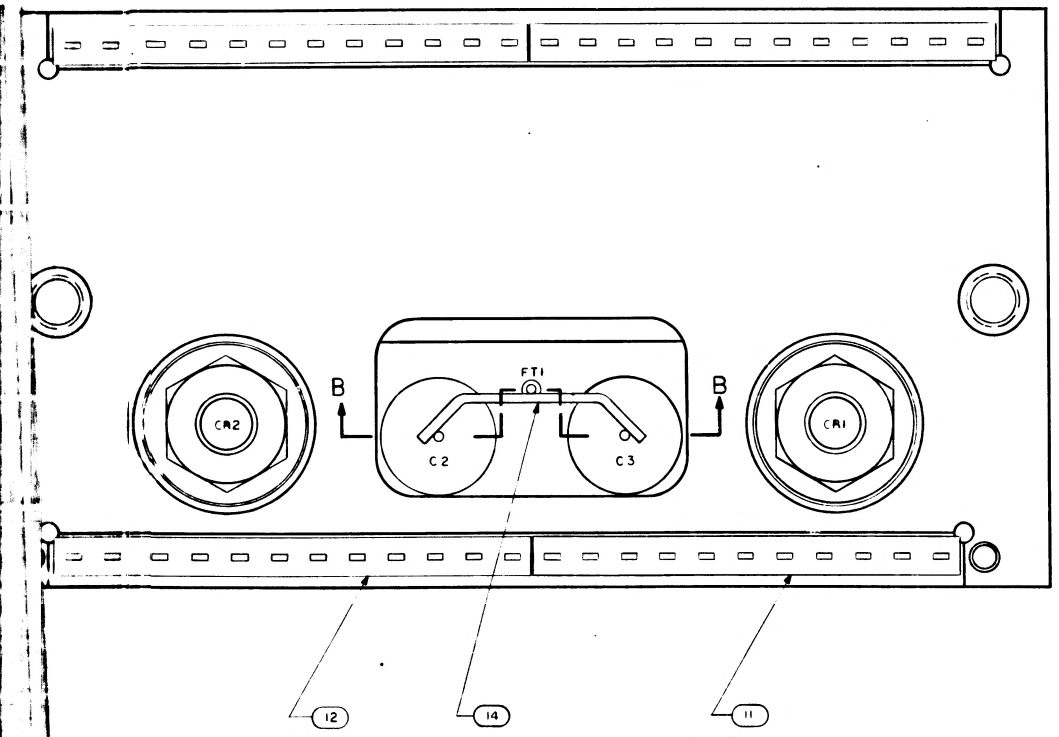
SEE NOTE 13
C1 REF
(–)
(+)
SEE NOTE 10
SEE NOTE 12

SECTION A-A

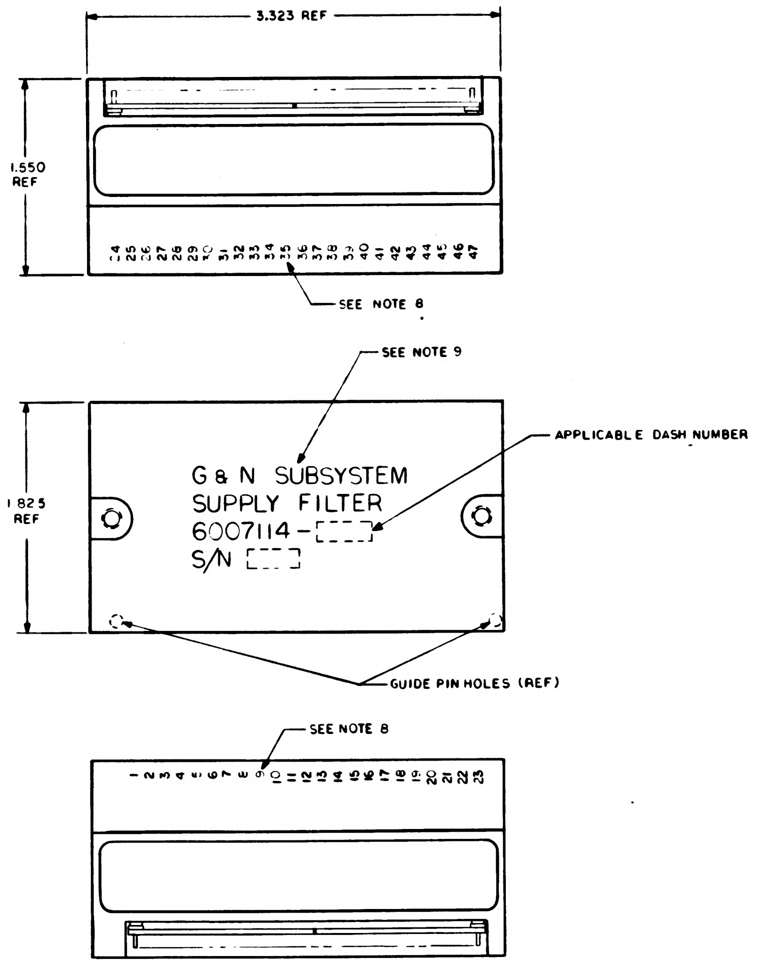
6007113

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 27137	LK		15 MAR 66	

REVISIONS 23060



CR2
C2
FT1
C3
CR1
B
B
12
14
11



3.323 REF
1.550 REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
1.825 REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES (REF)
SEE NOTE 8
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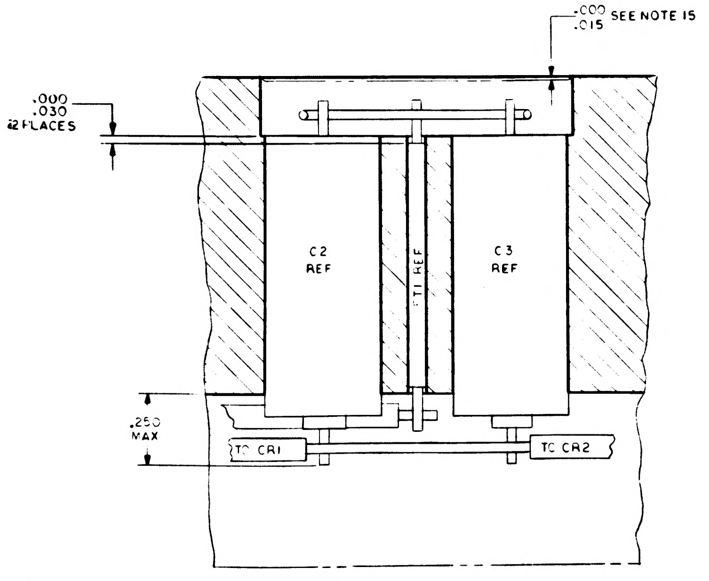
MARKING VIEWS
SCALE 2/1



.000
.015 SEE NOTE 15
.000
.030
12 PLACES
C2 REF
FT1 REF
C3 REF
.250 MAX
TO CR1
TO CR2

SECTION B-B

3H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	6010005	SCHEMATIC	REF
2	MS 20341—10B	NUT	21
2	2008013-3	TERMINAL LUG SOLDER FLAT	20
2	1008071 —2	WASHER, FLAT	19
4	1008024 —1	WASHER, INSULATOR	18
2	2008020—1	BUSHING, INSULATOR	17
AR	QQ-W-343 TYPE S	WIRE, ELEC COPPER, AWG 18, SOFT TIN COATED	16
AR	1010848 —4	WIRE, ELEC	15
AR	1006757 —9	WIRE, ELEC	14
AR	1006757 —1	WIRE, ELEC	13
3	1008540 —12	GASKET, CONNECTOR MINIATURE	12
1	1008540 —11	GASKET, CONNECTOR MINIATURE	11
AR	1006776 —18	INSULATION SLEEVING	10
AR	1006776 —20	INSULATION SLEEVING	9
2	6008016	BUS BAR, SINGLE LUG	8
47	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	7
47	1006782 —4	CONTACT, WRAPOST-MALE, MINIATURE	6
1	2008093 —001	TERMINAL, THREADED	5
2	1010777 —2	DIODE	4
1	1010637 —1	CAPACITOR	3
2	1006755 —134	CAPACITOR	2
1	6008033	HEATSINK	1

-011 LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY	USED ON
6007200	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N SUBSYSTEM
SUPPLY FILTER
MODULE ASSY

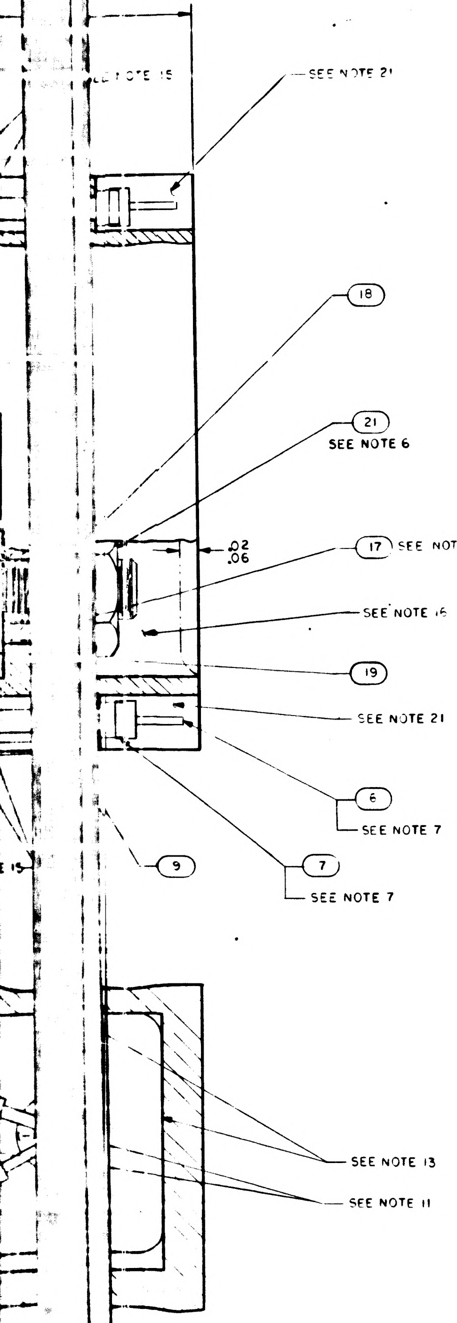
CODE IDENT NO 80230 SIZE J DRAWING NO. 6007114

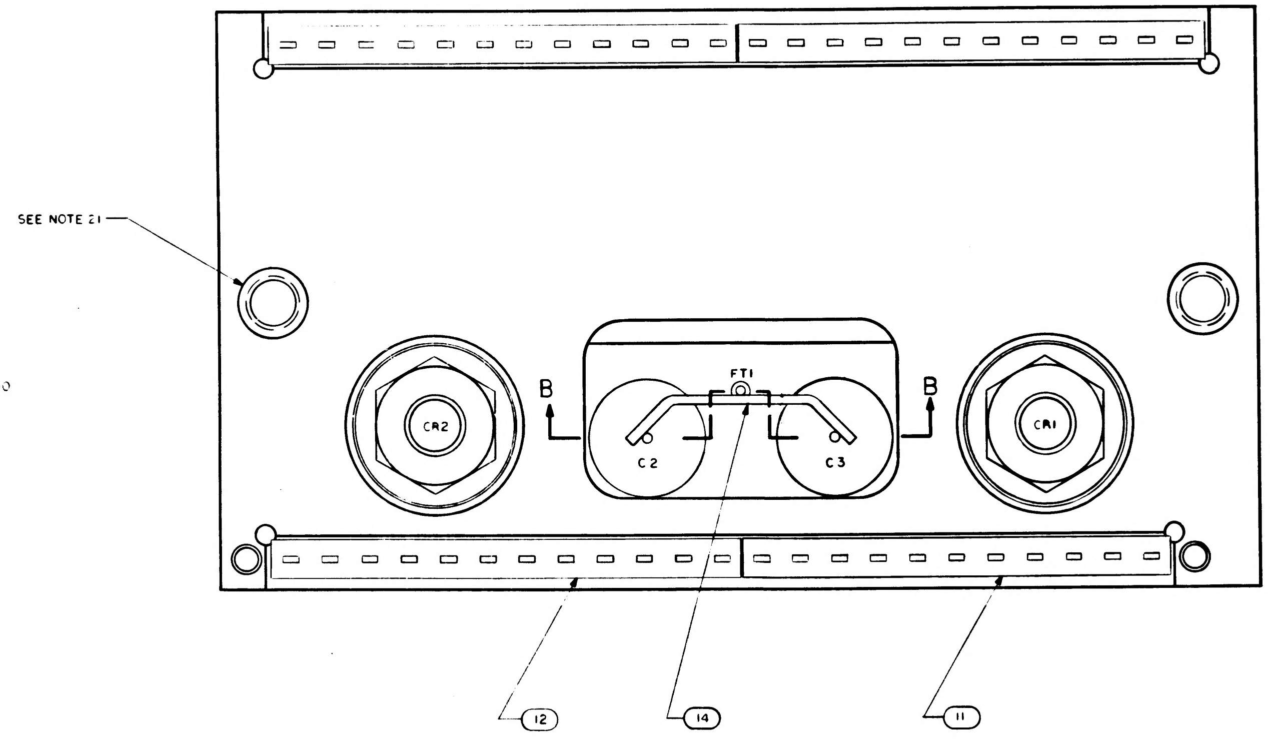
SCALE 5/1 SHEET 1 OF 1

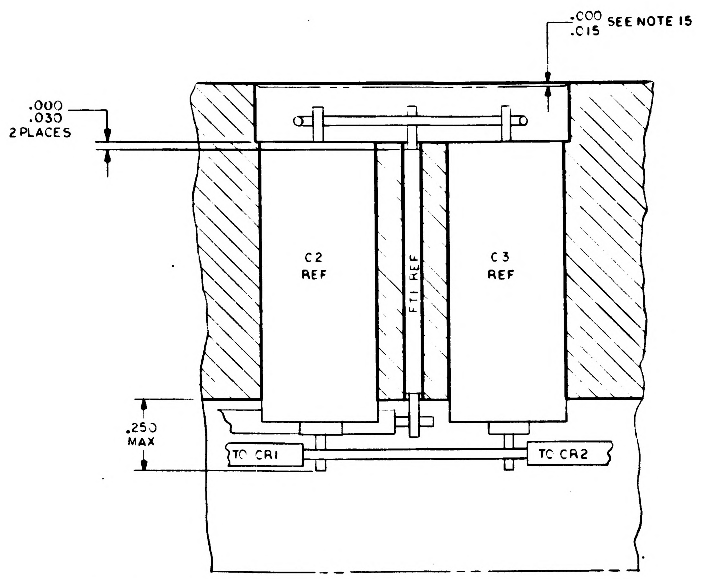
6007114 A

7114 A

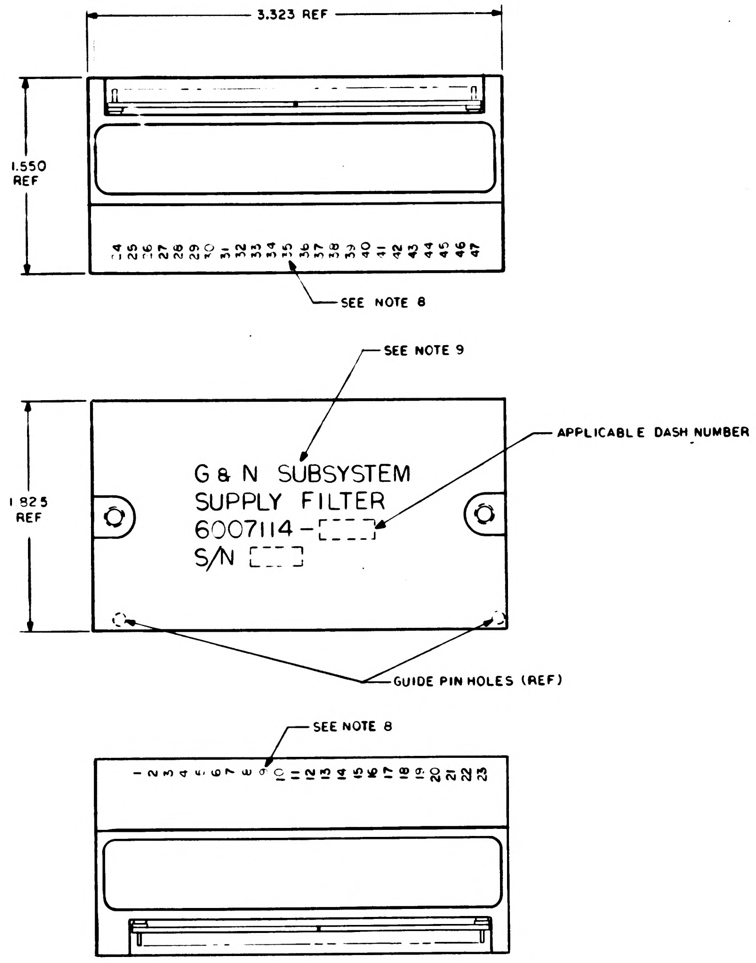
3/6007114


SEE NOTE 15
SEE NOTE 21
18
21
SEE NOTE 6
.02
.06
17
SEE NOTE 20
SEE NOTE 16
19
SEE NOTE 21
6
SEE NOTE 7
9
7
SEE NOTE 7
SEE NOTE 13
SEE NOTE 11


SEE NOTE 21
CR2
B
FT1
C2
C3
B
CR1
12
14
11


.000
.015
SEE NOTE 15
.000
.030
2 PLACES
C2
REF
FT1 REF
C3
REF
.250
MAX
TO CR1
TO CR2

SECTION B-B


3.323 REF
1.550
REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114 -
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

QTY REQ'D	IDE
	60100
2	MS 20
2	20080
2	10080
4	10080
2	20080
A R	QQ-W-
A R	10108
A R	10067
A R	10067
3	10085
1	10085
A R	10067
A R	10067
2	60080
4	10067
4	10067
1	20083
2	10107
	10106
2	10067
	60080
-01	

NEXT ASSY	USED ON
6007200	

APPLICATION

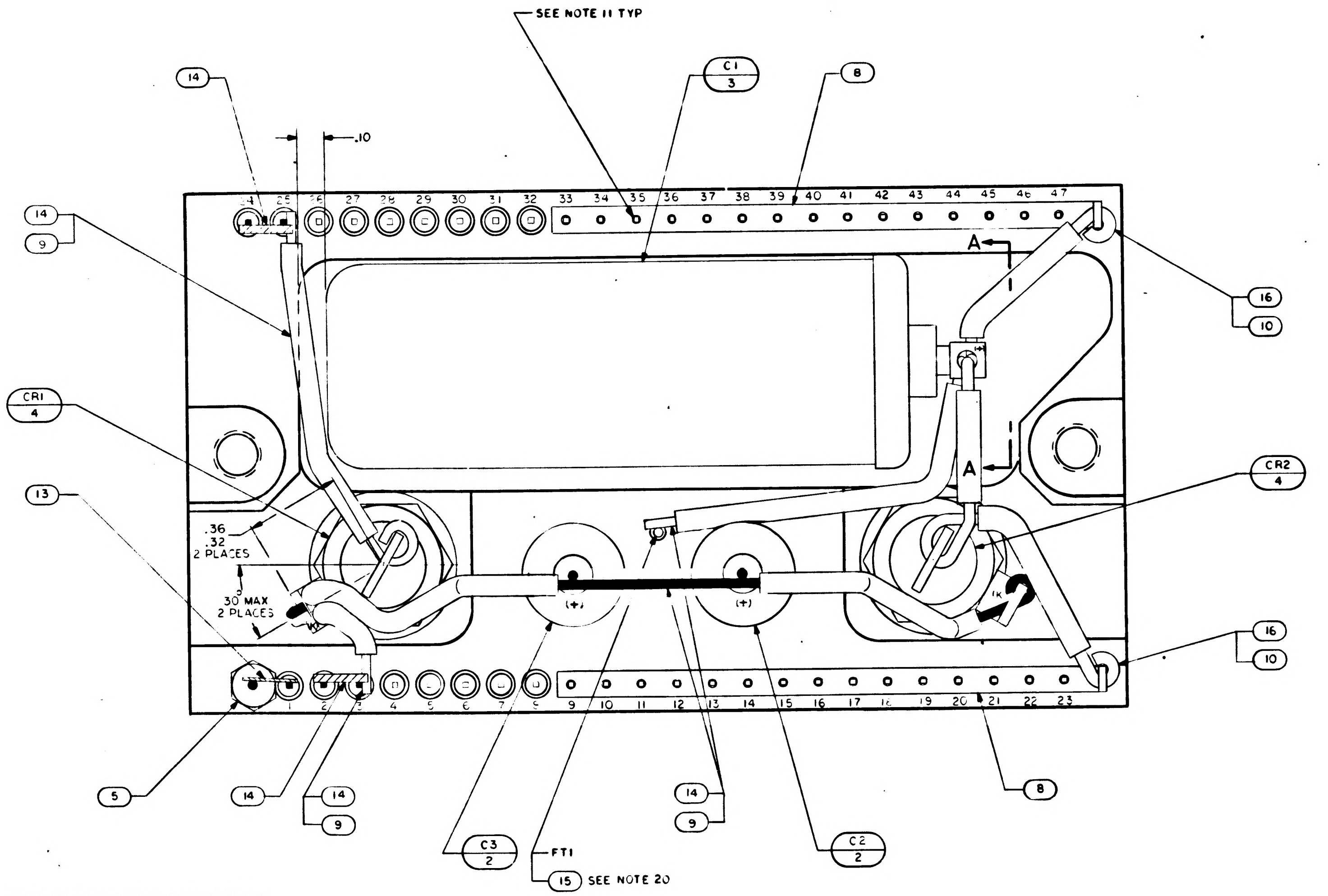
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — XX ± .02 XXX ± .005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL

INSTRUME
CAMBRI

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NASA

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 11 TYP
C1
3
8
14
.10
14
9
16
10
A
CR1
4
CR2
4
13
.36
.32
2 PLACES
30° MAX
2 PLACES
(+)
(+)
K
16
10
5
14
14
9
14
9
8
C3
2
FT1
15
SEE NOTE 20
C2
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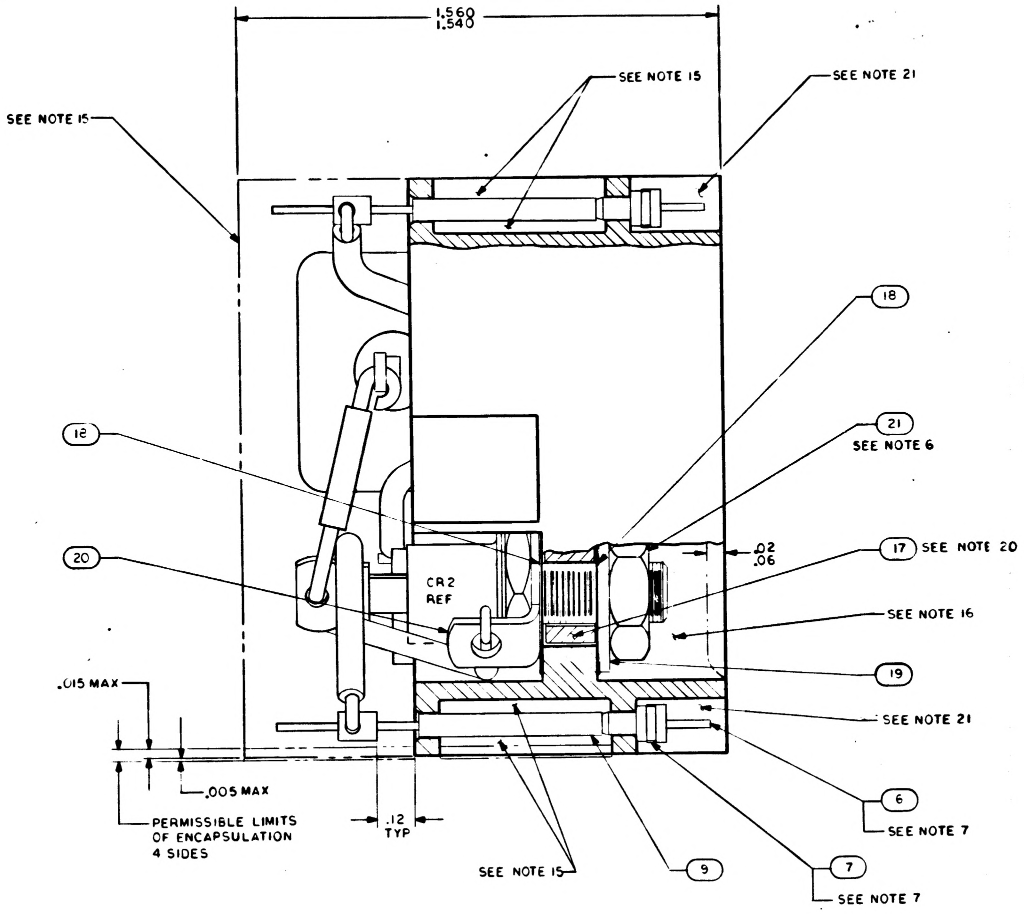
1.560
1.540
SEE NOTE 15
SEE NOTE 15
SEE NOTE 21
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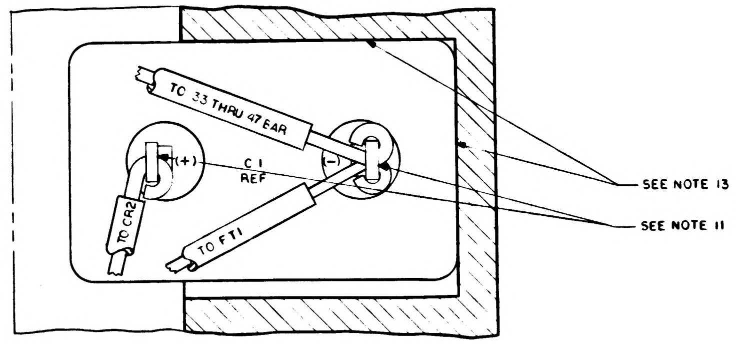
12
21
SEE NOTE 6
20
CR2
REF
17
SEE NOTE 20
.02
.06
SEE NOTE 16
19
SEE NOTE 21
.015 MAX
.005 MAX
PERMISSIBLE LIMITS
OF ENCAPSULATION
4 SIDES
.12
TYP
SEE NOTE 15
9
6
SEE NOTE 7
7
SEE NOTE 7


TO 33 THRU 47 EAR
(+)
C1
REF
(-)
TO CR2
TO FT1
SEE NOTE 13
SEE NOTE 11

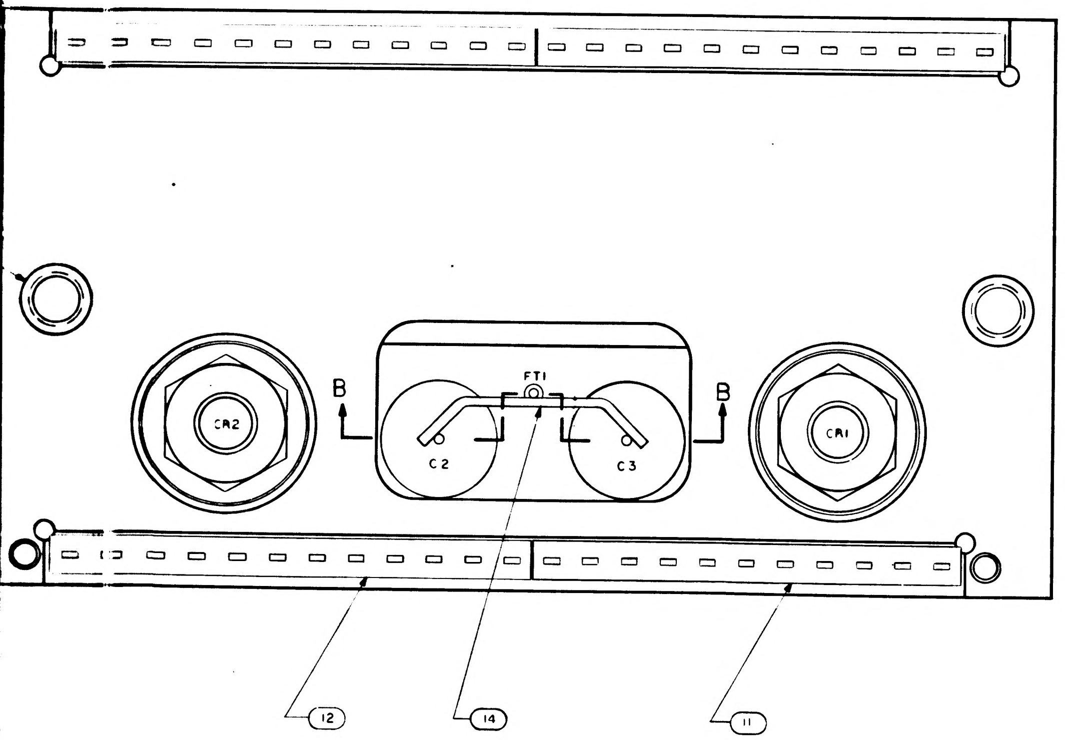
SECTION A-A

NOTES:

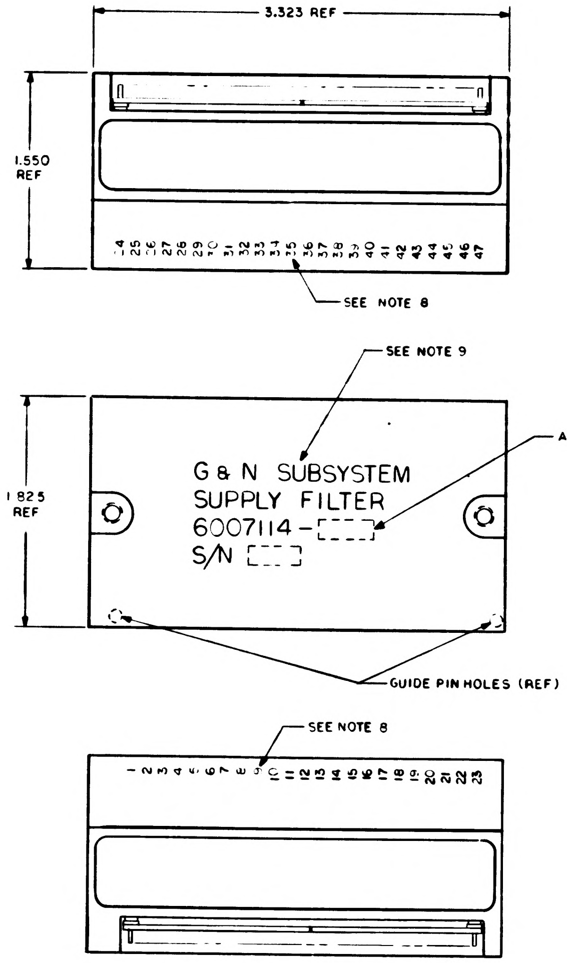
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. + DENOTES POSITIVE SIDE OF CAPACITOR
4. K DENOTES CATHODE SIDE OF DIODE
5. MOUNTING TORQUE FOR FIND NO.5 TO BE 15-20 INCH OUNCES
6. MOUNTING TORQUE FOR FIND NO.21 TO BE 12 -14 INCH POUNDS
7. ASSEMBLE FIND NO.6 AND FIND NO.7 TO FIND NO.1 PER ND 1002136
8. MARK .060/.100 HIGH WHITE CHARACTERS PER ND 1002019 CENTRALIZE AS SHOWN
9. MARK .100/.140 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
10. WELD PER ND 1002005
11. SOLDER PER ND 1002071
12. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
13. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004, TYPE I. CURE TIME 60 MINUTES.
14. APPLY SEALING COMPOUND MIL-S-22473 GRADE AV TO FIND NO.21
15. ENCAPSULATE PER ND 1002002. REMOVE FLASHING
16. ENCAPSULATE PER ND 1002117
17. BLACK DOT AND CROSSHATCHED WIRING INDICATES UPPER LEVEL WIRING
18. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
19. BLACK DOT AND BLACK WIRING INDICATES SPECIAL LEVEL WIRING
20. STAKE FIND NO.2, 17 AND FT1 TO FIND NO.1 PER ND 1002005, METHOD J
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING 1010992 PRIMER AND 1002809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT
24. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007114

6007114	A

REVISIONS 23060						
SYM	ZONE	DESCRIPTION		CHK	DATE	APPROVED
A		REVISED PER TDRR 27137	LK		18MAR 66	
B		REVISED PER TDRR 28484	PHG	JRS	9MAY 66	

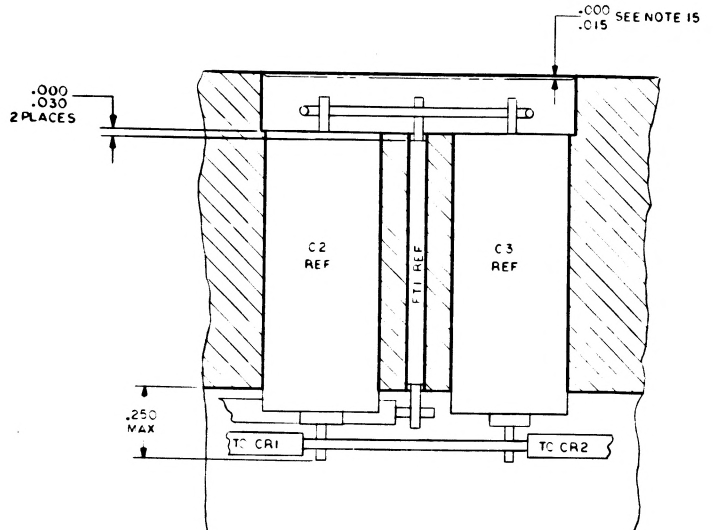


B
B
FT1
CR2
C2
C3
CR1
12
14
11



3.323 REF
1.550 REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825 REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1



.000 .015 SEE NOTE 15
.000 .030 2 PLACES
C2 REF
FT1 REF
C3 REF
.250 MAX
TO CR1
TO CR2

SECTION B-B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	6010005	SCHEMATIC	REF
2	MS 20341—10B	NUT	21
2	2008013-3	TERMINAL LUG SOLDER FLAT	20
2	1006071 —2	WASHER, FLAT	19
4	1006024 —1	WASHER, INSULATOR	18
2	2008020 —1	BUSHING, INSULATOR	17
AR	QQ-W-343 TYPE S	WIRE, ELEC COPPER, AWG 18, SOFT TIN COATED	16
AR	1010848 —4	WIRE, ELEC	15
AR	1006757 —9	WIRE, ELEC	14
AR	1006757 —1	WIRE, ELEC	13
3	1008540 —12	GASKET, CONNECTOR MINIATURE	12
1	1008540 —11	GASKET, CONNECTOR MINIATURE	11
AR	1006776 —18	INSULATION SLEEVING	10
AR	1006776 —20	INSULATION SLEEVING	9
2	6008016	BUS BAR, SINGLE LUG	8
47	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	7
47	1006782 —4	CONTACT, WRAPOST-MALE, MINIATURE	6
1	2008093 —001	TERMINAL, THREADED	5
2	1010777 —2	DIODE	4
1	1008860 —1	CAPACITOR	3
2	1006755 —134	CAPACITOR	2
1	6008033	HEATSINK	1

-011 LIST OF MATERIALS

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED 5 Oct 65
APPROVED 5 Oct 65
APPROVED
APPROVED MIT W Kupfer
APPROVED NASA
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N SUBSYSTEM
SUPPLY FILTER
MODULE ASSY

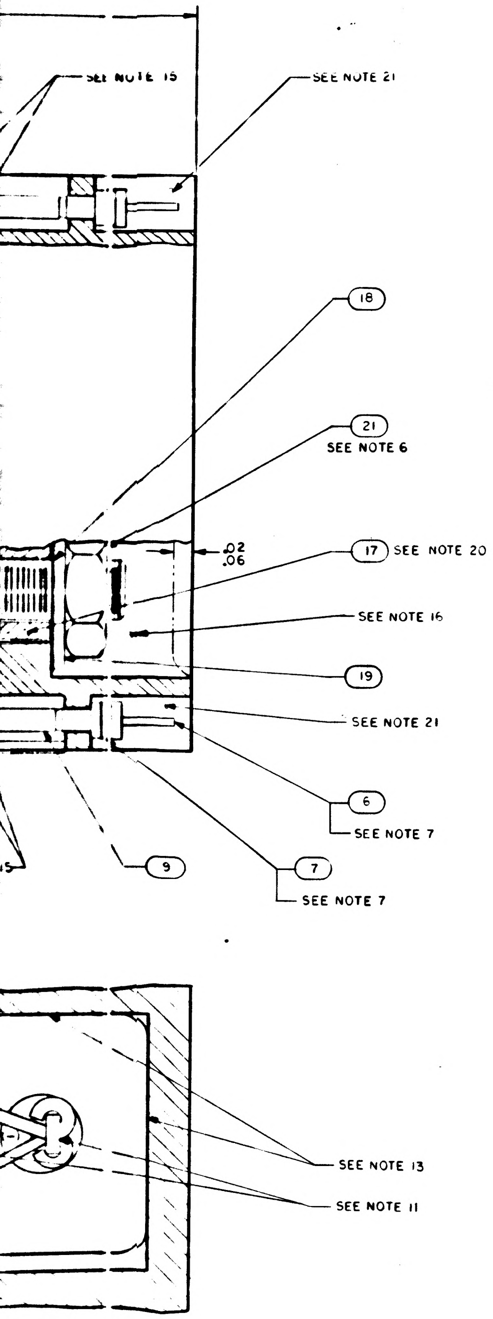
CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6007114

SCALE 5/1 SHEET 1 OF 1

6007114 B

3H

376007114



SEE NOTE 15
SEE NOTE 21
18
21 SEE NOTE 6
.02
.06
17 SEE NOTE 20
SEE NOTE 16
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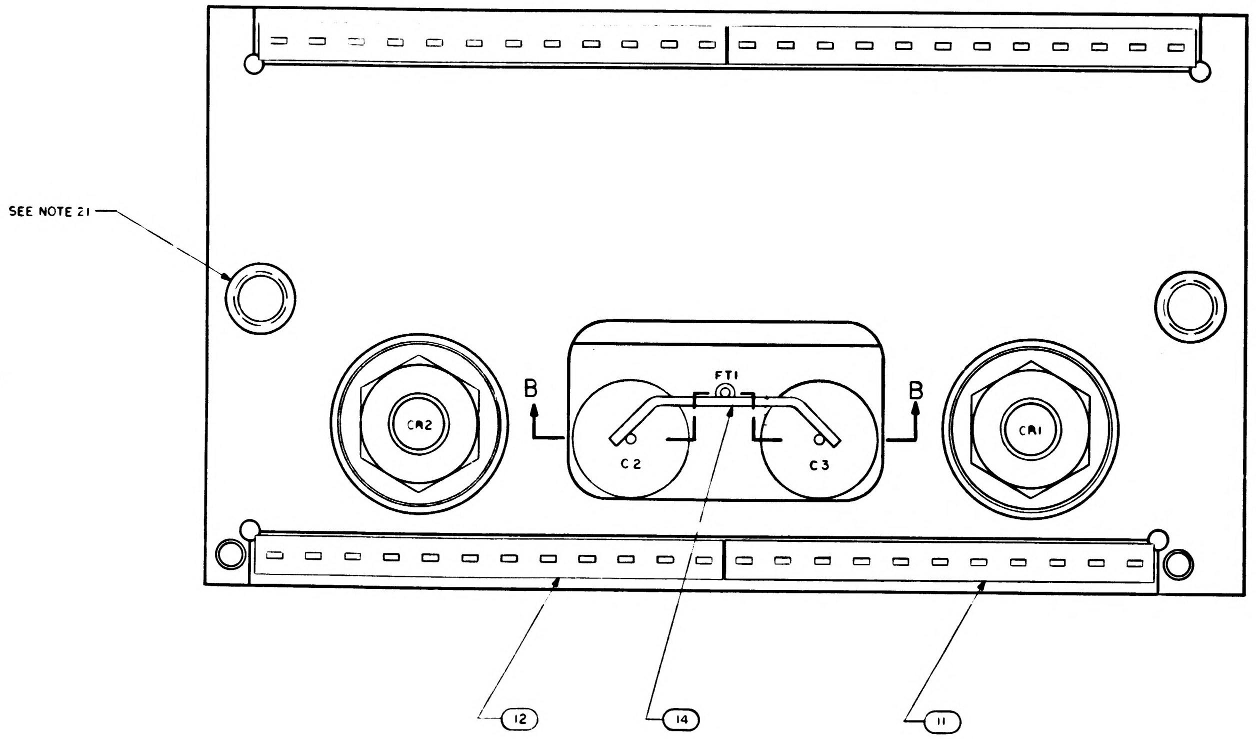
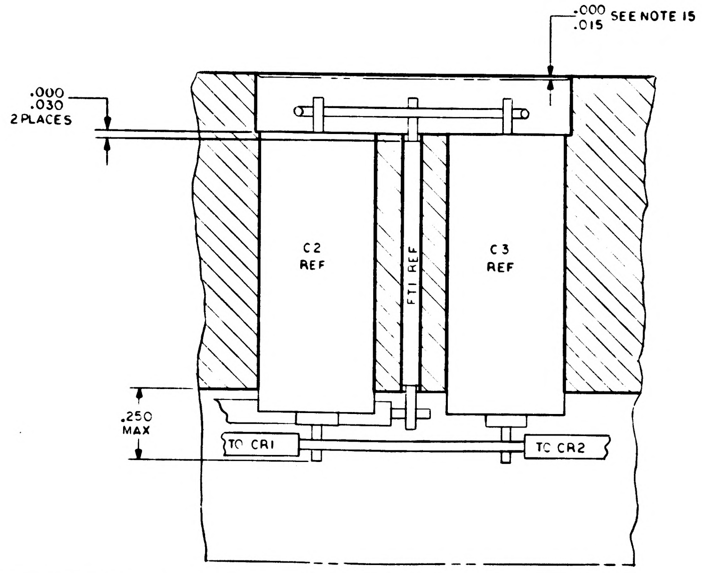
SEE NOTE 21
6 SEE NOTE 7
9
7 SEE NOTE 7
SEE NOTE 13
SEE NOTE 11

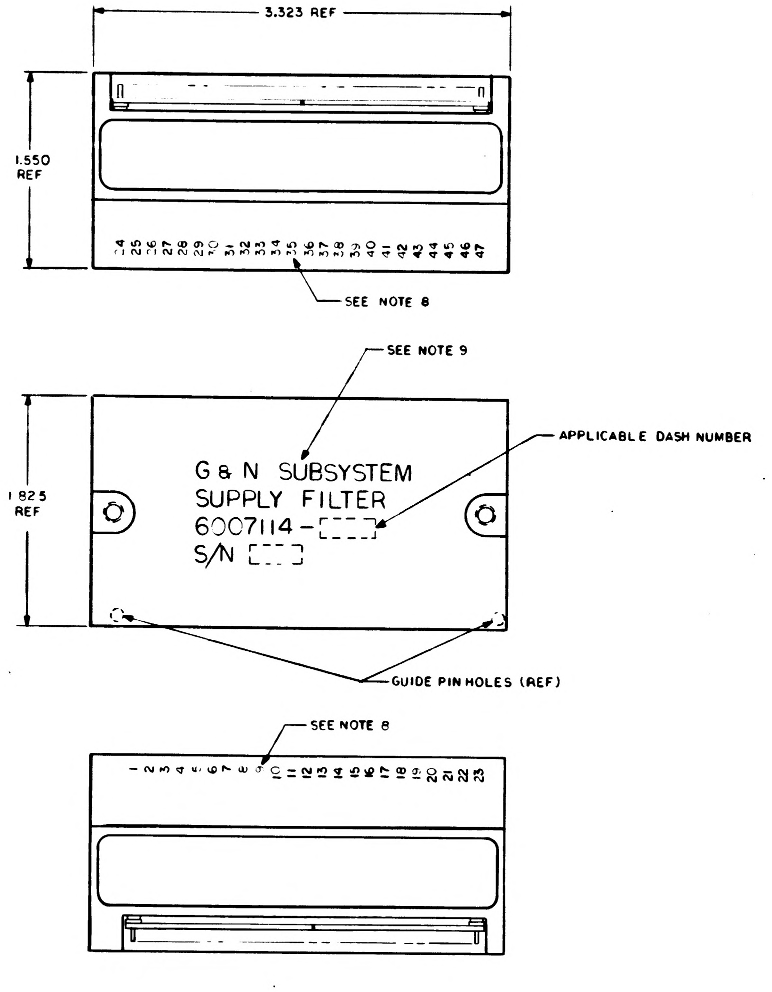


SEE NOTE 21
B
B
FT1
CR2
C2
C3
CR1
12
14
11



.000
.015 SEE NOTE 15
.000
.030
2 PLACES
C2
REF
FT1 REF
C3
REF
.250
MAX
TO CR1
TO CR2

SECTION B-B



3.323 REF
1.550
REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114 -
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

	60100
2	MS 203
2	20080
2	100807
4	100802
2	20080
A	QQ-W-3
A	1010345
A	100675
A	100675
3	100854
1	100854
A	100677
A	100677
2	60080
4	10067
4	1006782
1	200809
4	1010777
1	1008860
2	1006755
1	60080
QTY REQ	PA IDENTI

600720	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ± .02 .XXX ± .005 ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MI
INSTRUMENT
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED

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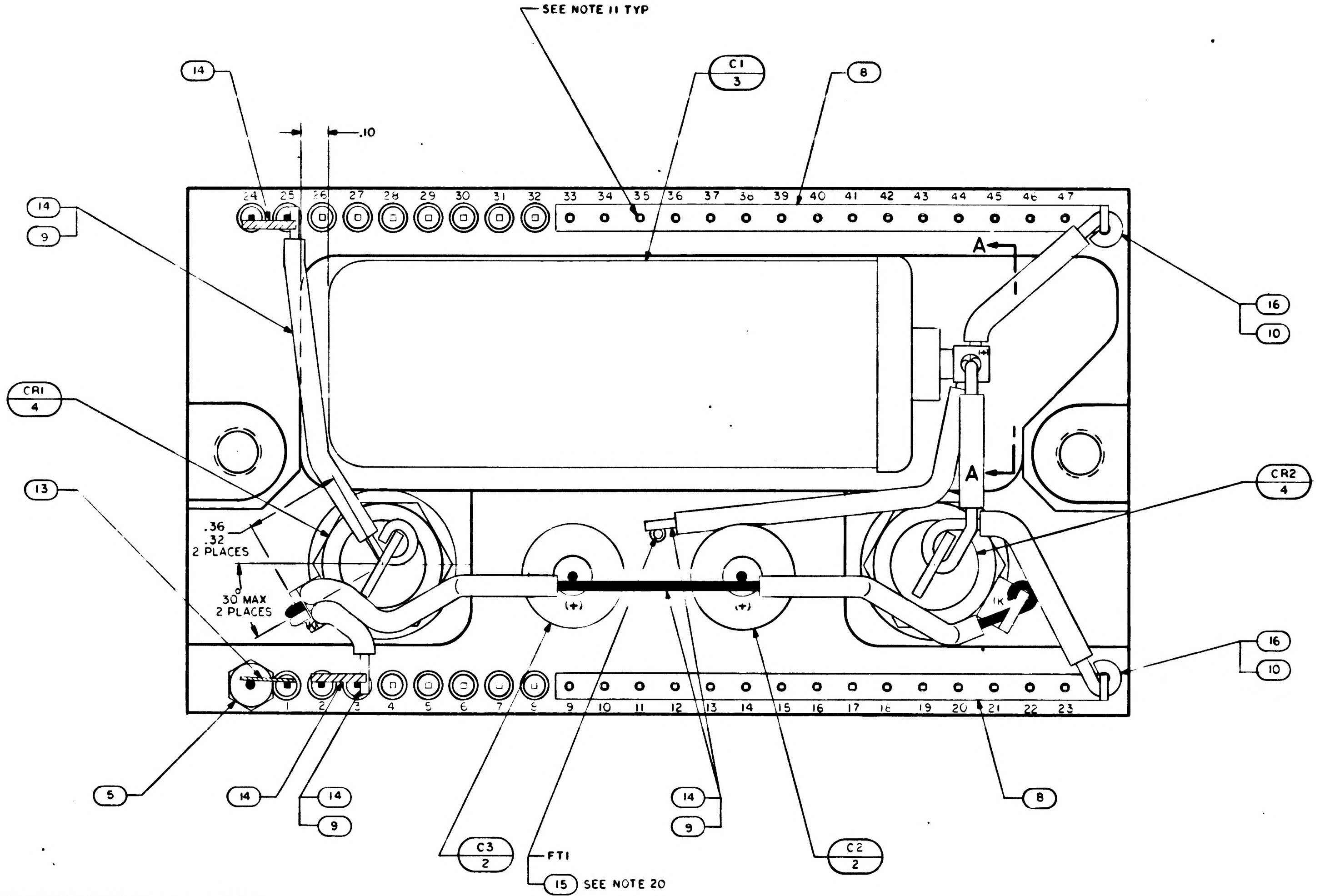
SEE NOTE 11 TYP
C1
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47
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A
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CR1
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13
.36
.32
2 PLACES
30° MAX
2 PLACES
(+)
(+)
K
CR2
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11
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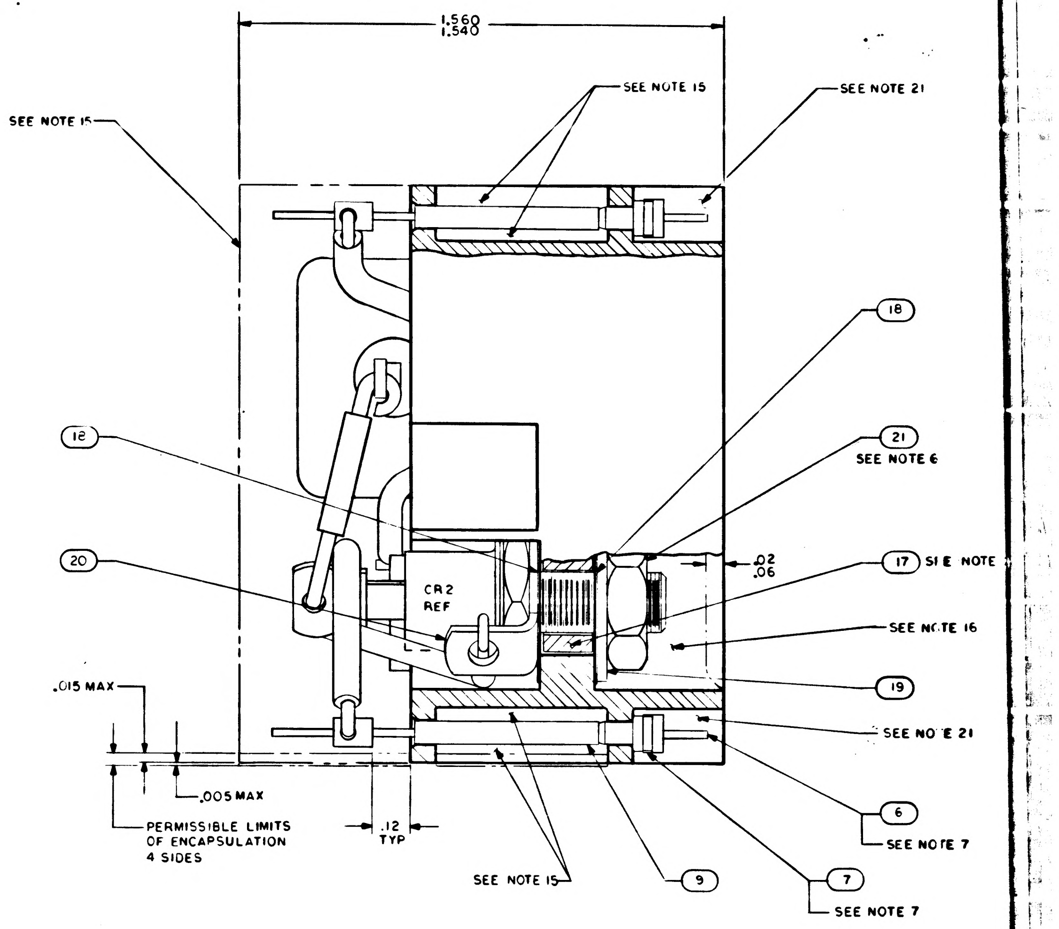
9
8
C3
2
FT1
15 SEE NOTE 20
C2
2


1.560
1.540
SEE NOTE 15
SEE NOTE 15
SEE NOTE 21
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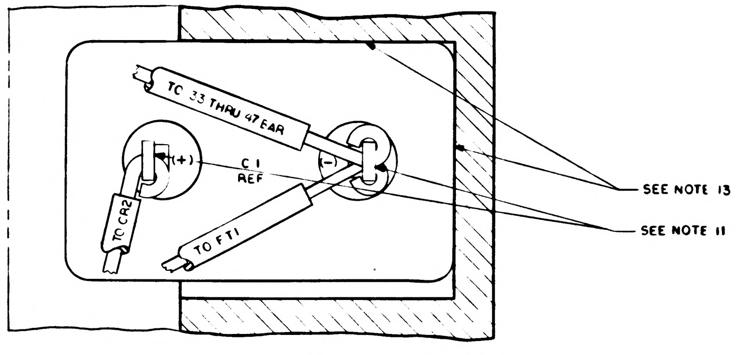
12
21
SEE NOTE 6
20
CR2
REF
17 SEE NOTE
.02
.06
SEE NOTE 16
19
.015 MAX
SEE NOTE 21
.005 MAX
6
SEE NOTE 7
PERMISSIBLE LIMITS
OF ENCAPSULATION
4 SIDES
.12
TYP
SEE NOTE 15
9
7
SEE NOTE 7


TO 33 THRU 47 EAR
(+)
C1
REF
(-)
TO CR2
TO FT1
SEE NOTE 13
SEE NOTE 11

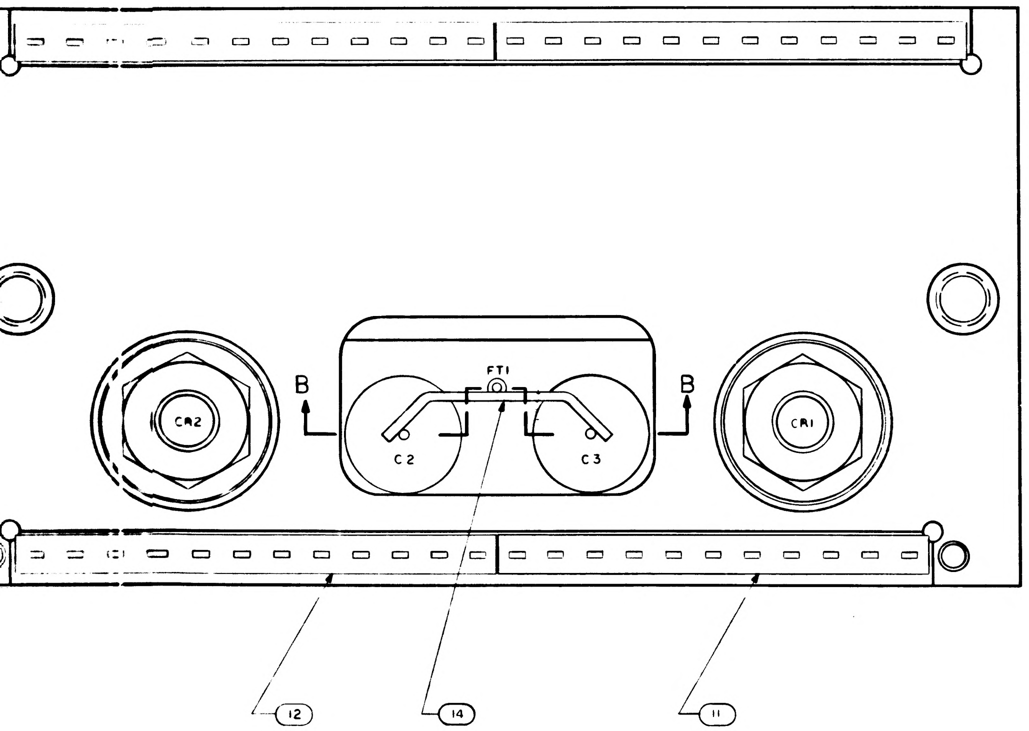
SECTION A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. + DENOTES POSITIVE SIDE OF CAPACITOR
4. K DENOTES CATHODE SIDE OF DIODE
5. MOUNTING TORQUE FOR FIND NO.5 TO BE 15-20 INCH OUNCES
6. MOUNTING TORQUE FOR FIND NO.21 TO BE 12-14 INCH POUNDS
7. ASSEMBLE FIND NO.6 AND FIND NO.7 TO FIND NO.1 PER ND 1002136
8. MARK .060/.100 HIGH WHITE CHARACTERS PER ND 1002019 CENTRALIZE AS SHOWN
9. MARK .100/.140 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
10. WELD PER ND 1002005
11. SOLDER PER ND 1002071
12. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
13. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004, TYPE I. CURE TIME 60 MINUTES
14. APPLY SEALING COMPOUND MIL-S-22473 GRADE AV TO FIND NO.21
15. ENCAPSULATE PER ND 1002002. REMOVE FLASHING
16. ENCAPSULATE PER ND 1002117
17. BLACK DOT AND CROSSHATCHED WIRING INDICATES UPPER LEVEL WIRING
18. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
19. BLACK DOT AND BLACK WIRING INDICATES SPECIAL LEVEL WIRING
20. STAKE FIND NO.2, 17 AND FT1 TO FIND NO.1 PER ND100[illegible], METHOD J
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING 1010992 PRIMER AND 1003809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT
24. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007114

6007114	B

REVISIONS 2306a						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 27137	LK		18 MAR 66	
B		REVISED PER TDRR 28484	PHG	JRS	9 MAY 66	
C		REVISED PER TDRR 29431	JHP	CP	10 [illegible] 66	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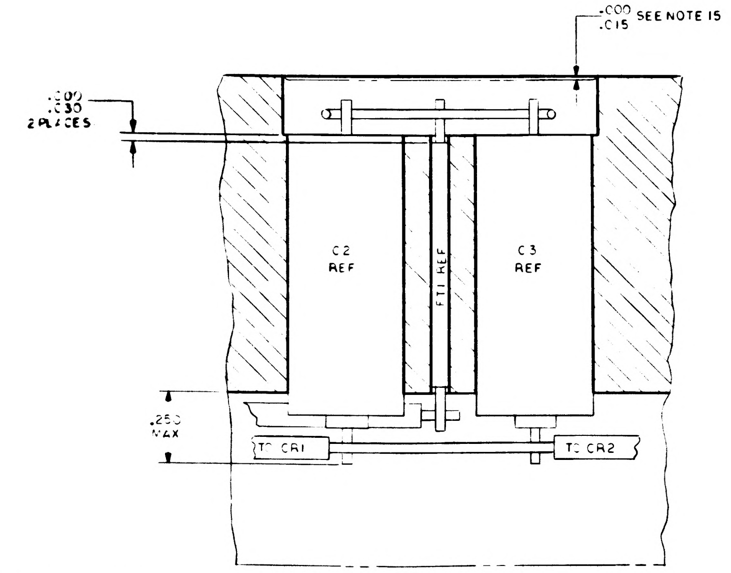
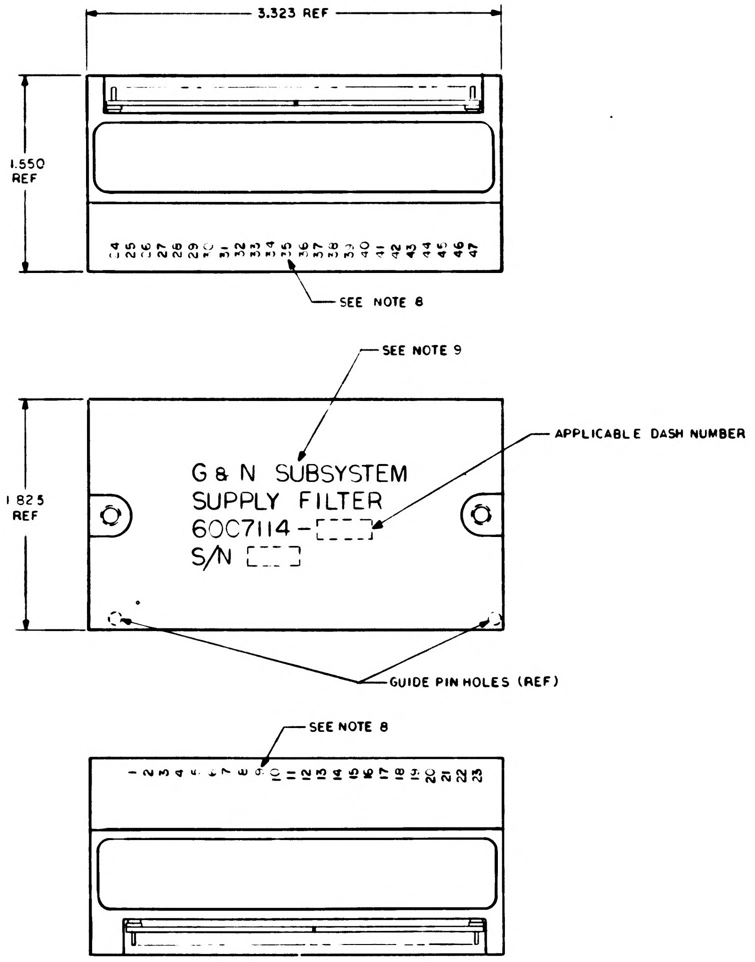
B
FT1
C 2
C 3
CR2
CR1
12
14
11


.000
.015 SEE NOTE 15
.000
.030
2 PLACES
C2
REF
FT1 REF
C3
REF
.250
MAX
TO CR1
TO CR2

SECTION B-B


3.323 REF
1.550
REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114 -
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
	6010005	SCHEMATIC	REF
2	MS 20341—10B	NUT	21
2	2008013-3	TERMINAL LUG SOLDER FLAT	20
2	1008071 —2	WASHER, FLAT	19
4	1005024 —1	WASHER, INSULATOR	18
2	2008020—1	BUSHING, INSULATOR	17
AR	QQ-W-343 TYPE S	WIRE, ELEC COPPER, AWG 18, SOFT TIN COATED	16
AR	1010848 —2	WIRE, ELEC	15
AR	1006757 —9	WIRE, ELEC	14
AR	1006757 —1	WIRE, ELEC	13
3	1008540 —12	GASKET, CONNECTOR MINIATURE	12
1	1008540 —11	GASKET, CONNECTOR MINIATURE	11
AR	1006776 —18	INSULATION SLEEVING	10
AR	1006776 —20	INSULATION SLEEVING	9
2	6008016	BUS BAR, SINGLE LUG	8
47	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	7
47	1006782 —4	CONTACT, WRAPOST-MALE, MINIATURE	6
1	2008093 —001	TERMINAL, THREADED	5
2	1010777 —2	DIODE	4
1	1008860 —1	CAPACITOR	3
2	1006755 —134	CAPACITOR	2
1	6008033	HEATSINK	1

-011 LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED 5 Oct 65
APPROVED Bluest 5 Oct 65
APPROVED
APPROVED MIT W. Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

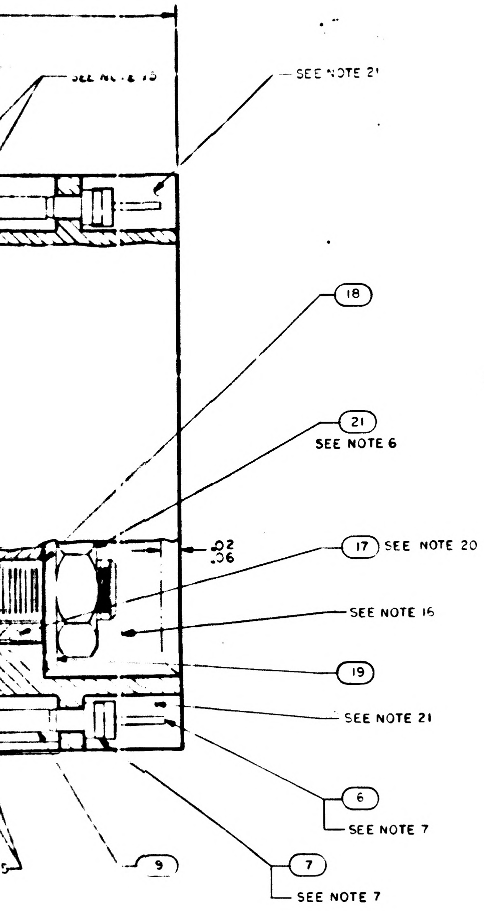
G & N SUBSYSTEM
SUPPLY FILTER
MODULE ASSY

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007114
SCALE 5/1
SHEET 1 OF 1

6007114 C

3H

3/6007114


SEE NOTE 21
18
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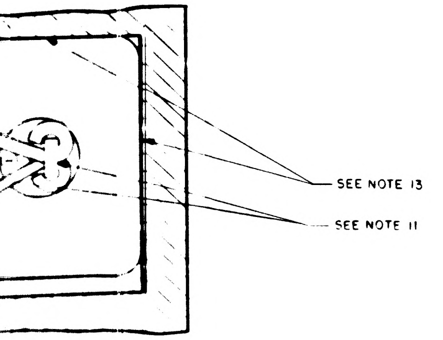
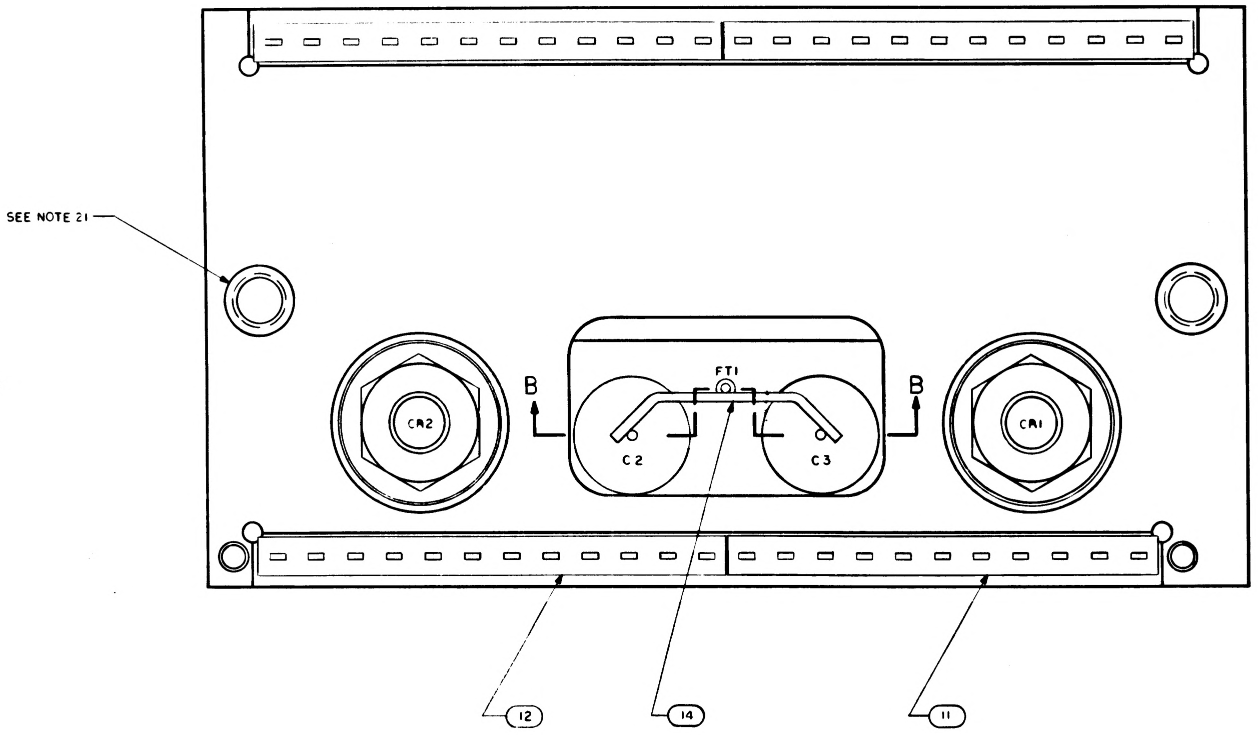
SEE NOTE 6
.02
.06
17 SEE NOTE 20
SEE NOTE 15
19
SEE NOTE 21
6
SEE NOTE 7
9
7
SEE NOTE 7


SEE NOTE 13
SEE NOTE 11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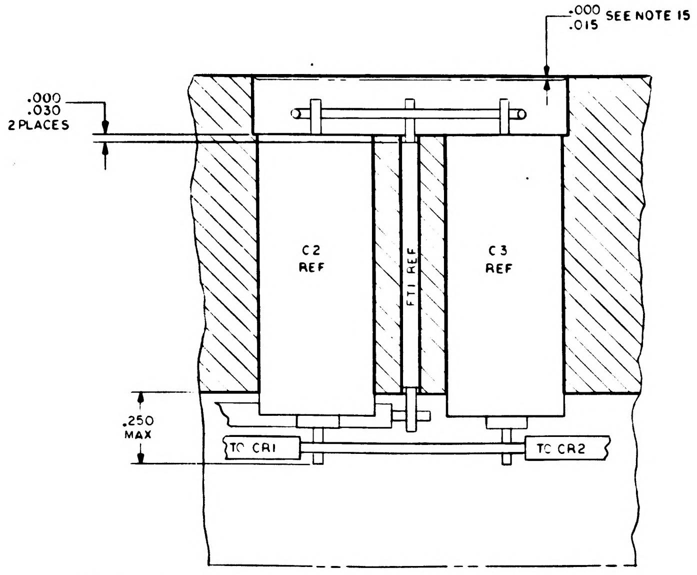
FT1
C2
C3
B
B
CR1
12
14
11


.000
.015 SEE NOTE 15
.000
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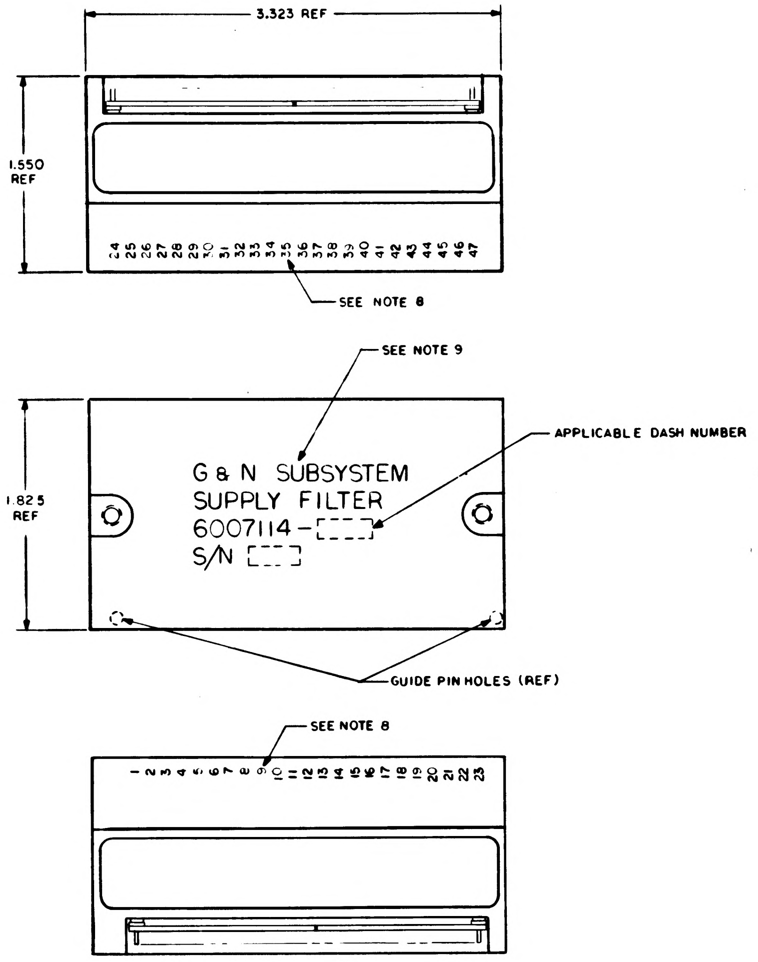
2 PLACES
C2
REF
FT1 REF
C3
REF
.250
MAX
TO CR1
TO CR2

SECTION B-B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1.550
REF
24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
SEE NOTE 8
SEE NOTE 9
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
APPLICABLE DASH NUMBER
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS

SCALE 2/1

☒	60100
2	MS 203
2	20080
2	10060
4	10050
2	20080
AR	QG-W-3
AR	101084-
AR	100675
AR	100675
3	100854
1	100854
AR	10067
AR	100677
2	600801
47	10067
47	1006782
1	200809
2	1010777
1	100886
2	100675
1	600803
QTY REQ	PA IDEN
-011	

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ± .02 .XXX ± .005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL

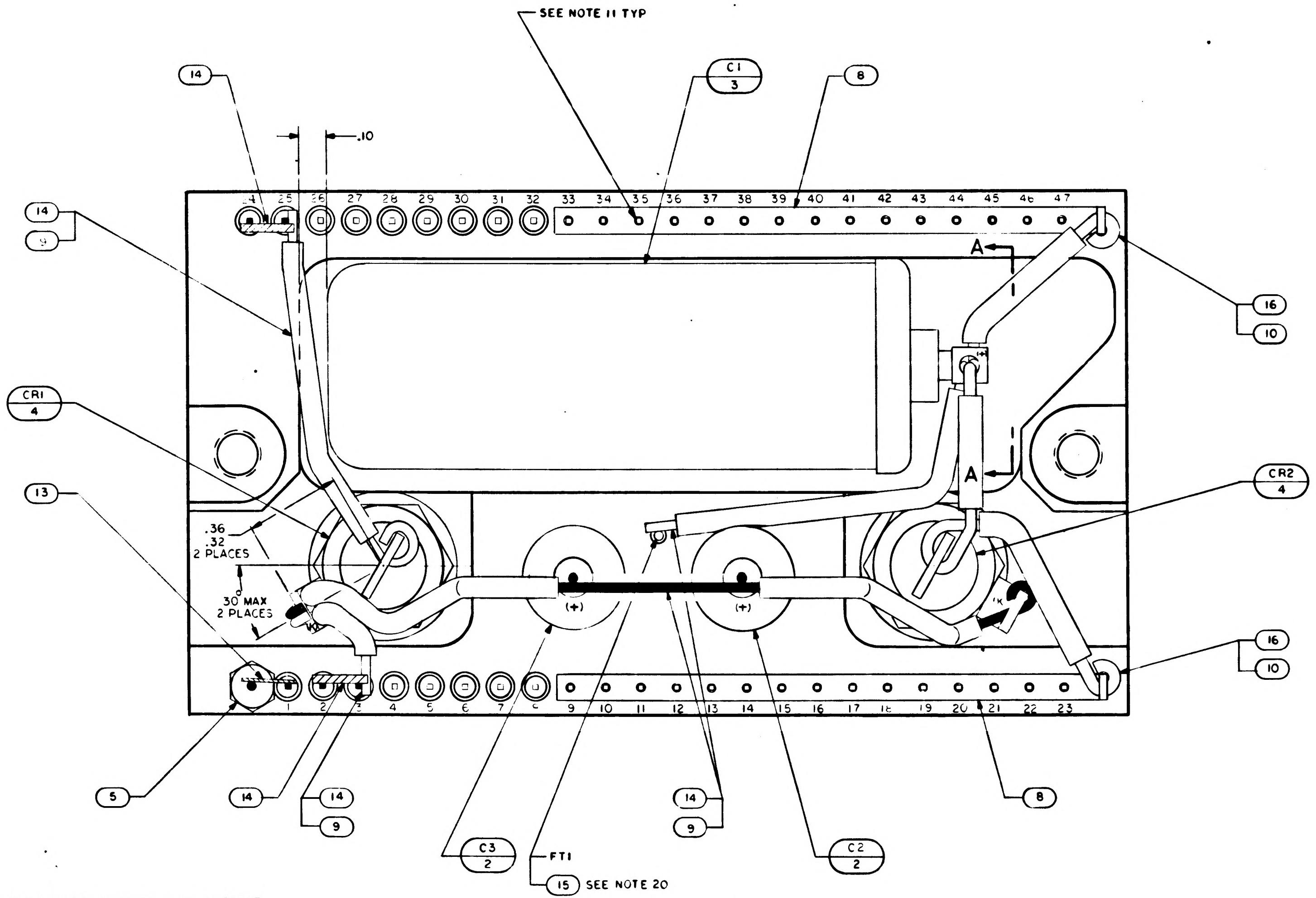
MI
INSTRUMENT
CAMBRI

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT

6007114	C

2/6007114

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


SEE NOTE 11 TYP
14
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C1
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24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
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A
16
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CR1
4
CR2
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13
.36
.32
2 PLACES
30° MAX
2 PLACES
K
(+)
(+)
K
16
10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
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C3
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FT1
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C2
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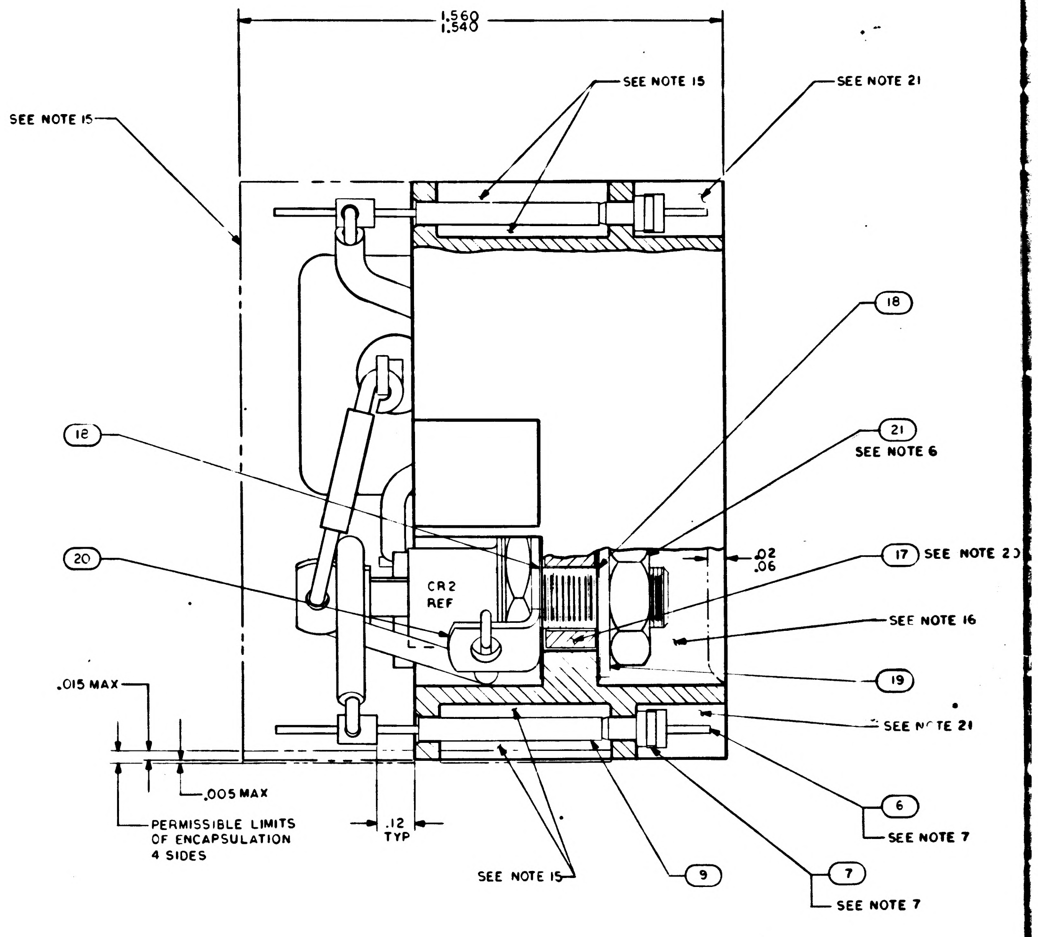
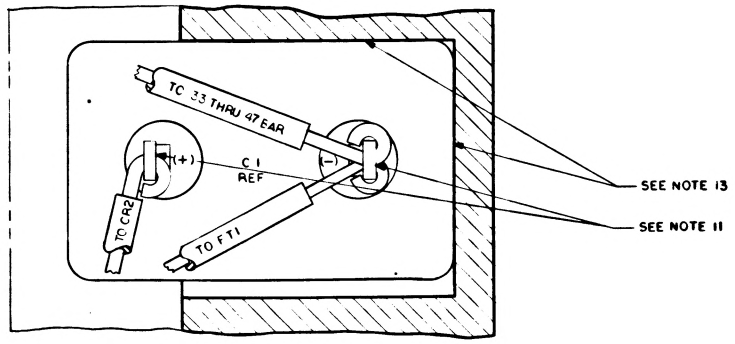

1.560
1.540
SEE NOTE 15
SEE NOTE 15
SEE NOTE 21
18
12
21
SEE NOTE 6
20
CR2
REF
.02
.06
17 SEE NOTE 2
SEE NOTE 16
19
.015 MAX
SEE NOTE 21
.005 MAX
PERMISSIBLE LIMITS
OF ENCAPSULATION
4 SIDES
.12
TYP
6
SEE NOTE 7
SEE NOTE 15
9
7
SEE NOTE 7

NOTES:

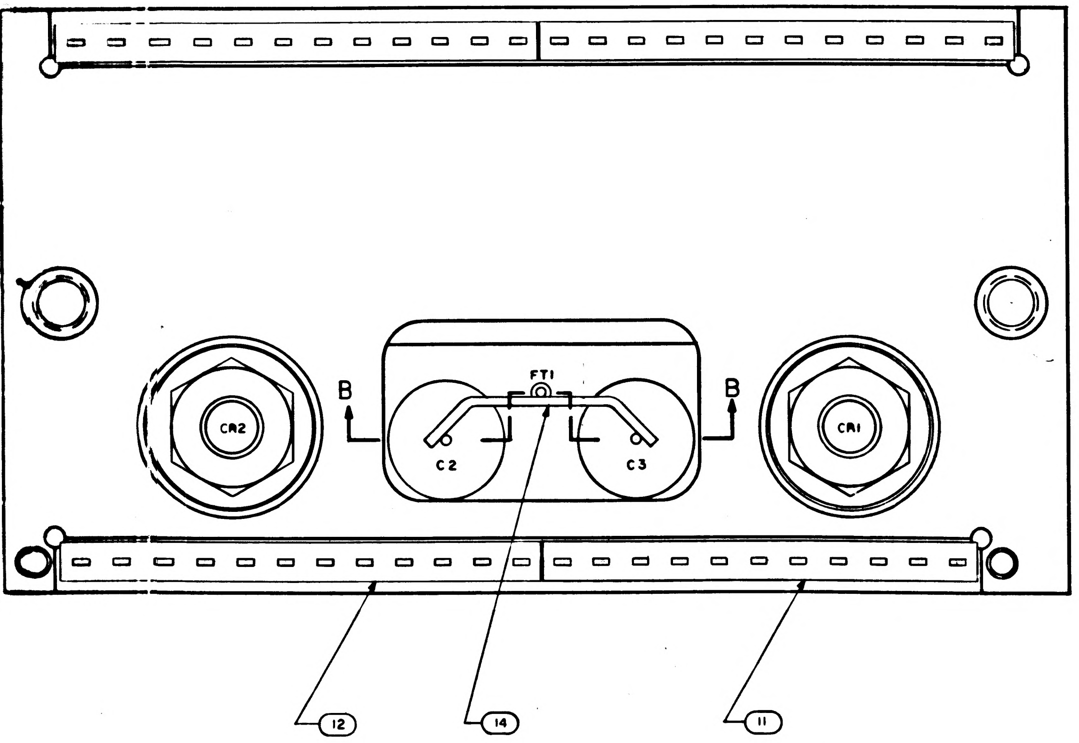
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. + DENOTES POSITIVE SIDE OF CAPACITOR
4. K DENOTES CATHODE SIDE OF DIODE
5. MOUNTING TORQUE FOR FIND NO.5 TO BE 15-20 INCH OUNCES
6. MOUNTING TORQUE FOR FIND NO.21 TO BE 12-14 INCH POUNDS
7. ASSEMBLE FIND NO.6 AND FIND NO.7 TO FIND NO.1 PER ND 1002136
8. MARK .060/.100 HIGH WHITE CHARACTERS PER ND 1002019 CENTRALIZE AS SHOWN
9. MARK .100/.140 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
10. WELD PER ND 1002005
11. SOLDER PER ND 1002071
12. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
13. BOND FIND NO.3 TO FIND NO.1 PER ND 1002004, TYPE I. CURE TIME 60 MINUTES
14. APPLY SEALING COMPOUND MIL-S-22473 GRADE AV TO FIND NO.21
15. ENCAPSULATE PER ND 1002002. REMOVE FLASHING
16. ENCAPSULATE PER ND 1002117
17. BLACK DOT AND CROSSHATCHED WIRING INDICATES UPPER LEVEL WIRING
18. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
19. BLACK DOT AND BLACK WIRING INDICATES SPECIAL LEVEL WIRING
20. STAKE FIND NO.2, 17 AND FT1 TO FIND NO.1 PER ND100200[illegible], METHOD J
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING [illegible]-92 PRIMER AND 1002809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT
24. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007114


TO 33 THRU 47 EAR
(+)
C1
REF
(-)
TO CR2
TO FT1
SEE NOTE 13
SEE NOTE 11

SECTION A-A

REVISIONS 23060

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED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CR1
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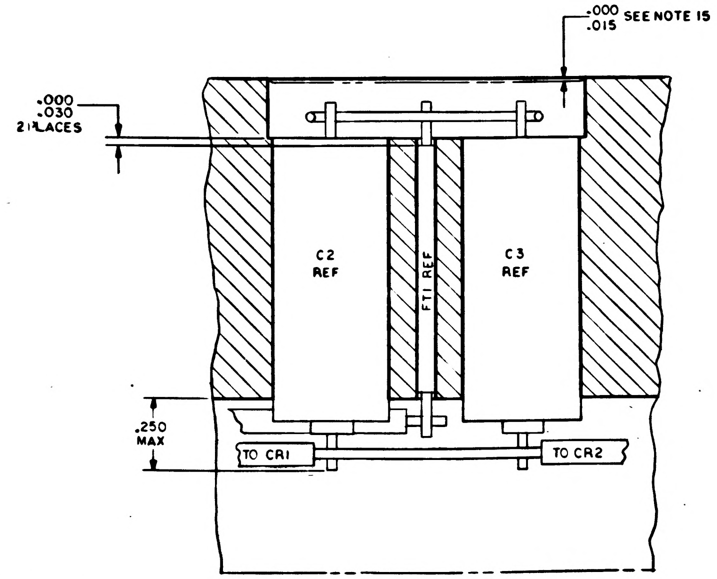
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FT1 REF
C3
REF
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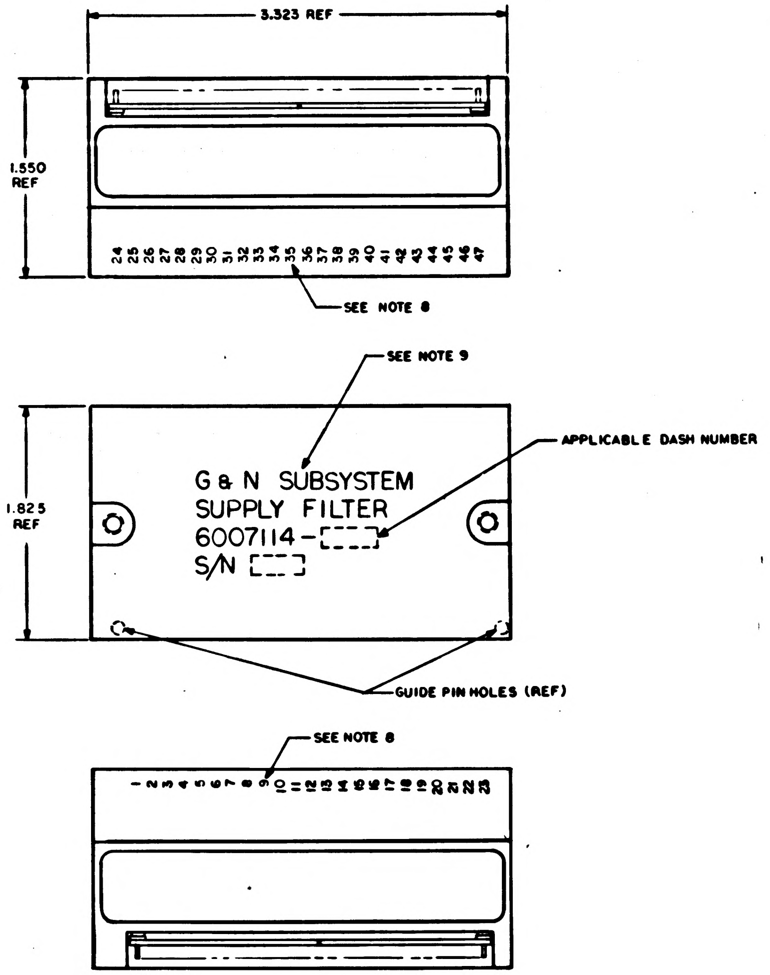
MAX
TO CR1
TO CR2

SECTION B-B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SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114 -
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

3H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6010005	SCHEMATIC	REF
2	MS 20341—10B	NUT	21
2	2008013-3	TERMINAL LUG SOLDER FLAT	20
2	1008071 —2	WASHER, FLAT	19
4	1008024 —1	WASHER, INSULATOR	18
2	2008020—1	BUSHING, INSULATOR	17
AR	QQ-W-343 TYPE S	WIRE, ELEC COPPER, AWG 18, SOFT TIN COATED	16
AR	1010848 —4	WIRE, ELEC	15
AR	1006757 —9	WIRE, ELEC	14
AR	1006757 —1	WIRE, ELEC	13
3	1008540 —12	GASKET, CONNECTOR MINIATURE	12
1	1008540 —11	GASKET, CONNECTOR MINIATURE	11
AR	1006776 —18	INSULATION SLEEVING	10
AR	1006776 —20	INSULATION SLEEVING	9
2	6008016	BUS BAR, SINGLE LUG	8
47	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	7
47	1006782 —4	CONTACT, WRAPOST-MALE, MINIATURE	6
1	2008093 —001	TERMINAL, THREADED	5
2	1010777 —2	DIODE	4
1	1010637 —1	CAPACITOR	3
2	1006755 —134	CAPACITOR	2
1	6008033	HEATSINK	1
-011	LIST OF MATERIALS		

6007114

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

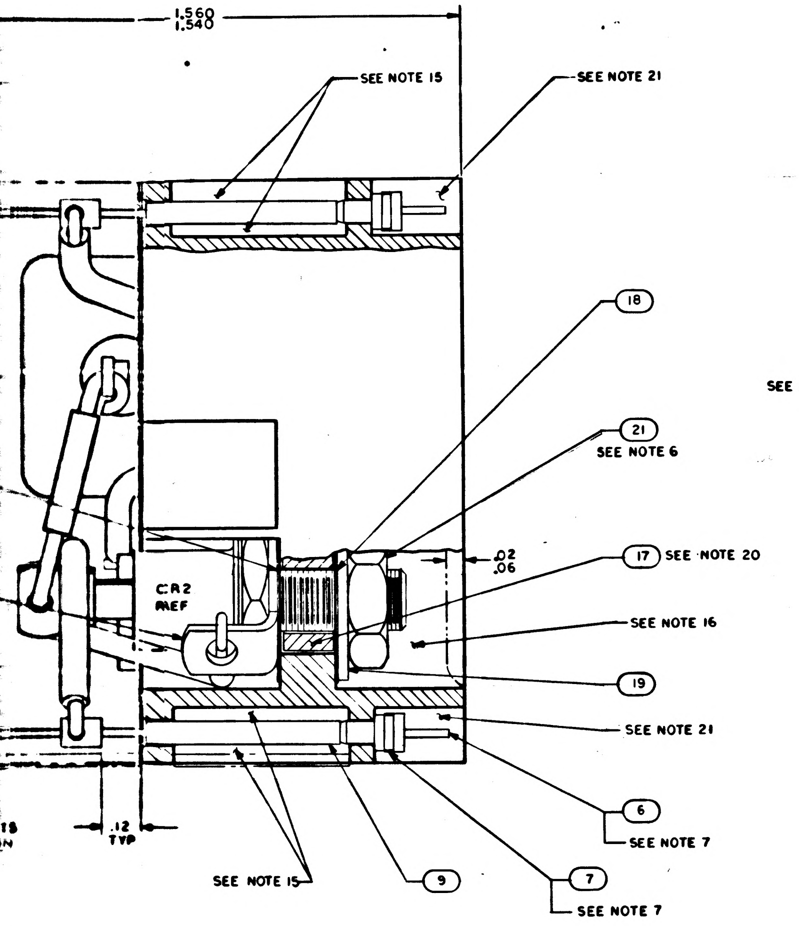
DRAWN [illegible] 5 Oct 65
CHECKED [illegible] 5 Oct 65
APPROVED [illegible] 5 Oct 65
APPROVED [illegible] 7 Oct 65
APPROVED MIT W Kupfer 10 Oct 65
NOT REQUIRED PER LETTER
APPROVED NASA PP7-65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N SUBSYSTEM
SUPPLY FILTER
MODULE ASSY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007114
SCALE 5/1
SHEET 1 OF 1

6007114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1.540
SEE NOTE 15
SEE NOTE 21
18
21
SEE NOTE 6
17 SEE NOTE 20
.02
.06
CR2
REF
SEE NOTE 16
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SEE NOTE 21
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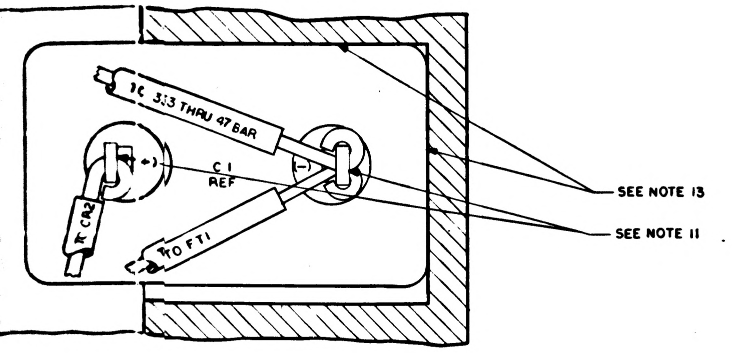
SEE NOTE 7
7
SEE NOTE 7
9
SEE NOTE 15
.12
TYP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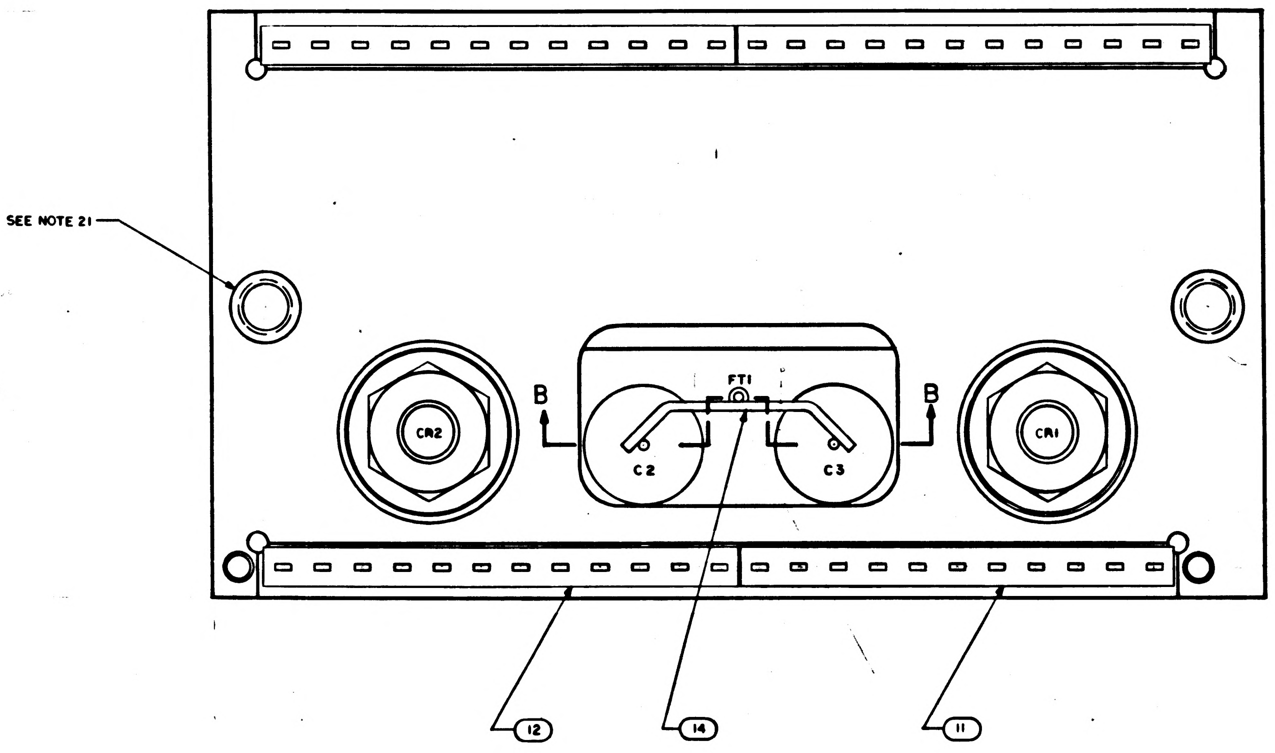
REF
TO CR2
TO FT1
SEE NOTE 13
SEE NOTE 11

SECTION A-A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CR2
CR1
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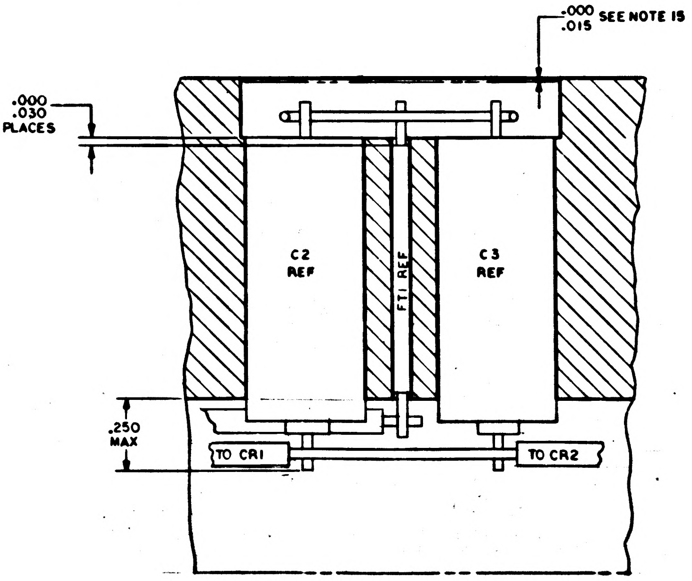
11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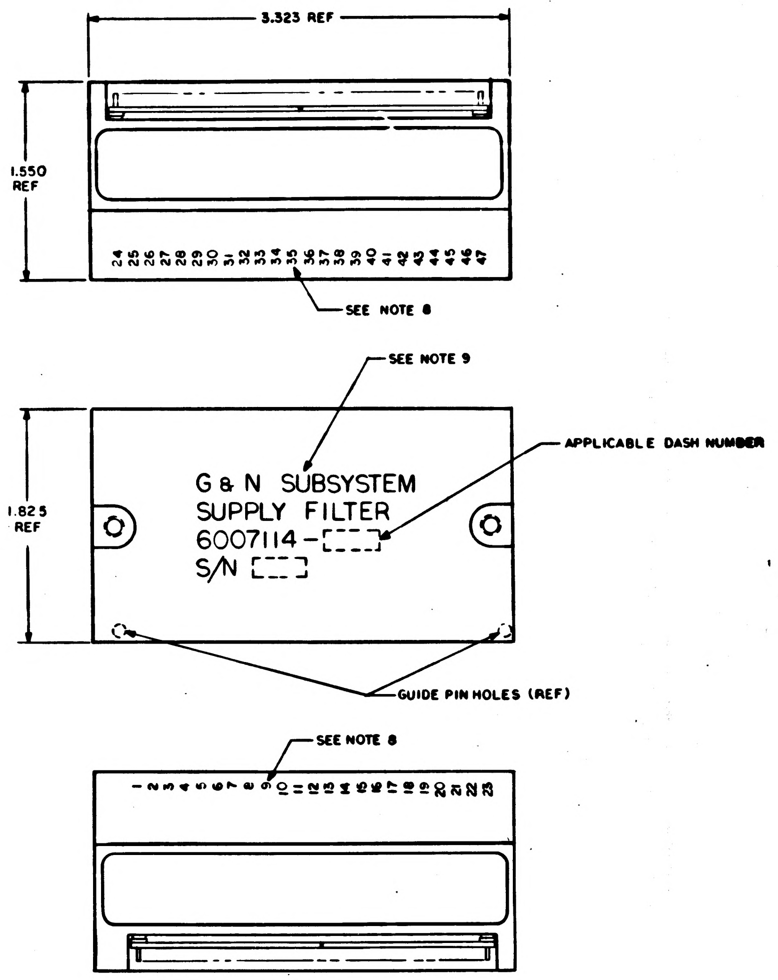
C2
REF
FT1 REF
C3
REF
.250
MAX
TO CR1
TO CR2

6007114

SECTION B-B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REF
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SEE NOTE 8
SEE NOTE 9
APPLICABLE DASH NUMBER
1.825
REF
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
GUIDE PIN HOLES (REF)
SEE NOTE 8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

MARKING VIEWS
SCALE 2/1

6007200	
NEXT ASSY	USED ON
APPLICATION	

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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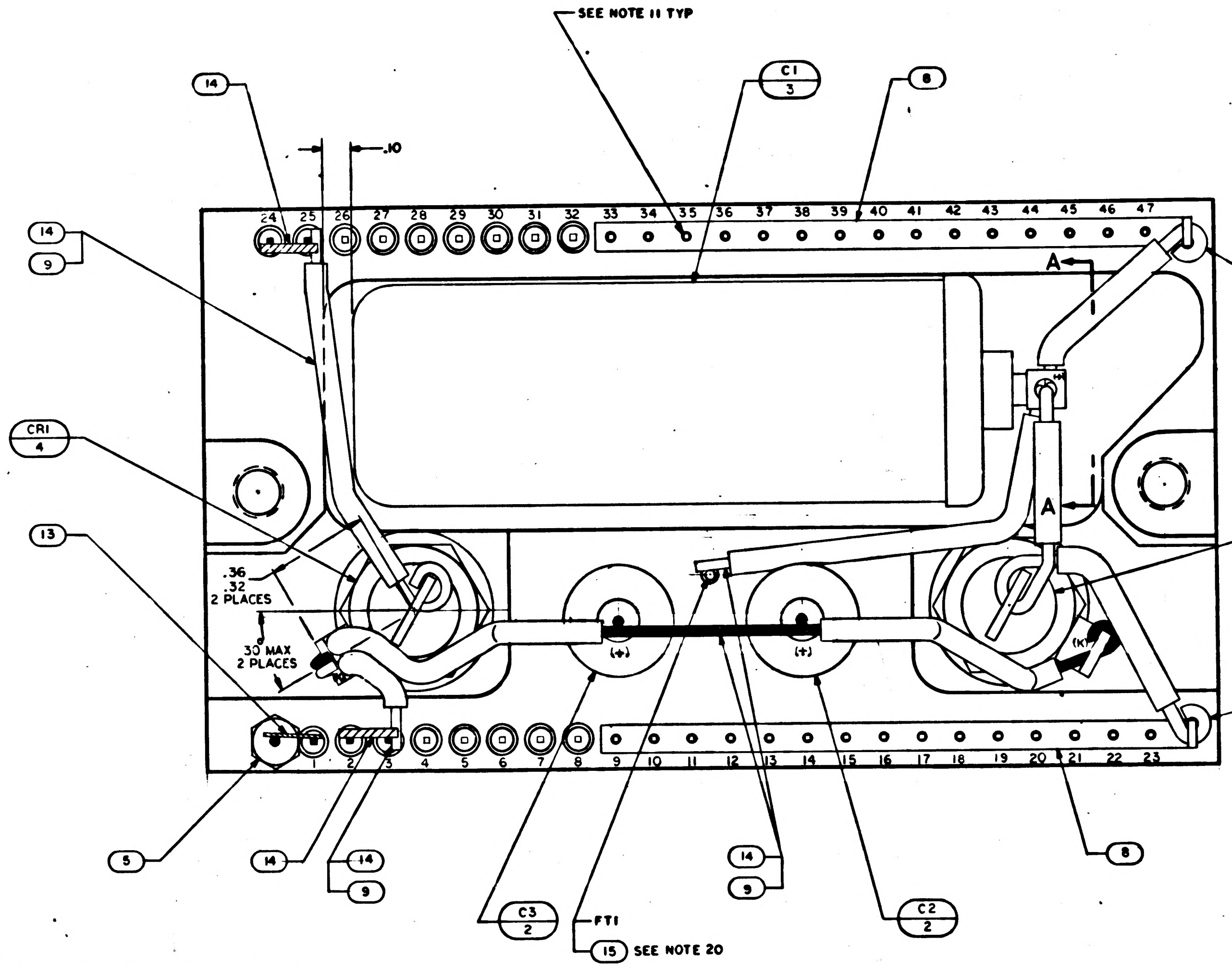
SEE NOTE 11 TYP
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24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
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CR1
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CR2
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2 PLACES
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2 PLACES
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
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C3
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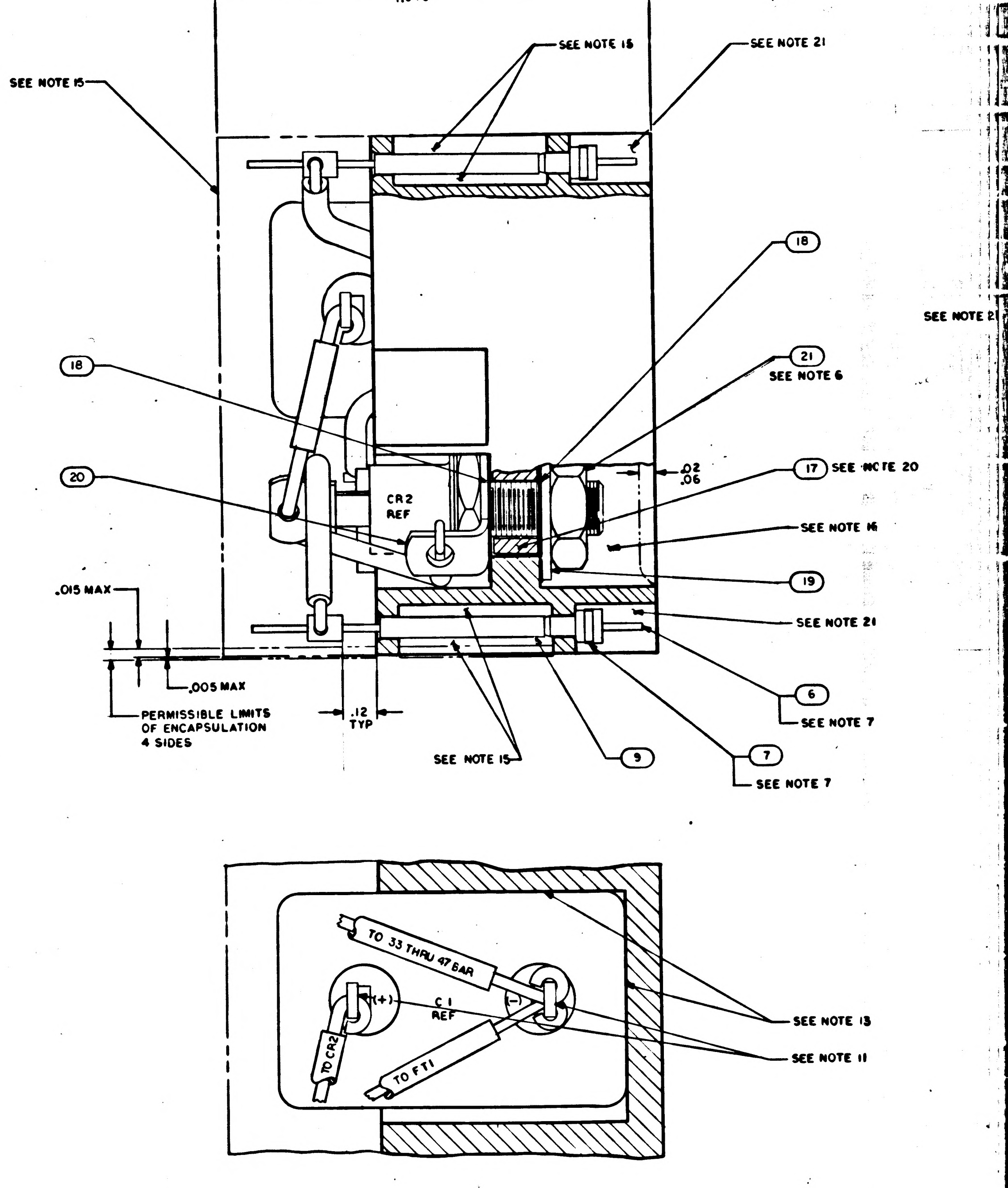
FT1
15 SEE NOTE 20
C2
2

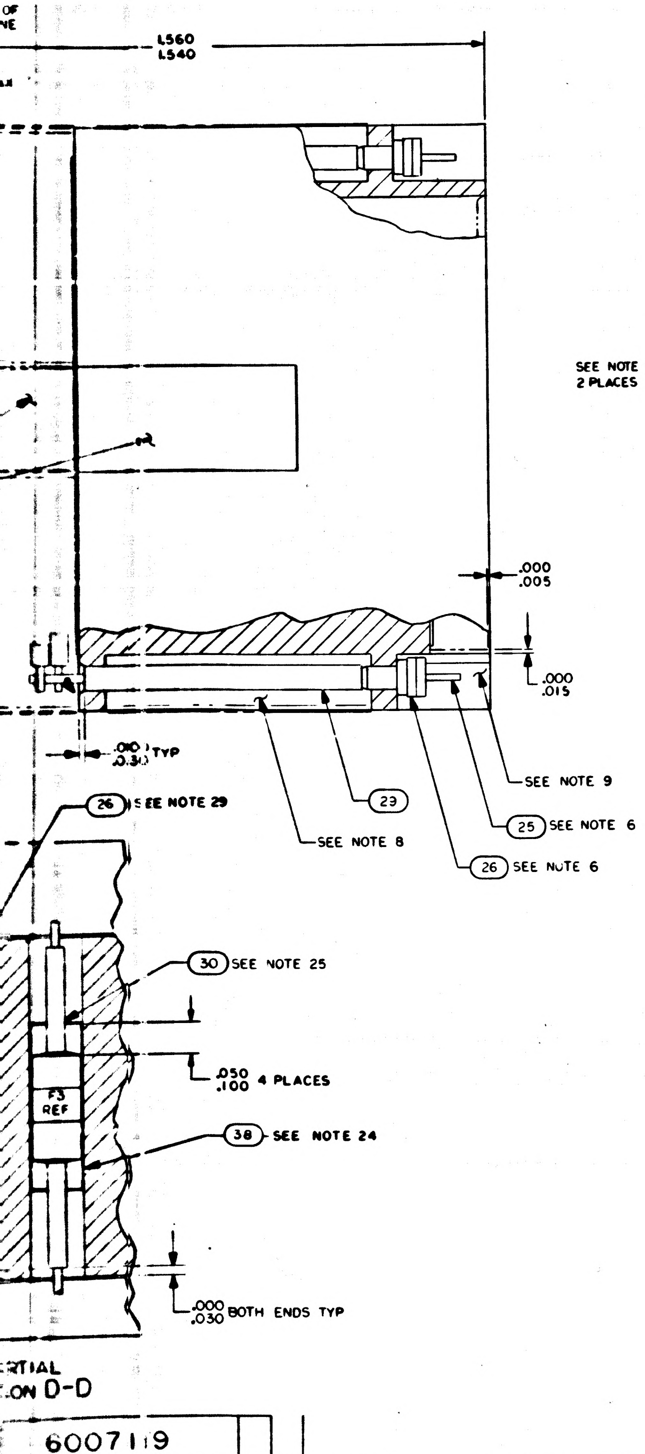

1.560
1.540
SEE NOTE 15
SEE NOTE 15
SEE NOTE 21
SEE NOTE 2
18
18
21
SEE NOTE 6
20
CR2
REF
.02
.06
17 SEE NOTE 20
SEE NOTE 16
19
SEE NOTE 21
.015 MAX
.005 MAX
PERMISSIBLE LIMITS
OF ENCAPSULATION
4 SIDES
.12
TYP
SEE NOTE 15
9
6
SEE NOTE 7
7
SEE NOTE 7
TO 33 THRU 47 BAR
(+)
C1
REF
(–)
TO CR2
TO FT1
SEE NOTE 13
SEE NOTE 11

SECTION A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AR DENOTES AS REQUIRED
3. + DENOTES POSITIVE SIDE OF CAPACITOR
4. K DENOTES CATHODE SIDE OF DIODE.
5. MOUNTING TORQUE FOR FIND NO.5 TO BE 15-20 INCH OUNCES
6. MOUNTING TORQUE FOR FIND NO.21 TO BE 12-14 INCH POUNDS
7. ASSEMBLE FIND NO.6 AND FIND NO.7 TO FIND NO.1 PER ND 1002136
8. MARK .060/.100 HIGH WHITE CHARACTERS PER ND 1002019 CENTRALIZE AS SHOWN
9. MARK .100/.140 HIGH WHITE CHARACTERS PER ND 1002019 AND SERIALIZE PER ND 1002023. CENTRALIZE AS SHOWN
10. WELD PER ND 1002005
11. SOLDER PER ND 1002071
12. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND 1002069
13. BOND FIND NO.3 TO FIND NO 1 PER ND 1002187 TYPE I
14. APPLY SEALING COMPOUND MIL-S-22473 GRADE AV TO FIND NO.21
15. ENCAPSULATE PER ND 1002002. REMOVE FLASHING
16. ENCAPSULATE PER ND 1002117
17. BLACK DOT AND CROSSHATCHED WIRING INDICATES UPPER LEVEL WIRING
18. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
19. BLACK DOT AND BLACK WIRING INDICATES SPECIAL LEVEL WIRING
20. STAKE FIND NO.2, 17 AND FT1 TO FIND NO.1 PER ND 1002009, METHOD J
21. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
22. CLEAN MODULE WHERE POSSIBLE BY DEGREASING WITH FREON AND ISO-PROPYL ALCOHOL PRIOR TO ENCAPSULATION
23. EXCEPT FOR THE MODULE MOUNTING SURFACE, PAINT ALL SURFACES PER ND 1002279, USING 1010992 PRIMER AND 1008809-4 PAINT. CONNECTOR PIN-BLADES AND INSULATORS TO BE FREE OF PAINT
24. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL THE REQUIREMENTS OF PS 6007114

REVISIONS		2/3/7				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



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NE
L560
L540
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26 SEE NOTE 29
23
SEE NOTE 8
25 SEE NOTE 6
26 SEE NOTE 6
SEE NOTE 9
30 SEE NOTE 25
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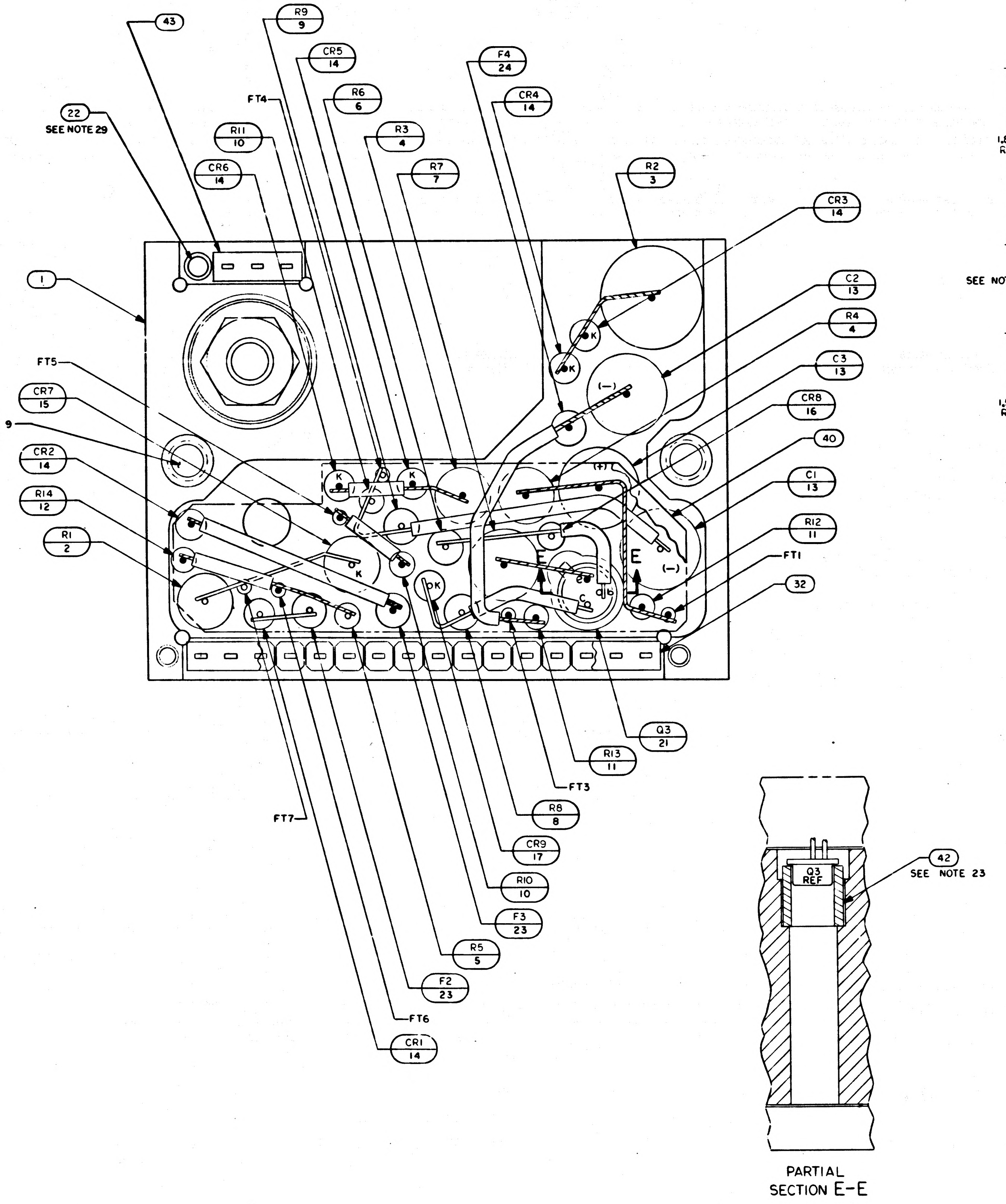
.100 4 PLACES
F3
REF
38 SEE NOTE 24
.000
.030 BOTH ENDS TYP

ERTIAL
ON D-D



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CR4 14
FT4
R6 6
R3 4
R11 10
R7 7
22 SEE NOTE 29
CR6 14
R2 3
CR3 14
1
C2 13
R4 4
C3 13
FT5
CR7 15
CR8 16
40
SEE NOTE 9 2 PLACES
CR2 14
C1 13
R14 12
R12 11
FT1
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32
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Q3 21
R13 11
FT3
R8 8
CR9 17
R10 10
F3 23
FT7
R5 5
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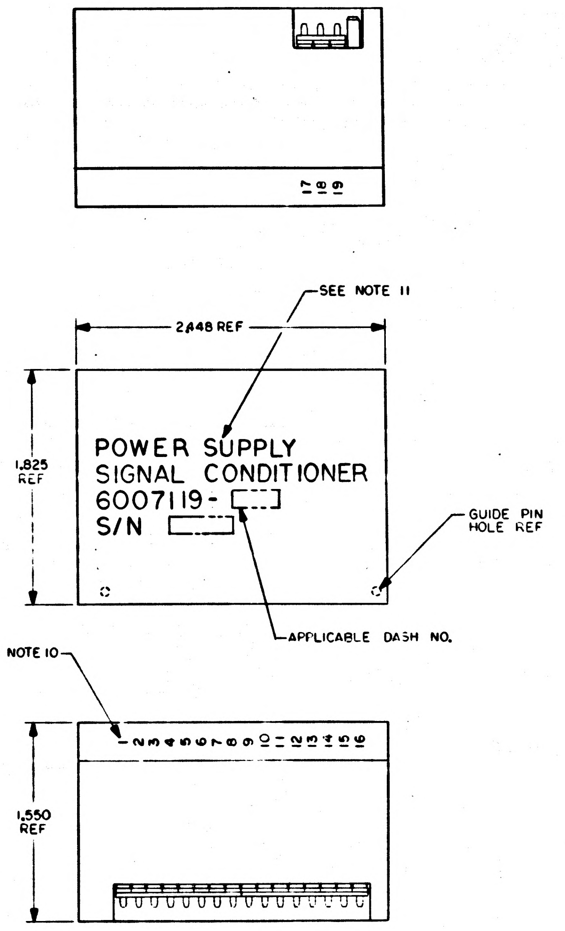
FT6
CR1 14
Q3 REF
42 SEE NOTE 23

PARTIAL SECTION E-E



17 18 19
SEE NOTE 11
2.448 REF
1.825 REF
POWER SUPPLY
SIGNAL CONDITIONER
6007119-
S/N
GUIDE PIN HOLE REF
APPLICABLE DASH NO.
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1.550 REF

MARKING VIEWS
SCALE 2/1

☒	6C10003	SCHEMATIC	REF
1	1008540-3	GASKET	43
1	1008025-1	INSULATOR, BUSHING	42
1	2008093-000	TERMINAL, THREADED	41
1	2008163	INSULATOR, BOTTOM	40
1	2008162	INSULATOR, TOP	39
1	MIL-I-15126	INSUL TAPE TYPE MFT 2.5 1/2 INCH WIDE	38
1	MS20341-10B	NUT, HEX	37
1	1008071-2	WASHER, FLAT	36
1	2008020-1	BUSHING, INSULATOR	35
2	1008024-1	WASHER, INSULATOR	34
1	1008025-2	INSULATOR, BUSHING	33
2	1008540-8	GASKET	32
AR	1006776-22	INSULATION SLEEVING	31
AR	1006776-21	INSULATION SLEEVING	30
AR	1006776-20	INSULATION SLEEVING	29
AR	1006757-8	WIRE, ELECTRICAL	28
AR	1006757-1	WIRE, ELECTRICAL	27
19	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	26
19	1006782-5	CONTACT, WRAPOST-MALE, MINIATURE	25
1	1000170-4	FUSE	24
2	1000170-6	FUSE	23
1	1008256	PIN, POLARIZING	22
1	1010633-1	TRANSISTOR	21
1	1010269-1	TRANSISTOR	20
1	1010398-1	TRANSISTOR	19
1	1008804	TRANSFORMER	18
1	1010259	DIODE	17
1	1010372-24	DIODE	16
1	1010829-25	DIODE	15
6	1010837-001	DIODE	14
3	1006789-002	CAPACITOR	13
1	1006750-49	RESISTOR	12
2	1006750-56	↓	11
2	1006750-43		10
1	1010364-225		9
1	SEE NOTE 27		8
1	SEE NOTE 27		7
1	1010364-353		6
1	1010369-141		5
2	1010389-39		4
1	1010452-129		3
1	1010389-50	RESISTOR	2
1	2008147	HEATSINK	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-011	LIST OF MATERIALS		

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Tony Bell	7/21/65
CHECKED	A. Pendleton	7/21/65
APPROVED	Rellmert	22 JUL 65
APPROVED		7/23/65
APPROVED MIT	D. Kupfer	
APPROVED MSC		
		DATE

POWER SUPPLY
SIGNAL CONDITIONER ASSY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007119
SCALE 5/1	—	SHEET 1 OF 1

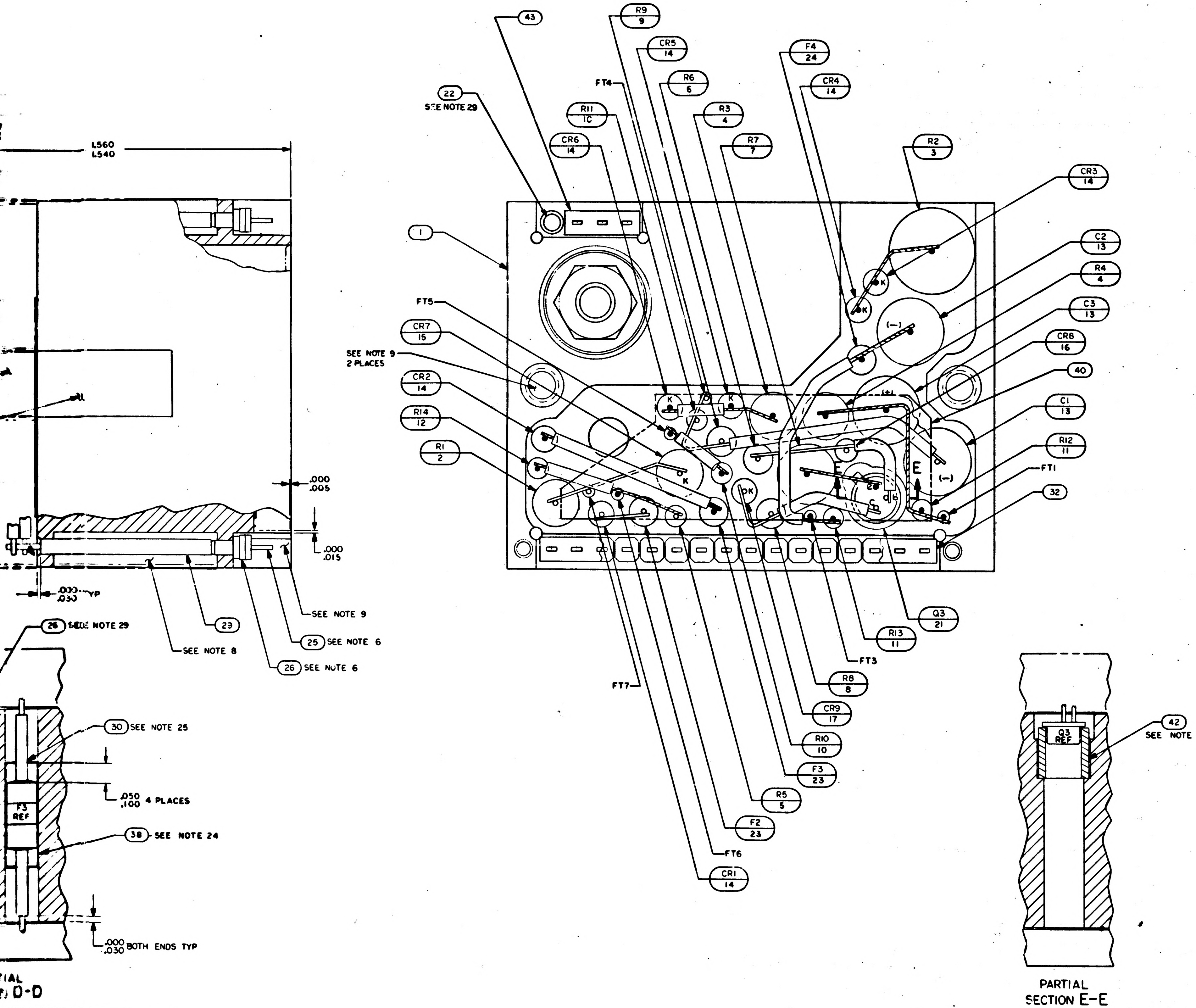
6007119

6007119

3H

E3

REVISIONS 2/317						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 22827	WCN			WK.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.000
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26 SEE NOTE 29
23
SEE NOTE 8
SEE NOTE 9
25 SEE NOTE 6
26 SEE NOTE 6
30 SEE NOTE 25
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.100 4 PLACES
F3 REF
38 SEE NOTE 24
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.030 BOTH ENDS TYP
43
22 SEE NOTE 29
R9 9
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FT4
R6 6
F4 24
CR4 14
R11 10
R3 4
CR6 14
R7 7
R2 3
CR3 14
1
C2 13
R4 4
FT5
C3 13
CR7 15
SEE NOTE 9 2 PLACES
CR8 16
40
CR2 14
C1 13
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R12 11
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FT1
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R13 11
FT3
R8 8
FT7
CR9 17
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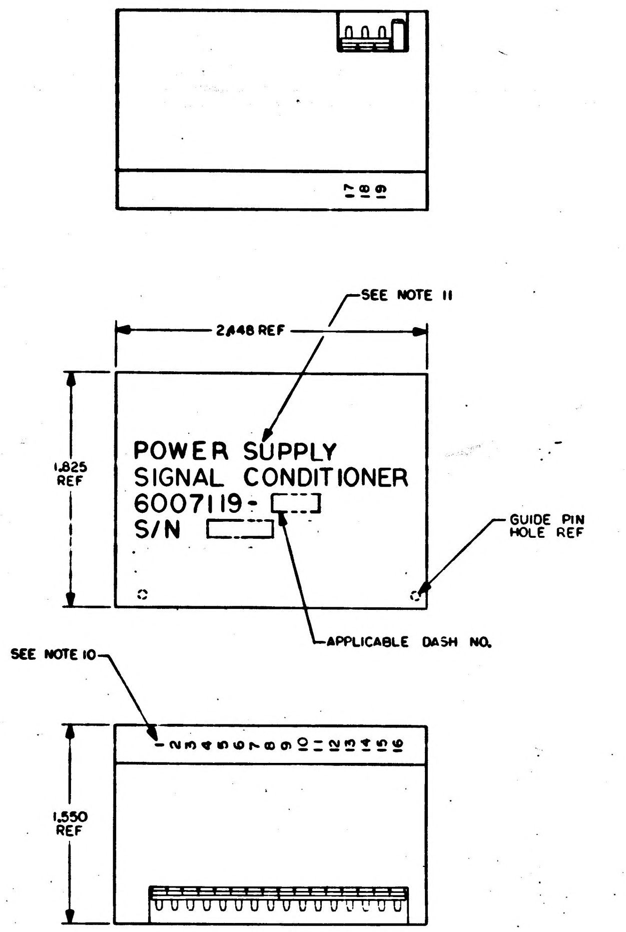
CR1 14
Q3 REF
42 SEE NOTE 23

TIAL
D-D

PARTIAL
SECTION E-E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1.825 REF
POWER SUPPLY
SIGNAL CONDITIONER
6007119-
S/N
GUIDE PIN HOLE REF
APPLICABLE DASH NO.
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1.550 REF

MARKING VIEWS
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	6C10003	SCHEMATIC	REF
1	1008540-3	GASKET	43
1	1008025-1	INSULATOR, BUSHING	42
1	2008093-000	TERMINAL, THREADED	41
1	2008163	INSULATOR, BOTTOM	40
1	2008162	INSULATOR, TOP	39
1	MIL-I-15126	INSUL TAPE TYPE MFT 2.5 1/2 INCH WIDE	38
1	MS20341-10B	NUT, HEX	37
1	1008071-2	WASHER, FLAT	36
1	2008020-1	BUSHING, INSULATOR	35
2	1008024-1	WASHER, INSULATOR	34
1	1008025-2	INSULATOR, BUSHING	33
2	1008540-8	GASKET	32
AR	1006776-22	INSULATION SLEEVING	31
AR	1006776-21	INSULATION SLEEVING	30
AR	1006776-20	INSULATION SLEEVING	29
AR	1006757-8	WIRE, ELECTRICAL	28
AR	1006757-1	WIRE, ELECTRICAL	27
19	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	26
19	1006782-5	CONTACT, WRAPOST-MALE, MINIATURE	25
1	1000170-4	FUSE	24
2	1000170-6	FUSE	23
1	1008256	PIN, POLARIZING	22
1	1010633-1	TRANSISTOR	21
1	1010269-1	TRANSISTOR	20
1	1010398-1	TRANSISTOR	19
1	1008804	TRANSFORMER	18
1	1010259	DIODE	17
1	1010372-24	DIODE	16
1	1010329-25	DIODE	15
6	1010837-001	DIODE	14
3	1006789-002	CAPACITOR	13
1	1006750-49	RESISTOR	12
2	1006750-56	↓	11
2	1006750-43		10
1	1010364-225		9
1	SEE NOTE 27		8
1	SEE NOTE 27		7
1	1010364-353		6
1	1010369-141		5
2	1010389-39		4
1	1010452-129		3
1	1010389-50	RESISTOR	2
1	2008147	HEATSINK	1

-011 LIST OF MATERIALS

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Tony Bell 7/21/65
CHECKED A. Lindstrom
APPROVED 22 Jul 65
APPROVED 22 Jul 65
APPROVED MIT W Kupfer
APPROVED MSC

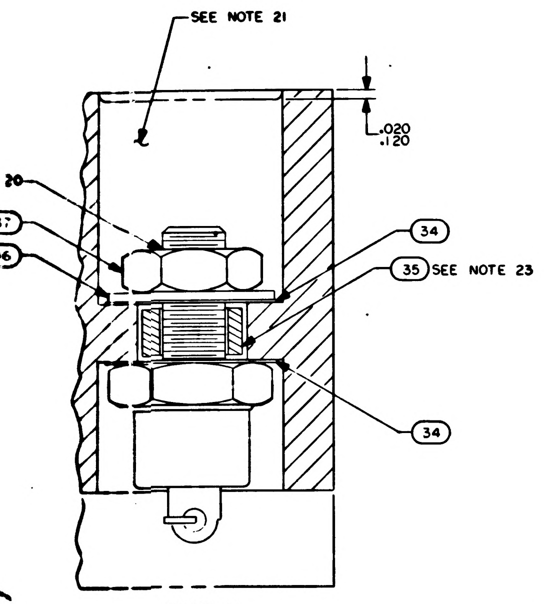
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY
SIGNAL CONDITIONER ASSY

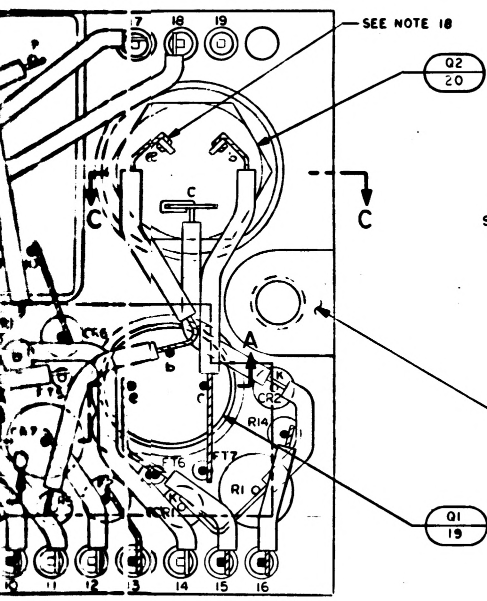
CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007119
SCALE 5/1 SHEET 1 OF 1

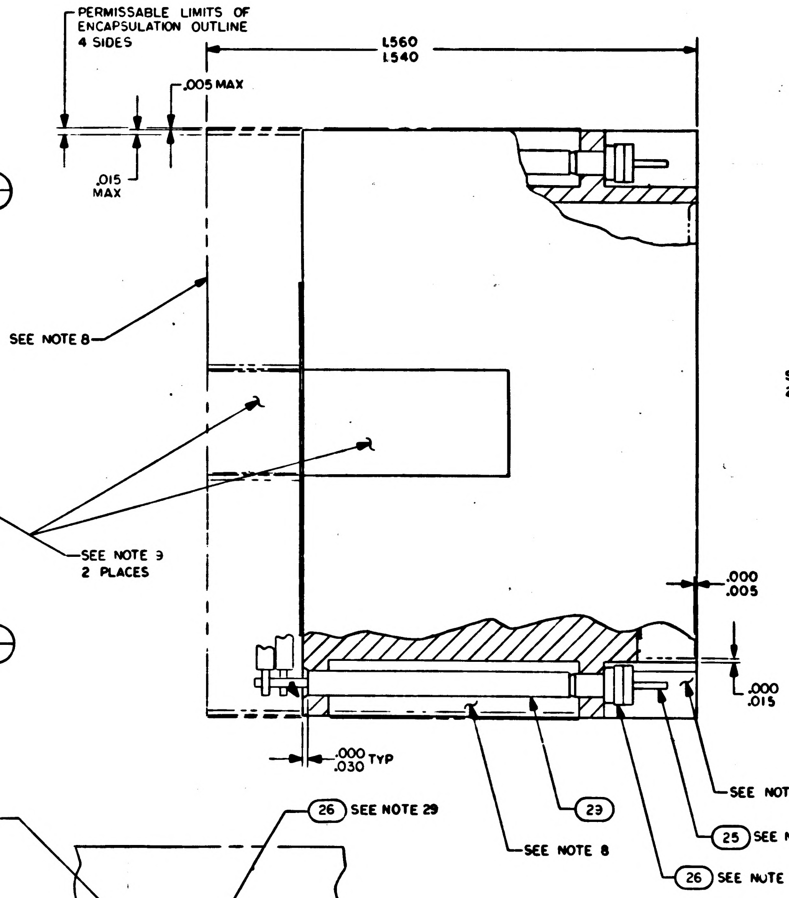
6007119 A

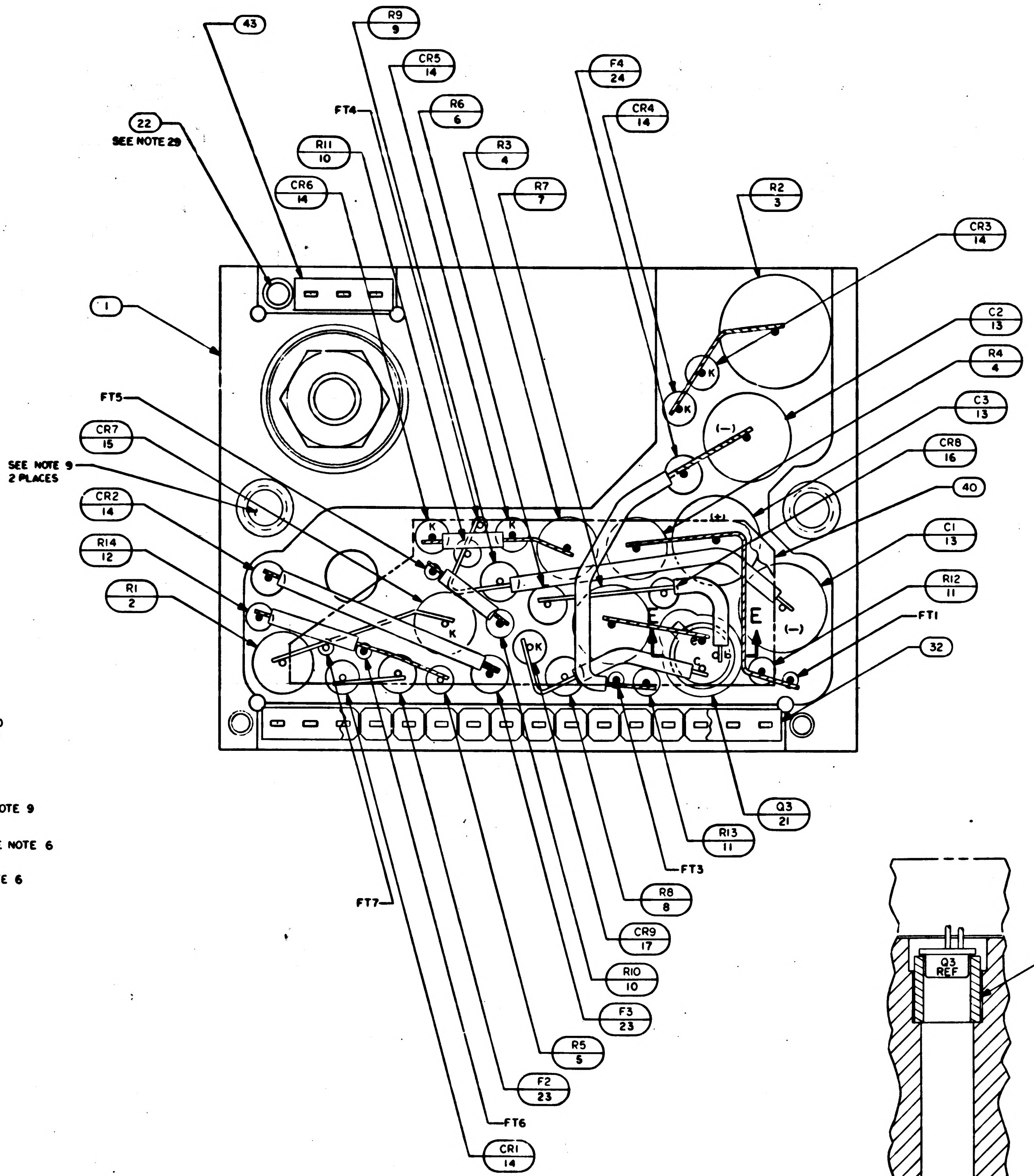
MASTER

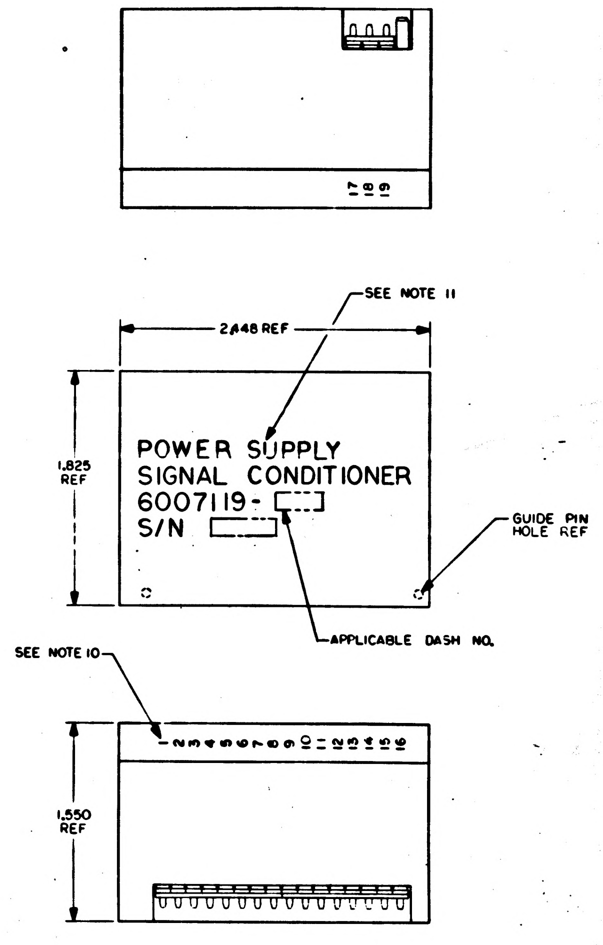

SEE NOTE 21
.020
.120
20
17
16
34
35 SEE NOTE 23
34

PARTIAL
SECTION C-C

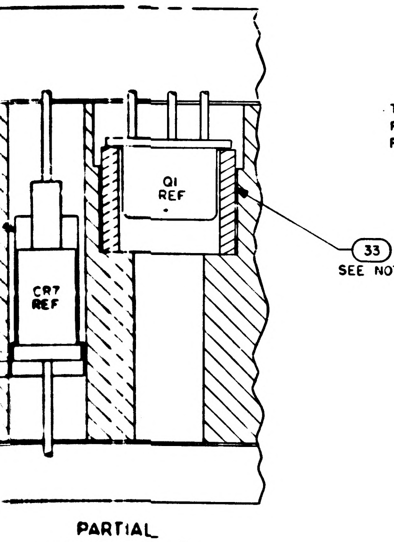

SEE NOTE 18
Q2
20
7
18
19
C
C
A
R14
R1
FT7
Q1
19
11
12
13
14
15
16


PERMISSABLE LIMITS OF ENCAPSULATION OUTLINE 4 SIDES
1.560
1.540
.005 MAX
.015 MAX
SEE NOTE 8
SEE NOTE 9 2 PLACES
.000
.005
.000
.015
.000
.030 TYP
23
SEE NOTE 9
25 SEE NOTE 6
SEE NOTE 8
26 SEE NOTE 6

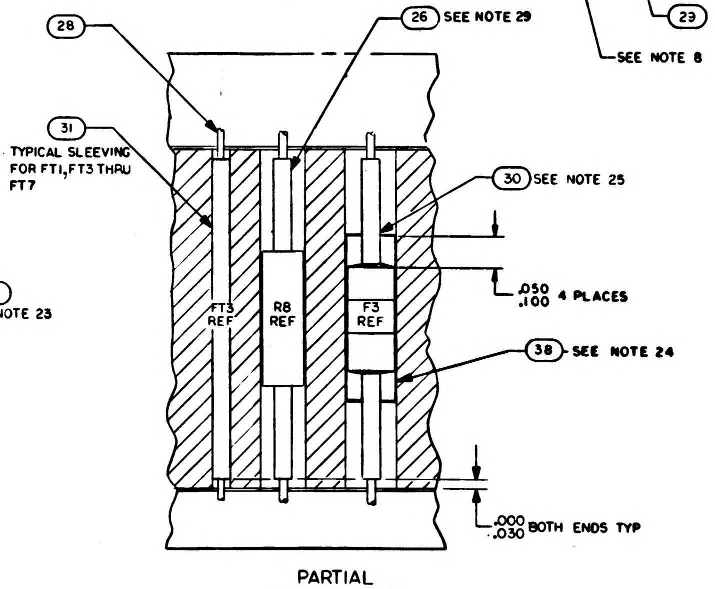

43
R9
9
CR5
14
F4
24
CR4
14
22
SEE NOTE 29
FT4
R6
6
R11
10
R3
4
CR6
14
R7
7
R2
3
CR3
14
1
C2
13
R4
4
C3
13
FT5
CR7
15
SEE NOTE 9
2 PLACES
CR8
16
40
CR2
14
R14
12
C1
13
R1
2
R12
11
FT1
32
K
E
(-)
(+)
Q3
21
R13
11
FT3
R8
8
FT7
CR9
17
R10
10
F3
23
R5
5
F2
23
FT6
CR1
14


17
18
19
SEE NOTE 11
2.448 REF
1.825 REF
POWER SUPPLY
SIGNAL CONDITIONER
6007119-
S/N
GUIDE PIN HOLE REF
APPLICABLE DASH NO.
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1.550 REF

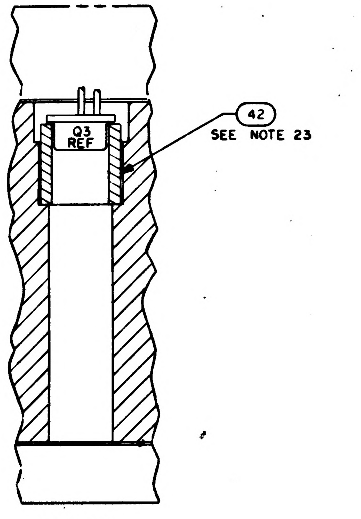
MARKING VIEWS
SCALE 2/1


Q1 REF
CR7 REF

PARTIAL
SECTION A-A


28
26 SEE NOTE 29
31
TYPICAL SLEEVING FOR FT1, FT3 THRU FT7
30 SEE NOTE 25
33
SEE NOTE 23
FT3 REF
R8 REF
F3 REF
.050
.100 4 PLACES
38 SEE NOTE 24
.000
.030 BOTH ENDS TYP

PARTIAL
SECTION D-D


42
SEE NOTE 23
Q3 REF

PARTIAL
SECTION E-E

⨯	601000
1	1008540
1	1008025
1	200809
1	2008163
1	2008162
1	MIL-I-151
1	MS20341
1	1008071
1	2009020
2	1008024
1	1008025
2	1008540
AR	100677
AR	1006776
AR	1006776
AR	1006757
AR	1006757
19	1006775
19	1006782
1	1000170
2	1000170
1	1008256
1	1010633
1	1010269
1	1010398
1	1008804
1	1010259
1	1010372
1	1010829
6	1010837
3	1006789
1	1006750
2	1006750
2	1006750
1	1010364
1	SEE NO
1	SEE NO
1	1010364
1	1010369
2	1010389
1	1010452
1	1010389
1	2008147
QTY REQD	
-011	

6007119 A

MASTER

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ±.005 ± —
DO NOT SCALE THIS DRAWING

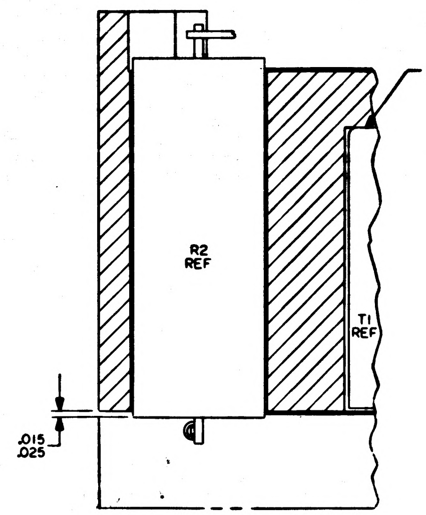
MATERIAL

—

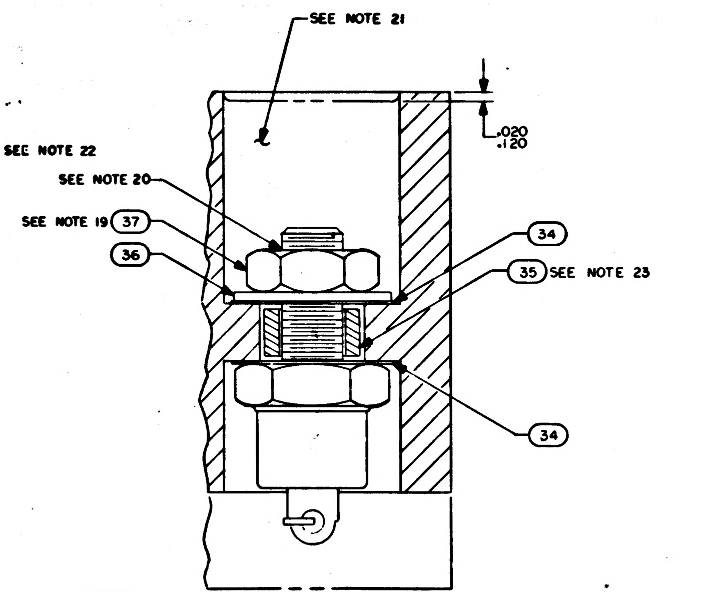
INSTRUMENT
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NSC

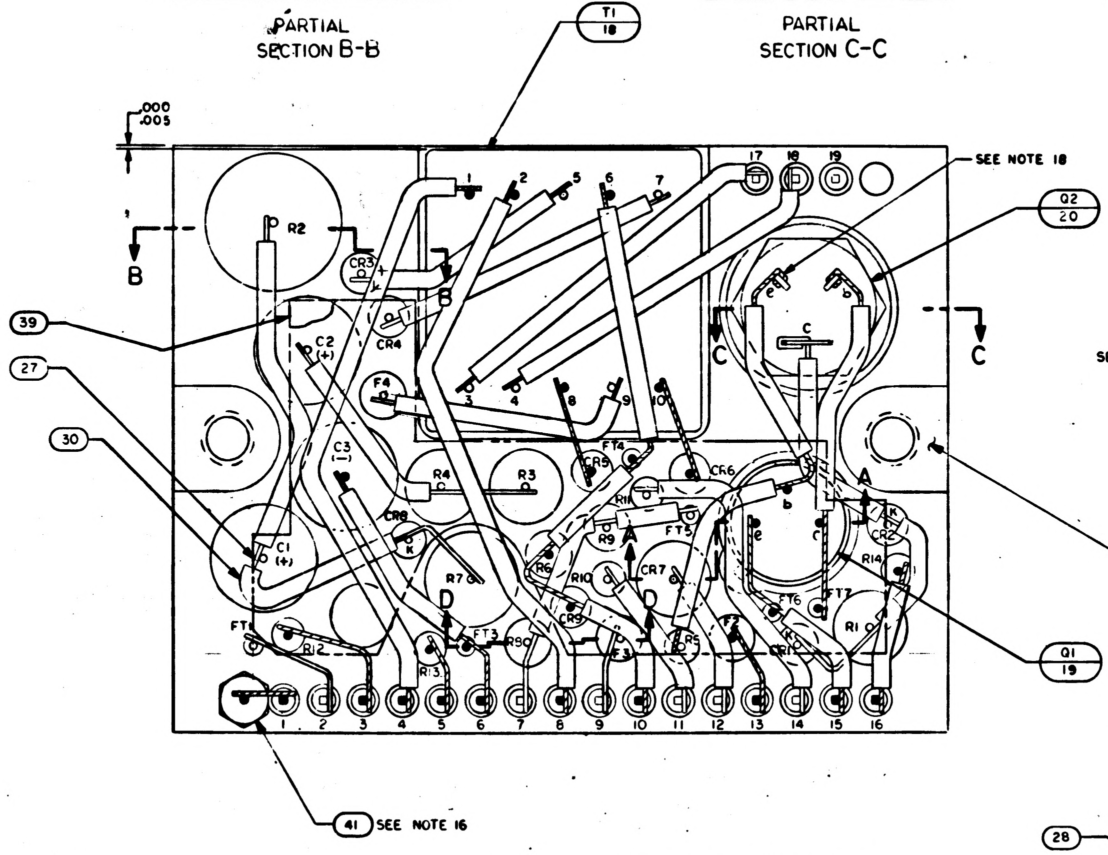
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

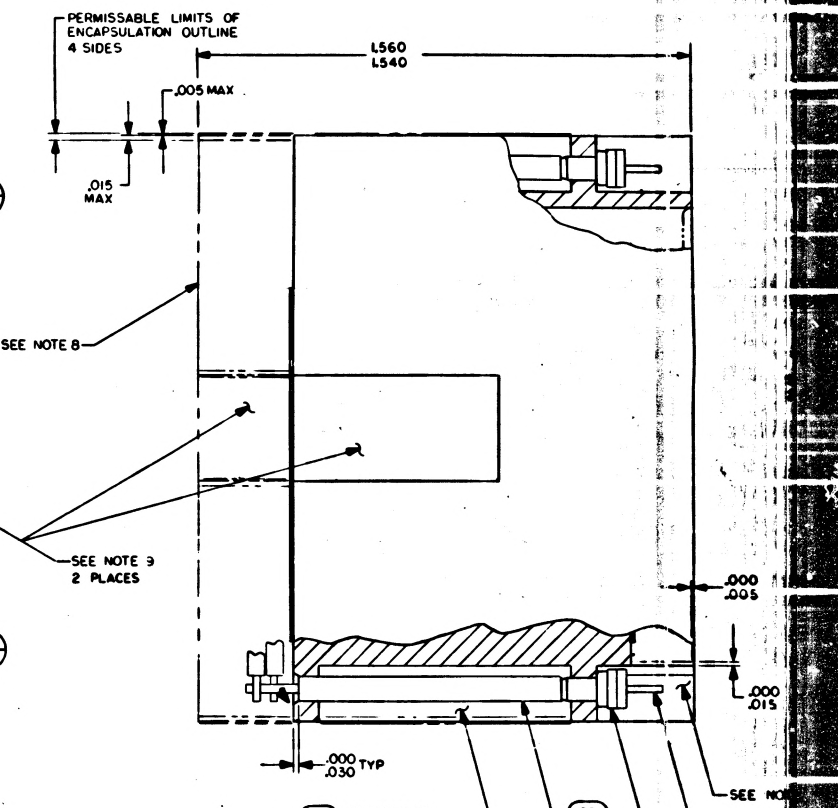

SEE NOTE 22
R2
REF
T1
REF
.015
.025

PARTIAL
SECTION B-B


SEE NOTE 21
.020
.120
SEE NOTE 20
SEE NOTE 19
37
36
34
35 SEE NOTE 23
34

PARTIAL
SECTION C-C

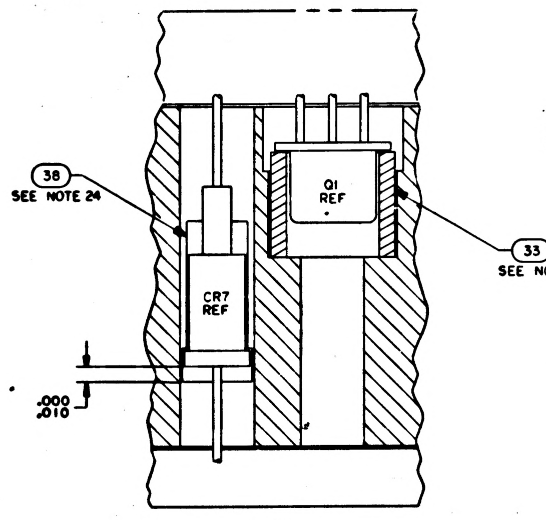

T1
18
.000
.005
SEE NOTE 18
Q2
20
R2
B
B
CR3
CR4
C2
(+)
F4
1
2
5
6
7
3
4
8
9
10
17
18
19
e
b
c
C
C
39
27
30
C3
(—)
R4
R3
CR5
FT4
CR6
R11
CR8
K
C1
(+)
R7
D
R9
A
FT5
R6
R10
CR7
D
b
e
c
K
CR2
R14
A
FT6
FT7
R1
CR9
F3
R5
F2
CR1
K
FT1
R12
R13
FT3
R50
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Q1
19
41 SEE NOTE 16


PERMISSABLE LIMITS OF
ENCAPSULATION OUTLINE
4 SIDES
1.560
1.540
.005 MAX
.015
MAX
SEE NOTE 8
SEE NOTE 9
2 PLACES
.000
.005
.000
.015
.000
.030 TYP
23
SEE NOTE 8
25 SEE
26 SEE NOTE
SEE NO

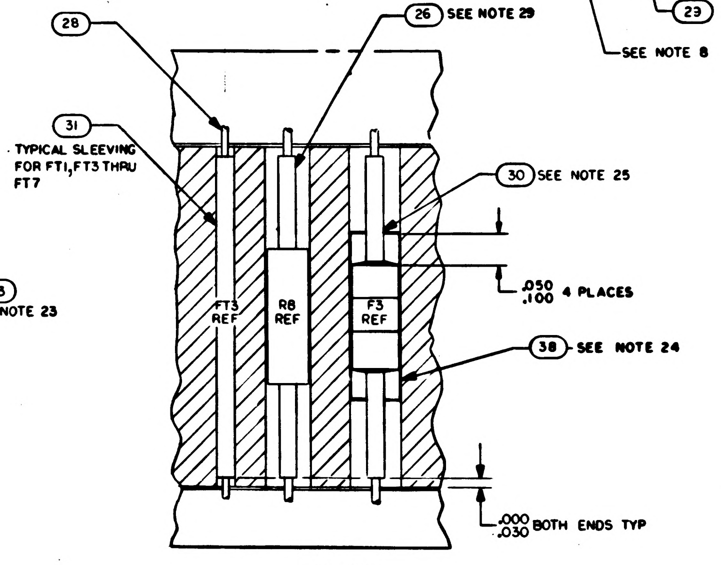
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
3. WELD PER ND1002005
4. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. ASSEMBLE FIND NO.25 TO FIND NO.26 PER ND1002136
7.
8. ENCAPSULATE PER ND1002002. REMOVE ALL FLASHING.
9. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
10. MARK .100/.060 HIGH WHITE CHARACTERS PER ND1002019
11. MARK .140/.100 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEED THRU
14. K DENOTES CATHODE SIDE OF DIODE
15. (+) DENOTES POSITIVE SIDE OF CAPACITOR
16. MOUNTING TORQUE FOR FIND NO.41 TO BE 15 TO 20 INCH OUNCES
17. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO THAT RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
18. SOLDER PER ND1002071
19. MOUNTING TORQUE FOR FIND NO.37 TO BE 12 TO 14 INCH POUNDS
20. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO.37
21. ENCAPSULATE PER ND1002117
22. BOND FIND NO.18 TO FIND NO.1 PER ND1002004, TYPE I
23. STAKE FIND NO. 2 THRU FIND NO. 17 FIND NO. 22,23,24,33,35 AND 42 PER ND1002009, METHOD C OR D
24. BOND FIND NO.38 TO FIND NO. 15, 22, 23 AND 24 PER MIL-I-15126 CONDITION C-2/23/50 BEFORE ASSEMBLING TO FIND NO. 1
25. TYPICAL SLEEVING FOR FIND NO.10,11,12,14,16,17,22,23 AND 24
26. TYPICAL SLEEVING FOR FIND NO. 5,6,8 AND 9
27. SELECT R7 AND R8 PER APPLICABLE P.S. FROM APPROPRIATE CHART
28. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 2007119
29. BOND FIND NO.22 TO FIND NO.1 PER ND1002004 TYPE I

R7		R8	
PART NO.	VALUE	PART NO.	VALUE
1010267-171	1470	1010364-255	1050
-172	1500	-257	1070
-173	1540	-259	1100
-174	1580	-261	1130
-175	1620	-263	1150
-176	1650	1010364-265	1180
1010267-177	1690		


38
SEE NOTE 24
CR7
REF
Q1
REF
33
SEE NOTE 23
.000
.010

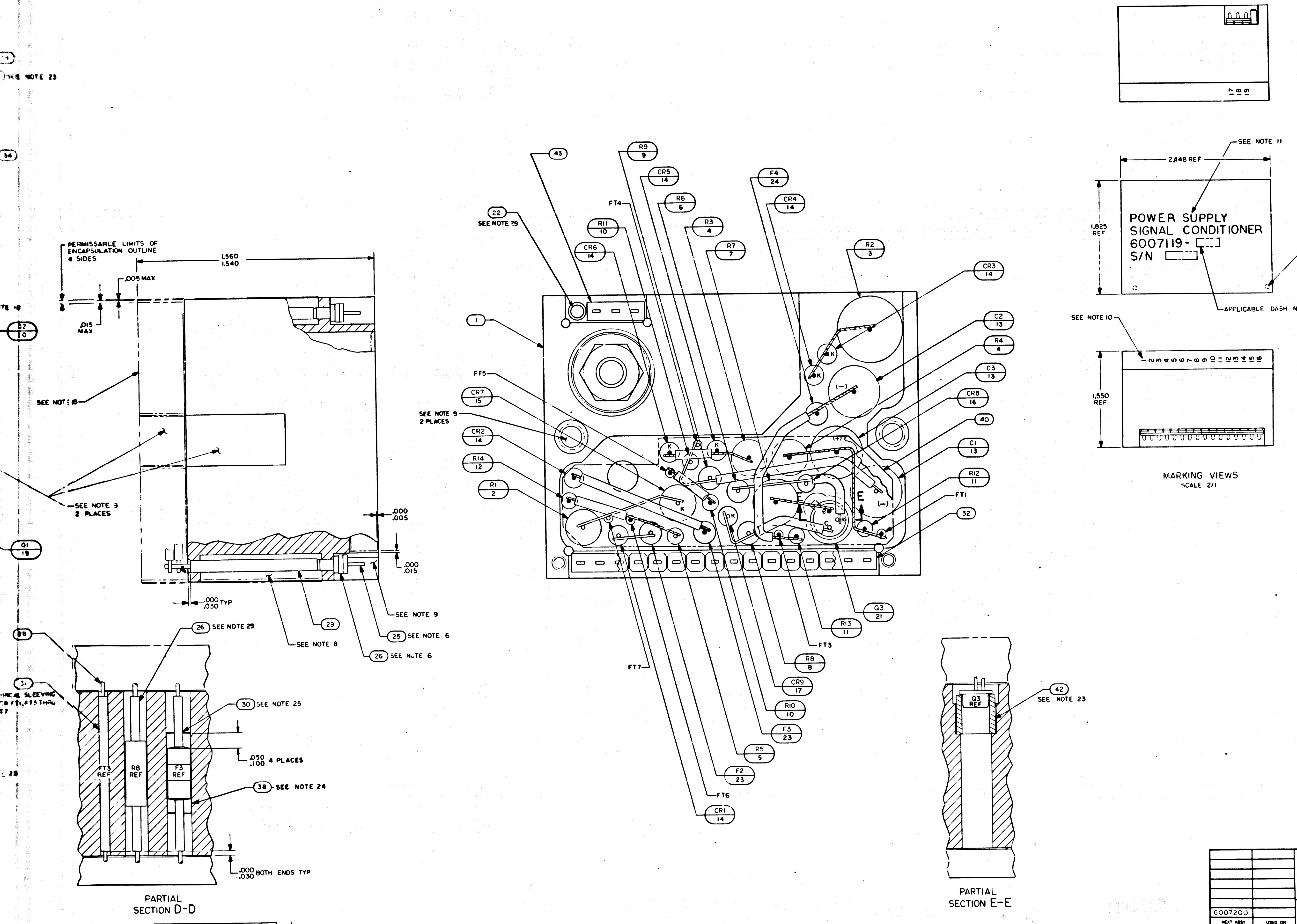
PARTIAL
SECTION A-A


28
26 SEE NOTE 29
31
TYPICAL SLEEVING
FOR FT1, FT3 THRU
FT7
30 SEE NOTE 25
FT3
REF
R8
REF
F3
REF
.050
.100 4 PLACES
38 SEE NOTE 24
.000
.030 BOTH ENDS TYP

PARTIAL
SECTION D-D

6007119 A

6007119


PERMISSABLE LIMITS OF ENCAPSULATION OUTLINE 4 SIDES
1.560
1.540
.005 MAX
.015 MAX
SEE NOTE 18
SEE NOTE 9 2 PLACES
SEE NOTE 23
.000
.005
.000
.015
.000 TYP
.030
29
SEE NOTE 9
25 SEE NOTE 6
26 SEE NOTE 6
SEE NOTE 8
26 SEE NOTE 29
28
31
30 SEE NOTE 25
.050 4 PLACES
.100
38 SEE NOTE 24
FT3 REF
R8 REF
F3 REF
.000 BOTH ENDS TYP
.030
PARTIAL SECTION D-D
43
R9 9
CR5 14
FT4
R6 6
R11 10
R3 4
CR6 14
R7 7
F4 24
CR4 14
22 SEE NOTE 29
R2 3
CR3 14
1
C2 13
R4 4
C3 13
CR8 16
40
C1 13
R12 11
FT1
32
FT5
CR7 15
SEE NOTE 9 2 PLACES
CR2 14
R14 12
R1 2
K
E
(+)
(-)
Q3 21
R13 11
FT3
R8 8
CR9 17
R10 10
F3 23
R5 5
F2 23
FT6
CR1 14
FT7
42 SEE NOTE 23
Q3 REF
PARTIAL SECTION E-E
SEE NOTE 11
2.448 REF
1.825 REF
POWER SUPPLY
SIGNAL CONDITIONER
6007119-
S/N
GUIDE PIN HOLE REF
APPLICABLE DASH NO.
17 18 19
SEE NOTE 10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1.550 REF
MARKING VIEWS
SCALE 2/1

SYM	ZONE	REVISIONS DESCRIPTION	DR	CHK	DATE	APPROVED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	6C10003	SCHEMATIC	REF
1	1008540-3	GASKET	43
1	1008025-1	INSULATOR, BUSHING	42
1	2008093-000	TERMINAL, THREADED	41
1	2008163	INSULATOR, BOTTOM	40
1	2008162	INSULATOR, TOP	39
1	MIL-I-15126	INSUL TAPE TYPE MFT 2.5 1/2 INCH WIDE	38
1	MS20341-10B	NUT, HEX	37
1	1008071-2	WASHER, FLAT	36
1	2008020-1	BUSHING, INSULATOR	35
2	1008024-1	WASHER, INSULATOR	34
1	1008025-2	INSULATOR, BUSHING	33
2	1008540-8	GASKET	32
AR	1006776-22	INSULATION SLEEVING	31
AR	1006776-21	INSULATION SLEEVING	30
AR	1006776-20	INSULATION SLEEVING	29
AR	1006757-8	WIRE, ELECTRICAL	28
AR	1006757-1	WIRE, ELECTRICAL	27
19	1006775	INSULATOR, WRAPOST-MALE, MINIATURE	26
19	1006782-5	CONTACT, WRAPOST-MALE, MINIATURE	25
1	1000170-4	FUSE	24
2	1000170-6	FUSE	23
1	1008256	PIN, POLARIZING	22
1	1010633-1	TRANSISTOR	21
1	1010269-1	TRANSISTOR	20
1	1010398-1	TRANSISTOR	19
1	1008804	TRANSFORMER	18
1	1010259	DIODE	17
1	1010372-24	DIODE	16
1	1010829-25	DIODE	15
6	1010837-001	DIODE	14
3	1006789-002	CAPACITOR	13
1	1006750-49	RESISTOR	12
2	1006750-56		11
2	1006750-43		10
1	1010364-225		9
1	SEE NOTE 27		8
1	SEE NOTE 27		7
1	1010364-353		6
1	1010369-141		5
2	1010389-39		4
1	1010452-129		3
1	1010389-50	RESISTOR	2
1	2008147	HEATSINK	1

-011 LIST OF MATERIALS

6007200	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Tony Bell 7/21/65
CHECKED A. Pendleton
APPROVED 22 JUL 65
APPROVED
APPROVED MIT
APPROVED MSC
DATE

POWER SUPPLY
SIGNAL CONDITIONER ASSY

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007119
SCALE 5/1
SHEET

6007119

6007119

F-2

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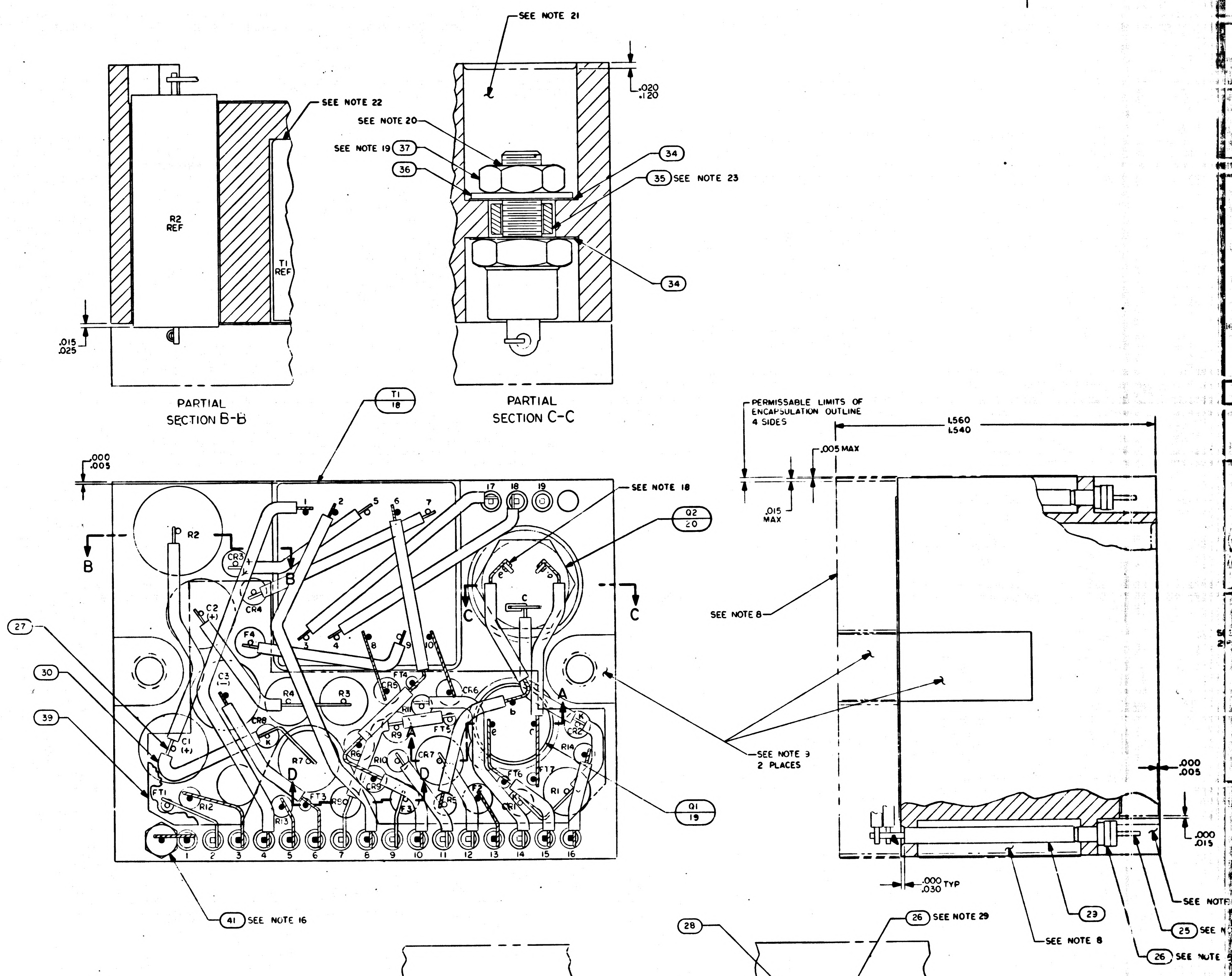
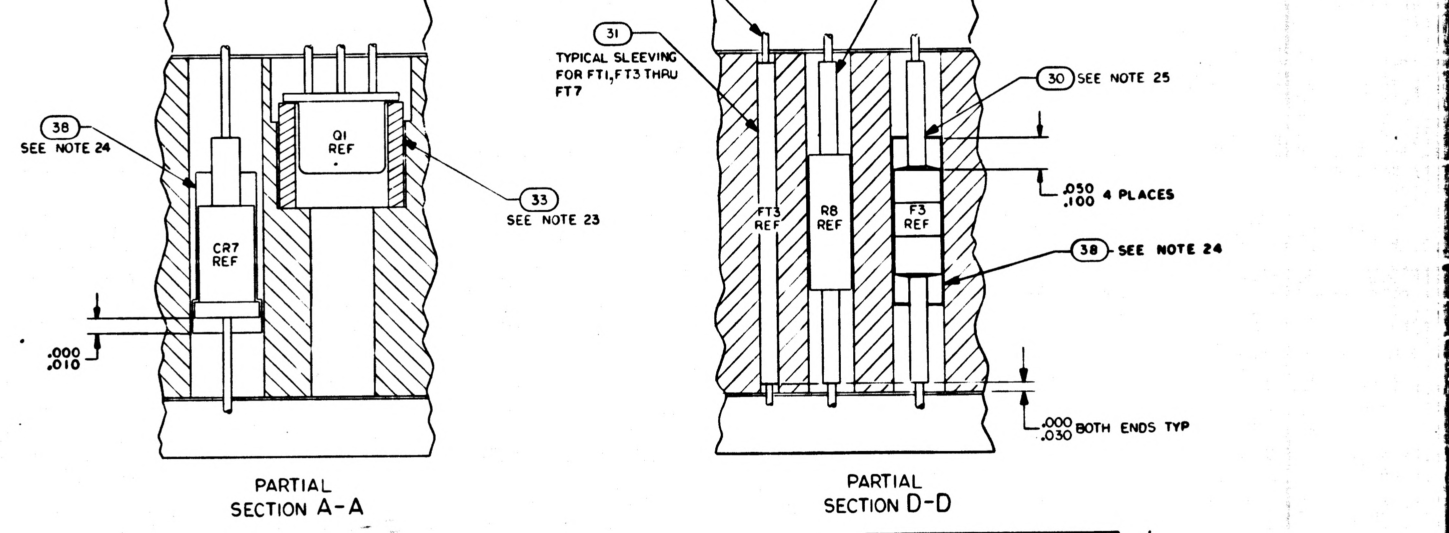


R2 REF
T1 REF
.015
.025
SEE NOTE 22
PARTIAL SECTION B-B
SEE NOTE 21
.020
.120
SEE NOTE 20
SEE NOTE 19 37
36
34
35 SEE NOTE 23
34
PARTIAL SECTION C-C
T1 18
.000
.005
SEE NOTE 18
Q2 20
R2
CR3
CR4
C2 (+)
F4
C3 (–)
R4
R3
CR5
FT4
CR6
R11
R9
FT5
CR8
C1 (+)
R7
CR7
R10
R6
FT3
R13
R12
FT1
CR9
R5
F3
FT6
FT7
CR1
R14
R1
CR2
A
B
C
D
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19
27
30
39
41 SEE NOTE 16
Q1 19
SEE NOTE 9 2 PLACES
SEE NOTE 8
PERMISSABLE LIMITS OF ENCAPSULATION OUTLINE 4 SIDES
1.560
1.540
.005 MAX
.015 MAX
.000
.005
.000
.015
.000
.030 TYP
23
25 SEE N
SEE NOTE 8
26 SEE NOTE
SEE NOTE



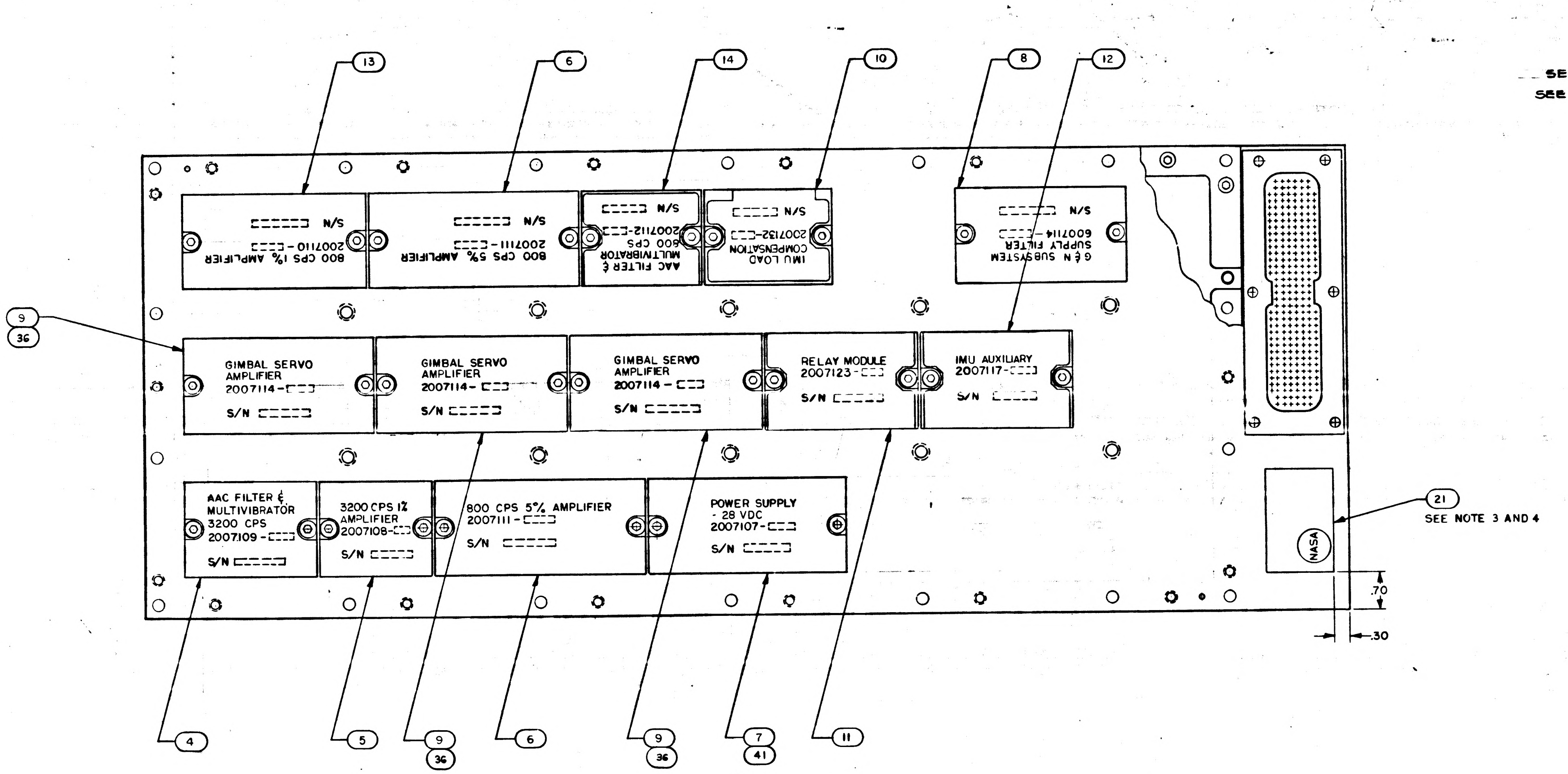
38
SEE NOTE 24
Q1 REF
33
SEE NOTE 23
CR7 REF
.000
.010
28
26 SEE NOTE 29
31
TYPICAL SLEEVING FOR FT1, FT3 THRU FT7
30 SEE NOTE 25
FT3 REF
R8 REF
F3 REF
.050
.100 4 PLACES
38 SEE NOTE 24
.000
.030 BOTH ENDS TYP

PARTIAL SECTION A-A

PARTIAL SECTION D-D

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED ALL WIRING SHALL BE IN ACCORDANCE WITH ND1002069
3. WELD PER ND1002005
4. WHITE DOT AND CLEAR WIRING INDICATES LOWER LEVEL WIRING
5. BLACK DOT AND CROSS HATCHED WIRING INDICATES UPPER LEVEL WIRING
6. ASSEMBLE FIND NO.25 TO FIND NO.26 PER ND1002136
7.
8. ENCAPSULATE PER ND1002002. REMOVE ALL FLASHING.
9. INDICATED AREA TO BE FREE OF ENCAPSULATING COMPOUND
10. MARK .100/.060 HIGH WHITE CHARACTERS PER ND1002019
11. MARK .140/.100 HIGH WHITE CHARACTERS PER ND1002019 AND SERIALIZE PER ND1002023. CENTRALIZE AS SHOWN
12. AR DENOTES AS REQUIRED
13. FT DENOTES FEED THRU
14. K DENOTES CATHODE SIDE OF DIODE
15. (+) DENOTES POSITIVE SIDE OF CAPACITOR
16. MOUNTING TORQUE FOR FIND NO.41 TO BE 15 TO 20 INCH OUNCES
17. COMPONENTS HAVING BUTT WELDED LEADS MUST BE POSITIONED SO THAT RIBBON WELD OCCURS ON WELDABLE PORTION OF LEAD
18. SOLDER PER ND1002071
19. MOUNTING TORQUE FOR FIND NO.37 TO BE 12 TO 14 INCH POUNDS
20. APPLY SEALING COMPOUND MIL-S-22473 GRADE A TO FIND NO.37
21. ENCAPSULATE PER ND1002117
22. BOND FIND NO.18 TO FIND NO.1 PER ND1002004, TYPE I
23. STAKE FIND NO. 2 THRU FIND NO. 17 FIND NO. 22,23,24,33,35 AND 42 PER ND1002009, METHOD C OR D
24. BOND FIND NO.38 TO FIND NO. 15, 22, 23 AND 24 PER MIL-I-15126 CONDITION C-2/23/50 BEFORE ASSEMBLING TO FIND NO. 1
25. TYPICAL SLEEVING FOR FIND NO.10,11,12,14,16,17,22,23 AND 24
26. TYPICAL SLEEVING FOR FIND NO.5,6,8 AND 9
27. SELECT R7 AND R8 PER APPLICABLE P.S. FROM APPROPRIATE CHART
28. COMPLETED ASSEMBLY SHALL BE TESTED IN ACCORDANCE WITH AND SHALL MEET ALL OF THE REQUIREMENTS OF P.S. 2007119
29. BOND FIND NO.22 TO FIND NO.1 PER ND1002004 TYPE I

R7		R8	
PART NO.	VALUE	PART NO.	VALUE
1010267-171	1470	1010364-255	1050
-172	1500	-257	1070
-173	1540	-259	1100
-174	1530	-261	1130
-175	1620	-263	1150
-176	1650	1010364-265	1180
1010267-177	1690		


13
6
14
10
8
12
800 CPS 1% AMPLIFIER
2007110-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
AAC FILTER & MULTIVIBRATOR 800 CPS
2007112-
S/N
IMU LOAD COMPENSATION
2007132-
S/N
G & N SUBSYSTEM SUPPLY FILTER
6007114-
S/N
9
36
GIMBAL SERVO AMPLIFIER
2007114-
S/N
GIMBAL SERVO AMPLIFIER
2007114-
S/N
GIMBAL SERVO AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123-
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER & MULTIVIBRATOR 3200 CPS
2007109-
S/N
3200 CPS 1% AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
POWER SUPPLY - 28 VDC
2007107-
S/N
NASA
21
SEE NOTE 3 AND 4
.70
.30
4
5
9
36
6
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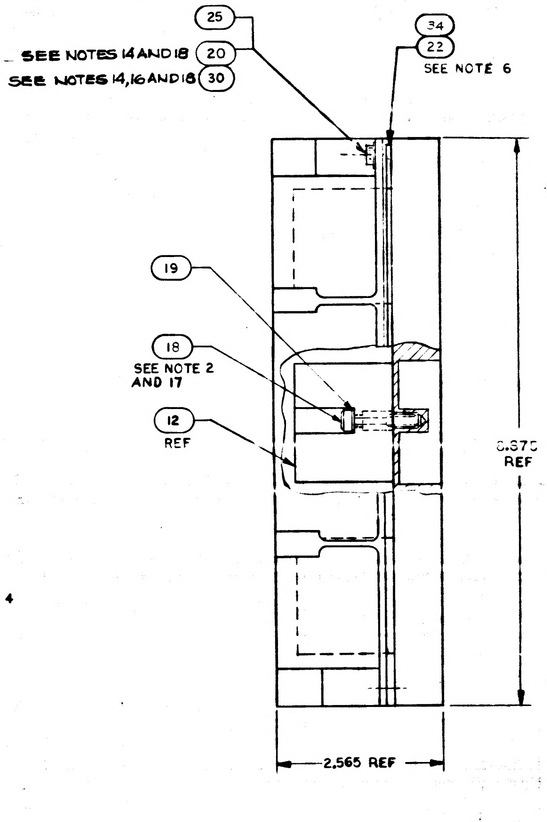
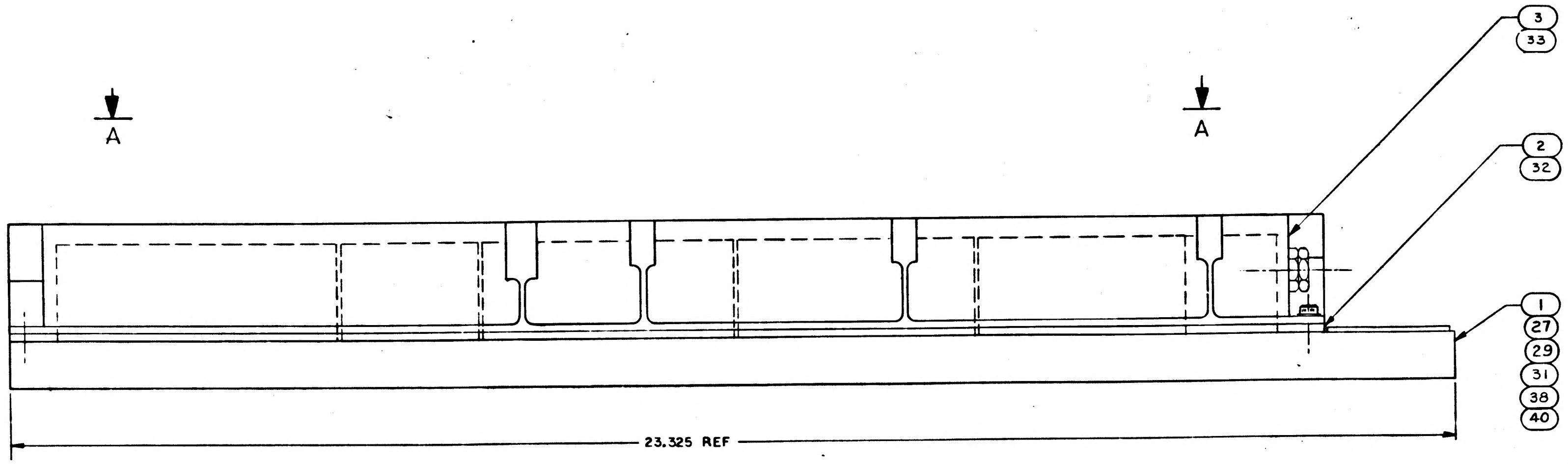
36
7
41
11


25
SEE NOTES 14 AND 18
20
SEE NOTES 14,16 AND 18
30
34
22
SEE NOTE 6
19
18
SEE NOTE 2 AND 17
12
REF
8.37
REF
2.565 REF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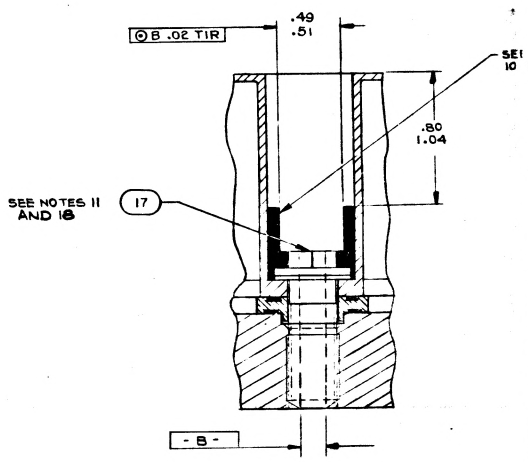
A
3
33
2
32
1
27
29
31
38
40
23.325 REF

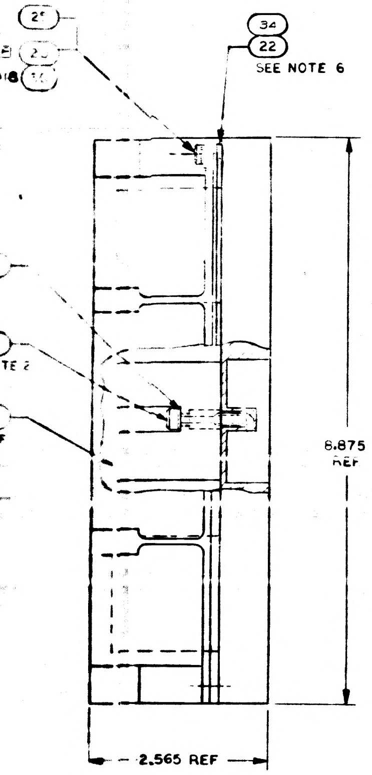

B .02 T.I.R
.49
.51
.80
1.04
SEE NOTE 10
SEE NOTES 11 AND 18
17
-B-

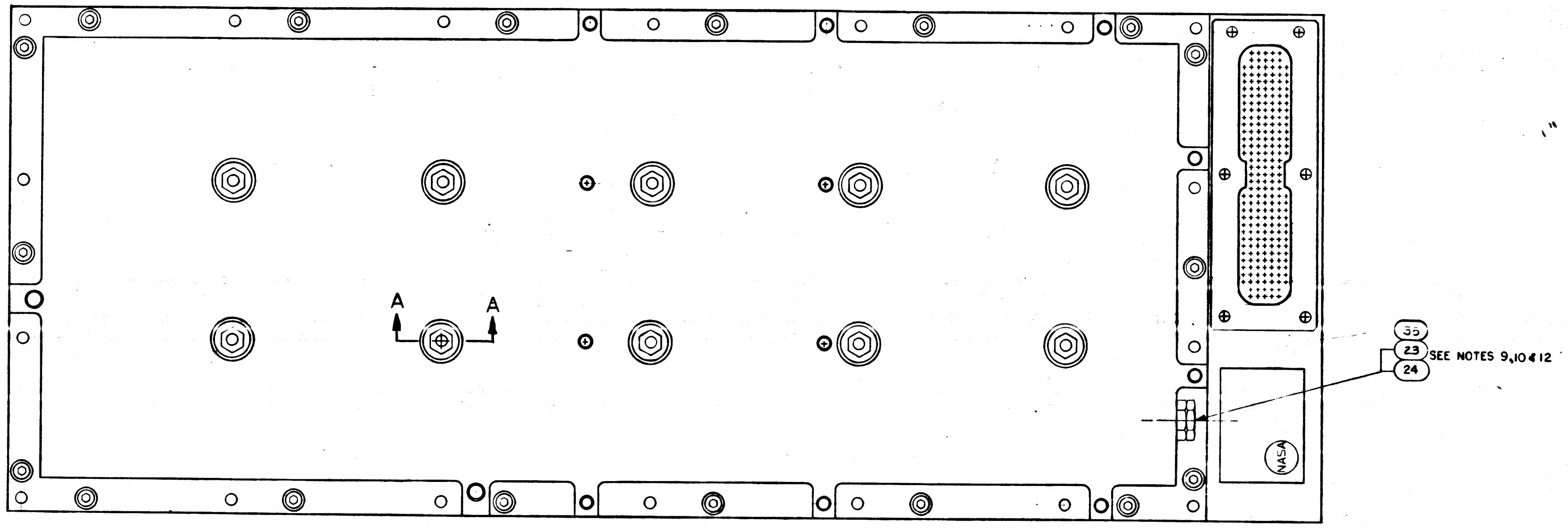
SECTION A–A
SCALE 2/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29, 31, 38 OR 40 PER ND1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 14 & FIND NO. 36 AND 41, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED.
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008835, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

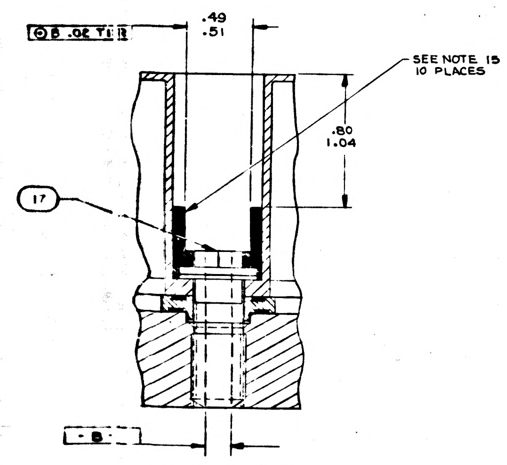
NOTES CONT. –
15. APPLY 1010300 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031,-021,-011 AND-061.
16. APPLY SEALANT 1006338-003 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION-031,-021,-011 AND-061.
17. APPLY A UNIFORM THIN FILM OF FIND NO.37 TO SCREW THREADS.
18. APPLY A UNIFORM THIN FILM OF FIND NO.39 TO SCREW THREADS OF FIND NOS. 20, 30 AND 17.

6007200	AA





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				WR
E		REVISED PER TDRR 23201	KCH	PPK	14 OCT 65	WR
F		REVISED PER TDRR 23755		PPK	5 Nov	WR
G		REVISED PER TDRR 24564		PPK	[illegible]	WR
H		REVISED PER TDRR 25102	H	PPK	[illegible]	WR
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	B.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RW.T		10 JUN 66	
P		REVISED PER TDRR 29437	B.		13-JUN-66	
R		REVISED PER TDRR 31167	ME		9-29-66	
S		REVISED PER TDRR 32033	TD		26 NOV 66	
T		REVISED PER TDRR 32398	REP		12 JAN 67	
U		REVISED PER TDRR 33521		RCB	12 APR 67	
V		REVISED PER TDRR 33730		RJJ	11 JULY 67	
W		REVISED PER TDRR 34650	DL		29 SEP 67	
Y		REVISED PER TDRR 34975	L.T		9 NOV 67	
Z		REVISED PER TDRR 36779			10 SEP 68	
AA		REVISED PER TDRR 37130	LK		20 DEC 68	

LIST OF MATERIALS

1	–	–	–	–	–	–	–	2007107-021	POWER SUPPLY -28 VDC	41
1	–	–	–	–	–	–	–	6007103-041	HEADER ASSEMBLY	40
AR	AR	AR	AR	AR	AR	AR	AR	1008985	GREASE, FLUORINATED	39
–	1	–	–	–	–	–	–	6007103-031	HEADER ASSEMBLY	38
AR	AR	AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	3	3	–	–	–	–	2007114-021	GIMBAL SERVO AMPLIFIER	36
1	1	–	1	1	–	–	–	2018773	VALVE ASSEMBLY	35
1	1	–	1	1	–	–	–	2010784-001	GASKET, SEALING PLATE	34
1	1	–	1	1	–	–	–	6010658	COVER, INSEP. ASSY	33
1	1	–	1	1	–	–	–	2010784-006	GASKET, RETAINED	32
–	–	–	1	1	–	–	–	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	18	18	18	–	1008874-019	SCREW, CAP, SOCKET HD.	30
–	–	1	–	–	1	–	–	6007003-021	HEADER ASSEMBLY	29
–	~~–~~	~~18~~	–	~~–~~	~~18~~	~~18~~	~~–~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
–	–	–	–	–	–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
–	–	1	–	–	1	1	1	2007213-011	VALVE ASSEMBLY	23
–	–	1	–	–	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1	1	1004260-153	NAMEPLATE	21
–	–	–	–	–	–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	10	10	1008635-001	BUSHING SEAL	17
10	10	10	10	10	10	10	10	1010975	GASKET, RETAINED	16
–	–	–	–	–	–	–	–			15
1	1	1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
–	–	–	–	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
–	1	1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
–	–	1	–	–	1	1	1	6008035	COVER	3
–	–	1	–	–	1	1	1	1010974	GASKET, RETAINED	2
–	–	–	–	–	–	–	1	6007003-011	HEADER ASSEMBLY	1
QTY REQ -081	QTY REQ -071	QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN P. Pelkini 25 May 65
CHECKED Bonarrigo 16 July 65
APPROVED
APPROVED D. A. Fest 9-7-65
APPROVED MIT W. [illegible]
APPROVED MSC PP 7-45-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6007200
SCALE 1/1		SHEET 1 OF 1

6007200 AA

2/6007200

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6007200 A

REVISIONS 15484			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 17188	3/3/65	WK

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007107-011	-28 VDC POWER SUPPLY	1
2007108-011	3200 CPS 1% AMPLIFIER	1
2007109-011	3200 CPS PHASE & AMPLITUDE CONTROL	1
2007110-011	800 CPS 1% AMPLIFIER	1
2007111-011	800 CPS 5% AMPLIFIER	2
2007112-011	800 CPS AAC FILTER	2
	G & N SUBSYSTEM SUPPLY FILTER	2
2007117-011	GIMBAL SERVO OUT OF LIM.&GIMBAL LOCK WARN. IND.	1
2007114-011	GIMBAL SERVO AMPLIFIER	3
6007119-011	SIGNAL CONDITIONING POWER SUPPLY	1
2007123-011	RELAY MODULE (STD.)	1
	MODULE TOTAL	16
6007003-011	HEADER ASS'Y, PSA	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
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MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN Warren DATE 1/5/65
CHECKED
APPROVAL
APPROVAL D.B. Test 1/12/65
NASA APPROVAL W J Rhine 1-13-65
MIT APPROVAL W Kupfer 13 Jan 65

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POWER & SERVO ASSEMBLY

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 6007200
SCALE
WT
SHEET OF

APOLLO G&N Specification
PS6007200 REV A
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30630	2, 6, 17 RD6/A✓	EA	---

This specification consists of page 1 to 17 inclusive.

APPROVALS	C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	R.F. Ram ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Power and Servo Assembly, Part Numbers 6007200-011, 6007200-021, and 6007200-031, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

Military

MIL-T-21038	Transformers, Pulse, Low Power, General Specification for

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment
ND1002273	Test Specification, Power and Servo Assembly, Workmanship-Vibration
ATP6015497	Assembly Test Procedure for APOLLO LEM Inertial Subsystem

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007200	Power and Servo Assembly

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.

2.2 CONFLICTING REQUIREMENTS. In the event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

4.3.11 Temperature Out of Limits Detection. With 30.1±0.1 vdc applied to 45J19-A8 (Hi) and 45J19-A5 (Lo), the following tests shall be performed:

a. With a dc ground applied to 45J19-G18, the output between 45J19-H18 (Hi) and 45J19-A5 (Lo) shall be 20.7±1.7 vdc.

b. With a dc input of 18.0±0.1 vdc applied to 45J19-G18, the output between 45J19-H18 (Hi) and 45J19-A5 (Lo) shall be less than or equal to 1.0 vac.

4.3.12 Workmanship-Vibration. The assembly shall be Workmanship-Vibration tested in accordance with Specification ND1002273 with the exception that Prior Compliance shall not require that the assembly be calibrated and tested in accordance with Specification ATP6015497. This test shall be performed prior to all other tests specified in 4.3.

4.4 SUBSYSTEM TEST. In lieu of testing in accordance with 4.3, the assembly may be tested in accordance with Specification ATP6015497. Compliance with the requirements of Section 3 shall be considered fulfilled when the tests of ATP6015497 are satisfactorily completed.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

JFD/dmh

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007200 B

REVISIONS 15484

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 17188	3/1/65	WK
B	REVISED PER TDRR 18308	15APR65	WK

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007107-011	-28 VDC POWER SUPPLY	1
2007108-011	3200 CPS 1% AMPLIFIER	1
2007109-011	3200 CPS PHASE & AMPLITUDE CONTROL	1
2007110-011	800 CPS 1% AMPLIFIER	1
2007111-011	800 CPS 5% AMPLIFIER	2
2007112-011	800 CPS AAC FILTER	1
6007113-011	G & N SUBSYSTEM SUPPLY FILTER	2
2007117-011	GIMBAL SERVO OUT OF LIM.&GIMBAL LOCK WARN. IND.	1
2007114-011	GIMBAL SERVO AMPLIFIER	3
6007119-011	SIGNAL CONDITIONING POWER SUPPLY	1
2007123-011	RELAY MODULE (STD.)	1
2007132-011	IMU LOAD COMPENSATION	1
	MODULE TOTAL	16
6007003-011	HEADER ASS'Y, PSA	1

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
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FINAL FINISH

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN Warren DATE 4/5/65
CHECKED
APPROVAL
APPROVAL 4/12/65
NASA APPROVAL 5-13-65
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	C	6007200
SCALE	WT	SHEET OF

APOLLO G&N Specification
PS6007200 REV B
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30630	2, 6, 17	EA	---
9/22/66	B	31184	2	MGM EA	ACM

This specification consists of page 1 to 17 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Power and Servo Assembly, Part Numbers 6007200-011, 6007200-021, 6007200-031, and 6007200-041, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

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ND1002273	Test Specification, Power and Servo Assembly, Workmanship-Vibration
ATP6015497	Assembly Test Procedure for APOLLO LEM Inertial Subsystem

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007200	Power and Servo Assembly

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.

2.2 CONFLICTING REQUIREMENTS. In the event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007200 C

REVISIONS 15484			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 17188	3/3/65	WK
B	REVISED PER TDRR 18308	15APR65	WK
C	REPLACED BY CONFIGURATION DWG REV D PER TDRR 22794	—	WK

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007107-011	-28 VDC POWER SUPPLY	1
2007108-011	3200 CPS 1% AMPLIFIER	1
2007109-011	3200 CPS PHASE & AMPLITUDE CONTROL	1
2007110-011	800 CPS 1% AMPLIFIER	1
2007111-011	800 CPS 5% AMPLIFIER	2
2007112-011	800 CPS AAC FILTER	1
6007113-011	G & N SUBSYSTEM SUPPLY FILTER	2
2007117-011	GIMBAL SERVO OUT OF LIM.&GIMBAL LOCK WARN. IND.	1
2007114-011	GIMBAL SERVO AMPLIFIER	3
6007119-011	SIGNAL CONDITIONING POWER SUPPLY	1
2007123-011	RELAY MODULE (STD.)	1
2007132-011	IMU LOAD COMPENSATION	1
	MODULE TOTAL	16
6007003-011	HEADER ASS'Y, PSA	1

Ⓒ REPLACED BY CONFIGURATION DWG REV D

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
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MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT
DRAWN Waren DATE 4/5/65
CHECKED
APPROVAL
APPROVAL D.B. Frost 4/12/65
NASA APPROVAL W.J. Rhine 5-13-65
MIT APPROVAL W Kyl 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	C	6007200

SCALE
WT
SHEET 1 OF 1

APOLLO G&N Specification
PS6007200 REV C
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30630	2, 6, 17 RDG/AC	EA	---
9/22/66	B	31184	2 RDG/AC	MGM EA	ACM
9/22/66	C	31221	3, 12 RDG/AC	MGM EA	---

This specification consists of page 1 to 17 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

(2) With the 800 pps (0° and 180°) reference inputs removed, the output between 45J19-H10 (Hi) and 45J19-K10 (Lo) shall be 28.0±1.5V rms and it shall lose synchronization.

(3) The output between 45J19-D11 (Hi) and 45J19-F11 (Lo) shall be such that a gain of 1.00±0.04 V/V is obtained by dividing the output at these pins by the output obtained in 4.3.5.b(2).

(4) The output between 45J19-G11 (Hi) and 45J19-F11 (Lo) shall be such that a gain of 1.00±0.04 V/V is obtained by dividing the output at these pins by the output obtained in 4.3.5.b(3).

c. With the dc supply voltage adjusted to 30.1±0.1 vdc, outputs shall be as specified in 4.3.5.a.

4.3.6 Power Supply, -28 VDC. With the dc supply voltage applied to 45J19-A4 (Hi) and 45J19-A5 (Lo) and with a dc test input signal applied to 45J19-G29 (Hi), 45J19-G30 (Hi), 45J19-G31 (Hi) and 45J19-G28 (Lo), the -28 VDC Power Supply tests shall be as follows:

a. With the dc supply voltage adjusted to 25.1±0.1vdc and the dc test signal adjusted to +250 mv dc minimum, the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -23.0 to -31.3 vdc, and the monitor point voltage across a 10K ohm ±1 percent resistance between 45J19-F9 (Hi) and 45J19-A5 (Lo) shall be -13.5±2.1 vdc.

b. With the dc supply voltage adjusted to 30.1±0.1 vdc and the dc test signal adjusted to -250 mv dc minimum, the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -23.0 to -31.3 vdc.

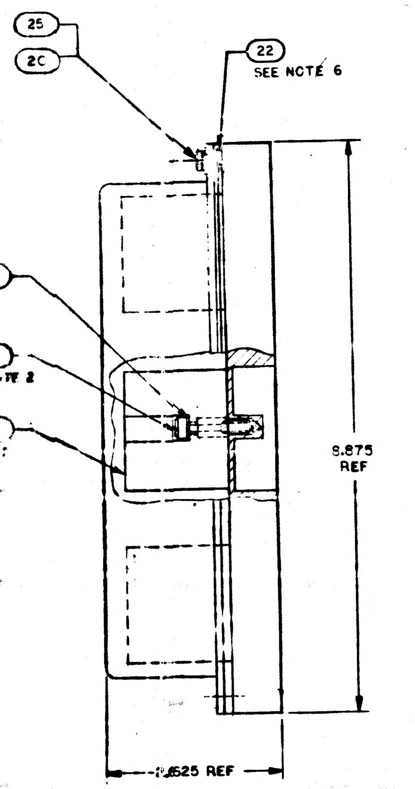
c. With the dc supply voltage at 30.1±0.1 vdc, the dc test signal adjusted to +250 mv dc minimum and the 25.6K pps reference input signal removed from 45J19-H23 (Hi) and 45J19-K23 (Lo), the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -28 to -30 vdc.

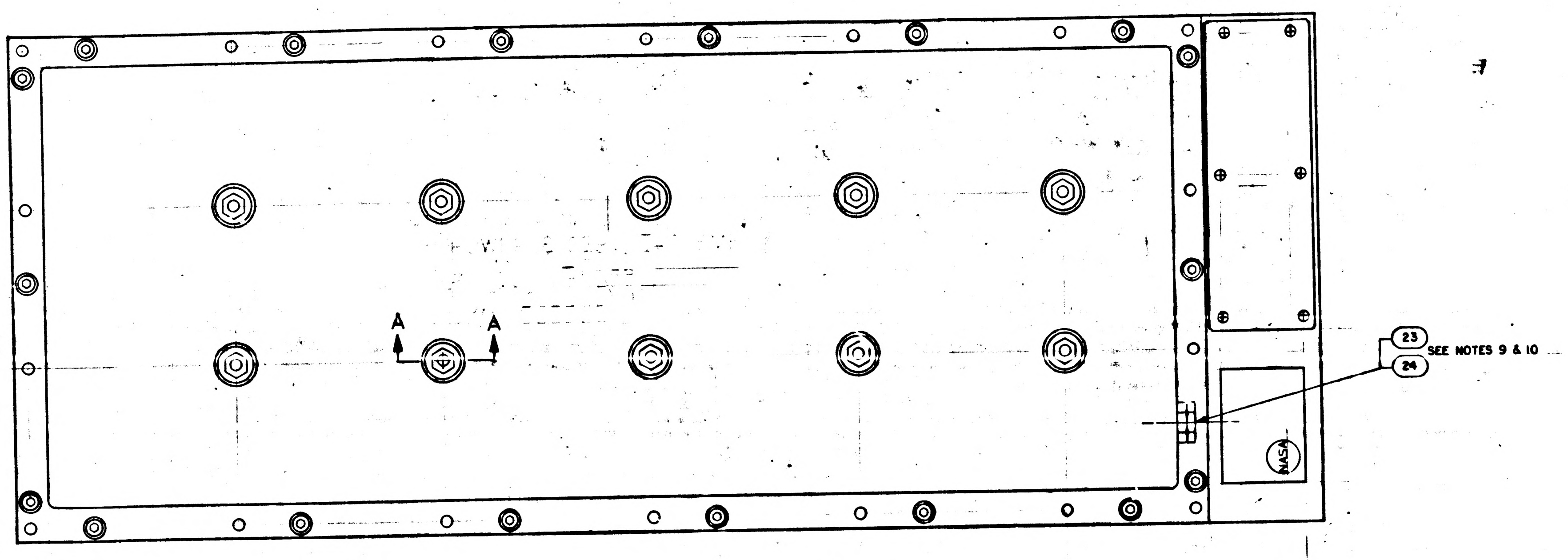
4.3.7 ISS Turn On Detection. With a dc supply voltage of 25.1±0.1 vdc applied between 45J19-A4 (Hi) and 45J19-A5 (Lo), the following tests shall be performed. With a dc supply voltage of 30.1±0.1 vdc applied to these same pins, the following tests shall be repeated.

a. With the dc supply voltage momentarily (1 minute minimum) removed from 45J19-A4 (Hi) and then reapplied, the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall be greater than +11.3 vdc, and the dc resistance between 45J19-A21 and 45J19-B21 and between 45J19-B8 and 45J19-B7 shall be less than or equal to 1.5 ohms.

b. With the dc supply voltage also applied to 45J19-H16 (Hi), the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall be less than or equal to +1.5 vdc, the dc resistance between 45J19-A21 and 45J19-B21 shall be less than or equal to 1.5 ohms, and the dc resistance between 45J19-B8 and 45J19-B7 shall be greater than or equal to 5 megohms. Upon subsequent removal of the dc supply voltage from 45J19-H16 (Hi), the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall remain less than or equal to +1.5 vdc, and the dc resistance between 45J19-A21 and 45J19-B21 and between 45J19-B8 and 45J19-B7 shall be greater than or equal to 5 megohms.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				





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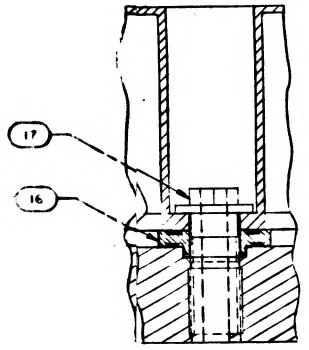

SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
18	2004148-003	WASHER, FLAT	25
1	1000159-5	PACKING, PREFORMED "O" RING	24
1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
32	2008033-1	WASHER, FLAT	19
32	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
1	1010975	GASKET, RETAINED	16
1	6007119-011	POWER SUPPLY SIGNAL CONDITIONER	15
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
1	2007123-011	RELAY MODULE	11
1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 25 Mar 65
CHECKED 16 Jul 65
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

MASTER

REVISIONS					
SYM	ZONE	DESCRIPTION			
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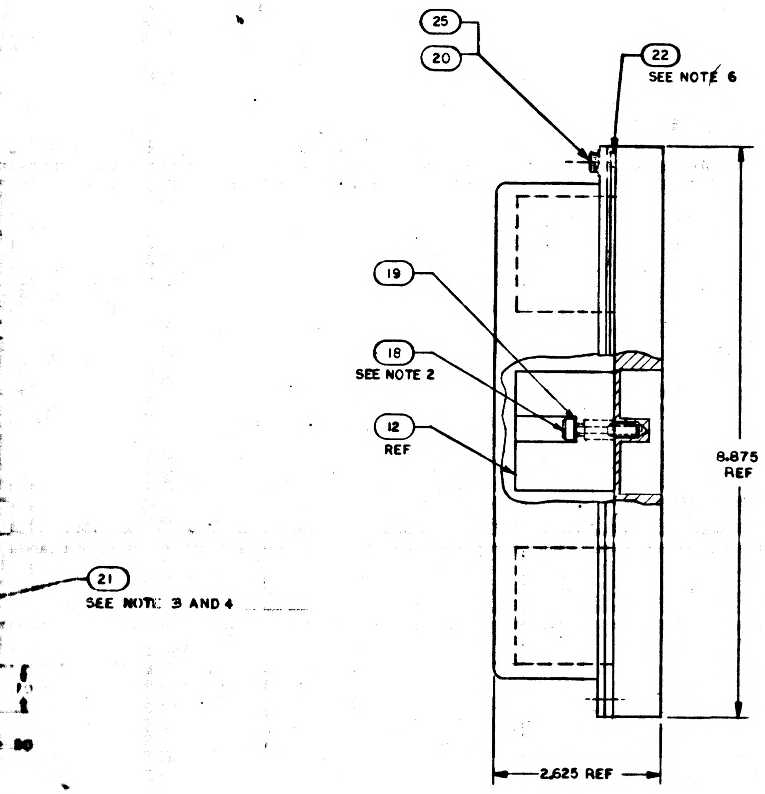

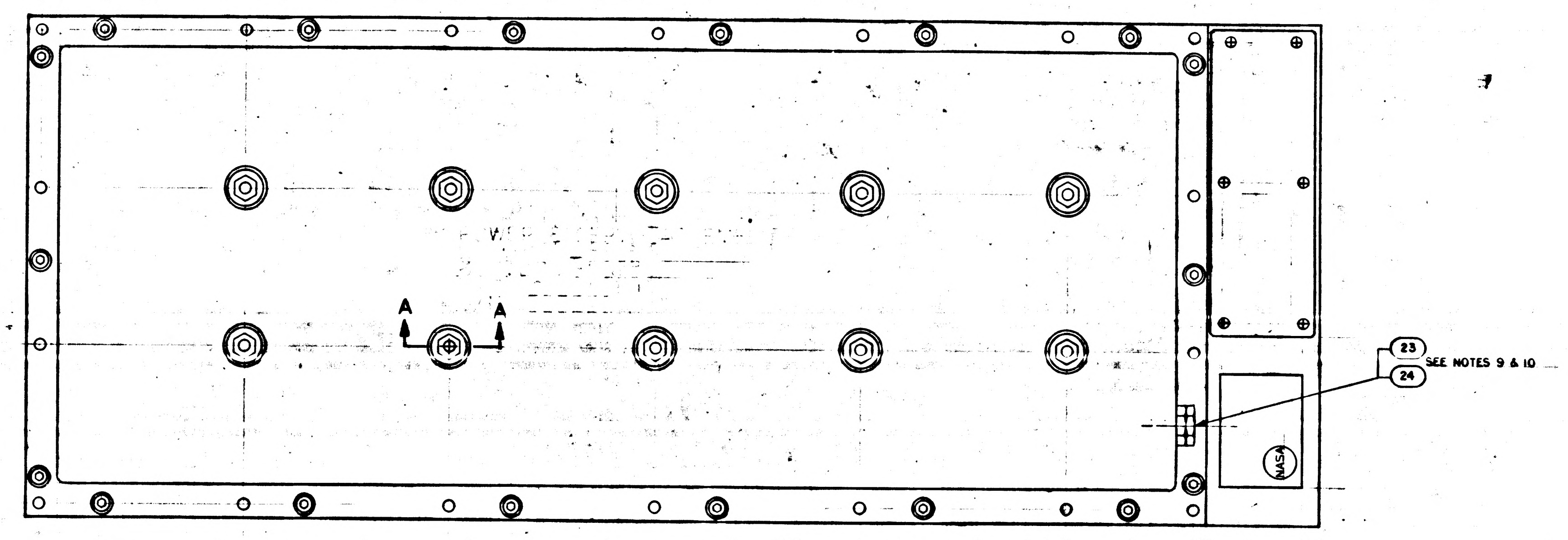

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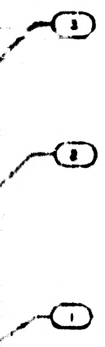

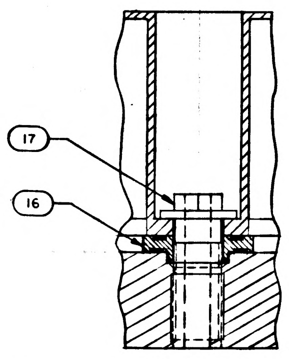

SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
18	2004148-003	WASHER, FLAT
1	1000159-5	PACKING, PREFORMED "O" RING
1	2007213-011	VALVE ASSEMBLY
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN
1	1004260-153	NAMEPLATE
13	NAS1352-06-10	SCREW, CAP SOCKET HEAD
32	2008033-1	WASHER, FLAT
32	1010977-001	SCREW, CAPTIVE
10	1008835-001	BUSHING SEAL
1	1010975	GASKET, RETAINED
1	6007119-011	POWER SUPPLY SIGNAL CONDITIONER
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS
1	2007110-011	800 CPS 1% AMPLIFIER
1	2007117-011	IMU AUXILIARY
1	2007123-011	RELAY MODULE
1	2007132-011	IMU LOAD COMPENSATOR
3	2007114-011	GIMBAL SERVO AMPLIFIER
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER
1	200710 -011	POWER SUPPLY -23V
2	[illegible]-011	800 CPS 5% AMPLIFIER
1	2007108-011	3200 CPS 1% AMPLIFIER
1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS
1	6008031	COVER
1	1010974	GASKET, RETAINED
1	6007003-011	HEADER ASSEMBLY
-011		

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
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DRAWN 5 Mar 65
CHECKED 16 Mar 65
APPROVED
APPROVED 9/27/65
APPROVED MIT 9/27/65
NOT REQUIRED PER LETTER NASA PP7-65-612
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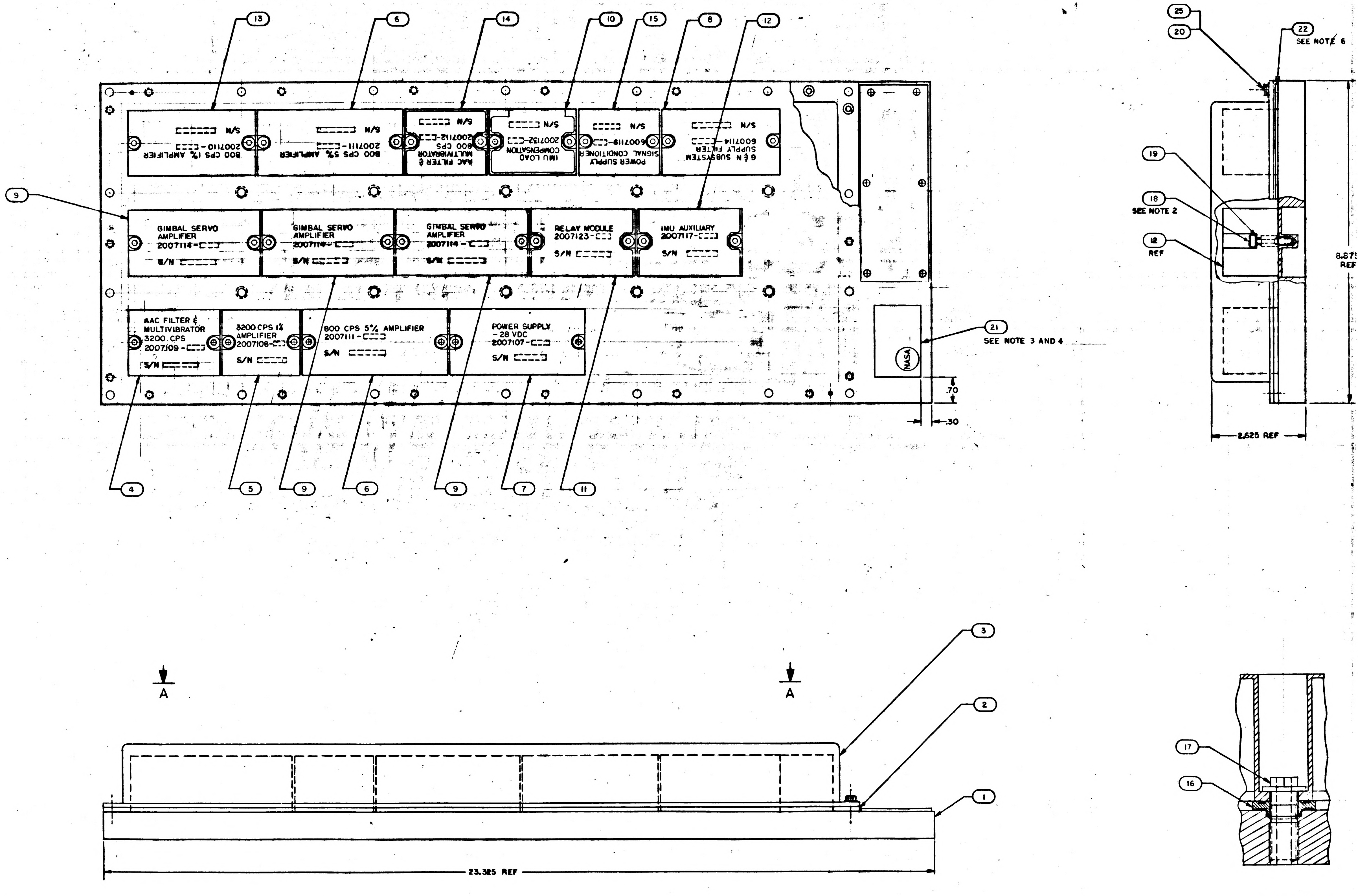
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800 CPS 1% AMPLIFIER
2007110-
S/N
800 CPS 5% AMPLIFIER
2007111-
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112-
IMU LOAD
COMPENSATION
2007132-
POWER SUPPLY
SIGNAL CONDITIONER
6007119-
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
GIMBAL SERVO AMPLIFIER
2007114-
RELAY MODULE
2007123-
IMU AUXILIARY
2007117-
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109-
3200 CPS 1% AMPLIFIER
2007108-
800 CPS 5% AMPLIFIER
2007111-
POWER SUPPLY
- 28 VDC
2007107-
NASA
21
SEE NOTE 3 AND 4
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SEE NOTE 6
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SEE NOTE 2
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23.325 REF
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SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS

APOLLO G&N Specification
PS6007200 REV D
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
8/11/66	A	30630	2, 6, 17	EA	---
9/22/66	B	31184	2	MGM EA	ACM
9/22/66	C	31221	3, 12	MGM EA	---
11/18/66	D	32036	2,4,8,13-17. Now 18 pages,	MGM EA	----
			was 17 pages.		

This specification consists of page 1 to 18 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Power and Servo Assembly, Part Numbers 6007200-011, 6007200-021, 6007200-031, 6007200-041, and 6007200-051, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

Military

MIL-T-21038	Transformers, Pulse, Low Power, General Specification for

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment
ND1002273	Test Specification, Power and Servo Assembly, Workmanship-Vibration
ATP6015497	Assembly Test Procedure for APOLLO LEM Inertial Subsystem

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007200	Power and Servo Assembly

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.

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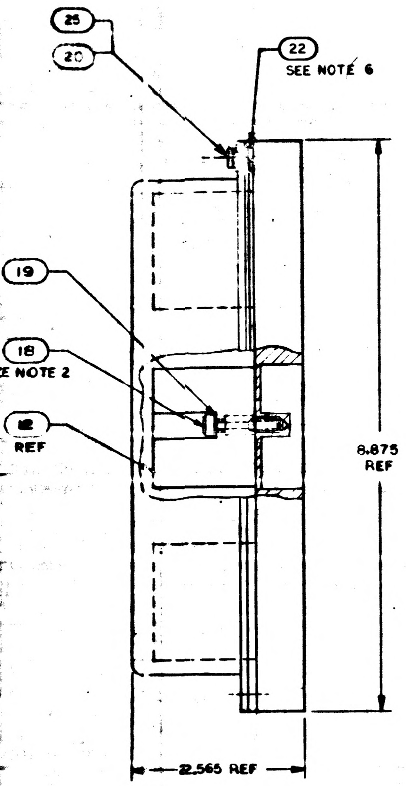
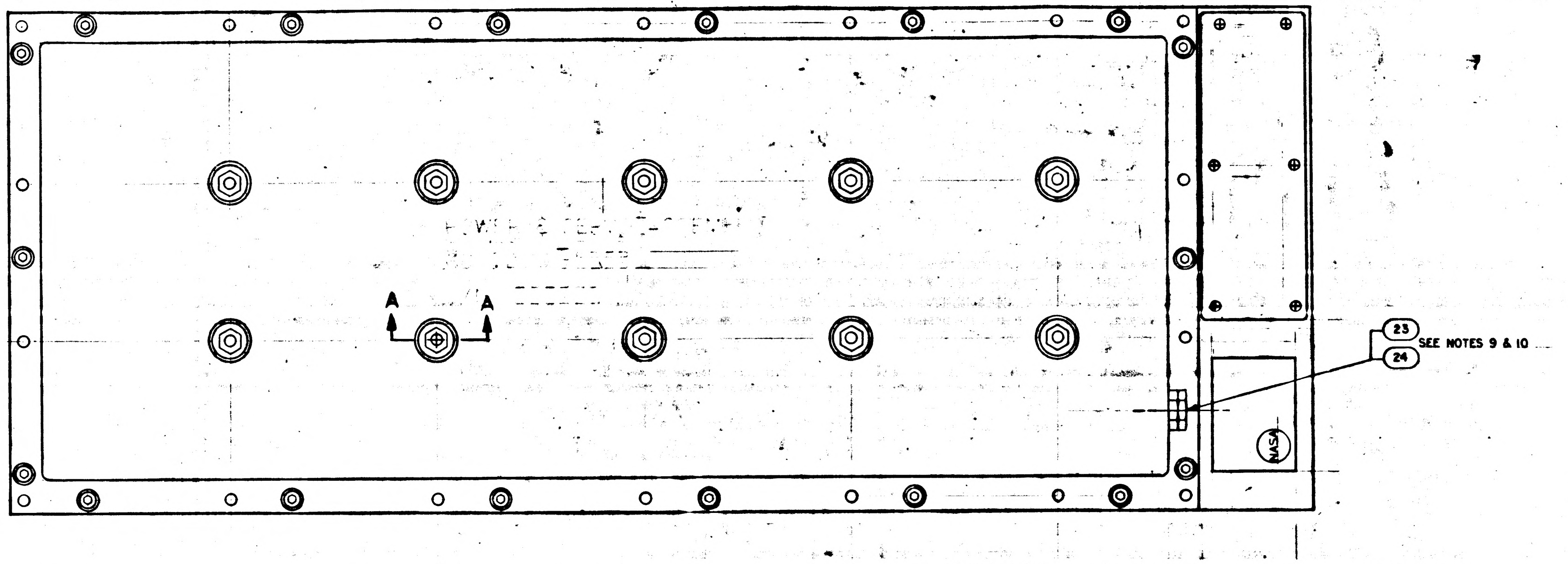
a. The contract
b. This specification
c. Documents listed in this section

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22.94				
E		REVISED PER TDRR 23201	KCN			





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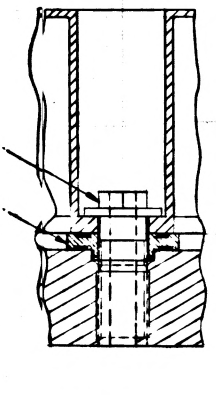

SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
18	2004148-003	WASHER, FLAT	25
1	1000159-5	PACKING, PREFORMED "O" RING	24
1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
32	2008033-1	WASHER, FLAT	19
32	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
10	1010975	GASKET, RETAINED	16
1	6007119-011	POWER SUPPLY SIGNAL CONDITIONER	15
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
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1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
±/ .XX ±.02 .XXX ±.005 ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT NOT REQUIRED PER LETTER [illegible]-64-512
MSC
DATE

POWER & SERVO ASSEMBLY
(LEM)

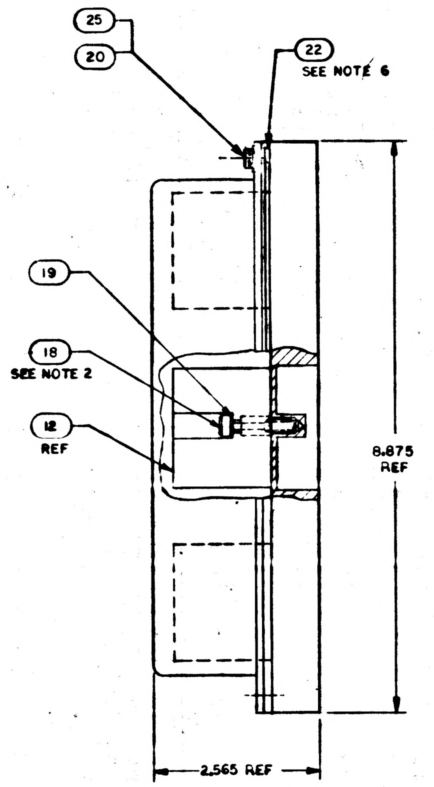
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

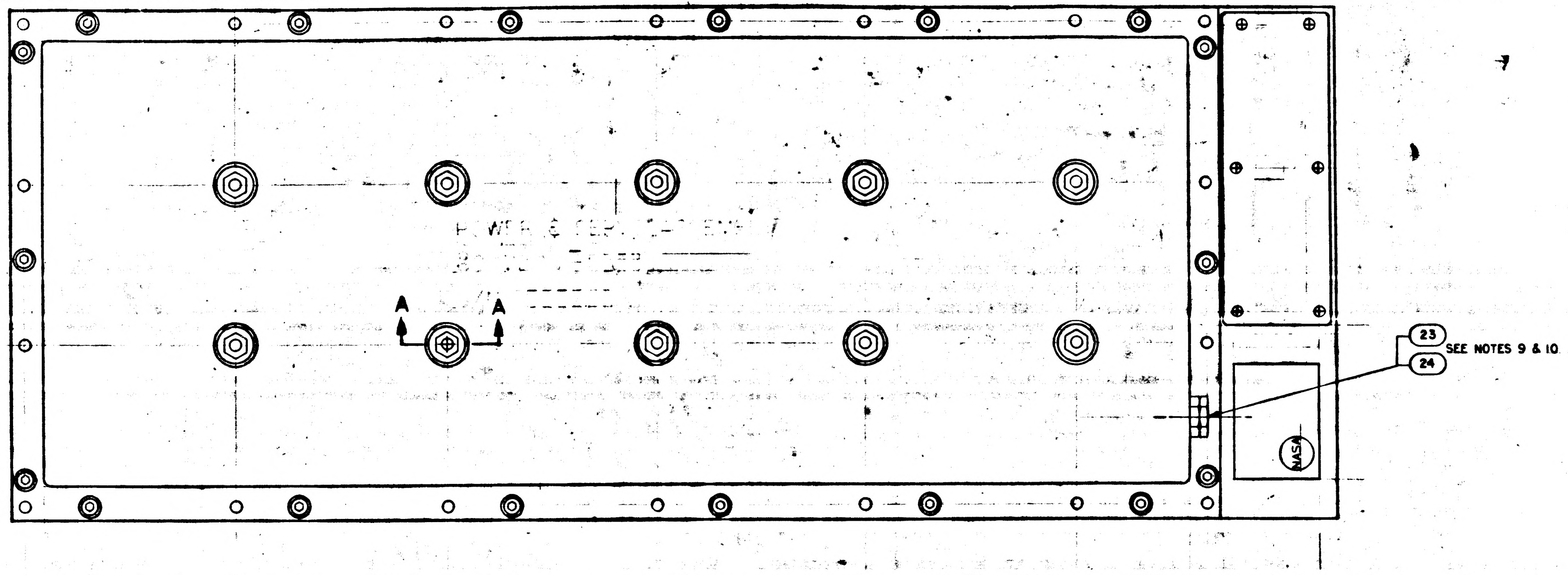
6007200 E

MASTER

3H

SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVAL
REVISIONS						
D		REPLACES WORD DWG REV C PER TDRR 22794				
E		REVISED PER TDRR 23201	KCN			





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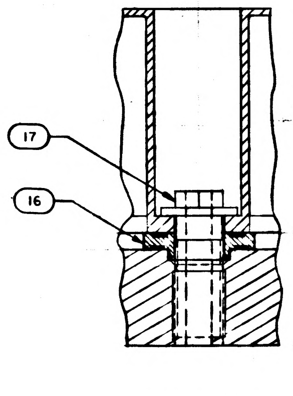

SECTION A-A
SCALE 2/1

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1	2007213-011	VALVE ASSEMBLY	3
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	2
1	1004260-153	NAMEPLATE	1
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	0
32	2008033-1	WASHER, FLAT	9
32	1010977-001	SCREW, CAPTIVE	8
10	1008835-001	BUSHING SEAL	7
10	1010975	GASKET, RETAINED	6
1	6007119-011	POWER SUPPLY SIGNAL CONDITIONER	5
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	4
1	2007110-011	800 CPS 1% AMPLIFIER	3
1	2007117-011	IMU AUXILIARY	2
1	2007123-011	RELAY MODULE	1
1	2007132-011	IMU LOAD COMPENSATION	0
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX .02 .XXX .005 ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER
NASA
MSC
DATE

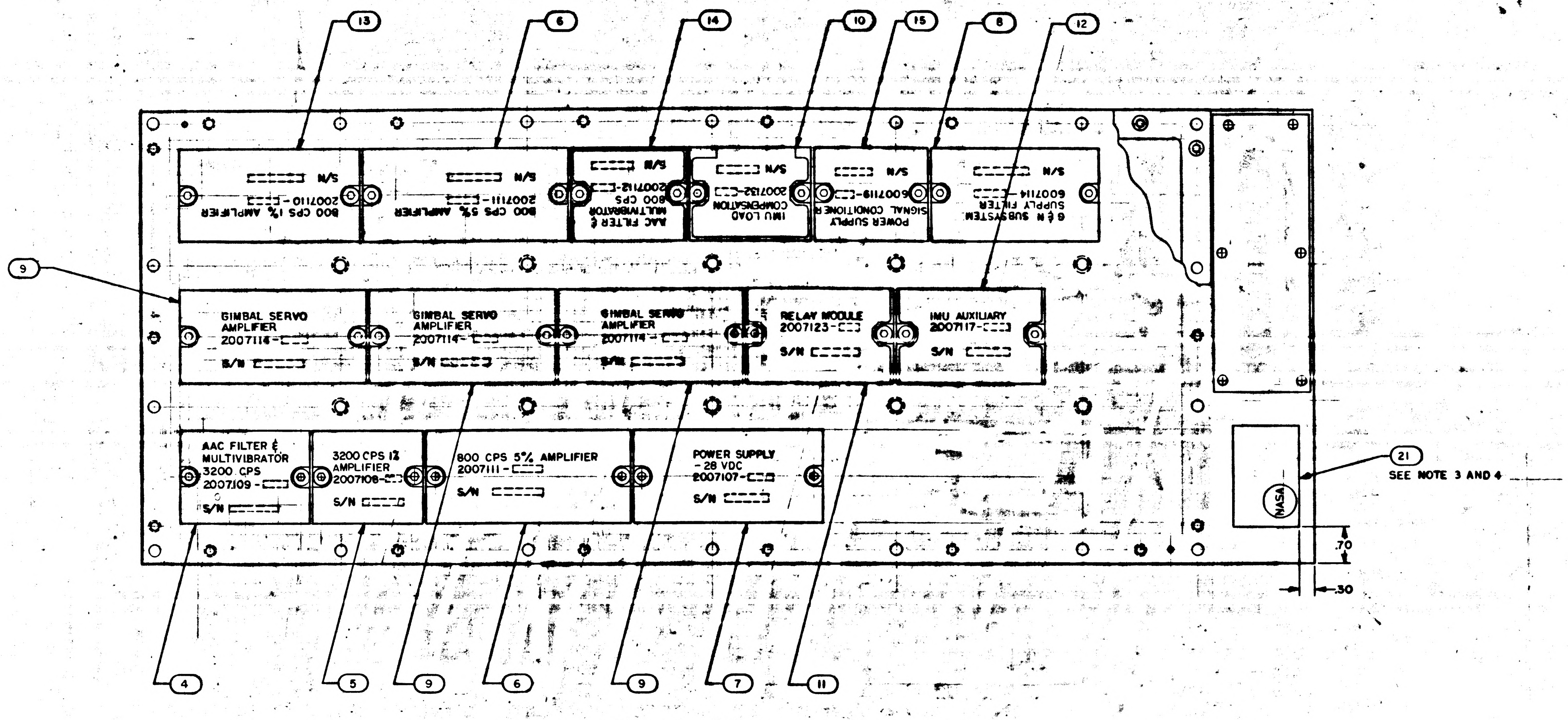
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF

MASTER

6007200 E

6007200 E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800 CPS 1% AMPLIFIER
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AAC FILTER &
MULTIVIBRATOR
800 CPS
2007112-
S/N
IMU LOAD
COMPENSATION
2007132-
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POWER SUPPLY
SIGNAL CONDITIONER
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S/N
G & N SUBSYSTEM
SUPPLY FILTER
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GIMBAL SERVO
AMPLIFIER
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GIMBAL SERVO
AMPLIFIER
2007114-
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GIMBAL SERVO
AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123-
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109-
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3200 CPS 1%
AMPLIFIER
2007108-
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800 CPS 5% AMPLIFIER
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S/N
POWER SUPPLY
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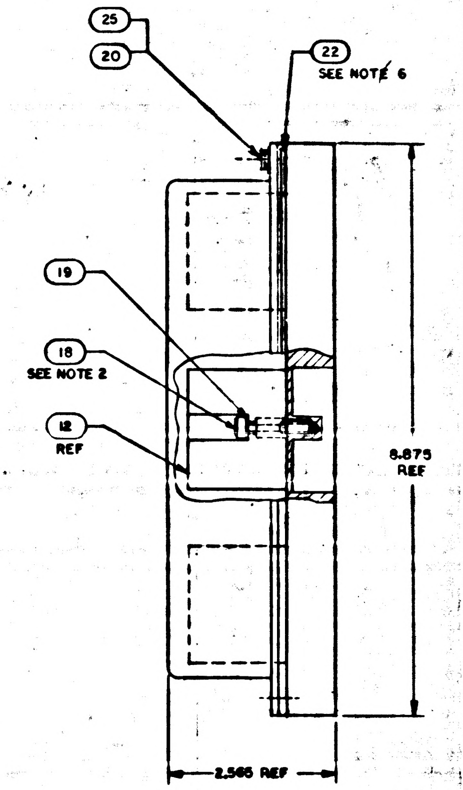
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SEE NOTE 2
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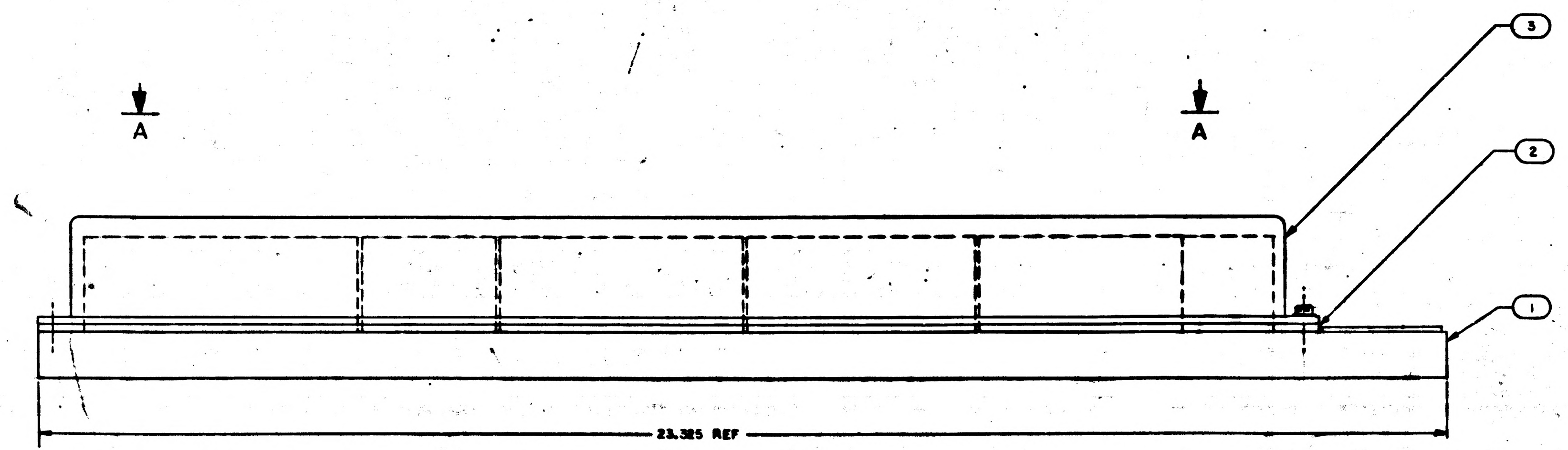
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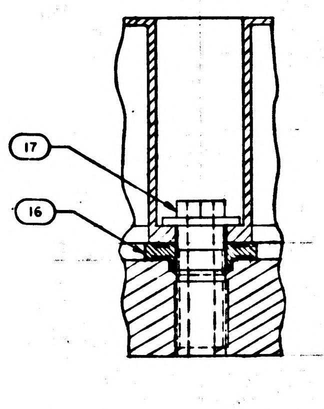


SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS

6007200 E

APOLLO G&N Specification
PS6007200 REV E
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

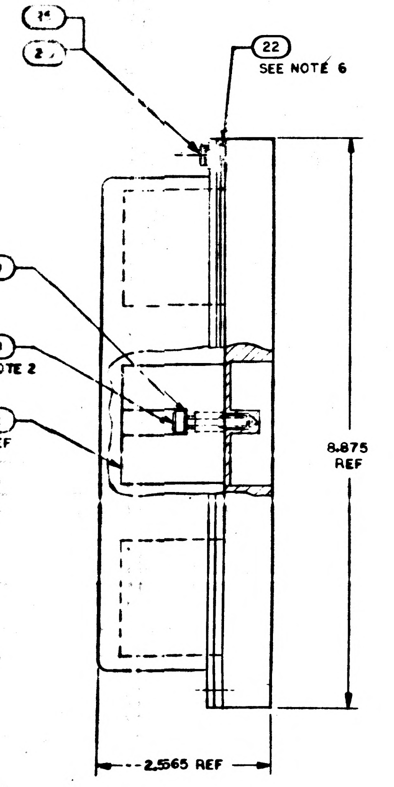
Record of Revisions

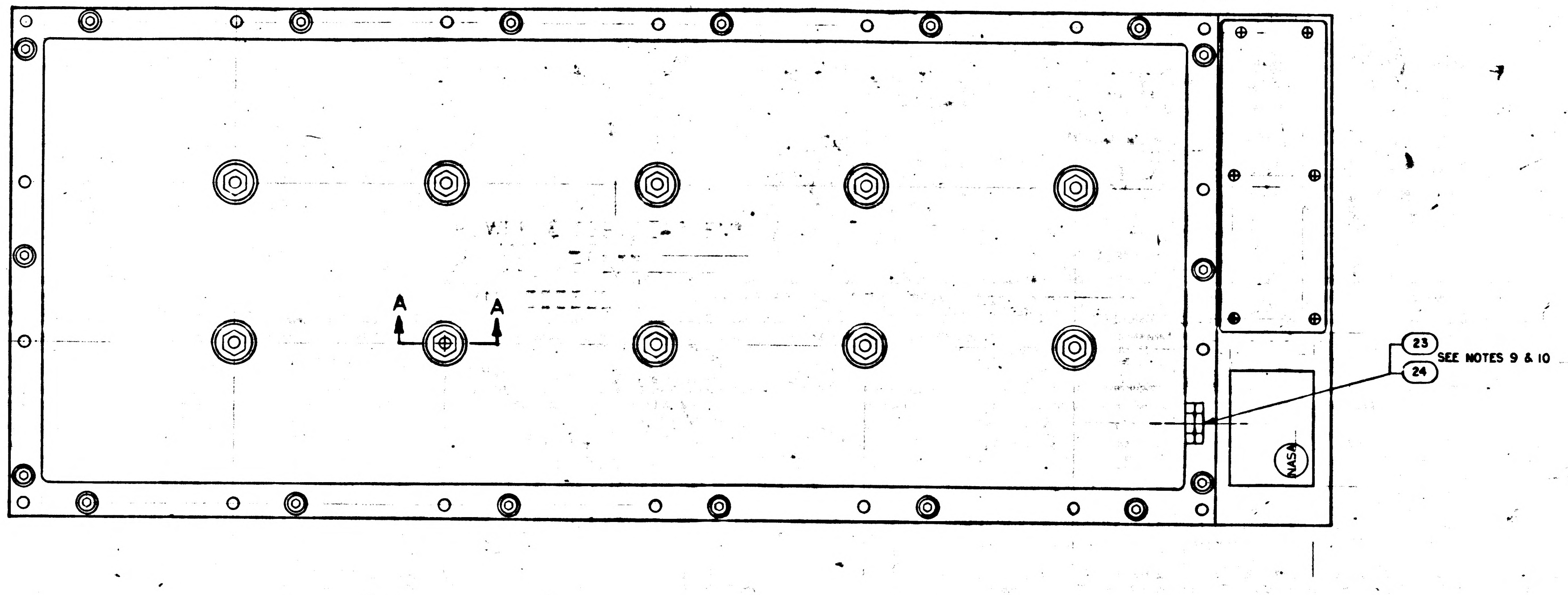
Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓜ 8/11/66	A	30630	2, 6, 17 R06/AC	EA	---
Ⓜ 9/22/66	B	31184	2 R06/AC	MGM EA	ACM
Ⓜ 9/22/66	C	31221	3, 12 R06/AC	MGM EA	—
Ⓜ 11/18/66	D	32036	2, 4, 8, 13-17. Now 18 pages,	MGM EA	—
			was 17 pages. R06/AC		
3/2/67	E	33109	12 R06/AC	MGM EA	ACM

This specification consists of page 1 to 18 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				WK
E		REVISED PER TDRR 23201	KCN			WK
F		REVISED PER TDRR 23755				WK





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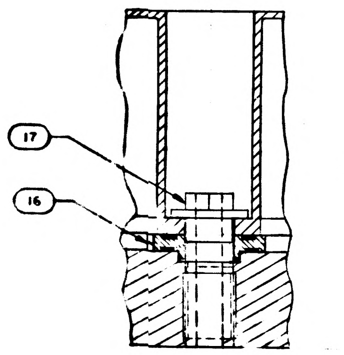

SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

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18	2004146-003	WASHER, FLAT	25
1	1000159-5	PACKING, PREFORMED "O" RING	24
1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	2008033-1	WASHER, FLAT	19
28	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
10	1010975	GASKET, RETAINED	16
			15
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
1	2007123-011	RELAY MODULE	11
1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011		LIST OF MATERIALS	

6007200 F

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

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INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 25 Mar 65
CHECKED 25 Mar 65
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER
NASA-PP7-65-512
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

MASTER

3H

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
REVISIONS						
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E		REVISED PER TDRR 23201	KCH	[illegible]	[illegible]	
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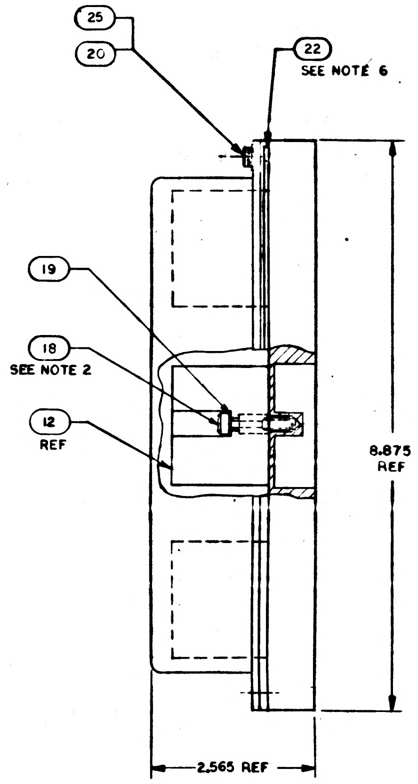

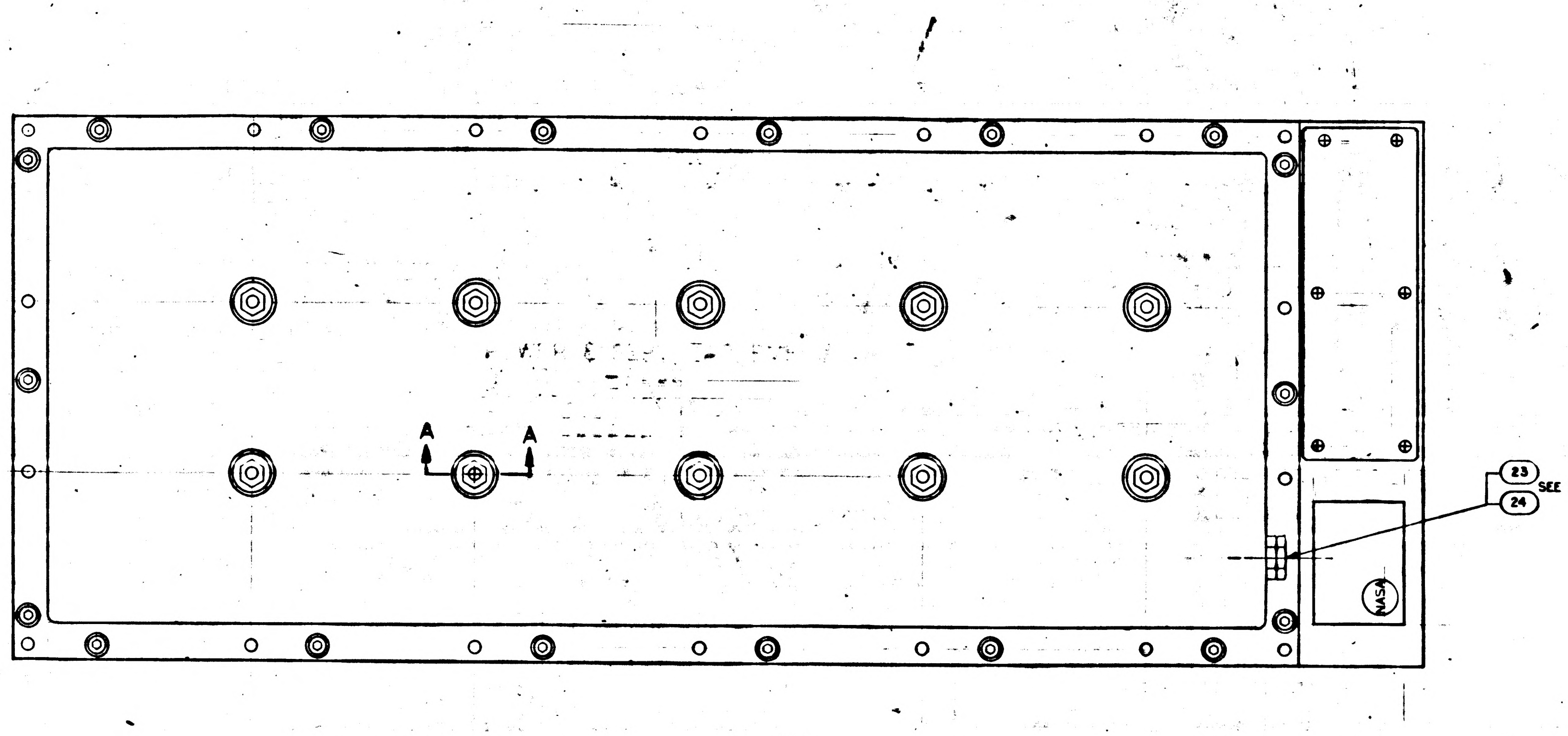

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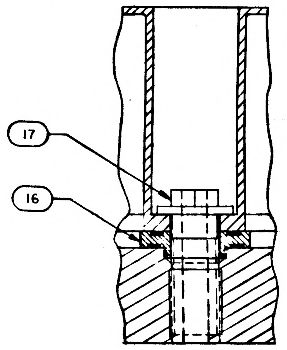

SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
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1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	2008033-1	WASHER, FLAT	19
28	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
10	1010975	GASKET, RETAINED	16
			5
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
1	2007123-011	RELAY MODULE	11
1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011		LIST OF MATERIALS	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ±.005 ± —
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
NOT REQUIRED PER LETTER
AG/RA-BJ7-65-612
MSC
DATE

POWER & SERVO ASSEMBLY (LEM)

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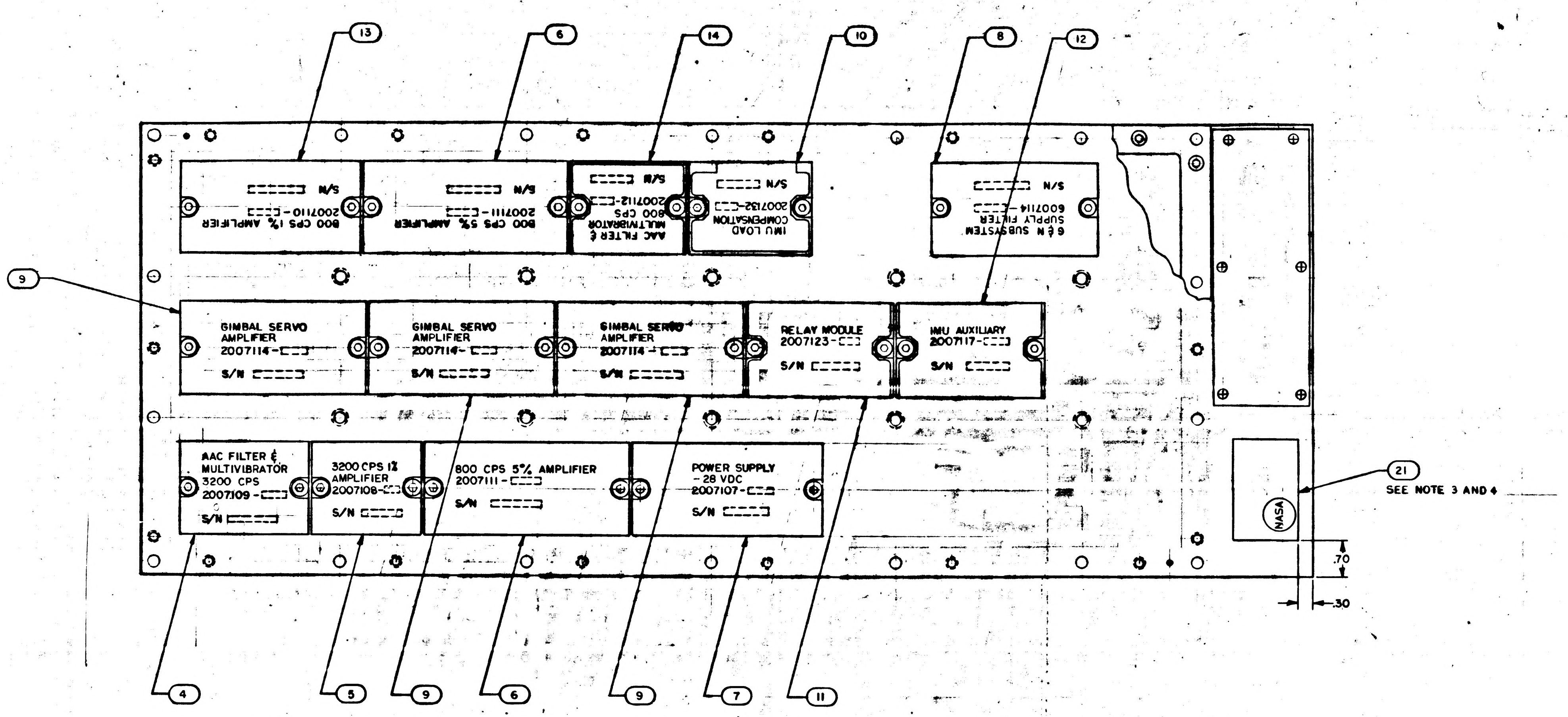
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1

6007200

6007200 F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6
14
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8
12
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800 CPS 1% AMPLIFIER
2007110 -
S/N
800 CPS 5% AMPLIFIER
2007111 -
S/N
AAC FILTER & MULTIVIBRATOR 800 CPS
2007112 -
S/N
IMU LOAD COMPENSATION
2007132 -
S/N
6 & N SUBSYSTEM SUPPLY FILTER
6007114 -
S/N
GIMBAL SERVO AMPLIFIER
2007114 -
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GIMBAL SERVO AMPLIFIER
2007114 -
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GIMBAL SERVO AMPLIFIER
2007114 -
S/N
RELAY MODULE
2007123 -
S/N
IMU AUXILIARY
2007117 -
S/N
AAC FILTER & MULTIVIBRATOR 3200 CPS
2007109 -
S/N
3200 CPS 1% AMPLIFIER
2007108 -
S/N
800 CPS 5% AMPLIFIER
2007111 -
S/N
POWER SUPPLY -28 VDC
2007107 -
S/N
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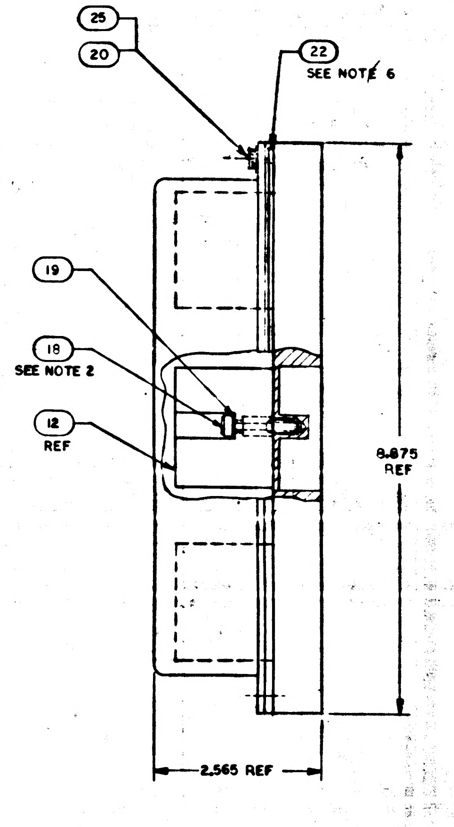
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SEE NOTE 6
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SEE NOTE 2
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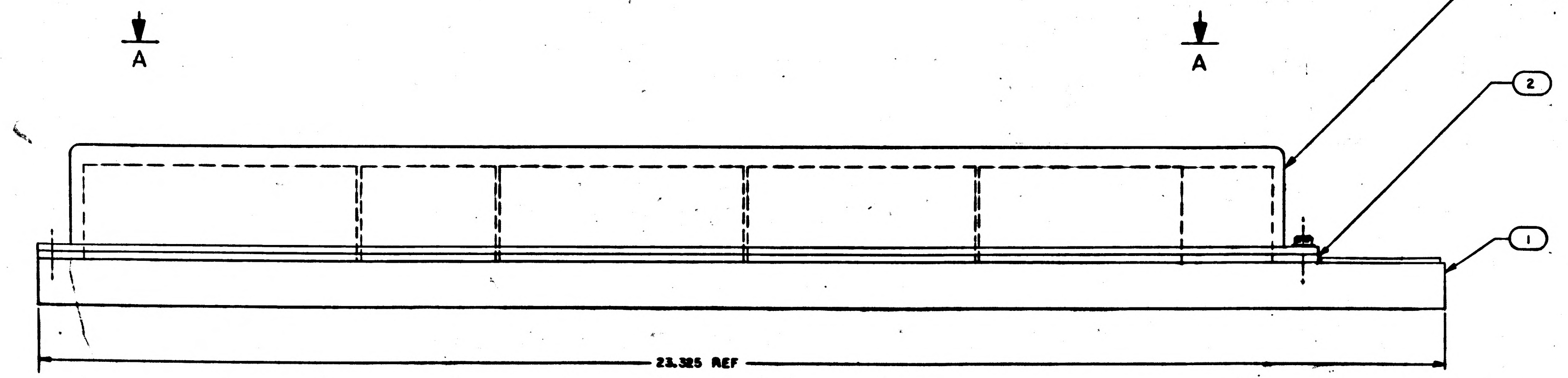
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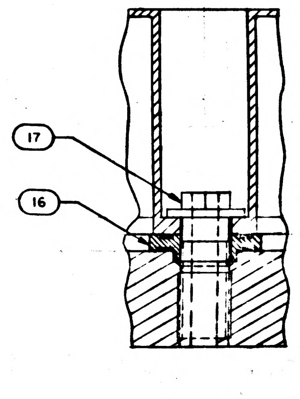

SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS

APOLLO G&N Specification
PS6007200 REV F
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
Ⓜ 8/11/66	A	30630	2, 6, 17 RDG/AC	EA	---
Ⓜ 9/22/66	B	31184	2 RDG/AC	MGM EA	ACM
Ⓜ 9/22/66	C	31221	3, 12 RDG/AC	MGM EA	---
Ⓜ 11/18/66	D	32036	2, 4, 8, 13-17. Now 18 pages,	MGM EA	----
			was 17 pages. RDG/AC		
Ⓜ 3/2/67	E	33109	12 RDG/AC	MGM EA	ACM
9/21/67	F	34653	2 RDG/AC	MGM EA	--

This specification consists of page 1 to 18 inclusive.

APPROVALS	A C. METZGE NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Power and Servo Assembly, Part Numbers 6007200-011, 6007200-021, 6007200-031, 6007200-041, 6007200-051, 6007200-061 and 6007200-071, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

Military

MIL-T-21038	Transformers, Pulse, Low Power, General Specification for

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment
ND1002273	Test Specification, Power and Servo Assembly, Workmanship-Vibration
ATP6015497	Assembly Test Procedure for APOLLO LEM Inertial Subsystem

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007200	Power and Servo Assembly

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.

2.2 CONFLICTING REQUIREMENTS. In the event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
D		REPLACES WORD DWG REV C PER TDRR 22794				WK	
E		REVISED PER TDRR 23201	KCH			WK	
F		REVISED PER TDRR 23755				WK	
G		REVISED PER TDRR 24564				WK	

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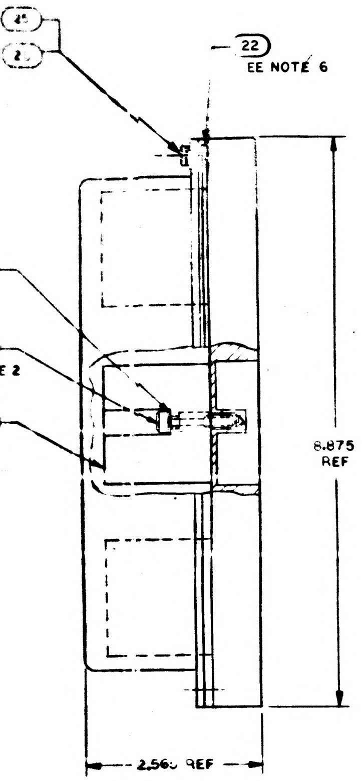

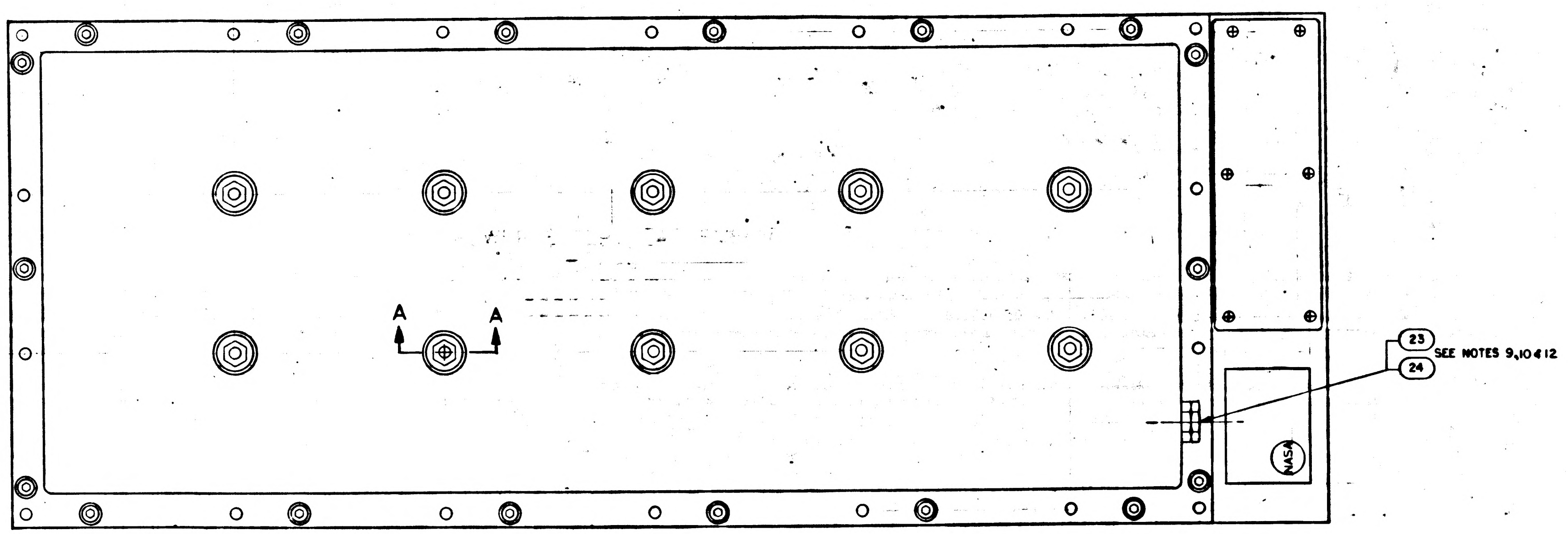

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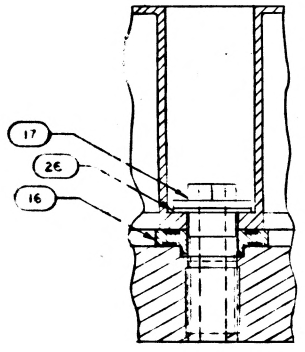

SECTION A-A
SCALE 2/1

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1	1000159-5	PACKING, PREFORMED "O" RING	24
1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	2008033-1	WASHER, FLAT	19
28	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
10	1010975	GASKET, RETAINED	16
			15
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
1	2007123-011	RELAY MODULE	11
1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
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1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008031	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007C03-C11	HEADER ASSEMBLY	1
-011	LIST OF MATERIALS		

6007200 G

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 25 May 65
CHECKED 16 Jun 65
APPROVED
APPROVED 9/27/65
APPROVED MIT 28 Sep 65
NOT REQUIRED PER LETTER
NASA-PP7-65-512
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

MASTER

6007200 G

E3

SYM	ZONE	DESCRIPTION
D		REPLACES WORD DWG REV C PER TDRR 22794
E		REVISED PER TDRR 23201
F		REVISED PER TDRR 23755
G		REVISED PER TDRR 24564

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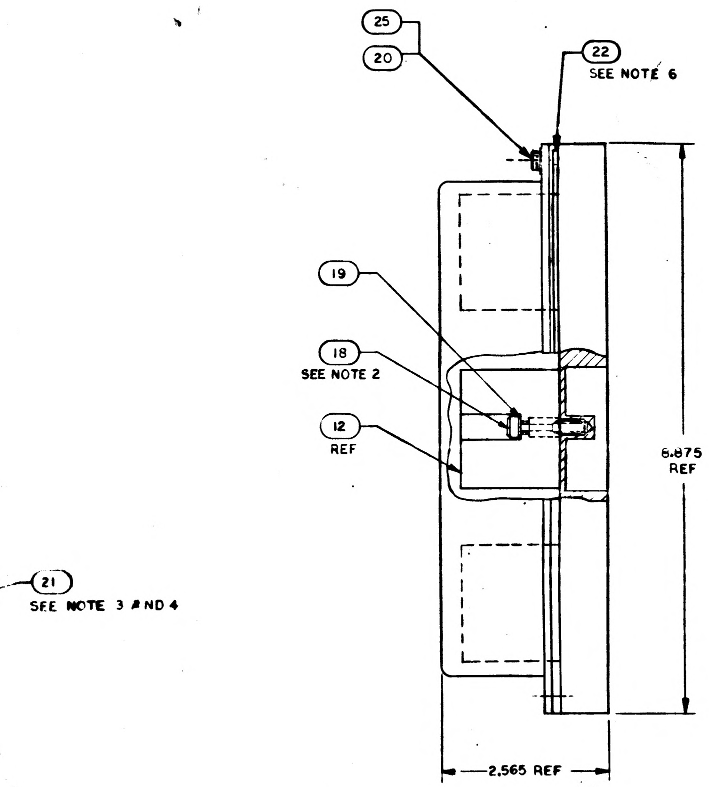
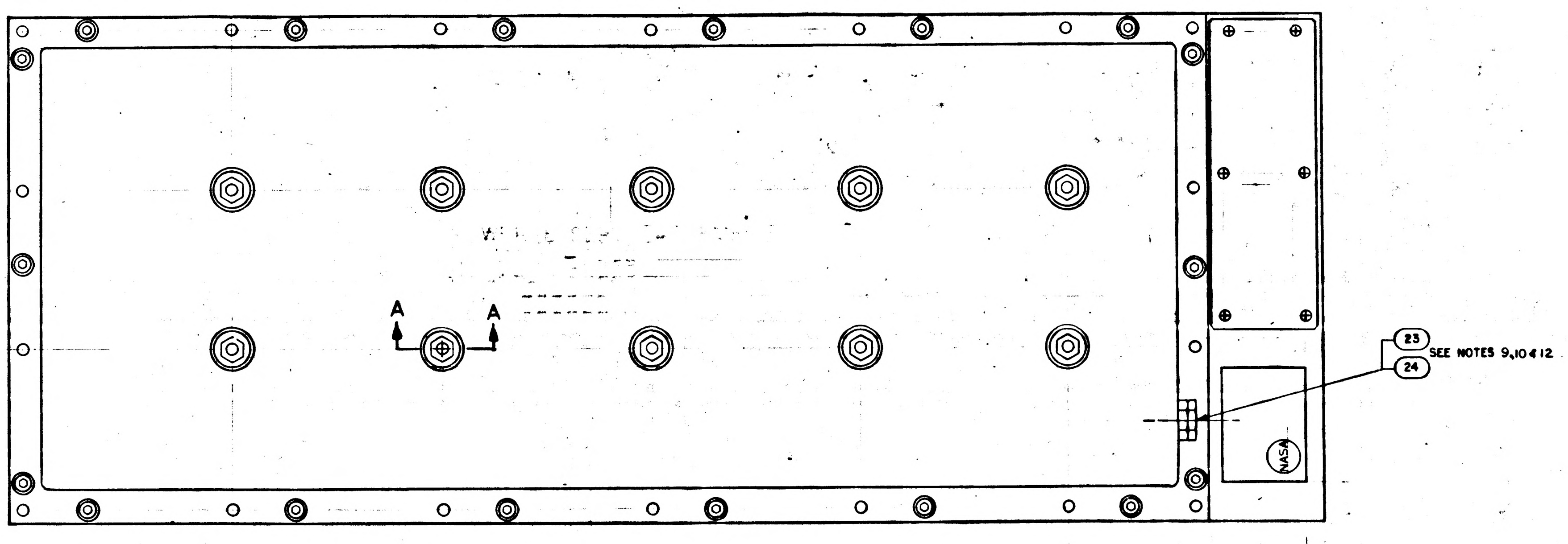
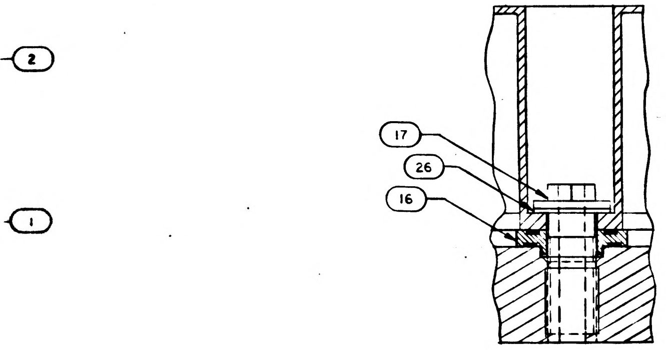




VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
10	2004148-004	WASHER, FLAT
18	2004148-003	WASHER, FLAT
1	1000159-5	PACKING, PREFORMED "O" RING
1	2007213-011	VALVE ASSEMBLY
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN
1	1004260-153	NAMEPLATE
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD
28	2008033-1	WASHER, FLAT
28	1010977-001	SCREW, CAPTIVE
10	1008835-001	BUSHING SEAL
10	1010975	GASKET, RETAINED
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS
1	2007110-011	800 CPS 1% AMPLIFIER
1	2007117-011	IMU AUXILIARY
1	2007123-011	RELAY MODULE
1	2007132-011	IMU LOAD COMPENSATION
3	2007114-011	GIMBAL SERVO AMPLIFIER
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER
1	2007107-011	POWER SUPPLY -28VDC
2	2007111-011	800 CPS 5% AMPLIFIER
1	2007108-011	3200 CPS 1% AMPLIFIER
1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS
1	6008031	COVER
1	1010974	GASKET, RETAINED
1	6007003-011	HEADER ASSEMBLY
-011	LIST OF MATERIALS	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ±.02 .XXX ±.005 ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 25 Nov 65
CHECKED 16 Nov 65
APPROVED
APPROVED 9/27/65
APPROVED MIT 28 Sept 65
NOT REQUIRED PER LETTER
NASA PP7-65-612
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

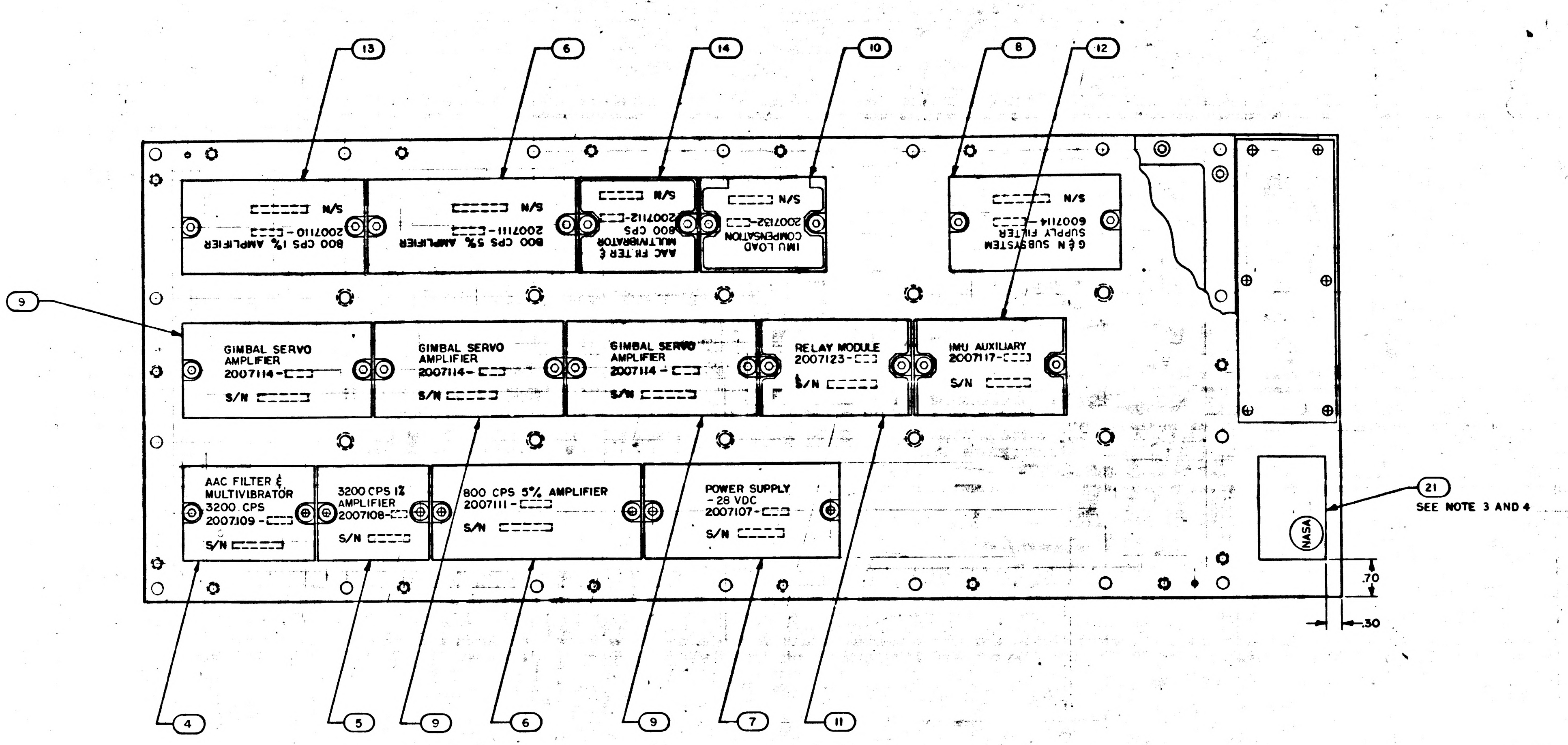
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1

MASTER

6007200 G

F-2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800 CPS 1% AMPLIFIER
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AAC FILTER &
MULTIVIBRATOR
800 CPS
2007112-
S/N
IMU LOAD
COMPENSATION
2007132-
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G & N SUBSYSTEM
SUPPLY FILTER
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GIMBAL SERVO
AMPLIFIER
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AMPLIFIER
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RELAY MODULE
2007123-
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109-
S/N
3200 CPS 1%
AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
POWER SUPPLY
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S/N
NASA
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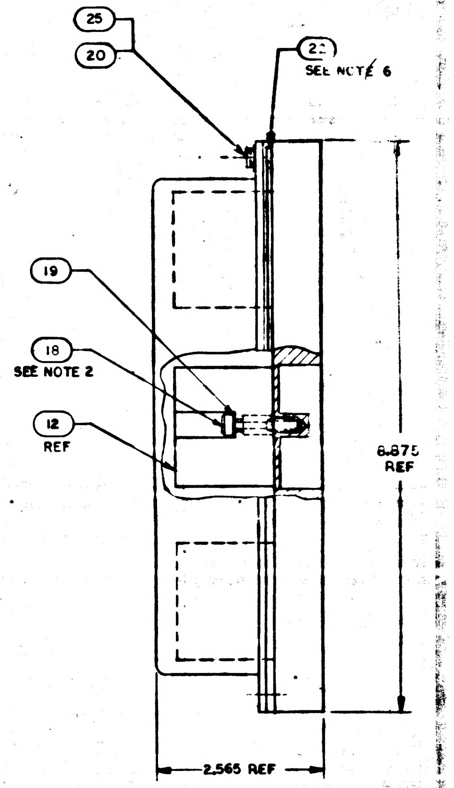
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SEE NOTE 2
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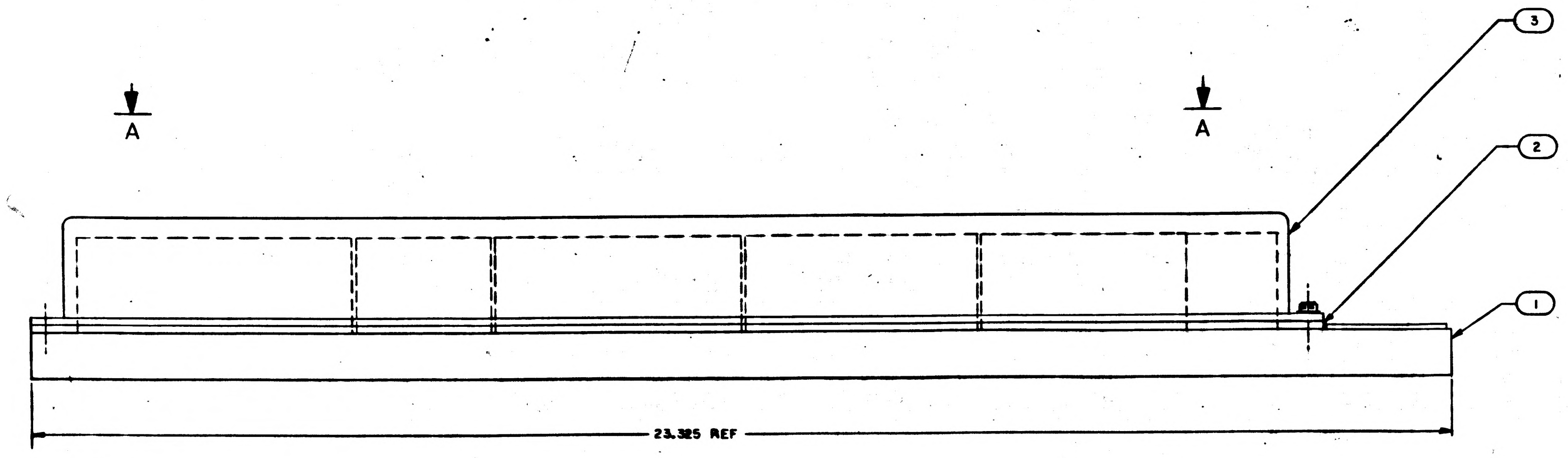
2.565 REF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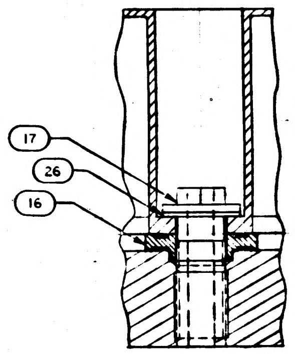


SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3

APOLLO G&N Specification
PS6007200 REV G
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

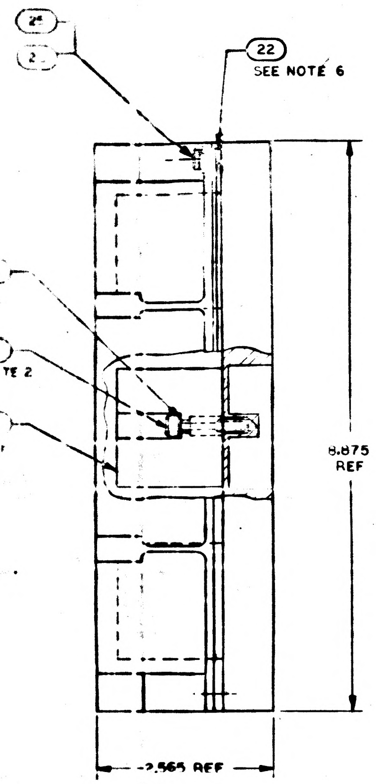
Record of Revisions

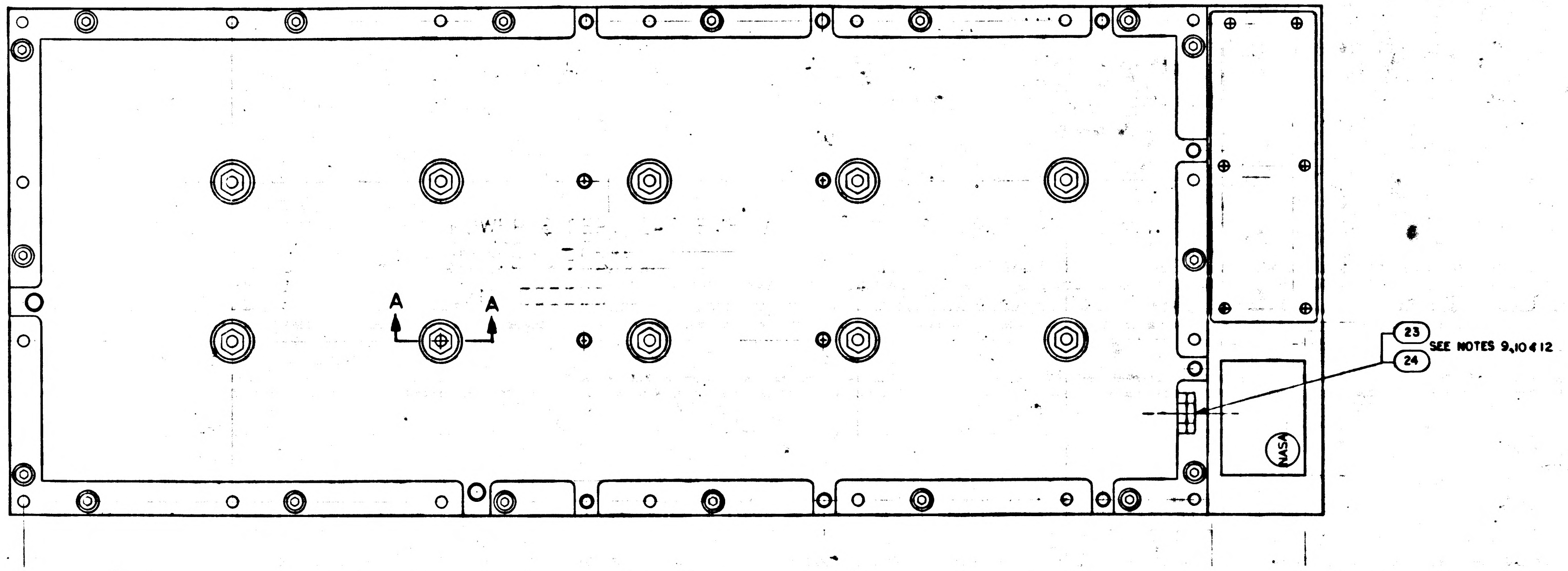
Date	Revision Letter	TDRR No.	Pages Revised	Approvals AC	Approvals NASA
8/11/66	A	30630	2, 6, 17	EA	---
9/22/66	B	31184	2	MGM EA	ACM
9/22/66	C	31221	3, 12	MGM EA	——
11/18/66	D	32036	2, 4, 8, 13-17. Now 18 pages,	MGM EA	——
			was 17 pages.		
3/2/67	E	33109	12	MGM EA	ACM
9/21/67	F	34653	2	MGM EA	--
2/8/68	G	35574	12	MGM EA	--

This specification consists of page 1 to 18 inclusive.

APPROVALS	C METZGE NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

REVISIONS						
SYM	ZONE	DESCRIPTION	BY	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				
E		REVISED PER TDRR 23201	KCN			
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				





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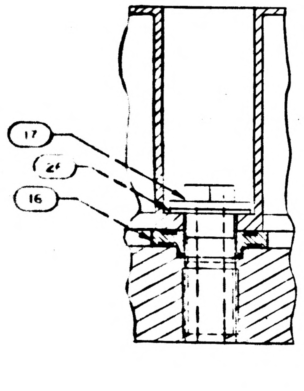


SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
10	2004148-004	WASHER, FLAT	26
18	2004148-003	WASHER, FLAT	25
1	1000159-5	PACKING, PREFORMED "O" RING	24
1	2007213-011	VALVE ASSEMBLY	23
1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1004260-153	NAMEPLATE	21
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	2008033-1	WASHER, FLAT	19
28	1010977-001	SCREW, CAPTIVE	18
10	1008835-001	BUSHING SEAL	17
10	1010975	GASKET, RETAINED	16
			15
1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	2007110-011	800 CPS 1% AMPLIFIER	13
1	2007117-011	IMU AUXILIARY	12
1	2007123-011	RELAY MODULE	11
1	2007132-011	IMU LOAD COMPENSATION	10
3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	2007107-011	POWER SUPPLY -28VDC	7
2	2007111-011	800 CPS 5% AMPLIFIER	6
1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	6008035	COVER	3
1	1010974	GASKET, RETAINED	2
1	6007003-011	HEADER ASSEMBLY	1
-011		LIST OF MATERIALS	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

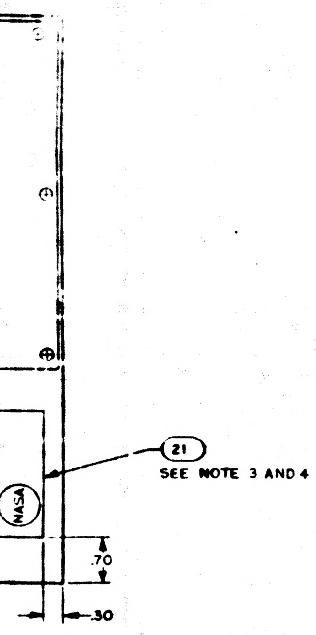
DRAWN 25 May 65
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT 28 Sep 65
NOT REQUIRED PER LETTER PP7-65-612
NASA MSC
DATE

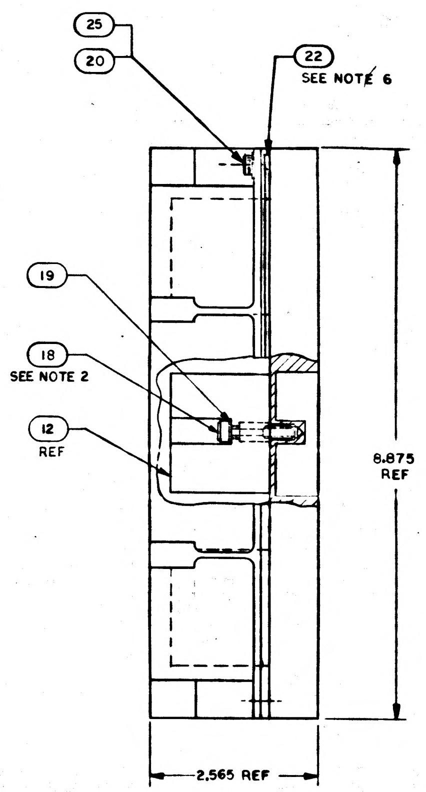
POWER & SERVO ASSEMBLY (LEM)

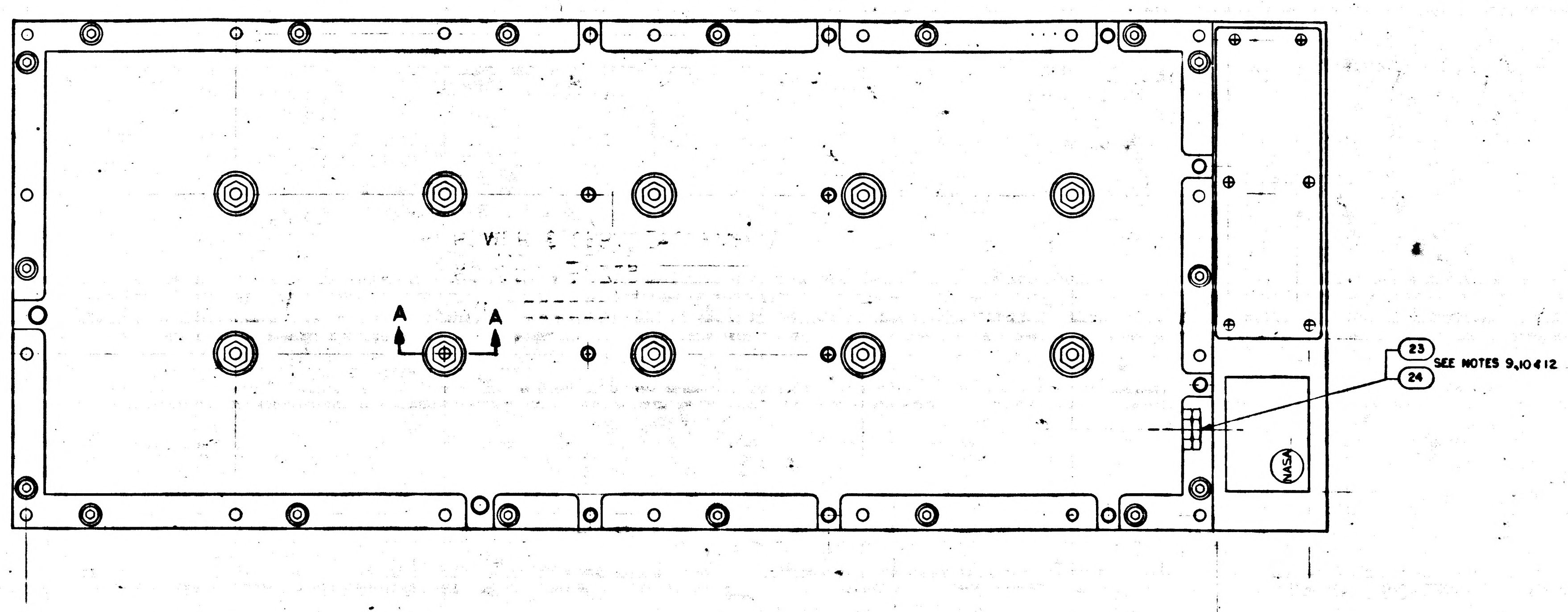
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 H

SYM	ZONE	DESCRIPTION
D		REPLACES WORD DWG REV C PER TDRR 22794
E		REVISED PER TDRR 23201
F		REVISED PER TDRR 23753
G		REVISED PER TDRR 24264
H		REVISED PER TDRR 25102







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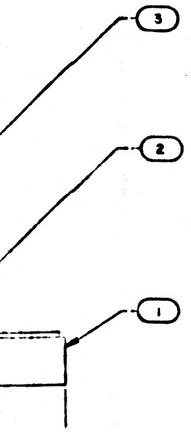
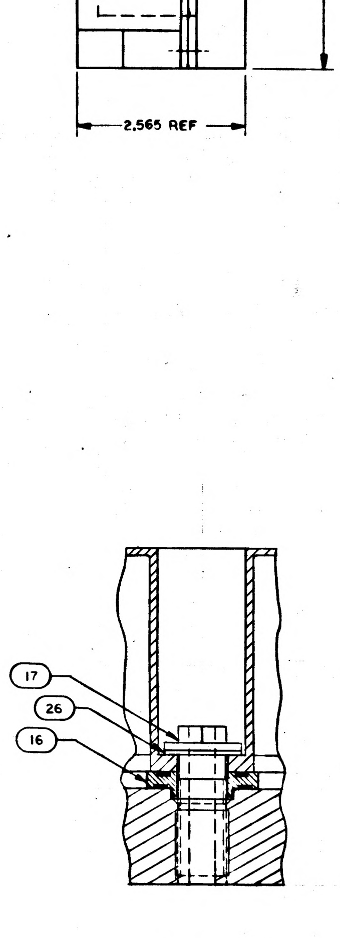




SECTION A-A
SCALE 2/1

(D) REPLACES WORD DWG REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE DESCRIPTION
10	2004148-004	WASHER, FLAT
18	2004148-003	WASHER, FLAT
1	1000159-5	PACKING, PREFORMED "O" RING
1	2007213-011	VALVE ASSEMBLY
1	1008828-001	GASKET SEALING PLATE-OU
1	1004260-153	NAMEPLATE
18	NAS1352-06-10	SCREW, CAP SOCKET HEAD
28	2008033-1	WASHER, FLAT
28	1010977-001	SCREW, CAPTIVE
10	1008835-001	BUSHING SEAL
10	1010975	GASKET RETAINED
1	2007112-011	[illegible]
1	2007110-011	800 CPS [illegible] AMPLIFIER
1	2007117-011	IMU AUXILIARY
1	2007123-011	RELAY MODULE
1	2007132-011	IMU LOAD COMPENSATION
3	2007114-011	GIMBAL SERVO AMPLIFIER
1	2007115-011	[illegible]
1	2007107-011	POWER SUPPLY -28VDC
2	2007111-011	800 CPS 5% AMPLIFIER
1	2007108-011	3200 CPS 1% AMPLIFIER
1	2007109-011	AAC FILTER & MULTIVIBRATOR
1	6008035	COVER
1	1010974	GASKET RETAINED
1	6007003-011	HEADER ASSEMBLY
-011		LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ± .02 .XXX ± .005 ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
NOT REQUIRED PER LETTER
AG/A 97/65612
MSC
DATE

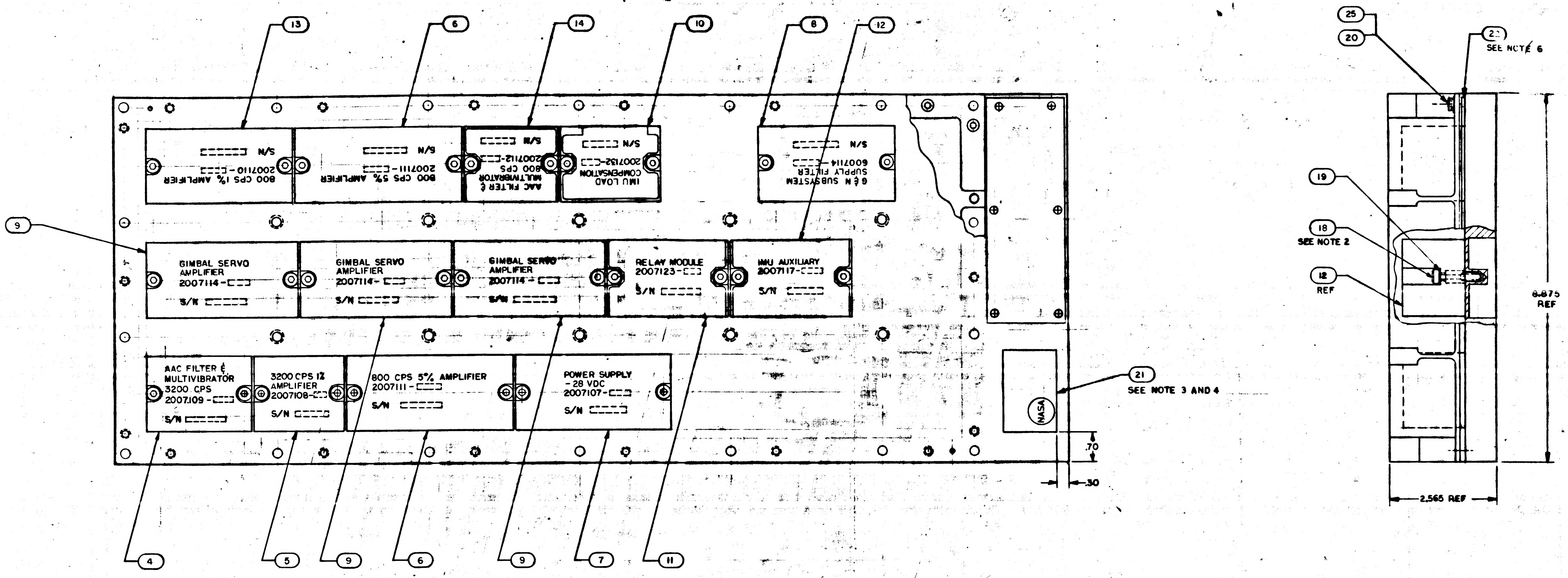
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO
(LEM)

CODE IDENT
SIZE J
60
SCALE

MASTER

E-9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800 CPS 1% AMPLIFIER
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S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
AAC FILTER &
MULTIVIBRATOR
800 CPS
2007112-
S/N
IMU LOAD
COMPENSATION
2007132-
S/N
6 & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
GIMBAL SERVO
AMPLIFIER
2007114-
S/N
GIMBAL SERVO
AMPLIFIER
2007114-
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GIMBAL SERVO
AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123-
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109-
S/N
3200 CPS 1%
AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111-
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POWER SUPPLY
-28 VDC
2007107-
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NASA
21
SEE NOTE 3 AND 4
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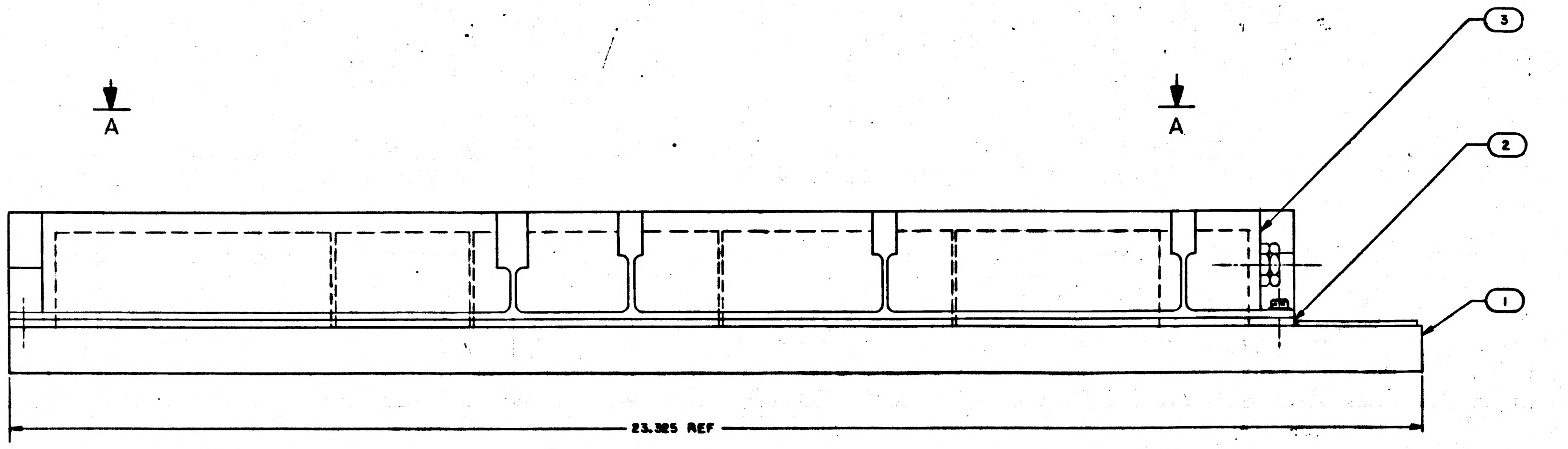
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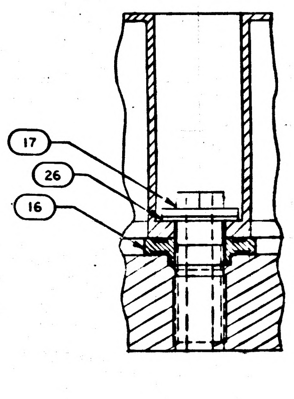


SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3

APOLLO G&N Specification
PS6007200 REV H
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals AC	Approvals NASA
8/11/66	A	30630	2, 6, 17 RDG/AC	EA	---
9/22/66	B	31184	2 RDG/AC	MGM EA	ACM
9/22/66	C	31221	3, 12 RDG/AC	MGM EA	---
11/18/66	D	32036	2, 4, 8, 13-17. Now 18 pages,	MGM EA	----
			was 17 pages. RDG/AC		
3/2/67	E	33109	12 RDG/AC	MGM EA	ACM
9/21/67	F	34653	2 RDG/AC	MGM EA	--
2/8/68	G	35574	12 [illegible]/AC	MGM EA	--
3/7/68	H	35827	5 [illegible]/AC	MGM EA	--

This specification consists of page 1 to 18 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	R.F. Ran[illegible] ACSP

3.1.8.4 OG Coarse Alginment Gain. The OG C/A signal gain shall be 61.6±15.4 amp/volt. A zero phase OG C/A signal shall produce a positive dc output, and a π phase OG C/A signal shall produce a negative dc output.

3.1.9 IMU Failure Detection. The IMU fail output shall be 0 to 1.5 vdc when a gimbal error signal is less than or equal to 5.5V rms. The IMU fail output shall be greater than +11 vdc when a gimbal error signal is greater than or equal to 7.5V rms.

3.1.10 Temperature Out of Limits Detection. Temperature out of limits outputs shall be as specified below:

- a. An output of 20.7±1.7 vdc when there is a temperature within limits input.
- b. An output less than or equal to 1.0 vdc when there is a temperature out of limits input.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with APOLLO G&N Drawing 6007200 and all drawings and engineering data referenced thereon.

3.2.2 Standards of Manufacturing, Manufacturing Process and Production

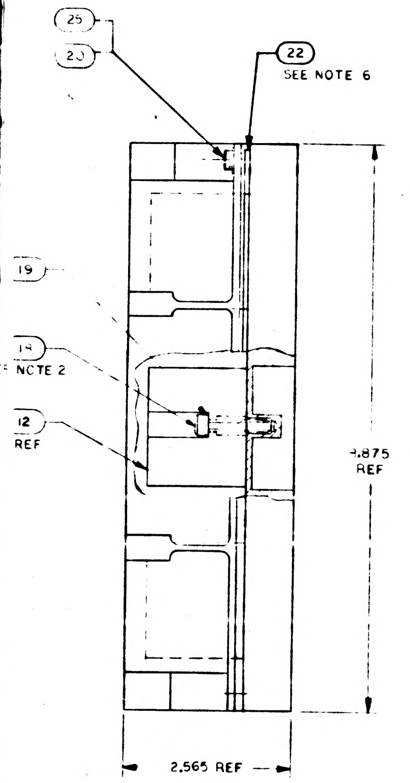
3.2.2.1 Continuity and DC Resistance. Continuity and dc resistance shall be in accordance with Table I.

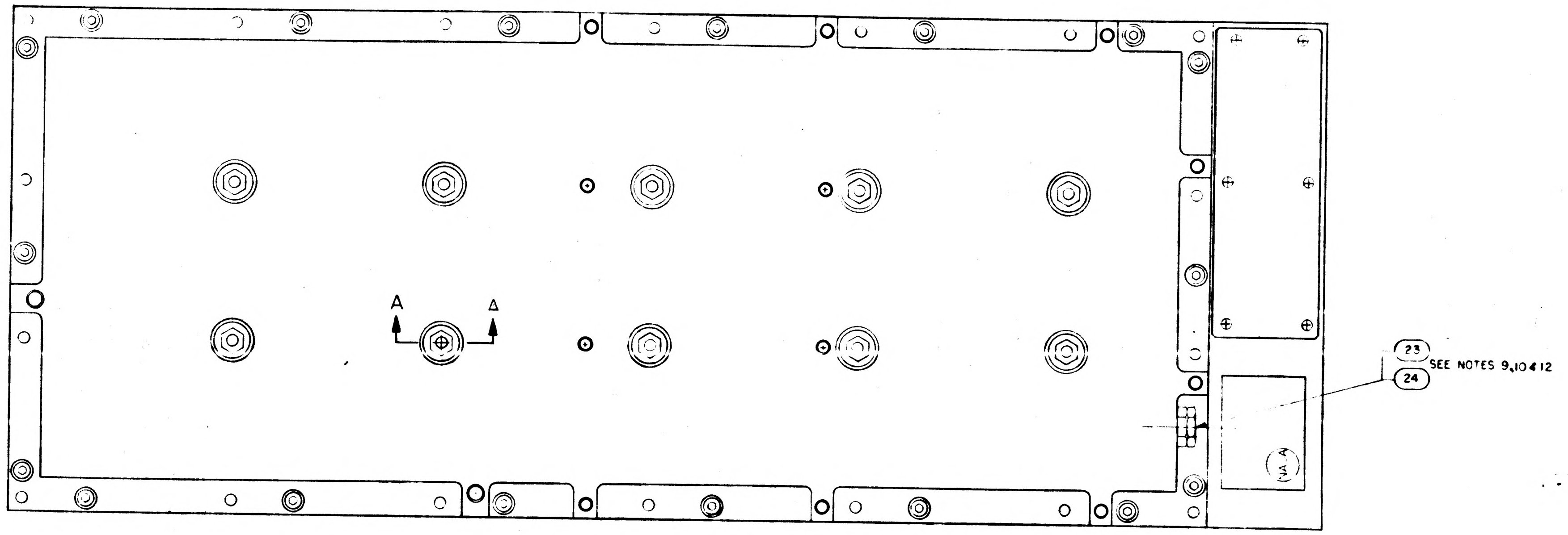
TABLE I

DC RESISTANCE

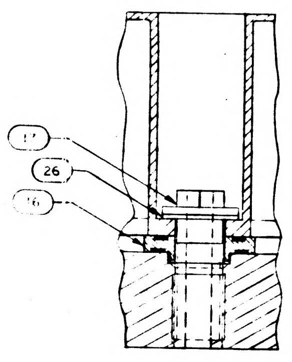
FROM	TO	RESISTANCE (ohms)	
(Hi)	(Lo)	Minimum	Maximum
45J19-A21	45J19-B21	5 meg	—
-B8	-B7	—	1.0
-K29	-H29	19.4K	20.6K
-A26	-A27	496.8	525.2
-B27	-B26	97	103
-K30	-H30	19.4K	20.6K
-A28	-A29	495.8	525.2
-B29	-B28	97	103
-K31	-H31	19.4K	20.6K
-A30	-A31	498.8	525.2
45J19-B31	45J19-B30	97	103

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				
E		REVISED PER TDRR 23201	KCH		OCT 65	
F		REVISED PER TDRR 23755			5 NOV	
G		REVISED PER TDRR 24564			DEC	
H		REVISED PER TDRR 25102				
J		REVISED PER TDRR 27504			19 APR	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	—	6007103-011	HEADER ASSEMBLY	27
10	10	2004148-004	WASHER, FLAT	26
18	18	2004148-003	WASHER, FLAT	25
1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1004260-153	NAMEPLATE	21
18	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	2008033-1	WASHER, FLAT	19
28	28	1010977-001	SCREW, CAPTIVE	18
10	10	1008635-001	BUSHING SEAL	17
10	10	1010975	GASKET, RETAINED	16
				15
1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	2007117-011	IMU AUXILIARY	12
1	1	2007123-011	RELAY MODULE	11
1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	[illegible]-35	COVER	3
1	1	1010974	GASKET, RETAINED	2
—	1	6007003-011	HEADER ASSEMBLY	1
-021	-011			

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 23 Jul 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

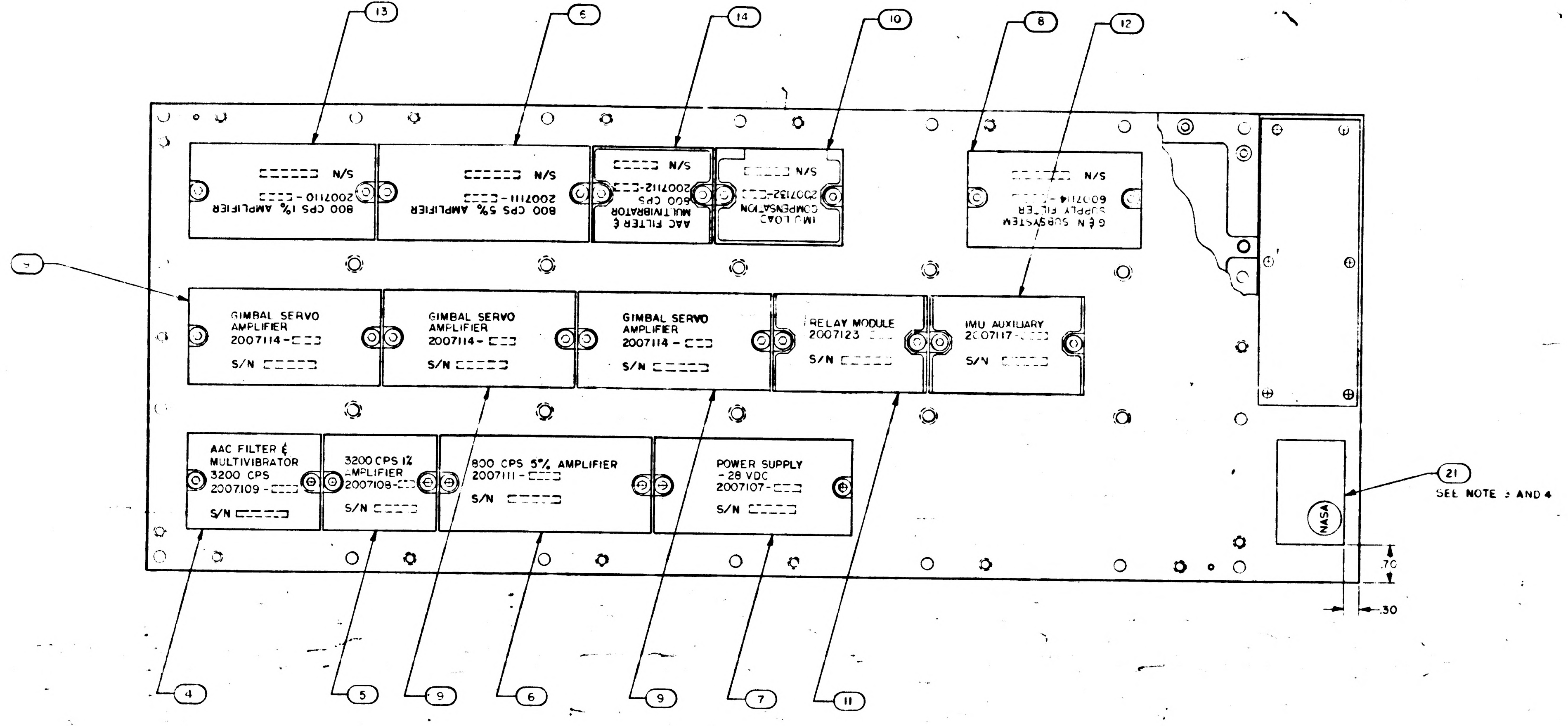
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 J

6007200 J

2760007200


13
6
14
10
8
12
N/S
2007110 -
800 CPS 1% AMPLIFIER
2007111 -
800 CPS 5% AMPLIFIER
2007112 -
600 CPS
MULTIVIBRATOR
AAC FILTER &
2007132 -
COMPENSATION
IMU LOAD
6007114 -
SUPPLY FILTER
G & N SUBSYSTEM
GIMBAL SERVO AMPLIFIER 2007114 -
S/N
RELAY MODULE 2007123
IMU AUXILIARY 2007117 -
AAC FILTER & MULTIVIBRATOR 3200 CPS 2007109 -
3200 CPS 1% AMPLIFIER 2007108 -
800 CPS 5% AMPLIFIER 2007111 -
POWER SUPPLY - 28 VDC 2007107 -
NASA
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SEE NOTE 3 AND 4
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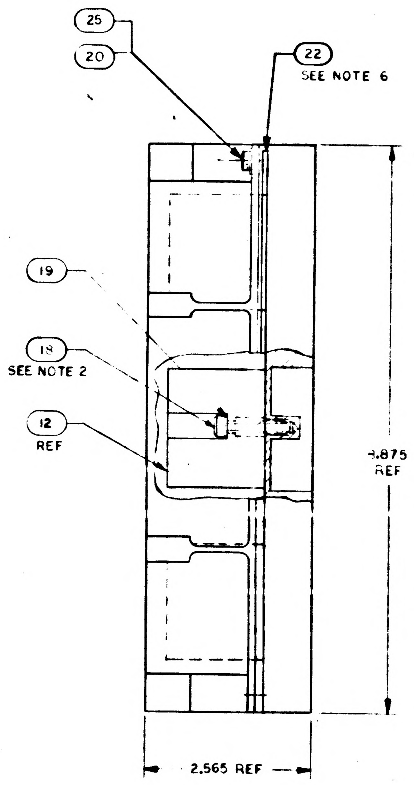
7
11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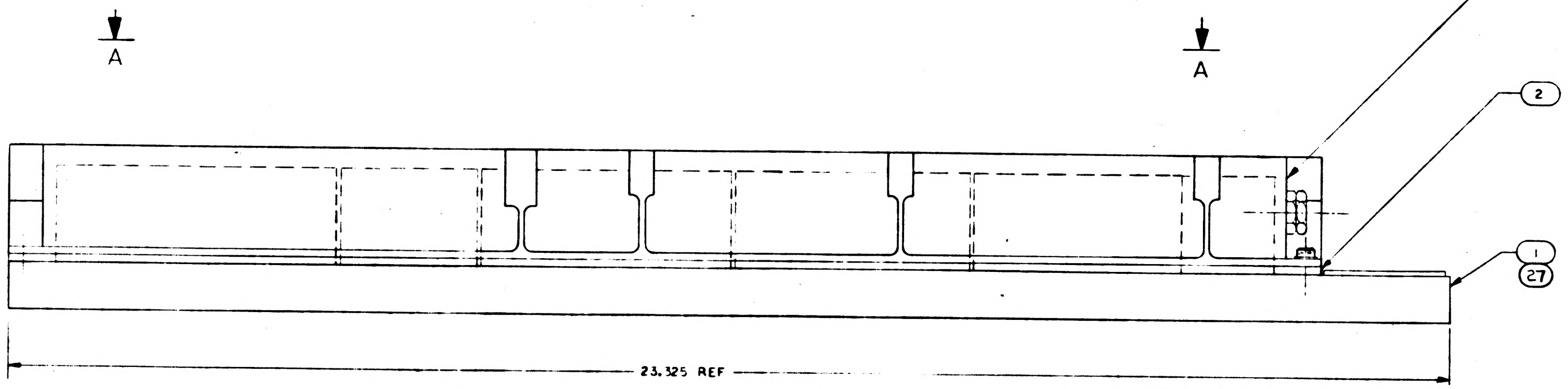
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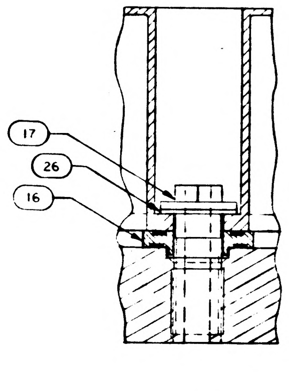
23.325 REF



SECTION A–A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 AND FIND NO. 20 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND TYPE
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3

6007200	J

1760007200

APOLLO G&N Specification
PS6007200 REV J
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

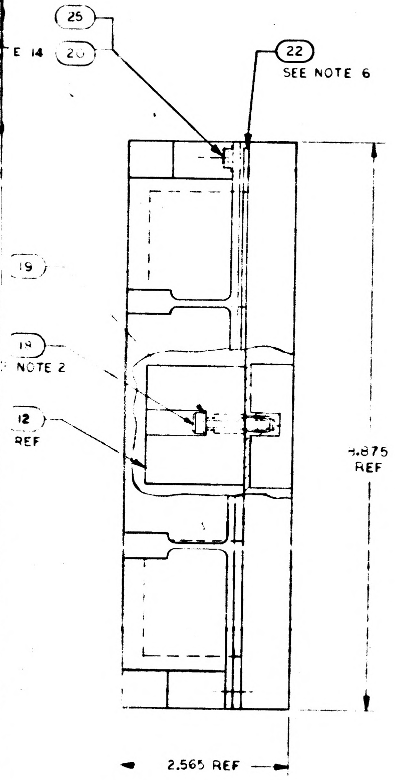
Record of Revisions

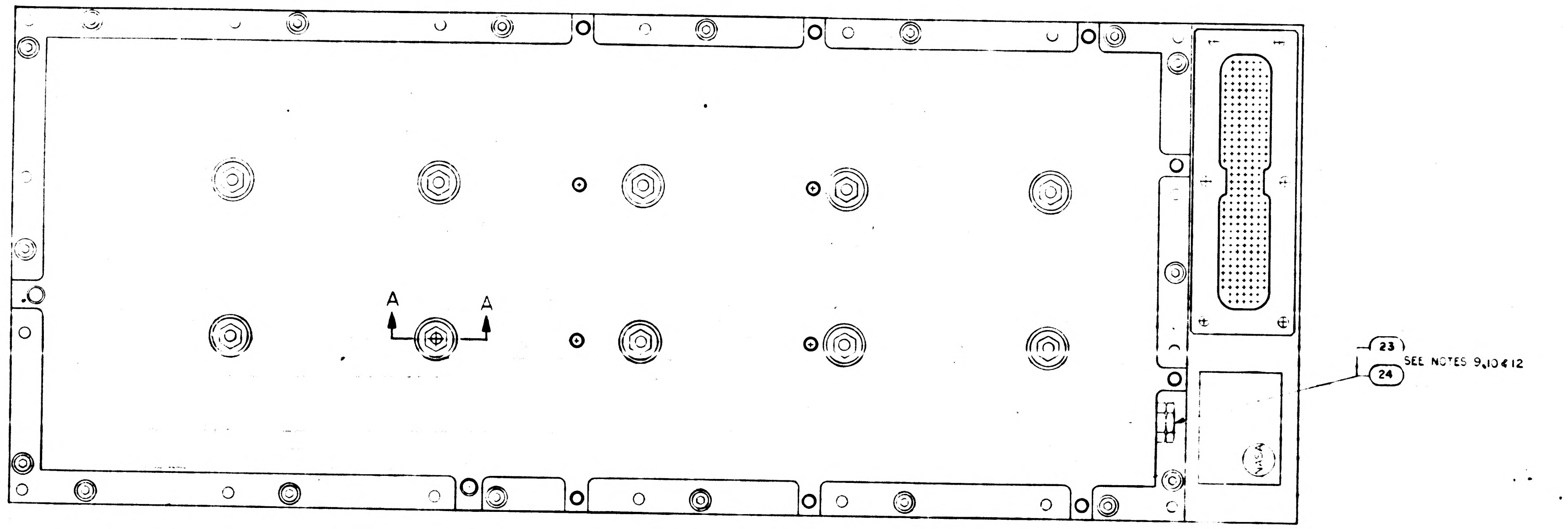
Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				AC	NASA
8/11/66	A	30630	2, 6, 17 RDG/AC	EA	---
9/22/66	B	31184	2 RDG/AC	MGM EA	ACM
9/22/66	C	31221	3, 12 RDG/AC	MGM EA	---
11/18/66	D	32036	2, 4, 8, 13-17. Now 18 pages,	MGM EA	----
			was 17 pages. RDG/AC		
3/2/67	E	33109	12 RDG/AC	MGM EA	ACM
9/21/67	F	34653	2 RDG/AC	MGM EA	--
2/8/68	G	35574	12	MGM EA	--
3/7/68	H	35827	5	MGM EA	--
12/19/68	J	37133	2	MGM EA	--

This specification consists of page 1 to 18 inclusive.

APPROVALS	C. METZGE NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				
E		REVISED PER TDRR 23201	KCH		OCT 65	
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				
J		REVISED PER TDRR 27504			19 APR 66	
K		REVISED PER TDRR 27817	JB.		19 APR 66	





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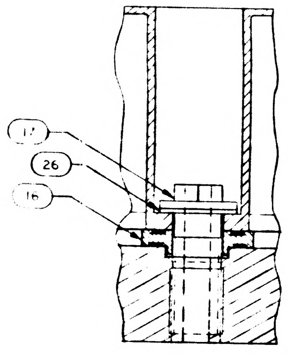


SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

1	—	6007103-011	HEADER ASSEMBLY	27
10	10	2004148-004	WASHER, FLAT	26
18	18	2004148-003	WASHER, FLAT	25
1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1008628-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1004260-153	NAMEPLATE	21
18	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	2008033-1	WASHER, FLAT	19
28	28	1010977-001	SCREW, CAPTIVE	18
10	10	1009835-001	BUSHING SEAL	17
10	10	1010975	GASKET, RETAINED	16
				15
1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	2007117-011	IMU [illegible]	12
1	1	2007123-011	RELAY MODULE	11
1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	2007113-011	GIMBAL SERVO AMPLIFIER	9
1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	[illegible]-35	[illegible]	3
1	1	1010974	GASKET, RETAINED	2
—	1	6007003-011	HEADER ASSEMBLY	1
	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-021	-011			

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX±.03 .XXX±.005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED Bonarrigo
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

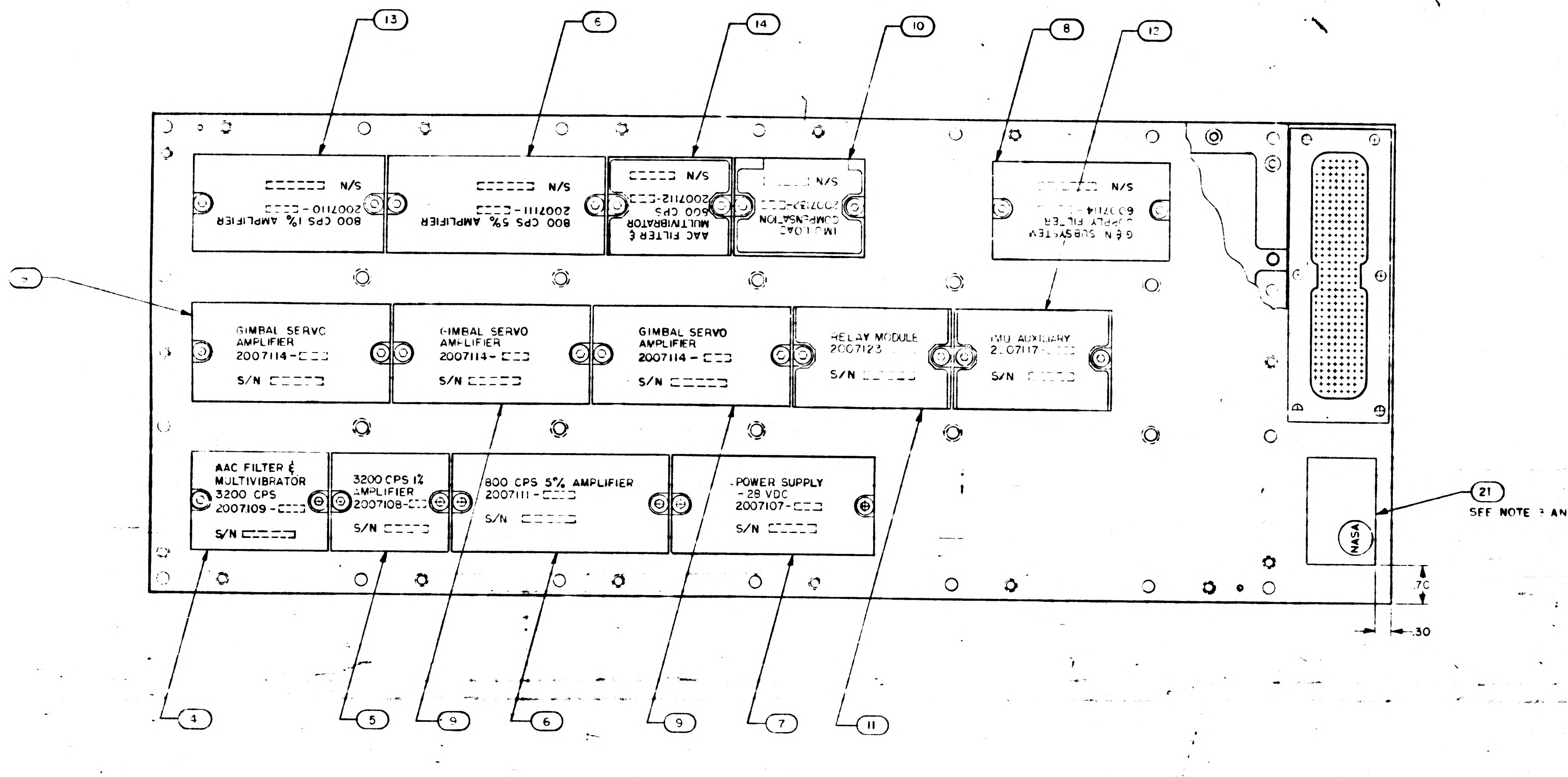
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 K

2760007200


13
6
14
10
8
12
2
800 CPS 1% AMPLIFIER
2007110-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
AAC FILTER & MULTIVIBRATOR 600 CPS
2007112-
S/N
IMU LOAD COMPENSATION
2007132-
S/N
G & N SUBSYSTEM SUPPLY FILTER
6007114-
S/N
GIMBAL SERVO AMPLIFIER
2007114-
S/N
GIMBAL SERVO AMPLIFIER
2007114-
S/N
GIMBAL SERVO AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER & MULTIVIBRATOR 3200 CPS
2007109-
S/N
3200 CPS 1% AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
POWER SUPPLY -28 VDC
2007107-
S/N
NASA
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SEE NOTE 3 AND 4
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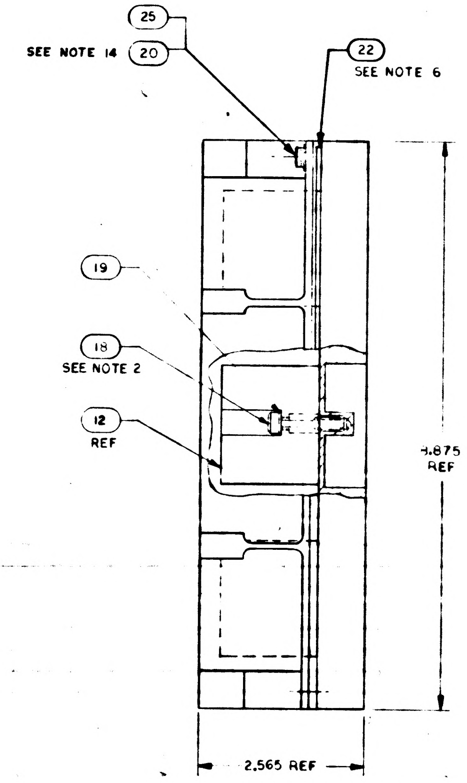
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SEE NOTE 14
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SEE NOTE 6
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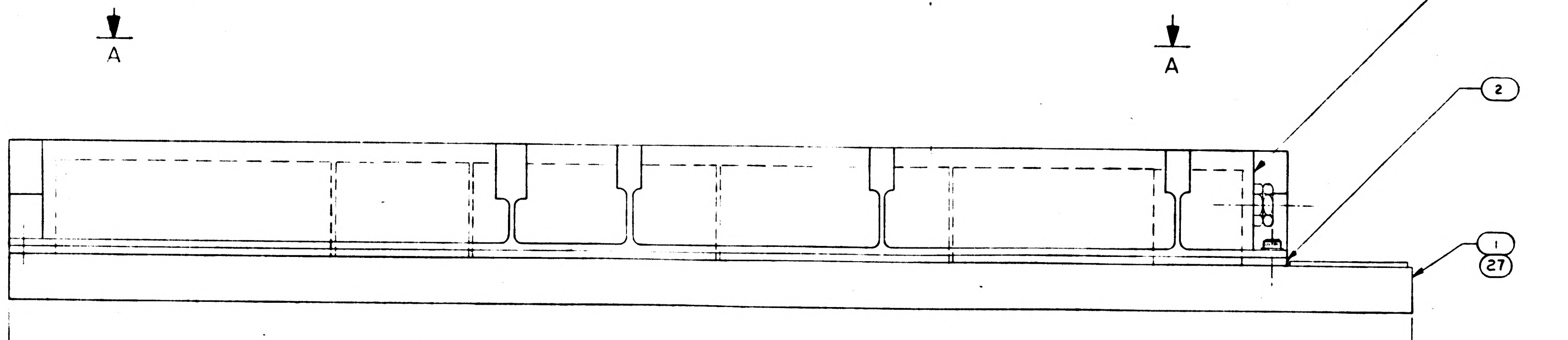
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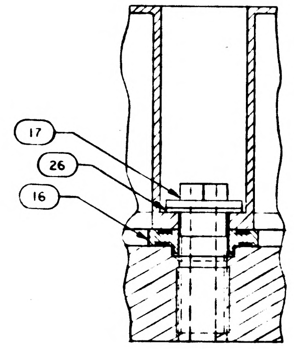


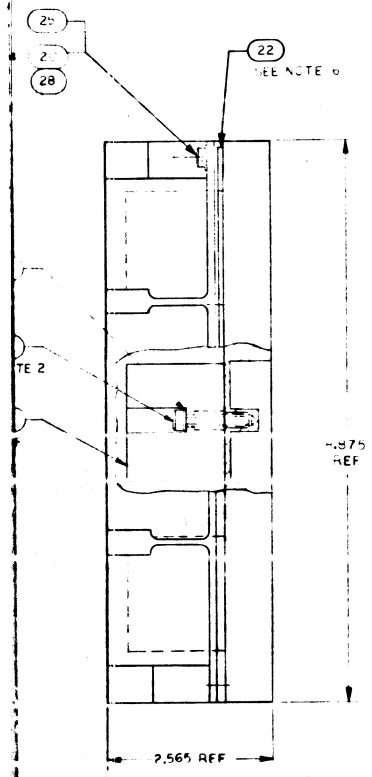
SECTION A–A
SCALE 2/1

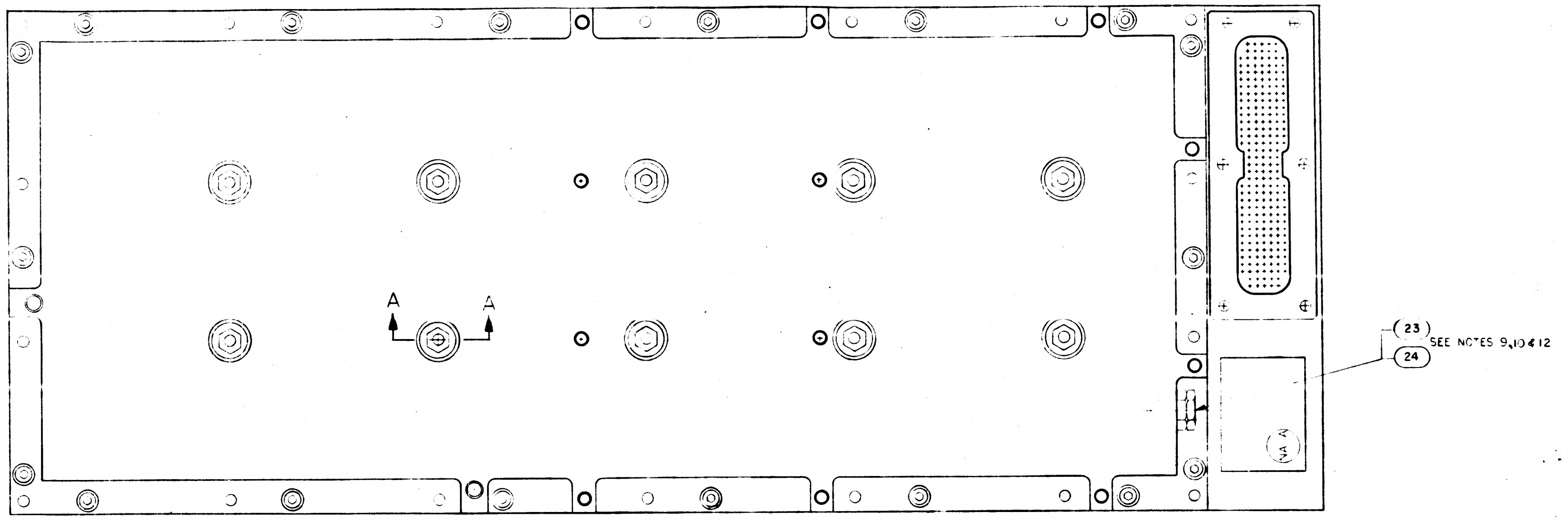
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 10C6879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND 1002290, TYPE I.
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 AND 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 TO BE 17-19 IN POUNDS.

6007200	K

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
D		REPLACES WORD DWG REV C PER TDRR 22774					
E		REVISED PER TDRR 23201	KCH		OCT 65		
F		REVISED PER TDRR 23755			5 Nov		
G		REVISED PER TDRR 24564					
H		REVISED PER TDRR 25102					
J		REVISED PER TDRR 27504			19 APR 66		
K		REVISED PER TDRR 27817	B.		19 APR 66		
L		REVISED PER TDRR 27996	PHG		20 APR 66		





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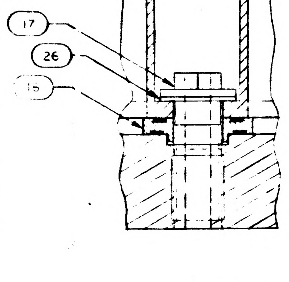


SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

18	–	1010977-002	SCREW, CAP SOCKET HEAD	28
1	–	6007103-011	HEADER ASSEMBLY	27
10	10	2004148-004	WASHER, FLAT	26
18	18	2004148-003	WASHER, FLAT	25
1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1004260-153	NAMEPLATE	21
–	14	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	2008033-1	WASHER, FLAT	19
28	28	1010977-001	SCREW, CAPTIVE	18
10	10	1009635-001	BUSHING SEAL	17
10	10	1010975	GASKET, RETAINED	16
				15
1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	2007117-011	IMU AUXILIARY	12
1	1	2007123-011	RELAY MODULE	11
1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	[illegible]-035	COVER	3
1	1	1010974	GASKET, RETAINED	2
–	1	6007003-011	HEADER ASSEMBLY	1
	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

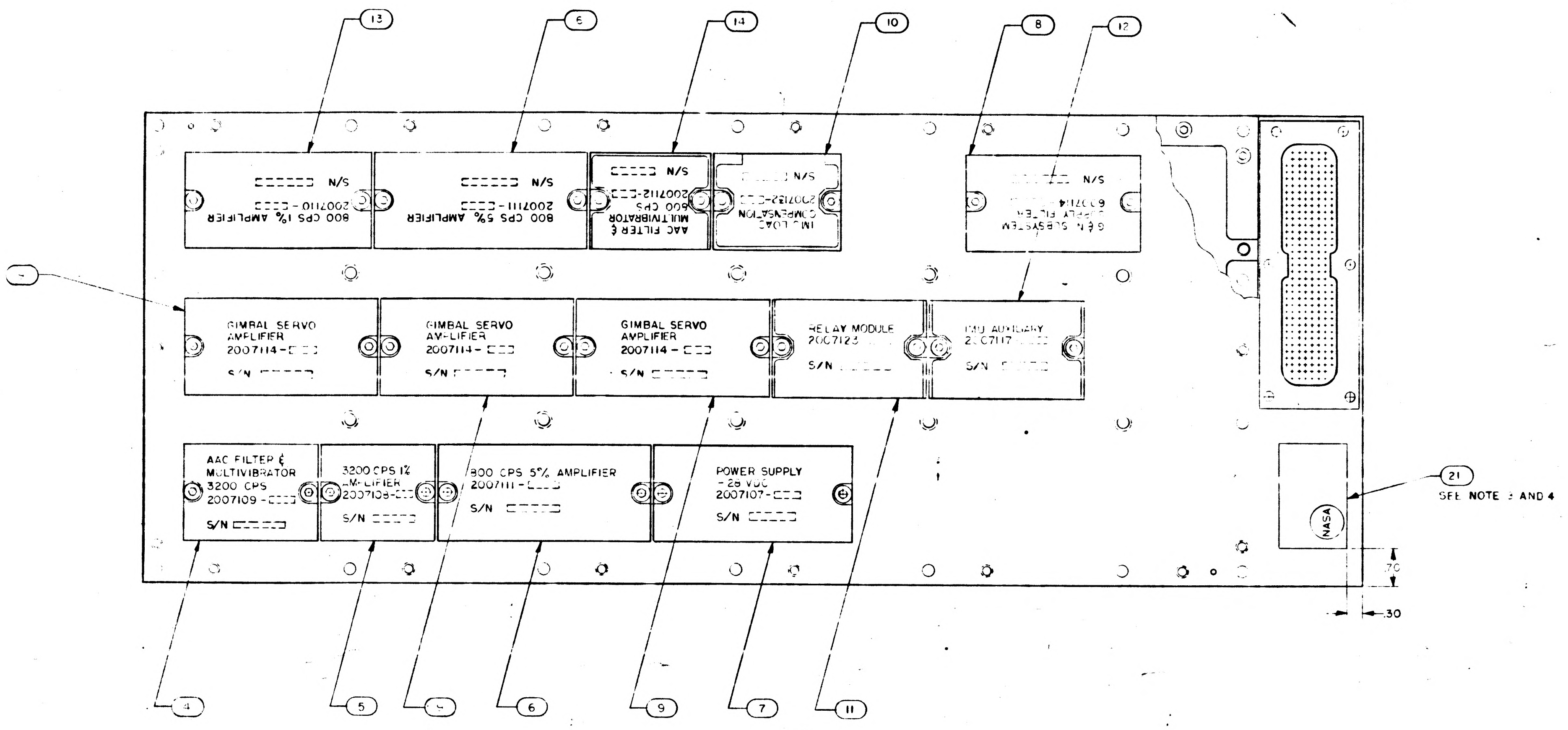
POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 L

6007200 L

2/6007200


13
6
14
10
8
12
N/S
800 CPS 1% AMPLIFIER
2007110-
800 CPS 5% AMPLIFIER
2007111-
AAC FILTER & MULTIVIBRATOR
600 CPS
2007112-
IMU LOAD COMPENSATION
2007132-
G & N SUBSYSTEM SUPPLY FILTER
6007114
GIMBAL SERVO AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123
IMU AUXILIARY
2007117
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109-
3200 CPS 1% AMPLIFIER
2007108-
800 CPS 5% AMPLIFIER
2007111-
POWER SUPPLY
-28 VDC
2007107-
NASA
21
SEE NOTE 3 AND 4
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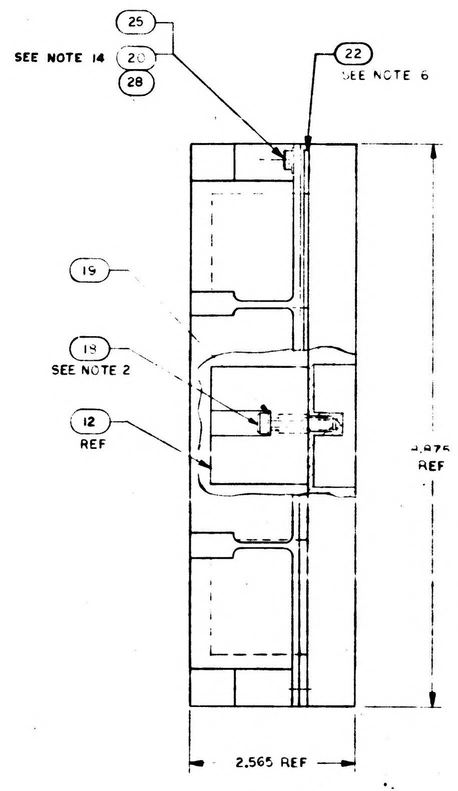
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SEE NOTE 6
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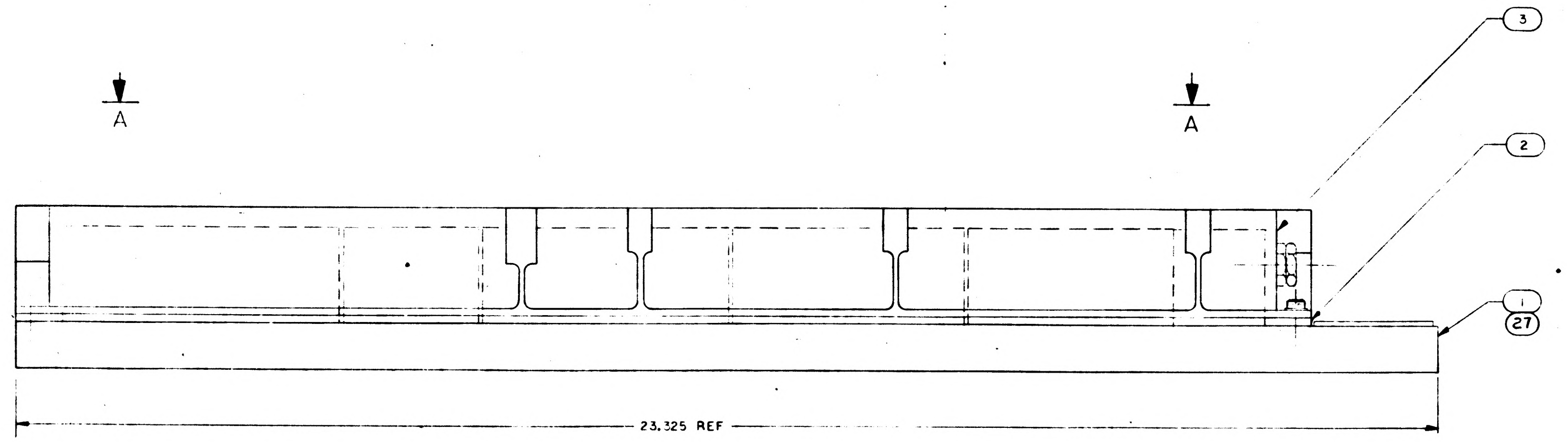
2.565 REF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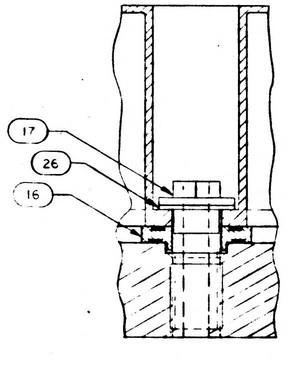
23.325 REF

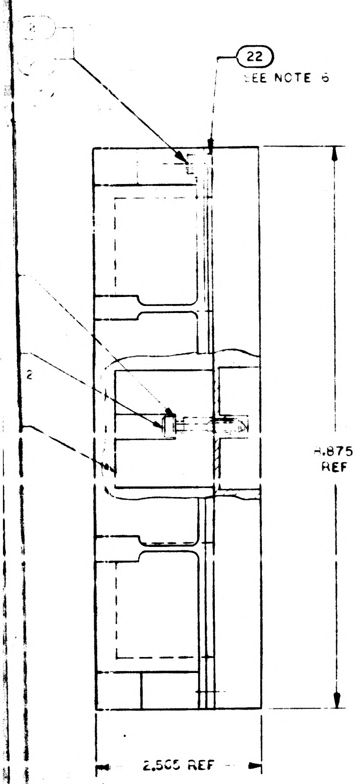


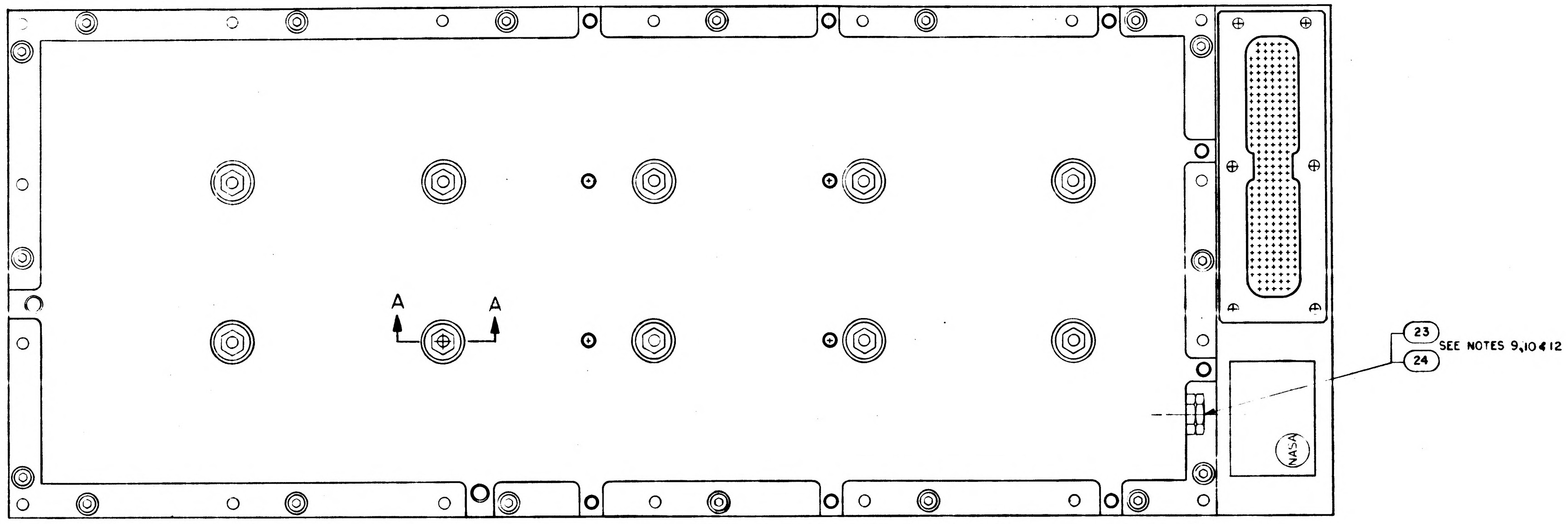
SECTION A–A
SCALE 2/1

NOTES:

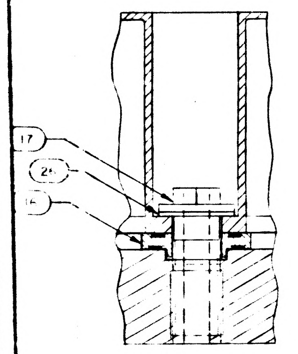
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND 1002290, TYPE I.
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 AND 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 28 TO BE 17-19 IN. LBS.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				
E		REVISED PER TDRR 23201	KCH		OCT 65	
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	B.	CP	21-APR-66	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

1	–	–	6007003-021	HEADER ASSEMBLY	29
18	18	–	1010977-002	SCREW, CAP SOCKET HEAD	28
–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1004260-153	NAMEPLATE	21
–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	1010975	GASKET, RETAINED	16
					15
1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	2007123-011	RELAY MODULE	11
1	1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	1	6008035	COVER	3
1	1	1	1010974	GASKET, RETAINED	2
–	–	1	6007003-011	HEADER ASSEMBLY	1
		QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-031	-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN P. Balbini 25 May 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED 4/22/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

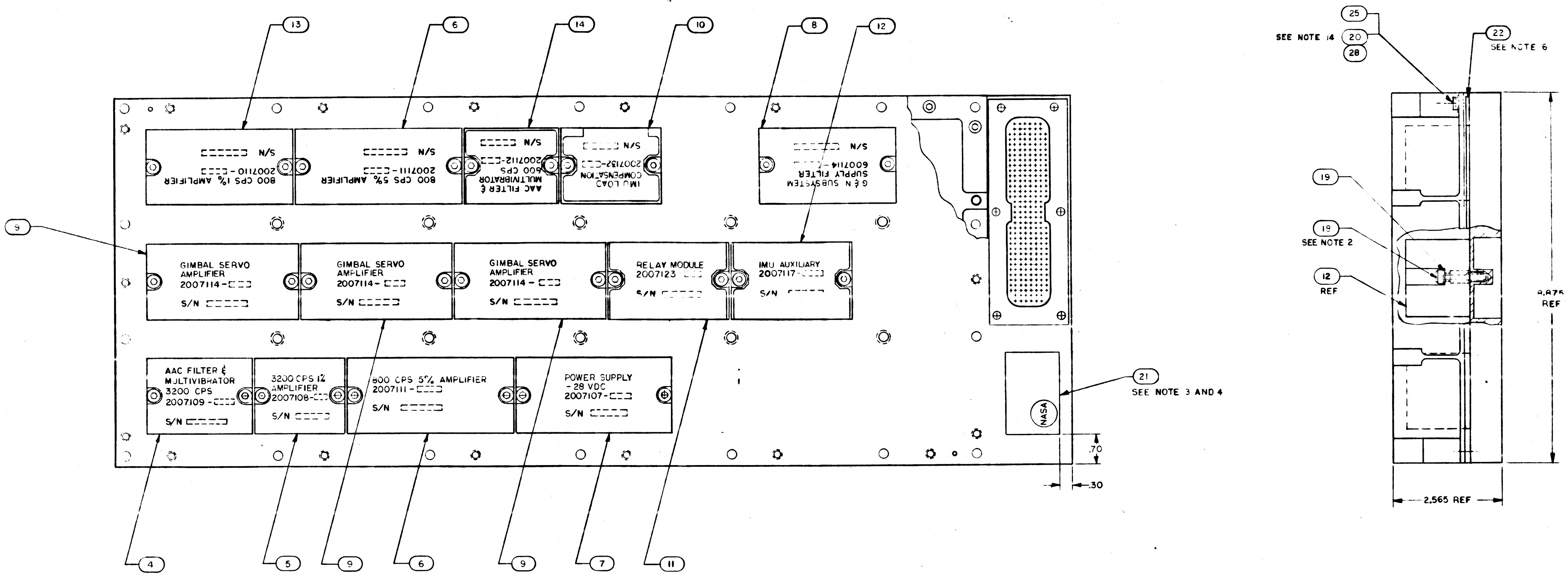
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 M

3H

2/6007200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14
10
8
12
9
800 CPS 1% AMPLIFIER
2007110-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
AAC FILTER &
MULTIVIBRATOR
800 CPS
2007112-
S/N
IMU LOAD
COMPENSATION
2007132-
S/N
G & N SUBSYSTEM
SUPPLY FILTER
6007114-
S/N
GIMBAL SERVO
AMPLIFIER
2007114-
S/N
GIMBAL SERVO
AMPLIFIER
2007114-
S/N
GIMBAL SERVO
AMPLIFIER
2007114-
S/N
RELAY MODULE
2007123
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109-
S/N
3200 CPS 1%
AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111-
S/N
POWER SUPPLY
- 28 VDC
2007107-
S/N
NASA
21
SEE NOTE 3 AND 4
.70
.30
4
5
9
6
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SEE NOTE 14
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SEE NOTE 6
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SEE NOTE 2
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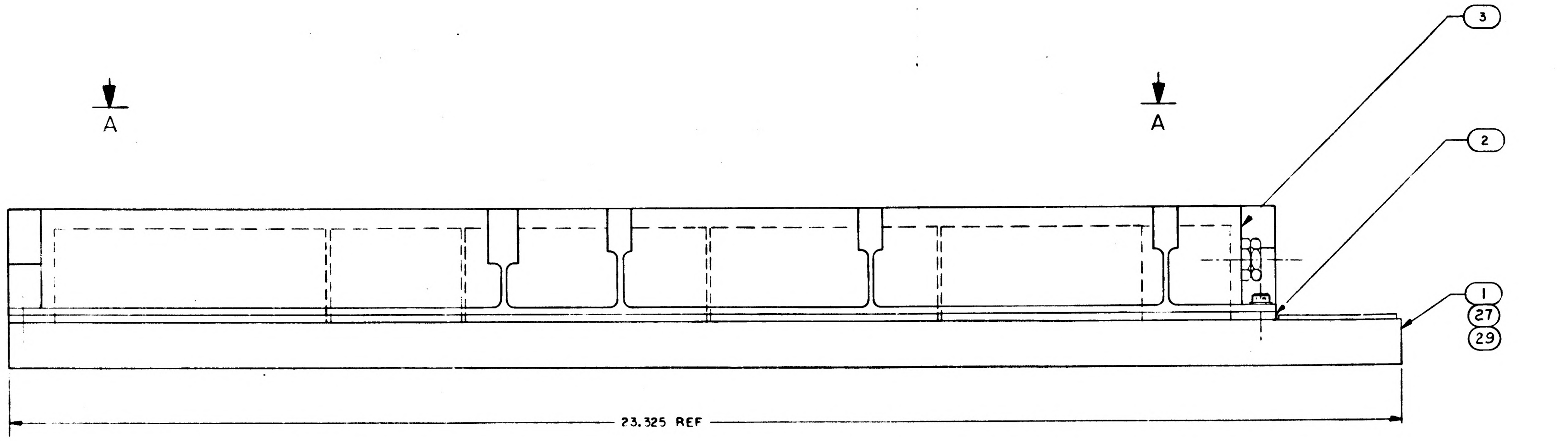
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A
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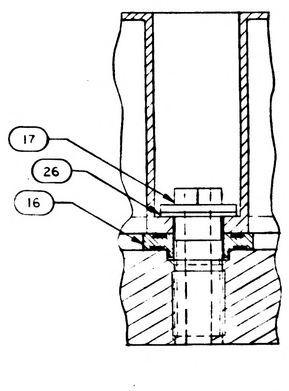
2
1
27
29
23.325 REF



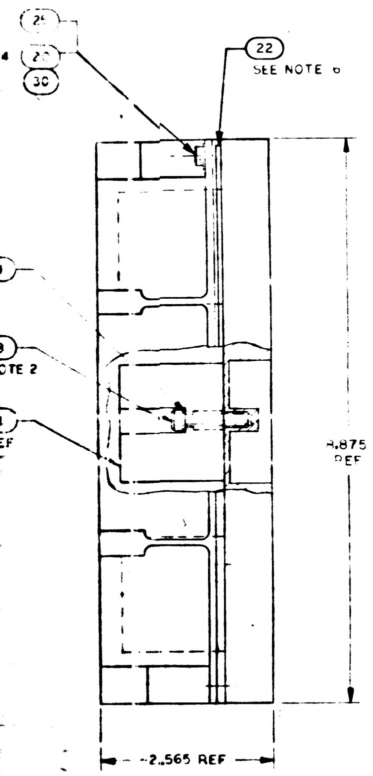
SECTION A–A
SCALE 2/1

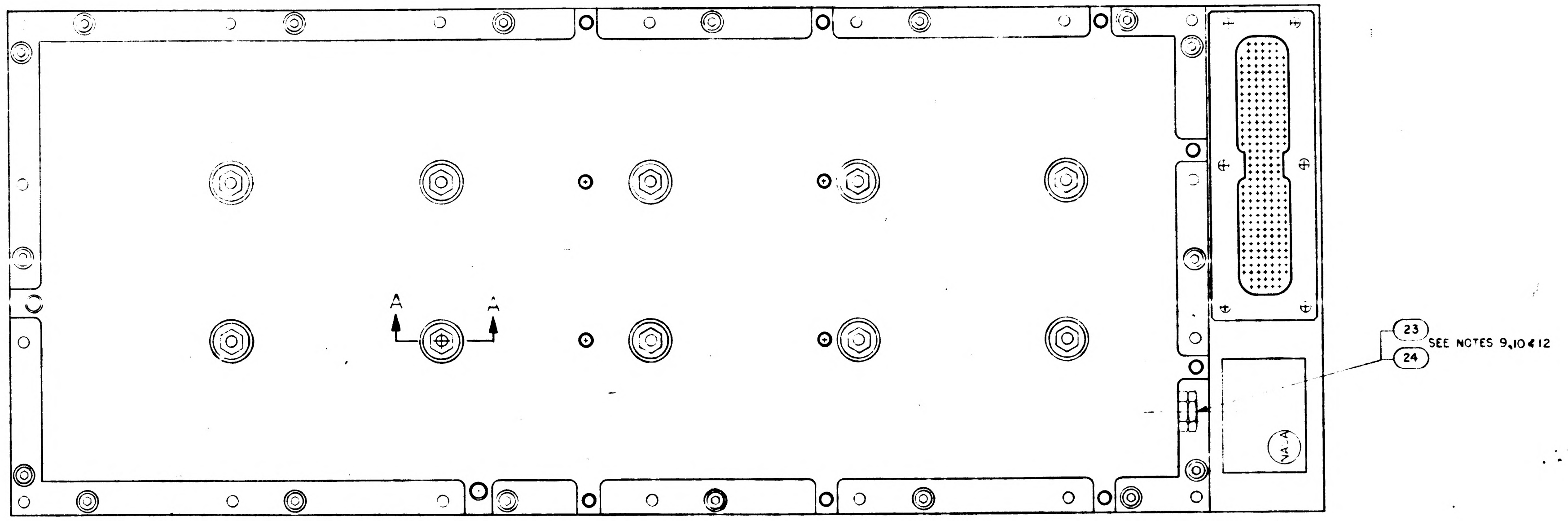
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO.18 TO BE 18-22 INCH POUNDS
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED, CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND 1002290, TYPE I.
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 AND 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 28 TO BE 17-19 IN. LBS.

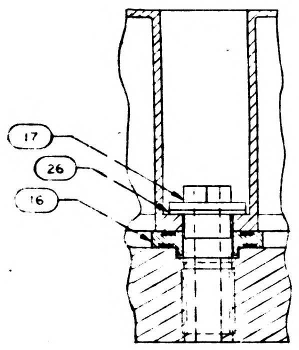
6007200	M

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				W
E		REVISED PER TDRR 23201	KCH		OCT 65	W
F		REVISED PER TDRR 23755			5 Nov	W
G		REVISED PER TDRR 24564				W
H		REVISED PER TDRR 25102				W
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	B.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RM.T		10 JUN 66	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

-031	-021	-011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
18	18	–	1008874-019	SCREW, CAP, SOCKET HD.	30
1	–	–	6007003-021	HEADER ASSEMBLY	29
~~18~~	~~18~~	~~–~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1004260-153	NAMEPLATE	21
–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	[illegible]-001	BUSHING SEAL	17
10	10	10	1010975	GASKET, RETAINED	16
					15
1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	2007123-011	RELAY MODULE	11
1	1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	1	6008035	COVER	3
1	1	1	1010974	GASKET, RETAINED	2
–	–	1	6007003-011	HEADER ASSEMBLY	1
		QTY REQD			

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX±.03 .XXX±.005 ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN P. Pillini 25 Jul 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

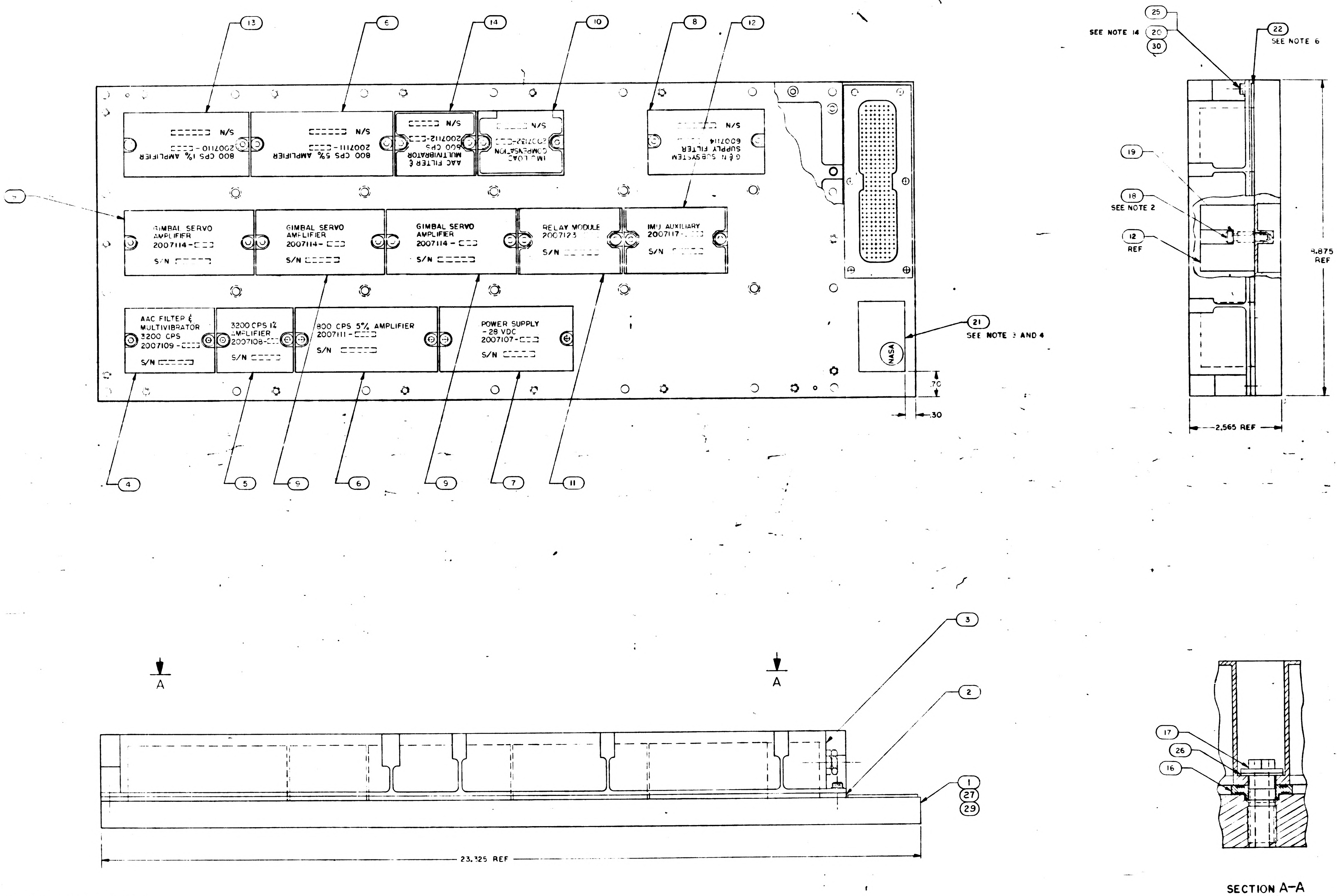
POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 N

6007200 N

2/6007200


D
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12
800 CPS 1% AMPLIFIER
2007110 - ▭▭▭
N/S ▭▭▭▭▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭▭
N/S ▭▭▭▭▭▭
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112 - ▭▭▭
N/S ▭▭▭▭▭
IMU LOAD COMPENSATION
2007132 - ▭▭▭
N/S ▭▭▭▭▭
G & N SUBSYSTEM SUPPLY FILTER
6007114
N/S ▭▭▭▭▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭▭
S/N ▭▭▭▭▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭▭
S/N ▭▭▭▭▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭▭
S/N ▭▭▭▭▭
RELAY MODULE
2007123
S/N ▭▭▭▭▭
IMU AUXILIARY
2007117 - ▭▭▭
S/N ▭▭▭▭▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭▭▭
S/N ▭▭▭▭▭
3200 CPS 1% AMPLIFIER
2007108 - ▭▭▭
S/N ▭▭▭▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭▭
S/N ▭▭▭▭▭
POWER SUPPLY
- 28 VDC
2007107 - ▭▭▭
S/N ▭▭▭▭▭
NASA
21
SEE NOTE 3 AND 4
.70
.30
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7
11
25
SEE NOTE 14
20
30
22
SEE NOTE 6
19
18
SEE NOTE 2
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REF
2.565 REF
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A
3
2
1
27
29
23.325 REF
17
26
16
SECTION A-A
SCALE 2/1

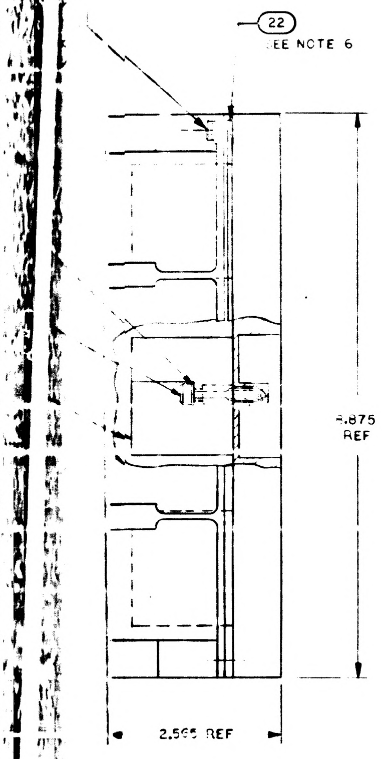
NOTES:

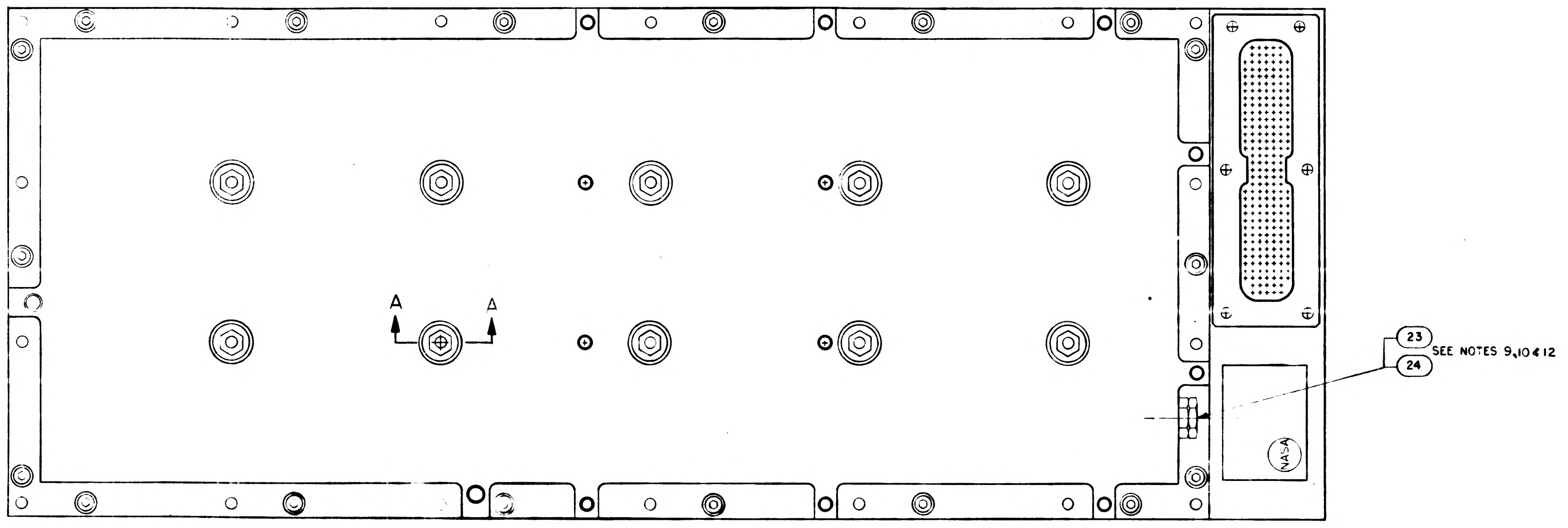
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE PER PS 6007200
8. LEAK TEST PER ND 1002290, TYPE I.
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 AND 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

A

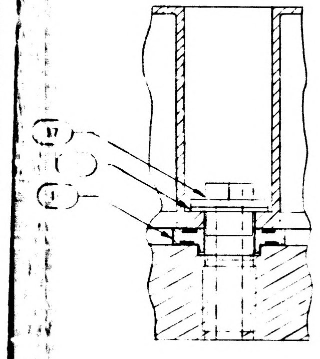
6007200 N

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				
E		REVISED PER TDRR 23201	KCH		[illegible]	
F		REVISED PER TDRR 23755			5 Nov	
G		REVISED PER TDRR 24564			[illegible]	
H		REVISED PER TDRR 25102			[illegible]	
J		REVISED PER TDRR 27504			13 APR-66	
K		REVISED PER TDRR 27817	B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	B.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RW		0 JUN 66	
P		REVISED PER TDRR 29437	B.		13-JUN-66	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

3H

18	18	-	1008874-019	SCREW, CAP, SOCKET HD.	30
1	-	-	6007003-021	HEADER ASSEMBLY	29
~~18~~	~~18~~	~~-~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
-	1	-	6007103-011	HEADER ASSEMBLY	27
10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	1	1	2007213-011	VALVE ASSEMBLY	23
1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1004260-153	NAMEPLATE	21
-	-	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	1008635-001	BUSHING SEAL	17
10	10	10	1010975	GASKET, RETAINED	16
					15
1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	2007123-011	RELAY MODULE	11
1	1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	1	1	6008035	COVER	3
1	1	1	1010974	GASKET, RETAINED	2
-	-	1	6007003-011	HEADER ASSEMBLY	1
		QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-031	-021	-011	LIST OF MATERIALS		

6007200 P

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN L. Pellini 25 May 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED [illegible]
APPROVED MIT W Kupfer
APPROVED MSC
DATE

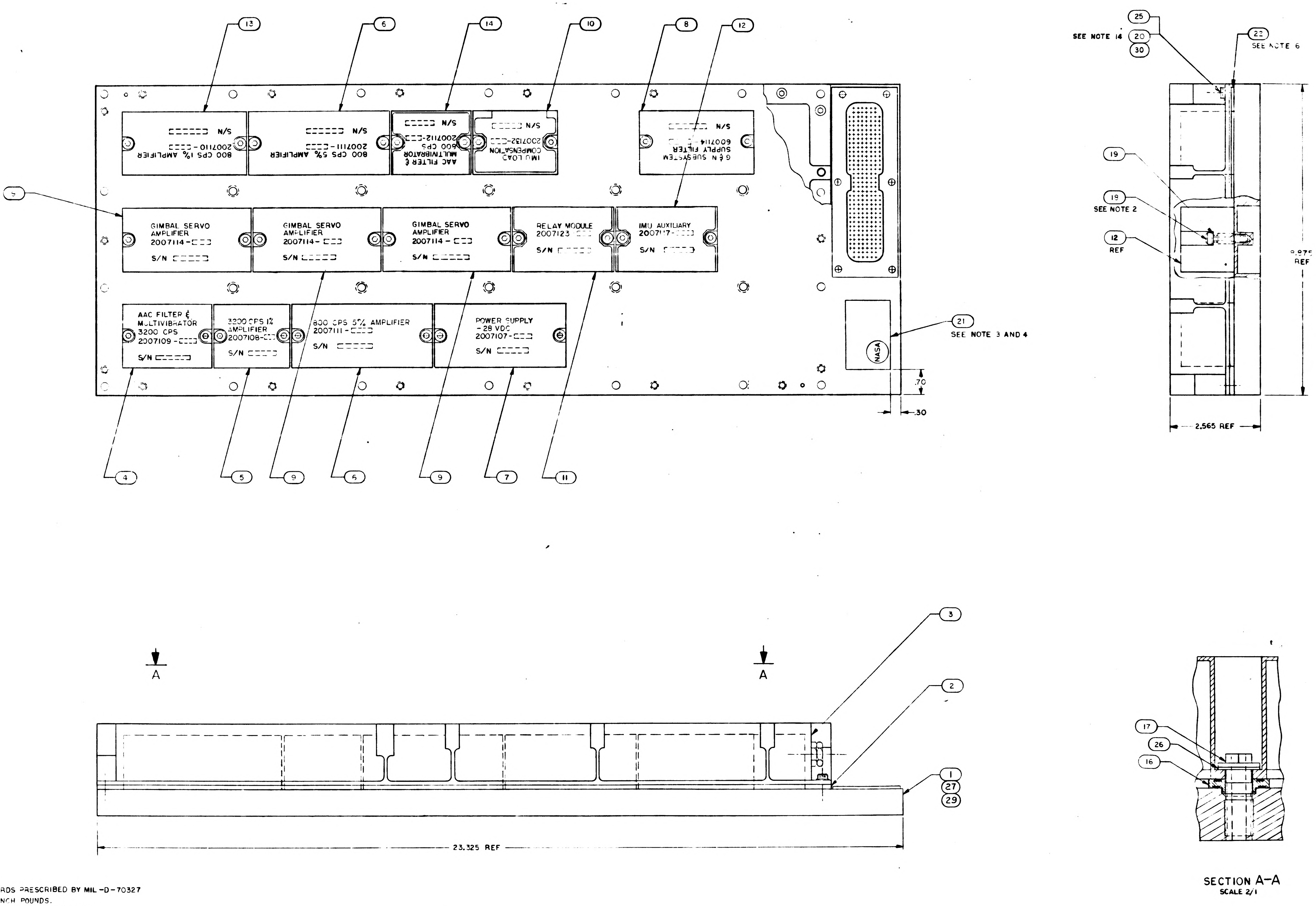
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

7200 F

246007200



13
6
14
10
8
12
5
800 CPS 1% AMPLIFIER
2007110 -
S/N
800 CPS 5% AMPLIFIER
2007111 -
S/N
AAC FILTER &
MULTIVIBRATOR
800 CPS
2007112-
S/N
IMU LOAD
COMPENSATION
2007132-
S/N
G & N SUBSYSTEM
SUPPLY FILTER
6007114 -
S/N
GIMBAL SERVO
AMPLIFIER
2007114 -
S/N
GIMBAL SERVO
AMPLIFIER
2007114 -
S/N
GIMBAL SERVO
AMPLIFIER
2007114 -
S/N
RELAY MODULE
2007123
S/N
IMU AUXILIARY
2007117-
S/N
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109 -
S/N
3200 CPS 1%
AMPLIFIER
2007108-
S/N
800 CPS 5% AMPLIFIER
2007111 -
S/N
POWER SUPPLY
- 28 VDC
2007107-
S/N
NASA
21
SEE NOTE 3 AND 4
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SEE NOTE 14
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22
SEE NOTE 6
19
19
SEE NOTE 2
12
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2.875
REF
2.565 REF
A
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3
2
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29
23.325 REF
17
26
16
SECTION A–A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1 PER ND1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I.
9. MOUNTING TORQUE FOR FIND NO. 23 BODY TO BE 55-60 INCH POUNDS
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 TO BE 22-27 INCH POUNDS
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 PRIOR TO INSTALLATION IN FIND NO. 3
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 AND 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

6007200

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				WK
E		REVISED PER TDRR 23201	KCH		8 OCT 65	WK
F		REVISED PER TDRR 23755			5 Nov 65	WK
G		REVISED PER TDRR 24564			9 Dec 65	WK
H		REVISED PER TDRR 25102			12 Jan 66	WK
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	B.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RWLT		10 JUN 66	
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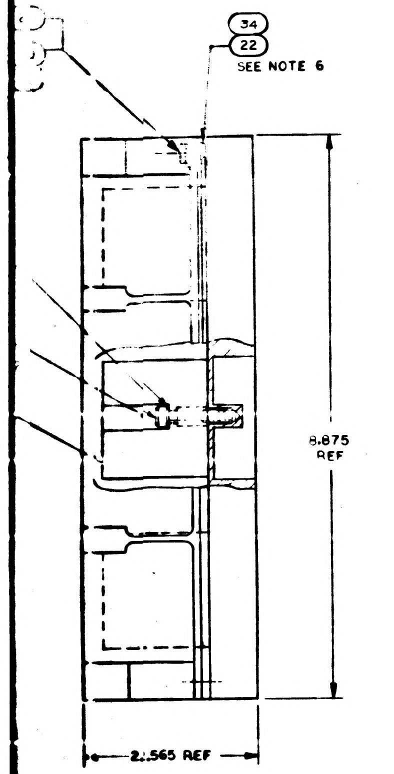
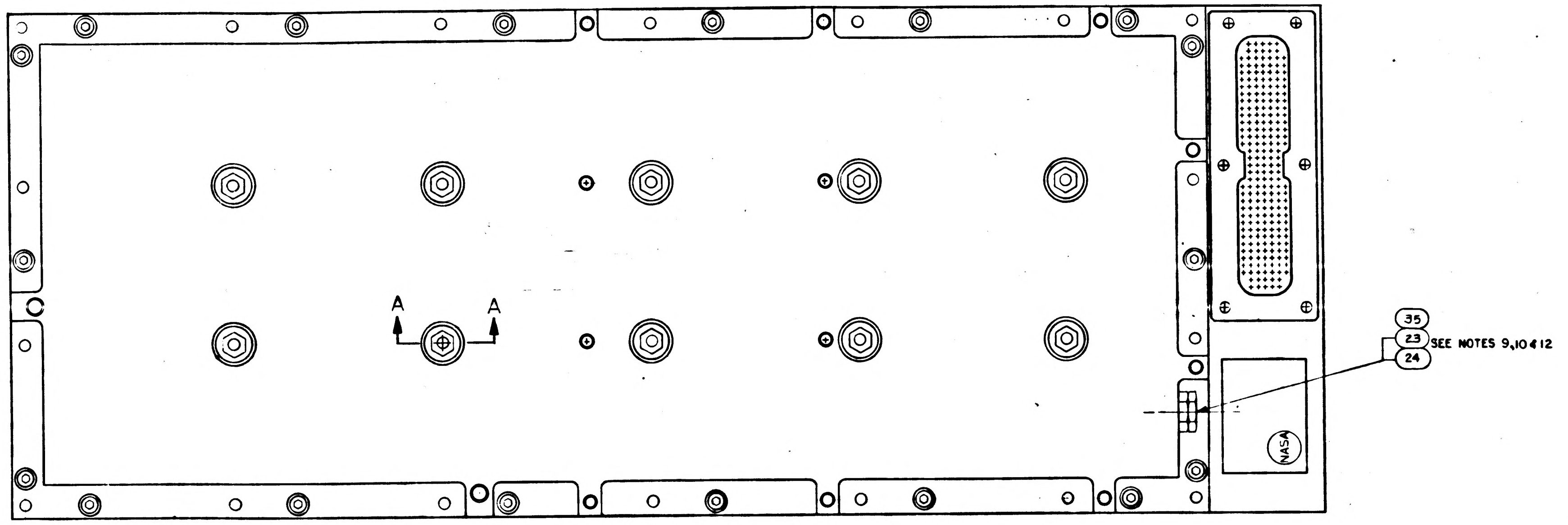
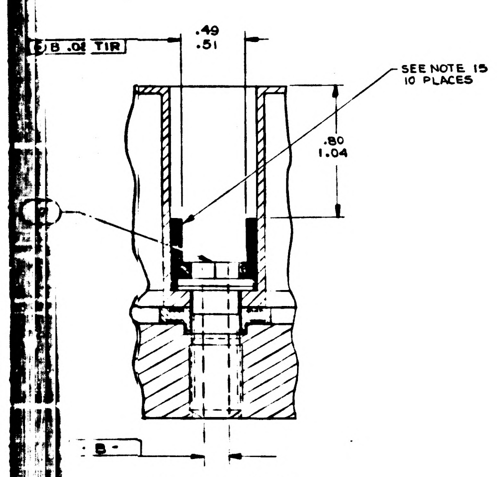




VIEW A-A



SECTION A–A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

1	—	—	—	2007213-021	VALVE ASSEMBLY	35
1	—	—	—	2010784-001	GASKET, SEALING PLATE	34
1	—	—	—	6010658	COVER, INSEP. ASSY	33
1	—	—	—	2010784-006	GASKET, RETAINED	32
1	—	—	—	6007105-021	HEADER ASSEMBLY	31
18	18	18	—	1008874-019	SCREW, CAP, SOCKET HD.	30
—	1	—	—	6007003-021	HEADER ASSEMBLY	29
	~~18~~	~~18~~	~~—~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
—	—	1	—	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
—	1	1	1	2007213-011	VALVE ASSEMBLY	23
—	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1004260-153	NAMEPLATE	21
—	—	—	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	10	1010975	GASKET, RETAINED	16
						15
1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
—	1	1	1	6008035	COVER	3
—	1	1	1	1010974	GASKET, RETAINED	2
—	—	—	1	6007003-011	HEADER ASSEMBLY	1
			QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
-041	-031	-021	-011	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN P. Bellini 25 Mar 65
CHECKED Benavrigo 16 Jul 65
APPROVED
APPROVED 9/27/65
APPROVED W Kupfer 28 Sep 65
MIT
NOT REQ'D PER LETTER
APPROVED 63-45-612
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

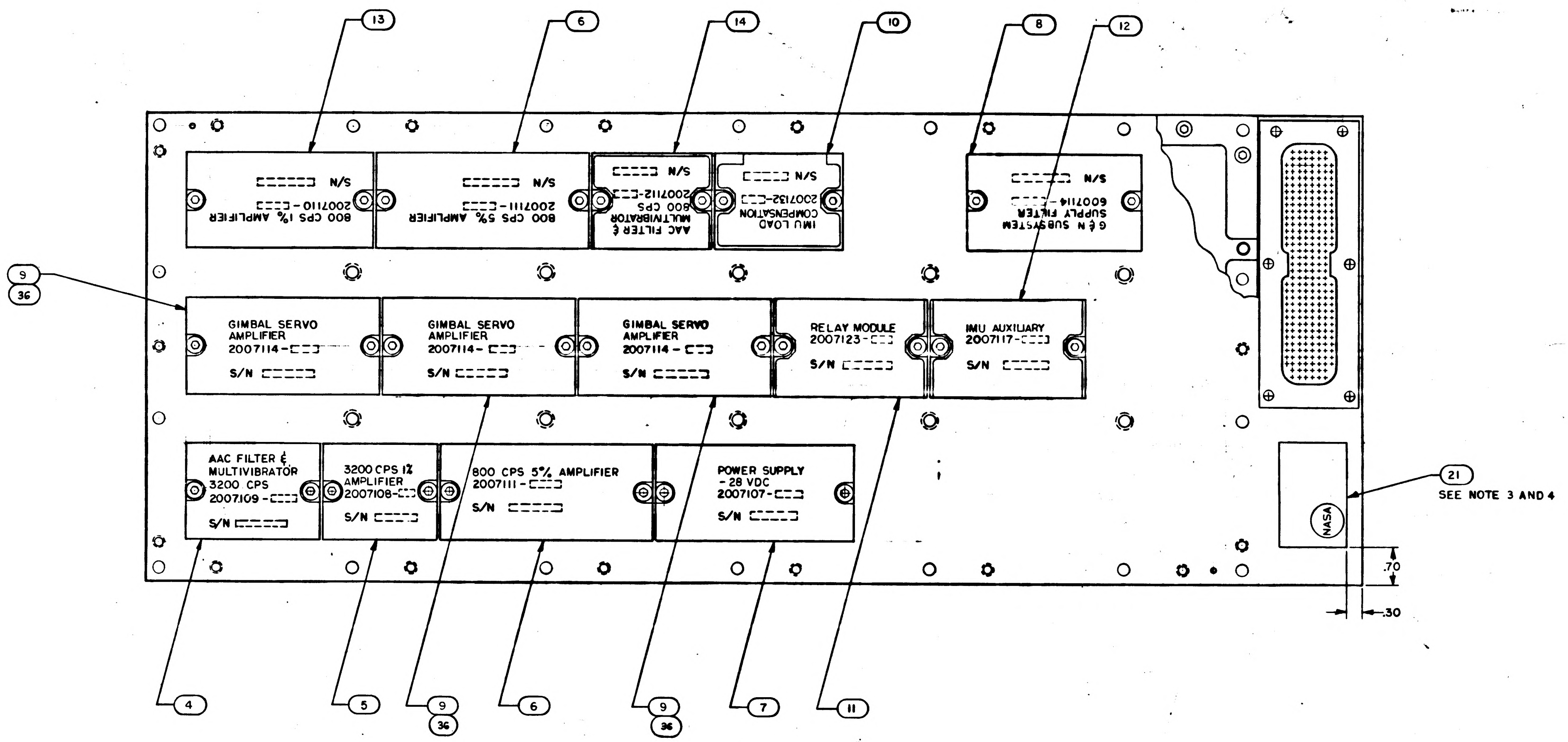
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 R

6007200 R

2/6007200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14
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8
12
800 CPS 1% AMPLIFIER
2007110 - ▭
S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112 - ▭
S/N ▭
IMU LOAD COMPENSATION
2007132 - ▭
S/N ▭
G & N SUBSYSTEM SUPPLY FILTER
6007114 - ▭
S/N ▭
9
36
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
RELAY MODULE
2007123 - ▭
S/N ▭
IMU AUXILIARY
2007117 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭
S/N ▭
3200 CPS 1% AMPLIFIER
2007108 - ▭
S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
POWER SUPPLY
- 28 VDC
2007107 - ▭
S/N ▭
NASA
21
SEE NOTE 3 AND 4
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36
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7
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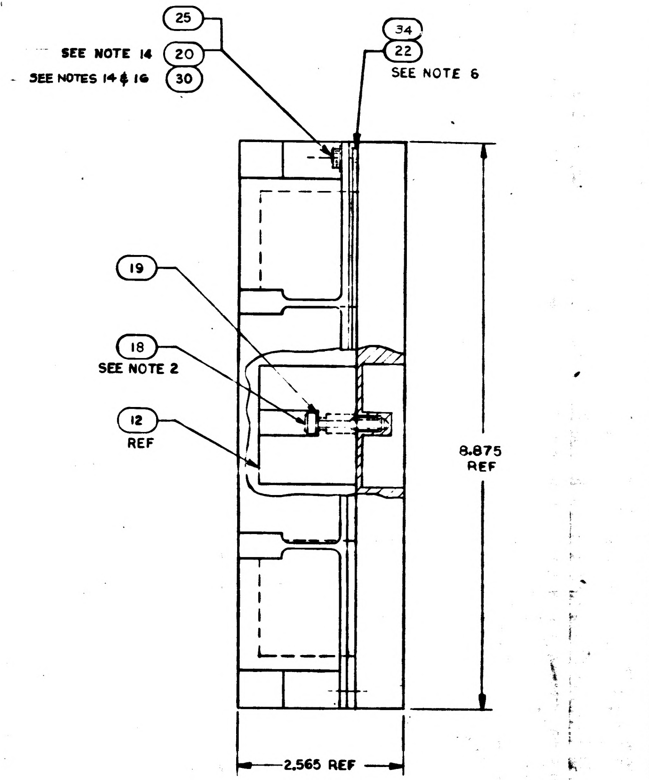
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SEE NOTE 14
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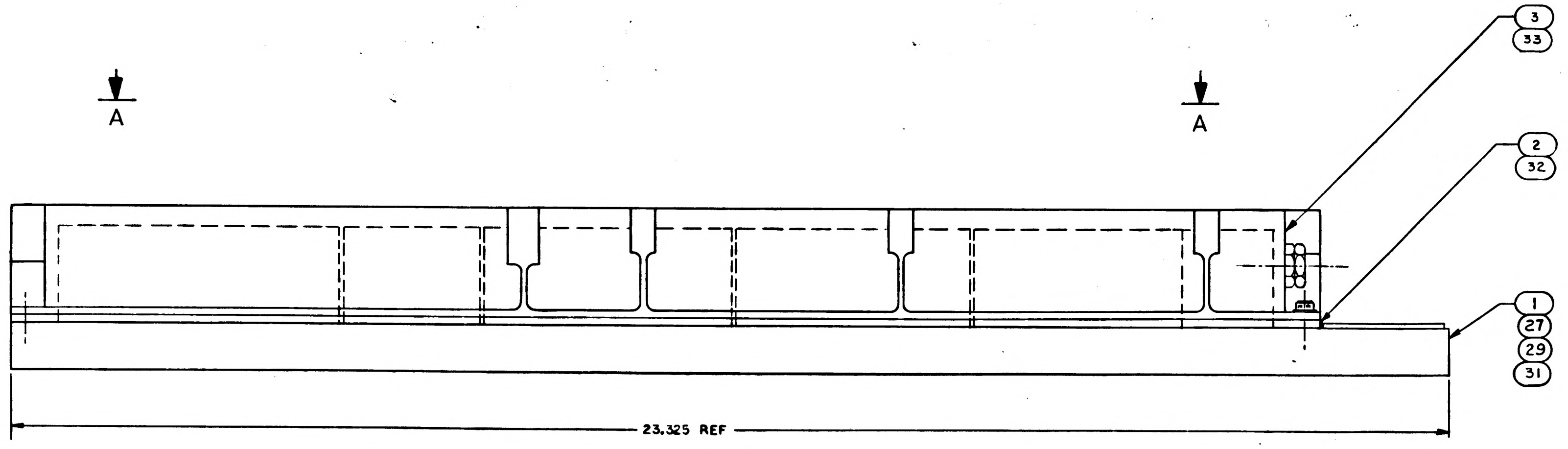
REF
2.565 REF


A
A
3
33
2
32
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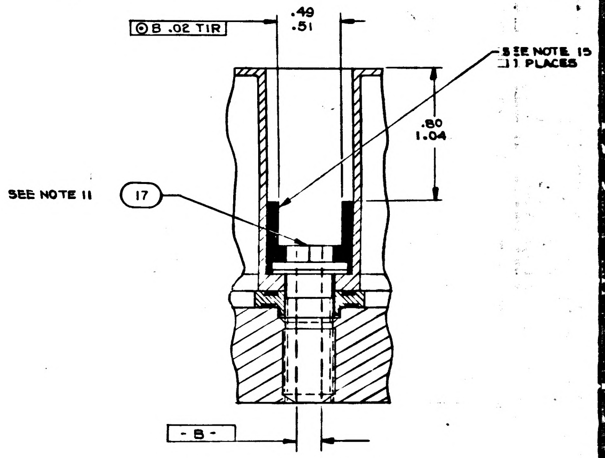
27
29
31
23.325 REF


⊚ B .02 TIR
.49
.51
SEE NOTE 15
11 PLACES
.80
1.04
SEE NOTE 11
17
- B -

SECTION A–A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29 OR 31 PER ND 1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

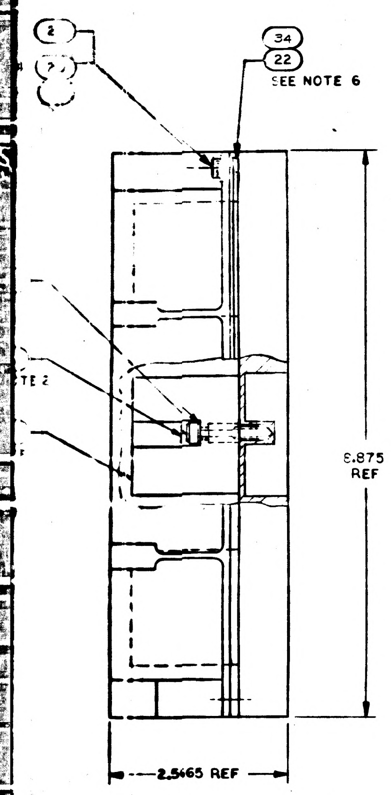
NOTES CONT. –

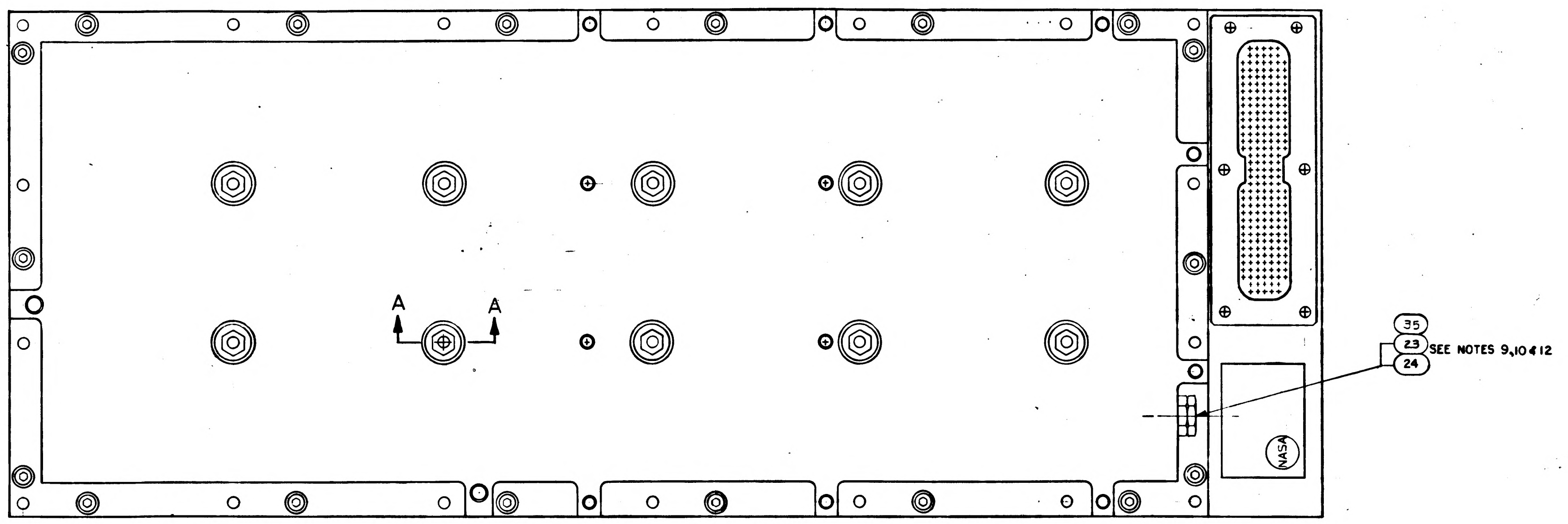
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION 031, 021, AND 011.

16 APPLY SEALANT 1006338-000 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

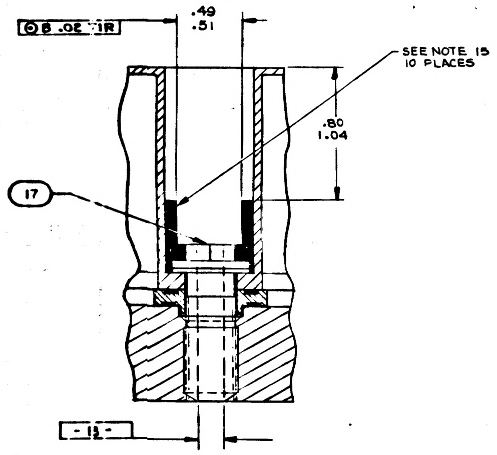
6007200 | S

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				
E		REVISED PER TDRR 23201	KCH		8 OCT 65	
(M) F		REVISED PER TDRR 23755			5 NOV 65	
(M) G		REVISED PER TDRR 24564			9 DEC 65	
(M) H		REVISED PER TDRR 25102			12 Jan 66	
(M) J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	J.B.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
(M) M		REVISED PER TDRR 27995	J.B.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RLT		10 JUN 66	
(M) P		REVISED PER TDRR 29437	J.B.		13-JUN-66	
(M) R		REVISED PER TDRR 31167	VE		9-29-66	
S		REVISED PER TDRR 32033	TD		26 NOV 66	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	-	-	-	-	2007114-021	GIMBAL SERVO AMPLIFIER	36
1	1	-	-	-	2007213-021	VALVE ASSEMBLY	35
1	1	-	-	-	2010784-001	GASKET, SEALING PLATE	34
1	1	-	-	-	6010658	COVER, INSEP. ASSY	33
1	1	-	-	-	2010784-006	GASKET, RETAINED	32
1	1	-	-	-	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	-	1008874-019	SCREW, CAP, SOCKET HD.	30
-	-	1	-	-	6007003-021	HEADER ASSEMBLY	29
-	-	~~18~~	~~18~~	~~-~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
-	-	-	1	-	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
-	-	1	1	1	2007213-011	VALVE ASSEMBLY	23
-	-	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1004260-153	NAMEPLATE	21
-	-	-	-	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	10	10	1010975	GASKET, RETAINED	16
-	-	-	-	-			15
1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
-	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
-	-	1	1	1	6008035	COVER	3
-	-	1	1	1	1010974	GASKET, RETAINED	2
-	-	-	-	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN 25 May 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED 9/27/65
APPROVED MIT 28 Sep 65
NOT REQUIRED PER LETTER
APPROVED NASA MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

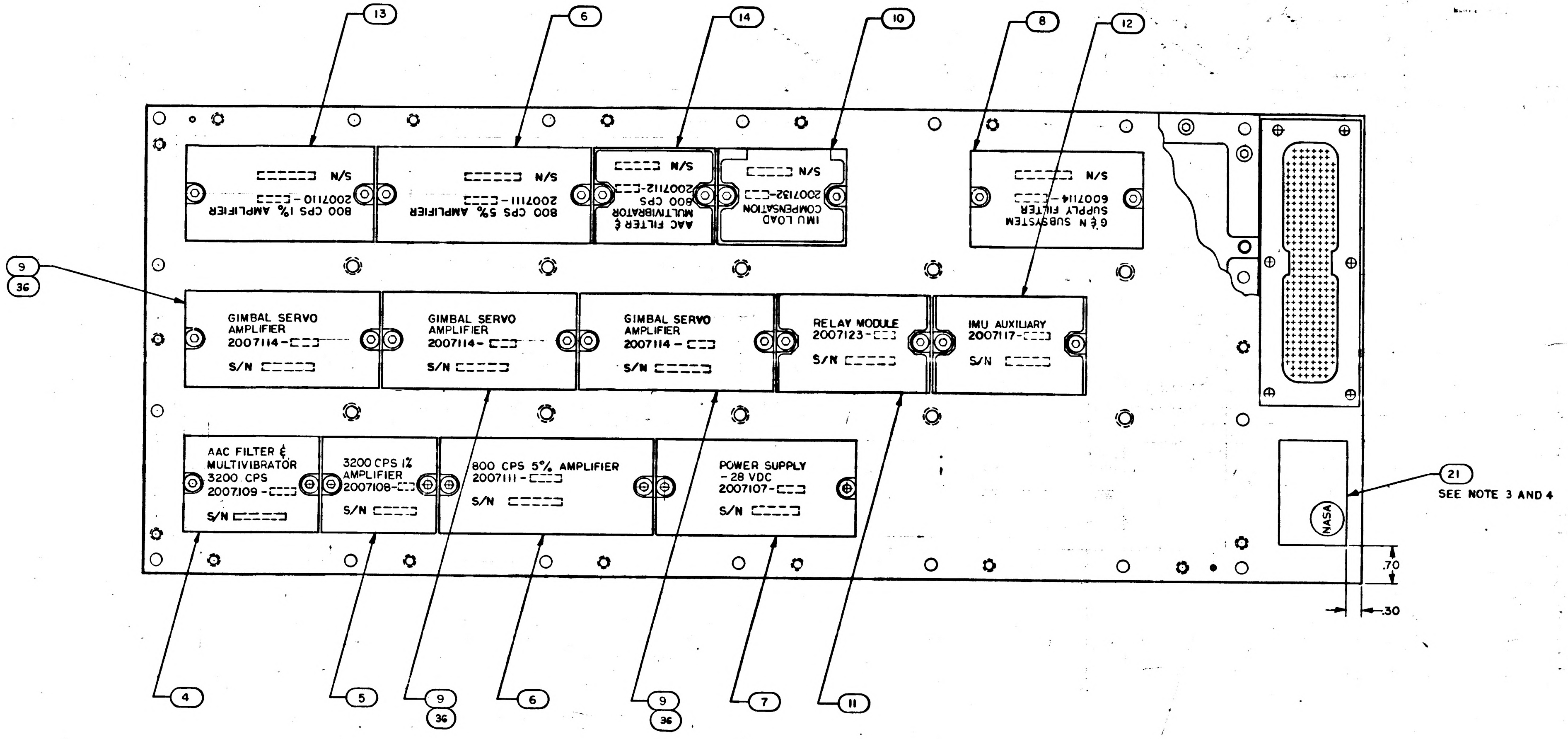
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 S

3H

6007200 S

2/6007200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800 CPS 1% AMPLIFIER
2007110 - ▭▭
S/N ▭▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭
S/N ▭▭▭
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112 - ▭▭
S/N ▭▭▭
IMU LOAD COMPENSATION
2007132 - ▭▭
S/N ▭▭▭
G & N SUBSYSTEM SUPPLY FILTER
2007114 - ▭▭
S/N ▭▭▭
9
36
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭
S/N ▭▭▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭
S/N ▭▭▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭
S/N ▭▭▭
RELAY MODULE
2007123 - ▭▭
S/N ▭▭▭
IMU AUXILIARY
2007117 - ▭▭
S/N ▭▭▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭▭
S/N ▭▭▭
3200 CPS 1% AMPLIFIER
2007108 - ▭▭
S/N ▭▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭
S/N ▭▭▭
POWER SUPPLY
- 28 VDC
2007107 - ▭▭
S/N ▭▭▭
NASA
21
SEE NOTE 3 AND 4
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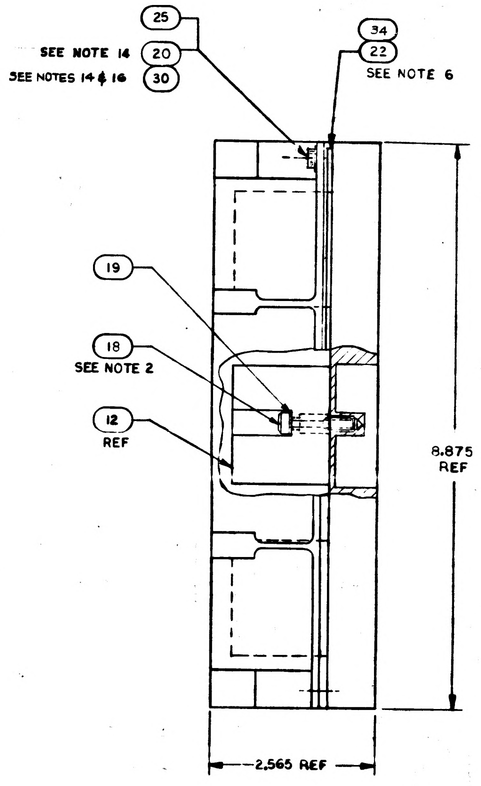
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SEE NOTE 14
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SEE NOTES 14 & 16
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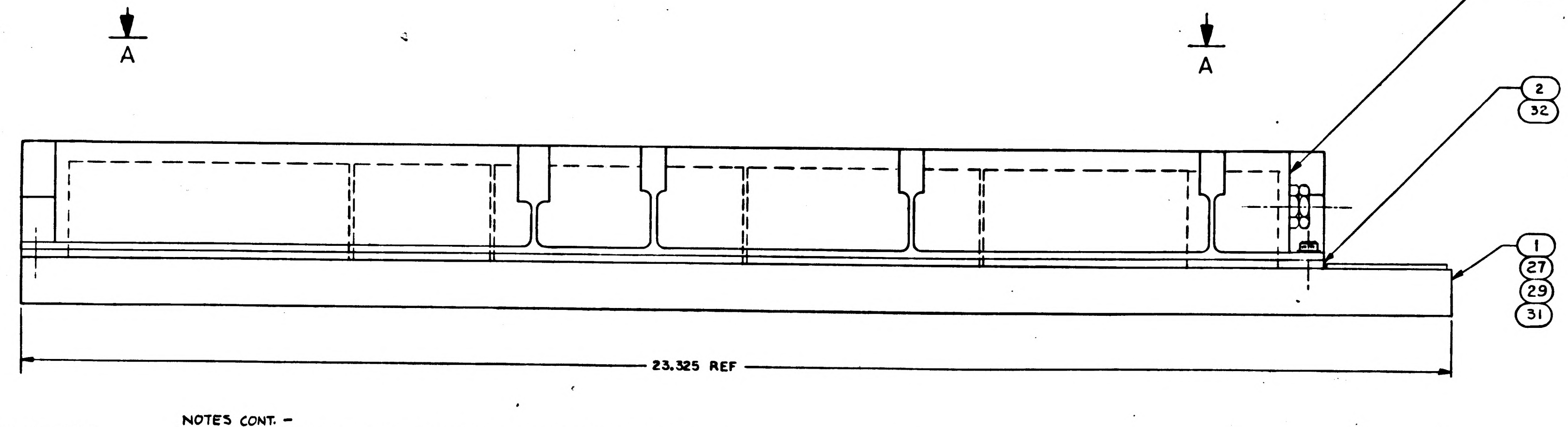
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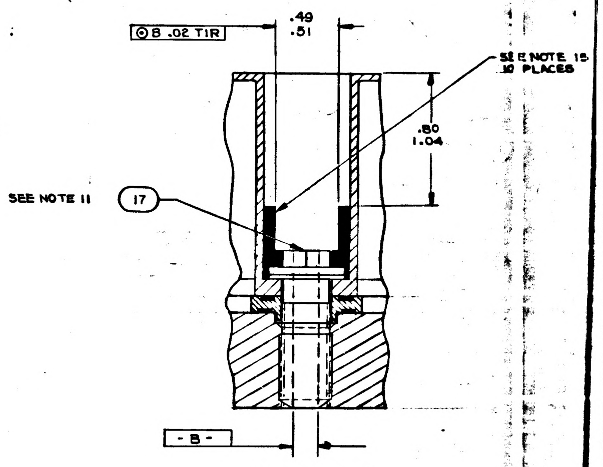
23.325 REF


⊙ B .02 TIR
.49
.51
SEE NOTE 15
10 PLACES
.80
1.04
SEE NOTE 11
17
- B -

SECTION A–A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29 OR 31 PER ND 1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RES[illegible]ELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

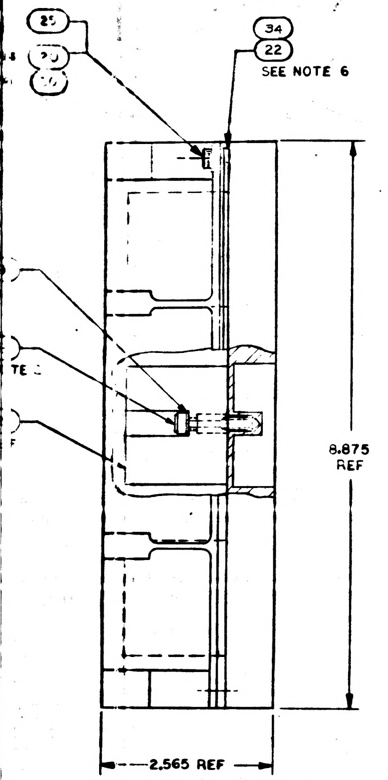
NOTES CONT. –

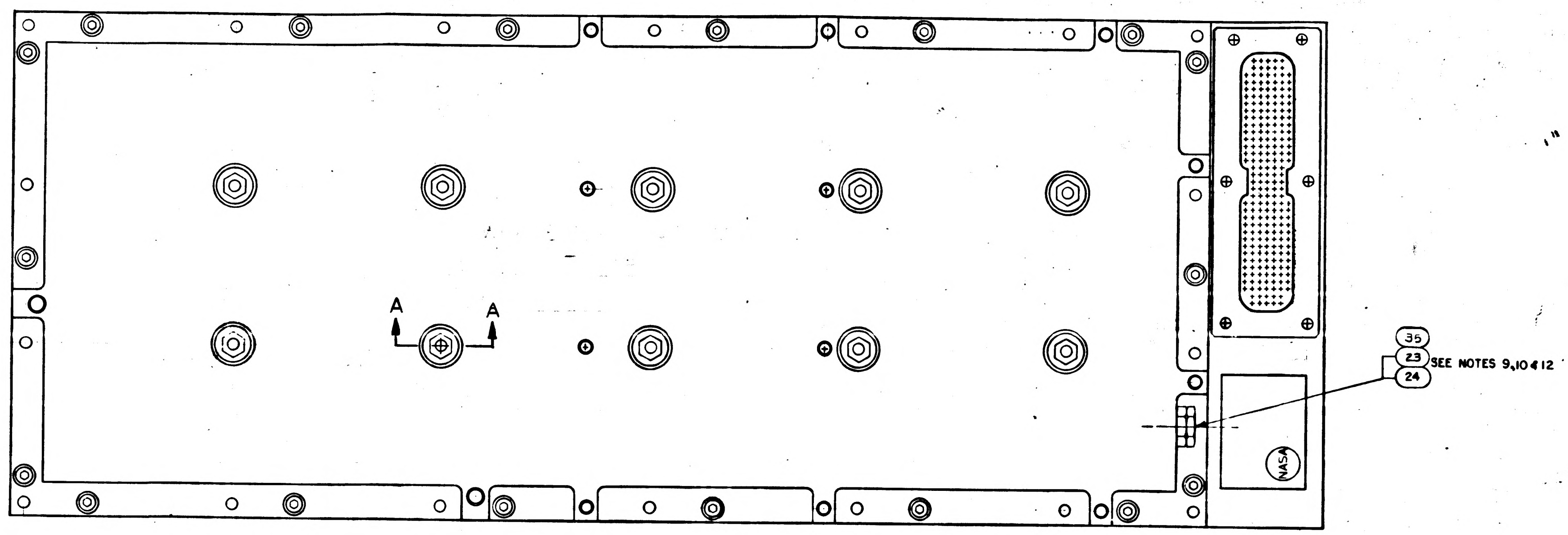
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031,-021,-011 AND-061.
16 APPLY SEALANT 1006338-000 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION-031,-021,-011 AND-061.

6007200 T.

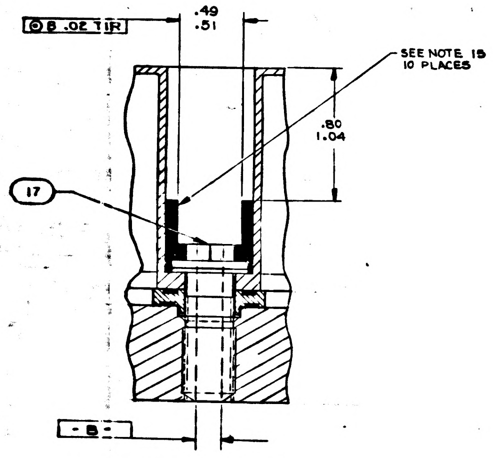
1 4 6 0 0 7 2 0 0

	SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
	D		REPLACES WORD DWG REV C PER TDRR 22794				WK	-
	E		REVISED PER TDRR 23201	KCH	EPK	8 OCT 65	WK	
M	F		REVISED PER TDRR 23755	M	EPK	5 Nov	WC	
M	G		REVISED PER TDRR 24564		EPK	9 DEC 65	WK	
M	H		REVISED PER TDRR 25102	M	EPK		WK	
M	J		REVISED PER TDRR 27504			13 APR-66		
	K		REVISED PER TDRR 27817	B.		3 APR 66		
	L		REVISED PER TDRR 27996	PHG		20 APR 66		
M	M		REVISED PER TDRR 27995	B.	CP	21-APR-66		
	N		REVISED PER TDRR 29445	RJLT		10 JUN 66		
M	P		REVISED PER TDRR 29437	B.		13-JUN-66		
M	R		REVISED PER TDRR 31167	VE	NW	9-29-66		
M	S		REVISED PER TDRR 32033	TD	NW	26 NOV 66		
	T		REVISED PER TDRR 32398	REP	LW	12 JAN 66		





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG
REV C

QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	3	-	-	-	-	2007114-021	GIMBAL SERVO AMPLIFIER	36
-	1	1	-	-	-	2007213-021	VALVE ASSEMBLY	35
-	1	1	-	-	-	2010784-001	GASKET, SEALING PLATE	34
-	1	1	-	-	-	6010658	COVER, INSEP. ASSY	33
-	1	1	-	-	-	2010784-006	GASKET, RETAINED	32
-	1	1	-	-	-	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	18	-	1008874-019	SCREW, CAP, SOCKET HD.	30
1	-	-	1	-	-	6007003-021	HEADER ASSEMBLY	29
~~18~~	~~-~~	~~-~~	~~18~~	~~18~~	~~-~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
-	-	-	-	1	-	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	-	-	1	1	1	2007213-011	VALVE ASSEMBLY	23
1	-	-	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1004260-153	NAMEPLATE	21
-	-	-	-	-	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	10	10	10	1010975	GASKET, RETAINED	16
-	-	-	-	-	-			15
1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
-	-	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
1	-	-	1	1	1	6008035	COVER	3
1	-	-	1	1	1	1010974	GASKET, RETAINED	2
-	-	-	-	-	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.02 .XXX ±.005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN L. Pelkini 25 Mar 65
CHECKED Banarrigo 16 Jun 65
APPROVED
APPROVED D. A. Tost 9/27/65
APPROVED MIT W. Kupfer 28 Sep 65
NOT REQUIRED PER LETTER
APPROVED MSC PP743-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

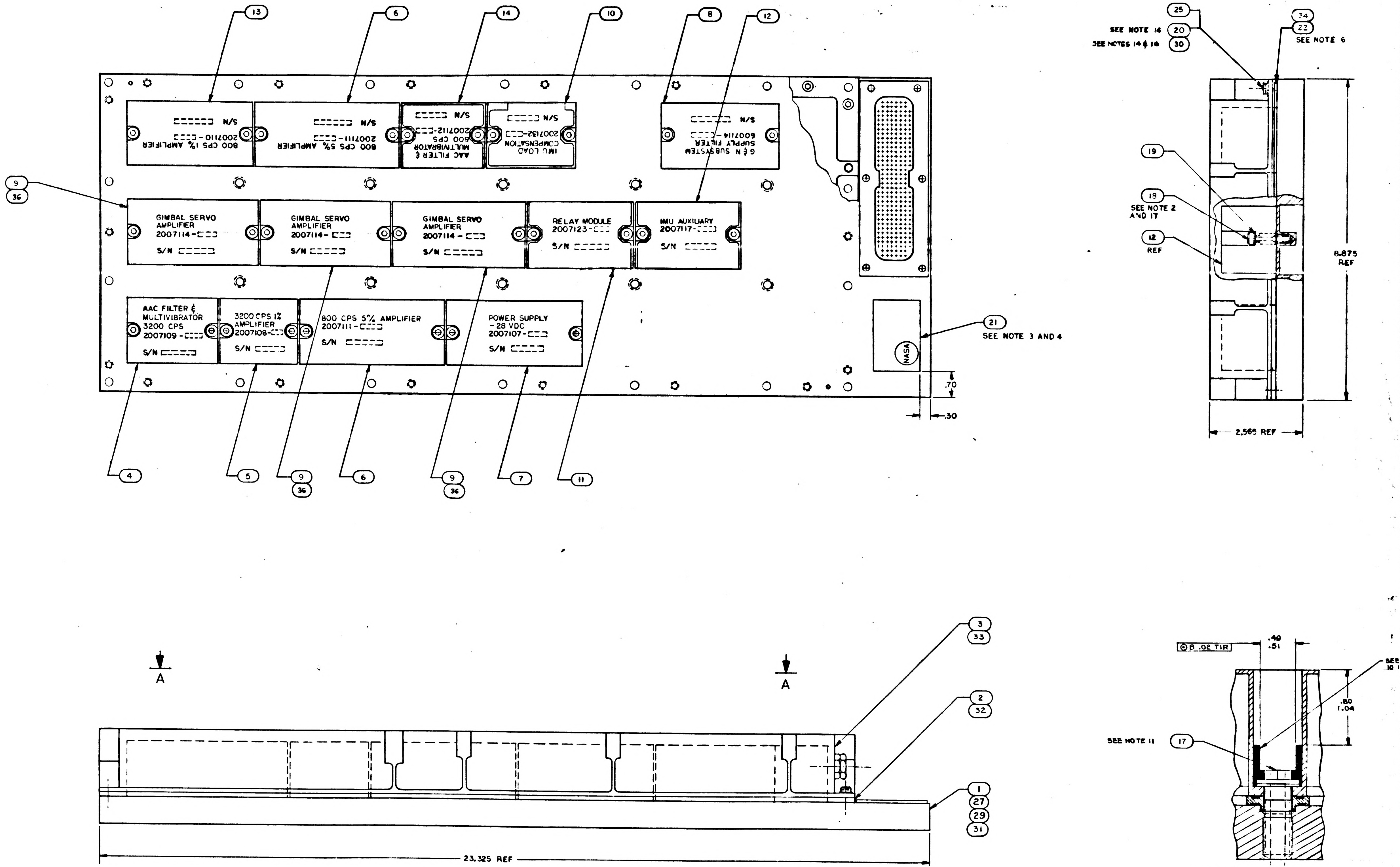
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6007200
SCALE 1/1 SHEET 1 OF 1

6007200 T

6007200 T

2/6007200


13
6
14
10
8
12
9
36
800 CPS 1% AMPLIFIER
2007110 -
S/N
800 CPS 5% AMPLIFIER
2007111 -
AAC FILTER & MULTIVIBRATOR 800 CPS
2007112 -
IMU LOAD COMPENSATION
2007132 -
G & N SUBSYSTEM SUPPLY FILTER
6007114 -
GIMBAL SERVO AMPLIFIER
2007114 -
RELAY MODULE
2007123 -
IMU AUXILIARY
2007117 -
AAC FILTER & MULTIVIBRATOR 3200 CPS
2007109 -
3200 CPS 1% AMPLIFIER
2007108 -
800 CPS 5% AMPLIFIER
2007111 -
POWER SUPPLY -28 VDC
2007107 -
NASA
21
SEE NOTE 3 AND 4
.70
.30
4
5
7
11
25
20
30
SEE NOTE 16
SEE NOTES 14 & 16
24
22
SEE NOTE 6
19
18
SEE NOTE 2 AND 17
12
REF
8.875 REF
2.565 REF
A
3
33
2
32
1
27
29
31
23.325 REF
⊙ B .02 TIR
.40
.31
SEE NOTE 16 10 PLACES
.80
1.04
SEE NOTE 11
17
- B -

SECTION A–A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29 OR 31 PER ND 1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

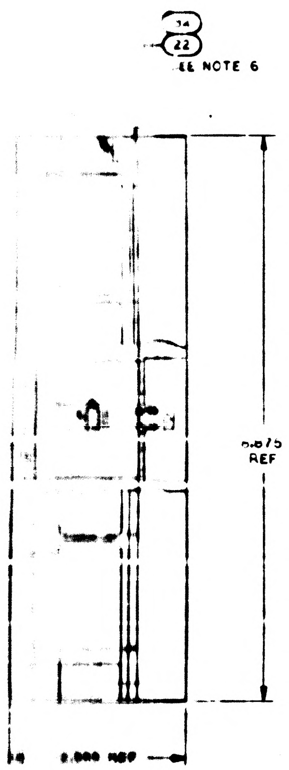
NOTES CONT. -

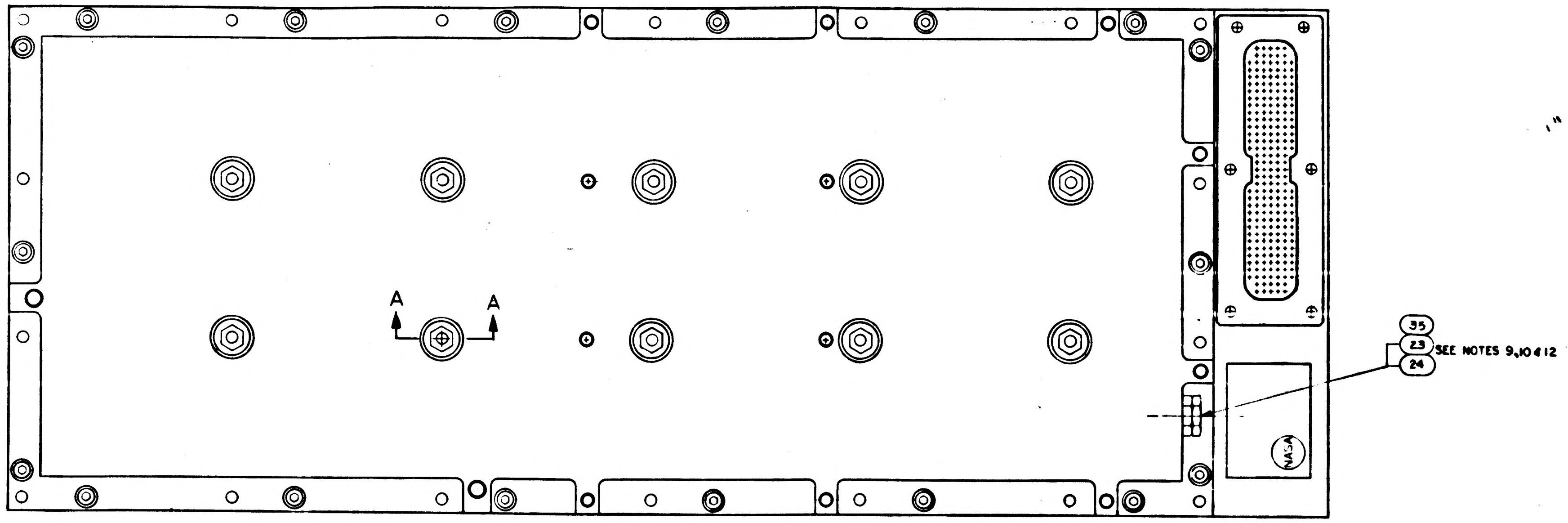
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031, -021, -011 AND -061.
16. APPLY SEALANT 1006338-000 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION -031, -021, -011 AND -061.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 37 TO SCREW THREADS.

6007200 U

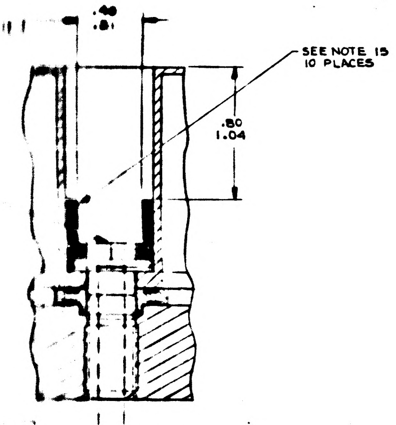
1/6007200

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				
E		REVISED PER TDRR 23201	KCN			
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				WR
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817			19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995		CP	21-APR-66	
N		REVISED PER TDRR 29445	RLT		10 JUN 66	
P		REVISED PER TDRR 29437			13-JUN-66	
R		REVISED PER TDRR 31167	VE	NW	7-27-66	
S		REVISED PER TDRR 32033	TD		26 NOV 66	
T		REVISED PER TDRR 32398	REP	LW	12 JAN 66	
U		REVISED PER TDRR 33521		RCB		





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG
REV C

QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	-	-	-	-	2007114-021	GIMBAL SERVO AMPLIFIER	36
-	1	1	-	-	-	2007213-021	VALVE ASSEMBLY	35
-	1	1	-	-	-	2010784-001	GASKET, SEALING PLATE	34
-	1	1	-	-	-	6010658	COVER, INSEP. ASSY	33
-	1	1	-	-	-	2010784-006	GASKET, RETAINED	32
-	1	1	-	-	-	6007105-021	HEADER ASSEMBLY	31
18	18	18	18	18	-	1008874-019	SCREW, CAP, SOCKET HD.	30
1	-	-	1	-	-	6007003-021	HEADER ASSEMBLY	29
~~18~~	~~-~~	~~-~~	~~18~~	~~18~~	~~-~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
-	-	-	-	1	-	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	-	-	1	1	1	2007213-011	VALVE ASSEMBLY	23
1	-	-	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1004260-153	NAMEPLATE	21
-	-	-	-	-	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	10	10	10	1010975	GASKET, RETAINED	16
-	-	-	-	-	-			15
1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
-	-	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	-	-	1	1	1	6008035	COVER	3
1	-	-	1	1	1	1010974	GASKET, RETAINED	2
-	-	-	-	-	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

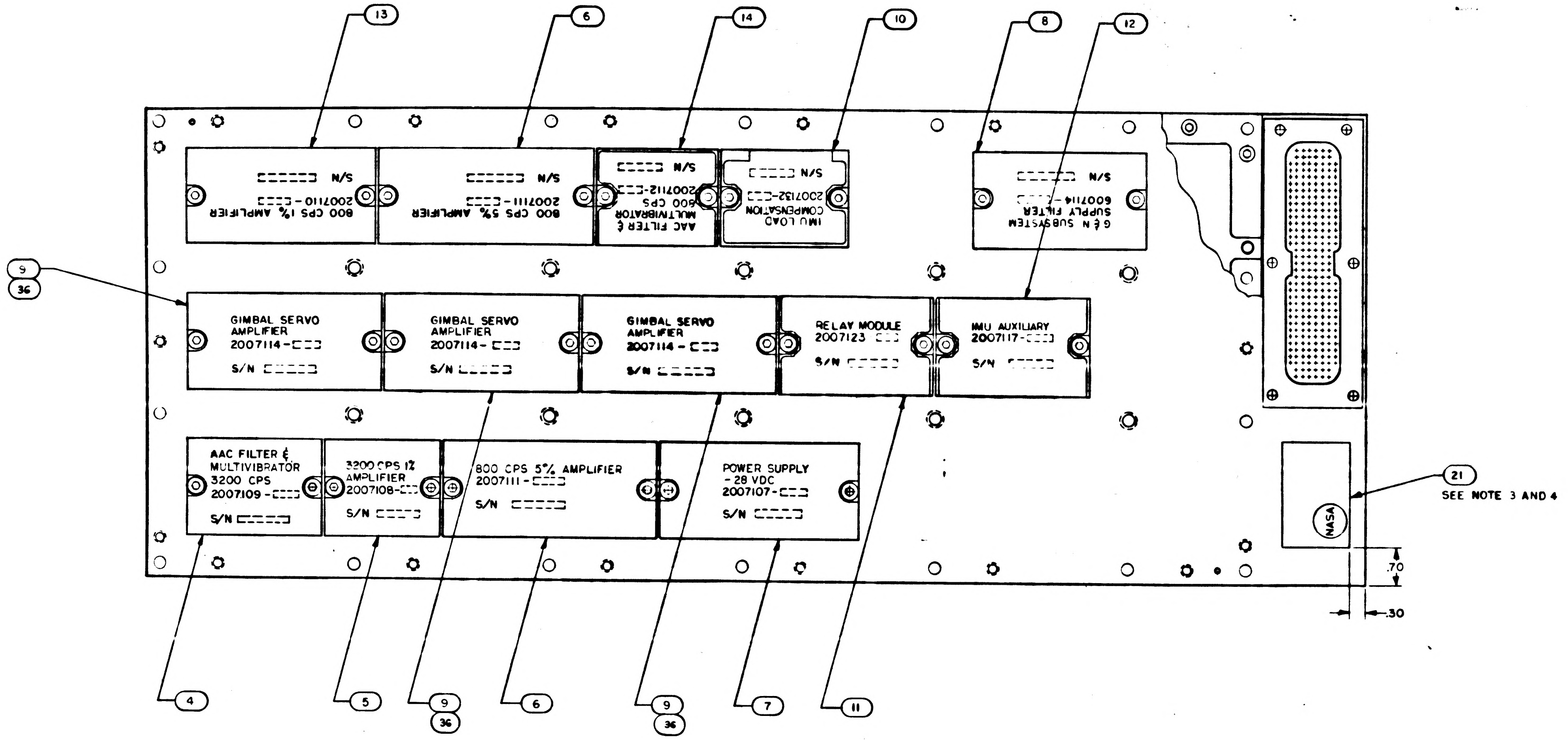
DRAWN L. Pelkin 25 Mar 65
CHECKED Bosarrigo 16 Jun 65
APPROVED
APPROVED 4/22/65
APPROVED MIT W. Wuyfer
APPROVED MSC 65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 U


13
6
14
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8
12
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36
800 CPS 1% AMPLIFIER
2007110 - ☐☐☐
S/N ☐☐☐☐☐
800 CPS 5% AMPLIFIER
2007111 - ☐☐☐
S/N ☐☐☐☐☐
AAC FILTER & MULTIVIBRATOR 800 CPS
2007112 - ☐☐☐
S/N ☐☐☐☐☐
IMU LOAD COMPENSATION
2007132 - ☐☐☐
S/N ☐☐☐☐
G & N SUBSYSTEM SUPPLY FILTER
6007114 - ☐☐☐
S/N ☐☐☐☐☐
GIMBAL SERVO AMPLIFIER
2007114 - ☐☐☐
S/N ☐☐☐☐☐
GIMBAL SERVO AMPLIFIER
2007114 - ☐☐☐
S/N ☐☐☐☐☐
GIMBAL SERVO AMPLIFIER
2007114 - ☐☐☐
S/N ☐☐☐☐☐
RELAY MODULE
2007123 ☐☐☐
S/N ☐☐☐☐☐
IMU AUXILIARY
2007117 - ☐☐☐
S/N ☐☐☐☐
AAC FILTER & MULTIVIBRATOR 3200 CPS
2007109 - ☐☐☐
S/N ☐☐☐☐☐
3200 CPS 1% AMPLIFIER
2007108 - ☐☐☐
S/N ☐☐☐☐
800 CPS 5% AMPLIFIER
2007111 - ☐☐☐
S/N ☐☐☐☐☐
POWER SUPPLY - 28 VDC
2007107 - ☐☐☐
S/N ☐☐☐☐
NASA
21
SEE NOTE 3 AND 4
.70
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36
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36
7
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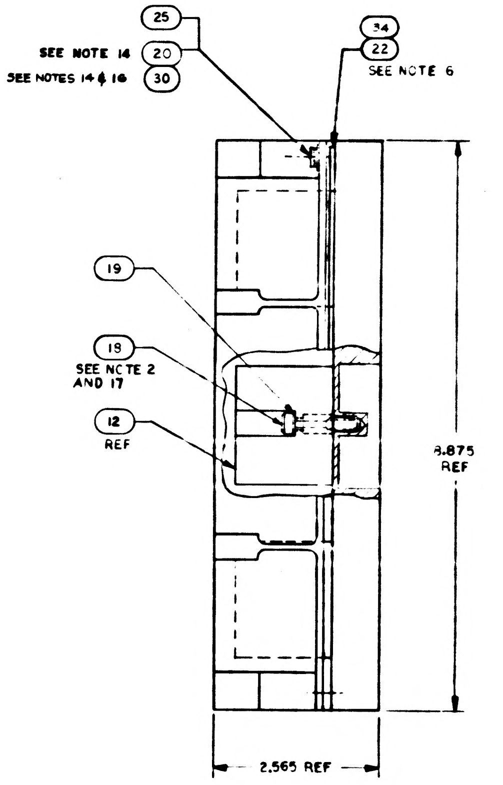
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SEE NOTE 14
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SEE NOTES 14 & 16
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SEE NOTE 6
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SEE NOTE 2 AND 17
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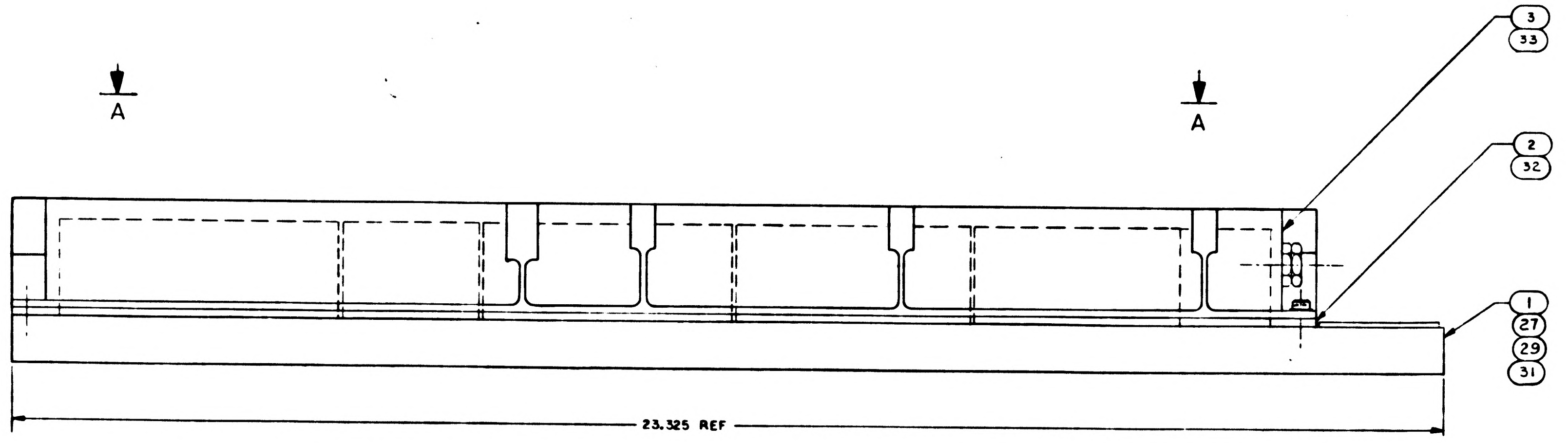
2.565 REF


A
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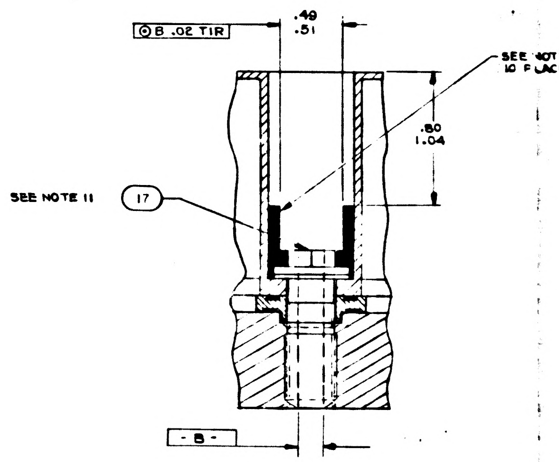
31
23.325 REF


⊙ B .02 TIR
.49
.51
SEE NOTE 1?
10 PLACES
.80
1.04
SEE NOTE 11
17
-B-

SECTION A–A
SCALE 2/1

NOTES:

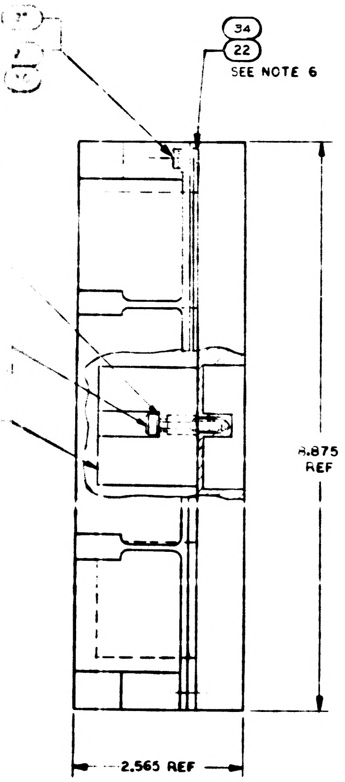
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 19 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO 21 TO FIND NO. 1, 27, 29 OR 31 PER ND 1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

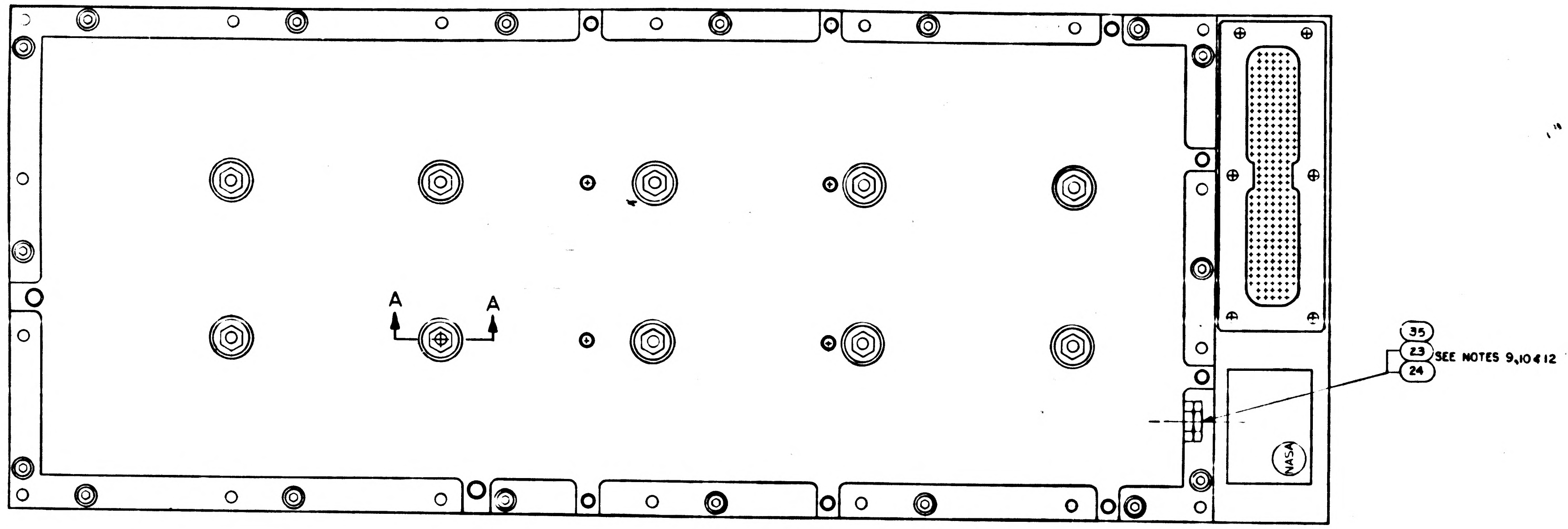
NOTES CONT. –

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031, -021, -011 AND -061.
16. APPLY SEALANT 1006338-003 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION-031, -021, -011 AND -061.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 37 TO SCREW THREADS.

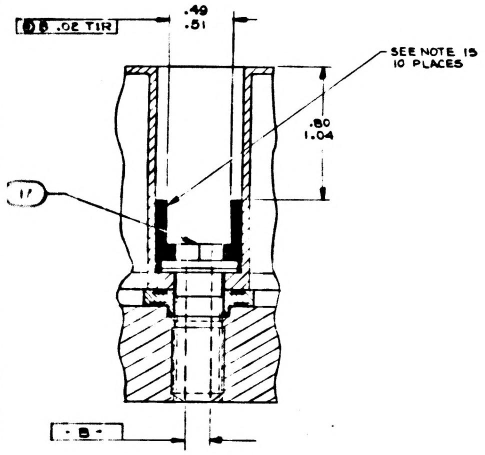
6007200 V

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				W
E		REVISED PER TDRR 23201	KCN		Oct 63	
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				WR
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817	JB.		19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995	JB.	CP	21-APR-66	
N		REVISED PER TDRR 29445			10 JUN 66	
P		REVISED PER TDRR 29437	JB.		13-JUN-66	
R		REVISED PER TDRR 31167	VE	NW	7-27-66	
S		REVISED PER TDRR 32033	TD		26 NOV 66	
T		REVISED PER TDRR 32398	REP	LW	12 JAN 66	
U		REVISED PER TDRR 33521		SD	24 PR 67	
V		REVISED PER TDRR 33730			JULY 67	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG
REV C

QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	-	-	-	-	2007114-021	GIMBAL SERVO AMPLIFIER	36
-	1	1	-	-	-	2007213-021	VALVE ASSEMBLY	35
-	1	1	-	-	-	2010784-001	GASKET, SEALING PLATE	34
-	1	1	-	-	-	6010658	COVER, INSEP. ASSY	33
-	1	1	-	-	-	2010784-006	GASKET, RETAINED	32
-	1	1	-	-	-	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	18	-	1008874-019	SCREW, CAP, SOCKET HD.	30
1	-	-	1	-	-	6007003-021	HEADER ASSEMBLY	29
~~18~~	~~-~~	~~-~~	~~18~~	~~18~~	~~-~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
-	-	-	-	1	-	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
1	-	-	1	1	1	2007213-011	VALVE ASSEMBLY	23
1	-	-	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1004260-153	NAMEPLATE	21
-	-	-	-	-	15	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	1008635-001	BUSHING SEAL	17
10	10	10	10	10	10	1010975	GASKET, RETAINED	16
-	-	-	-	-	-			15
1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
-	-	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
1	-	-	1	1	1	6008035	COVER	3
1	-	-	1	1	1	1010974	GASKET, RETAINED	2
-	-	-	-	-	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 25 Mar 65
CHECKED 16 Jul 65
APPROVED
APPROVED 9/2/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

POWER & SERVO ASSEMBLY
(LEM)

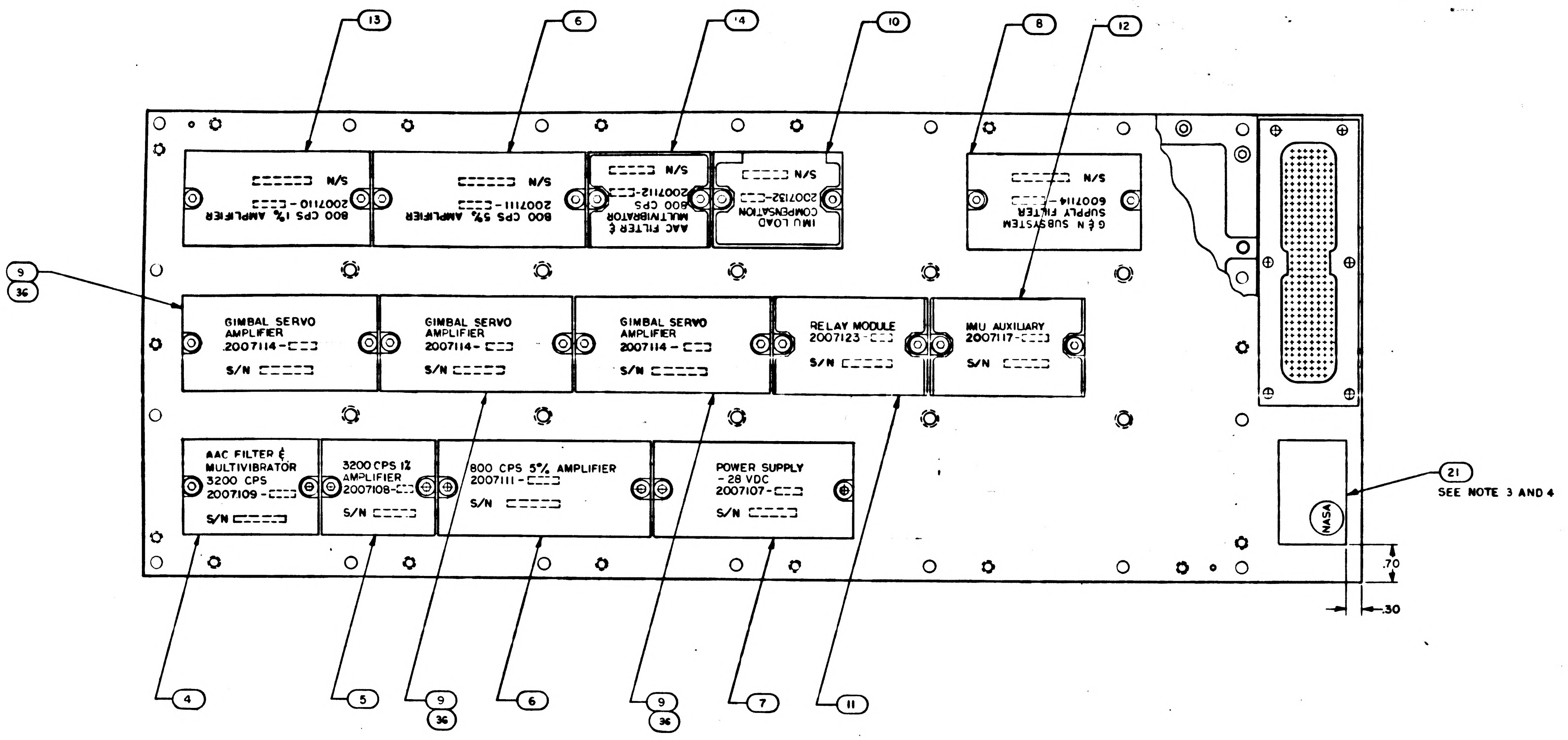
CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 V

3H

6007200 V

27/6007200


13
6
14
10
8
12
800 CPS 1% AMPLIFIER
2007110 - ▭
S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112 - ▭
S/N ▭
IMU LOAD COMPENSATION
2007132 - ▭
S/N ▭
G & N SUBSYSTEM SUPPLY FILTER
600714 - ▭
S/N ▭
9
36
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
RELAY MODULE
2007123 - ▭
S/N ▭
IMU AUXILIARY
2007117 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭
S/N ▭
3200 CPS 1% AMPLIFIER
2007108 - ▭
S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
POWER SUPPLY
- 28 VDC
2007107 - ▭
S/N ▭
NASA
21
SEE NOTE 3 AND 4
.70
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36
7
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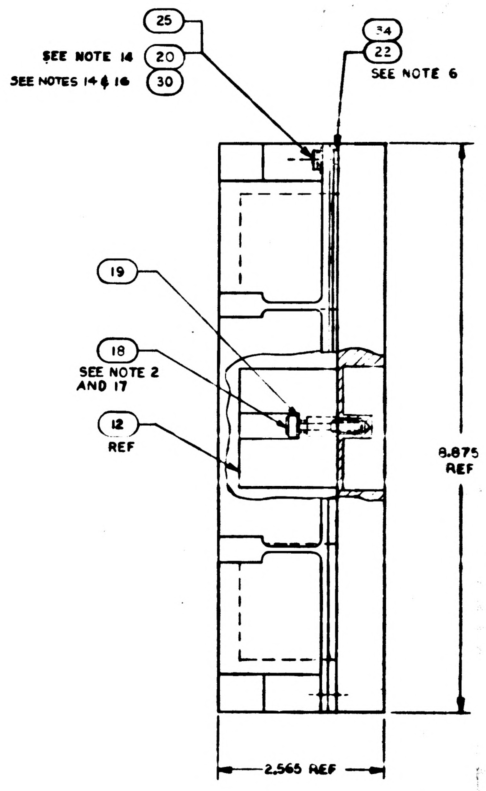
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SEE NOTE 14
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SEE NOTES 14 & 16
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34
22
SEE NOTE 6
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18
SEE NOTE 2 AND 17
12
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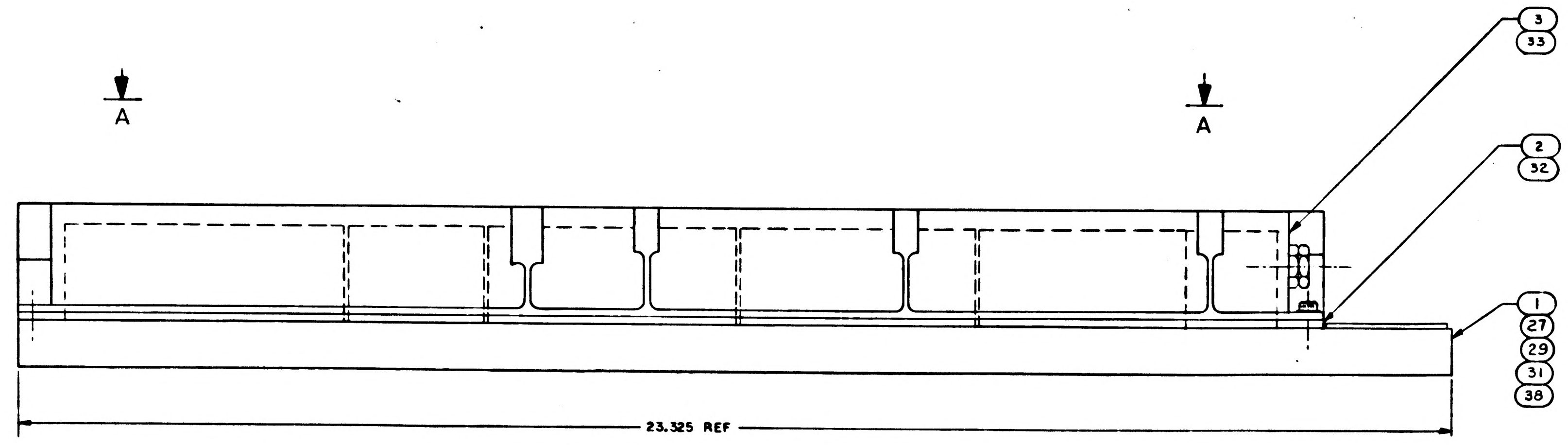
2.565 REF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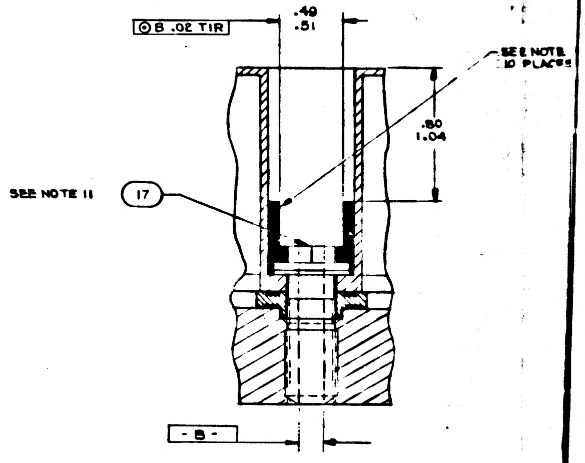
38
23.325 REF


⊚ B .02 TIR
.49
.51
SEE NOTE 10 PLACES
.80
1.04
SEE NOTE 11
17
- B -

SECTION A-A
SCALE 2/1

NOTES:

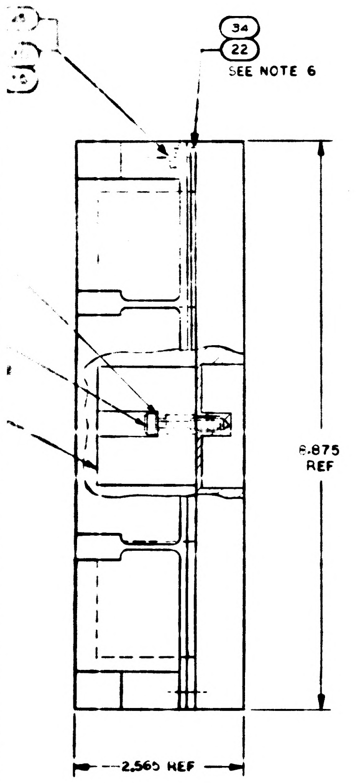
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29, 31, OR 38 PER ND 1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

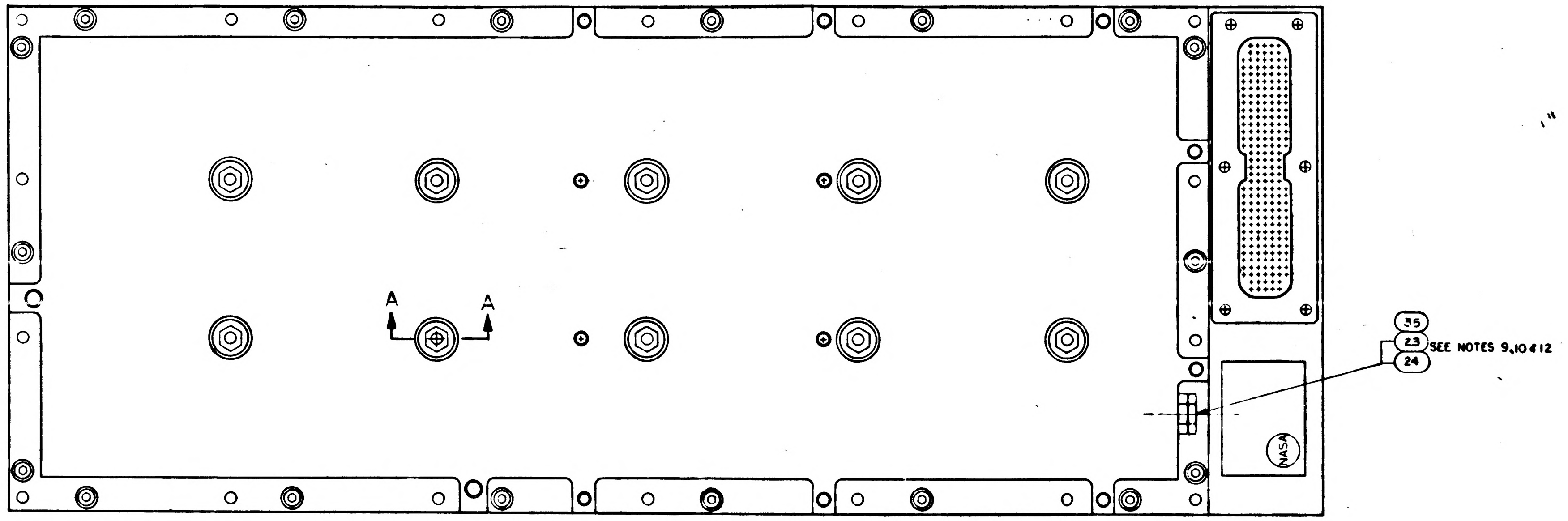
NOTES CONT. -

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031, -021, -011 AND -061.
16. APPLY SEALANT 1006338-003 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION-031, -021, -011 AND -061.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 37 TO SCREW THREADS.

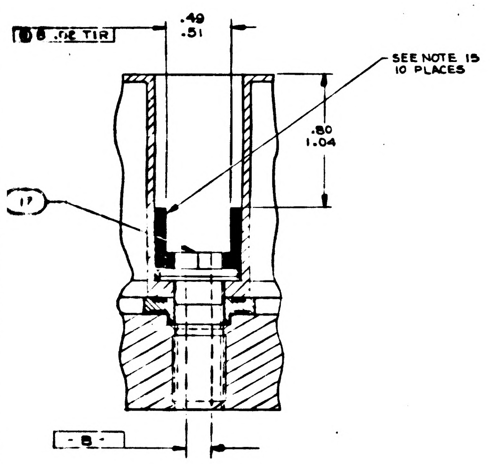
6007200 N

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				W
E		REVISED PER TDRR 23201	KCH	[illegible]	[illegible] 65	WR
F		REVISED PER TDRR 23755	[illegible]	[illegible]	[illegible]	WR
G		REVISED PER TDRR 24564	[illegible]	[illegible]	[illegible]	WR
H		REVISED PER TDRR 25102	[illegible]	[illegible]	[illegible]	WR
J		REVISED PER TDRR 27504	[illegible]	[illegible]	9 APR-66	
K		REVISED PER TDRR 27817	J.	[illegible]	19 APR 66	
L		REVISED PER TDRR 27996	PHG	[illegible]	20 APR 66	
M		REVISED PER TDRR 27995	J.	CP	21-APR-66	
N		REVISED PER TDRR 29445	RLT	[illegible]	10 JUN 66	
P		REVISED PER TDRR 29437	J.	[illegible]	13-JUN-66	
R		REVISED PER TDRR 31167	ME	NW	9-29-66	
S		REVISED PER TDRR 32033	TD	[illegible]	26 NOV 66	
T		REVISED PER TDRR 32398	REP	LW	12 JAN 67	
U		REVISED PER TDRR 33521	[illegible]	RCB	12 APR 67	
V		REVISED PER TDRR 33730	[illegible]	RJW	11 JULY 67	
W		REVISED PER TDRR 34650	DL	[illegible]	29 SEP 67	





VIEW A-A



SECTION A–A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQ -071	QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	–	–	–	–	–	–	6007103-031	HEADER ASSEMBLY	38
AR	AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	3	–	–	–	–	2007114-021	GIMBAL SERVO AMPLIFIER	36
1	–	1	1	–	–	–	2007213-021	VALVE ASSEMBLY	35
1	–	1	1	–	–	–	2010784-001	GASKET, SEALING PLATE	34
1	–	1	1	–	–	–	6010658	COVER, INSEP. ASSY	33
1	–	1	1	–	–	–	2010784-006	GASKET, RETAINED	32
–	–	1	1	–	–	–	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	18	18	–	1008874-019	SCREW, CAP, SOCKET HD.	30
–	1	–	–	1	–	–	6007003-021	HEADER ASSEMBLY	29
~~–~~	~~18~~	~~–~~	~~–~~	~~18~~	~~18~~	~~–~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
–	–	–	–	–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
–	1	–	–	1	1	1	2007213-011	VALVE ASSEMBLY	23
–	1	–	–	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1	1004260-153	NAMEPLATE	21
–	–	–	–	–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	10	1008635-001	BUSHING SEAL	17
10	10	10	10	10	10	10	1010975	GASKET, RETAINED	16
–	–	–	–	–	–	–			15
1	1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
–	–	–	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
–	1	–	–	1	1	1	6008035	COVER	3
–	1	–	–	1	1	1	1010974	GASKET, RETAINED	2
–	–	–	–	–	–	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN [illegible] 25 Nov 65
CHECKED [illegible] 16 Jul 65
APPROVED
APPROVED [illegible] 9/27/65
APPROVED MIT NOT REQUIRED PER LETTER
APPROVED MSC
DATE

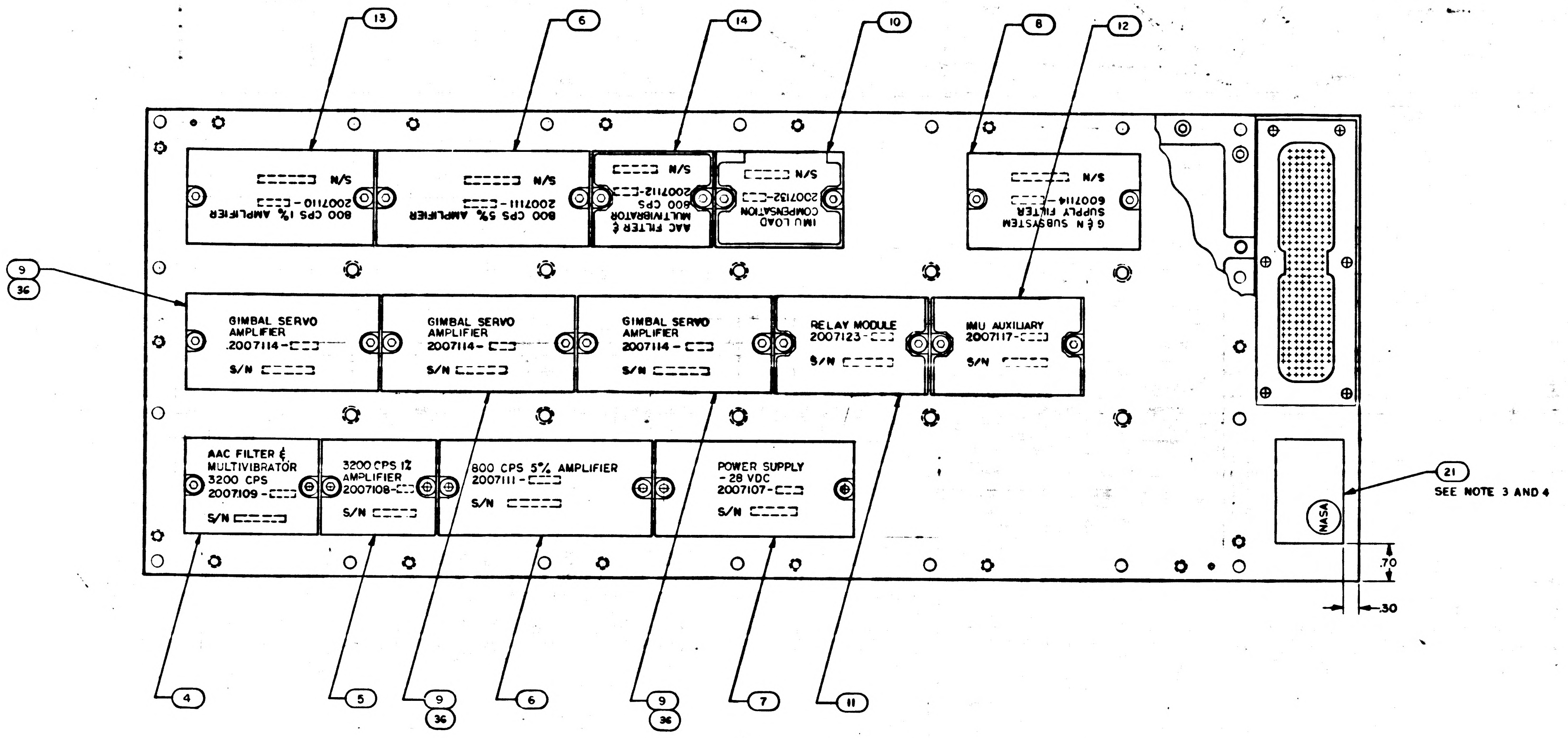
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 W

2/6007200


13
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8
12
S/N
2007110-
800 CPS 1% AMPLIFIER
2007111-
800 CPS 5% AMPLIFIER
2007112-
800 CPS
AAC FILTER &
MULTIVIBRATOR
2007132-
COMPENSATION
IMU LOAD
6007114-
SUPPLY FILTER
G & N SUBSYSTEM
9
36
GIMBAL SERVO
AMPLIFIER
2007114-
RELAY MODULE
2007123-
IMU AUXILIARY
2007117-
AAC FILTER &
MULTIVIBRATOR
3200 CPS
2007109-
3200 CPS 1%
AMPLIFIER
2007108-
800 CPS 5% AMPLIFIER
2007111-
POWER SUPPLY
-28 VDC
2007107-
NASA
21
SEE NOTE 3 AND 4
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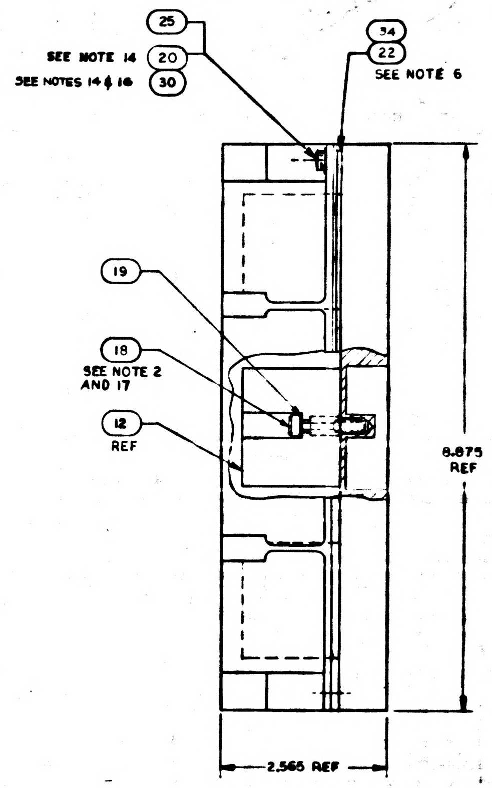
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SEE NOTE 14
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SEE NOTES 14 & 16
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SEE NOTE 6
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AND 17
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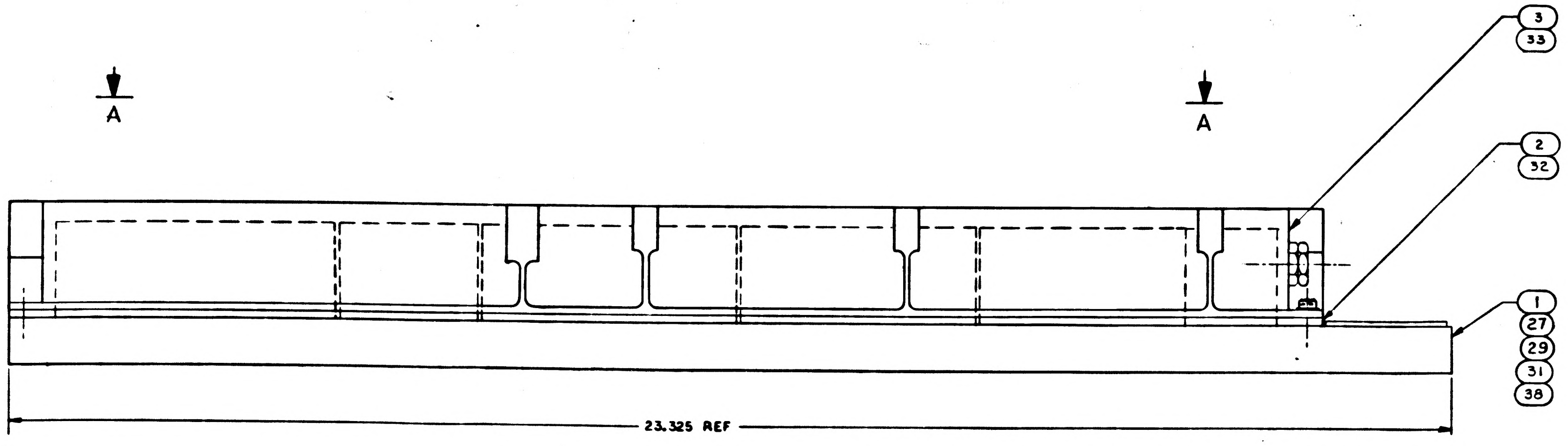
REF
2.565 REF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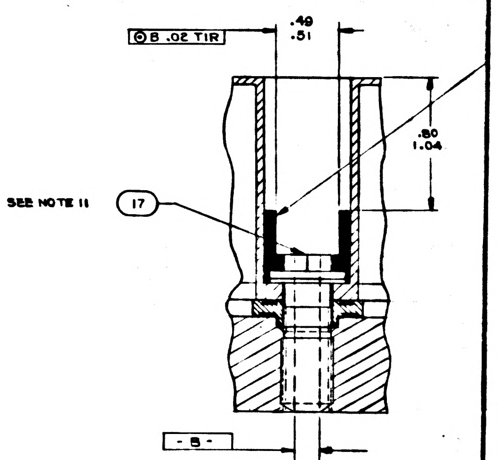

⊚ B .02 TIR
.49
.51
.80
1.04
SEE NOTE 11
17
-B-

SECTION A-A

SCALE 2/1

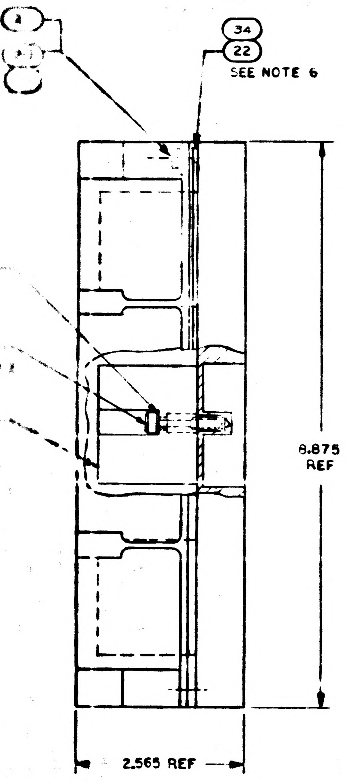
NOTES:

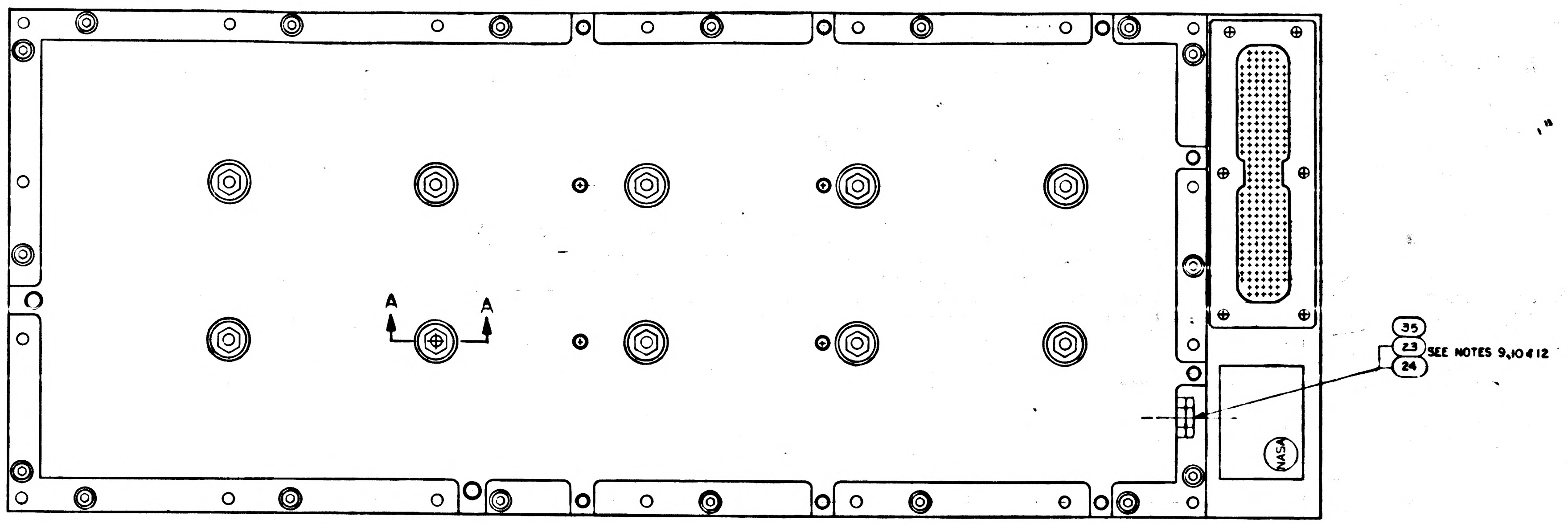
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29, 31, OR 38 PER ND 1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

NOTES CONT. -

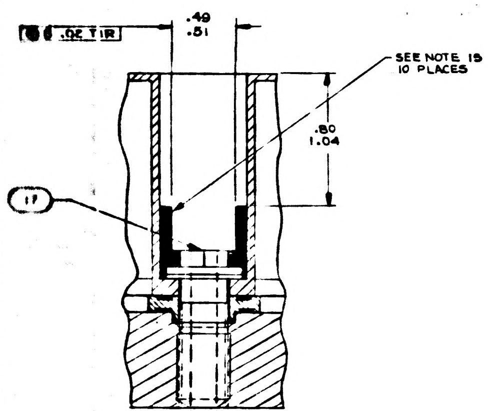
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031,-021,-011 AND-061.
16. APPLY SEALANT 1006338-003 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION-051,-021,-011 AND-061.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 37 TO SCREW THREADS.

6007200 Y





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22794				
E		REVISED PER TDRR 23201	KCN			
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				
J		REVISED PER TDRR 27504			19 APR-66	
K		REVISED PER TDRR 27817			19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995		CP	21 APR-66	
N		REVISED PER TDRR 29445	RLT		10 JUN 66	
P		REVISED PER TDRR 29437			13 JUN-66	
R		REVISED PER TDRR 31167	ME		7-29-66	
S		REVISED PER TDRR 32033	TD			
T		REVISED PER TDRR 32398	REP			
U		REVISED PER TDRR 33521		RCB		
V		REVISED PER TDRR 33730		RJW		
W		REVISED PER TDRR 34650	DL			
Y		REVISED PER TDRR 34975	LJT			

QTY REQ -071	QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	–	–	–	–	–	–	6007103-031	HEADER ASSEMBLY	38
AR	AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	3	–	–	–	–	2007114-021	GIMBAL SERVO AMPLIFIER	36
1	–	1	1	–	–	–	2018773	VALVE ASSEMBLY	35
1	–	1	1	–	–	–	2010784-001	GASKET, SEALING PLATE	34
1	–	1	1	–	–	–	6010658	COVER, INSEP. ASSY	33
1	–	1	1	–	–	–	2010784-006	GASKET, RETAINED	32
–	–	1	1	–	–	–	6007105-021	HEADER ASSEMBLY	31
18	18	18	18	18	18	–	1008874-019	SCREW, CAP, SOCKET HD.	30
–	1	–	–	1	–	–	6007003-021	HEADER ASSEMBLY	29
~~–~~	~~18~~	~~–~~	~~–~~	~~18~~	~~18~~	~~–~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
–	–	–	–	–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
–	1	–	–	1	1	1	2007213-011	VALVE ASSEMBLY	23
–	1	–	–	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1	1004260-153	NAMEPLATE	21
–	–	–	–	–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	10	1009835-001	BUSHING SEAL	17
10	10	10	10	10	10	10	1010975	GASKET, RETAINED	16
–	–	–	–	–	–	–			15
1	1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
–	–	–	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	1	2007109-011	AAC FILTER & MULTIVIBRATOR 3200 CPS	4
–	1	–	–	1	1	1	6008035	COVER	3
–	1	–	–	1	1	1	1010974	GASKET, RETAINED	2
–	–	–	–	–	–	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 25 Mar 65
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

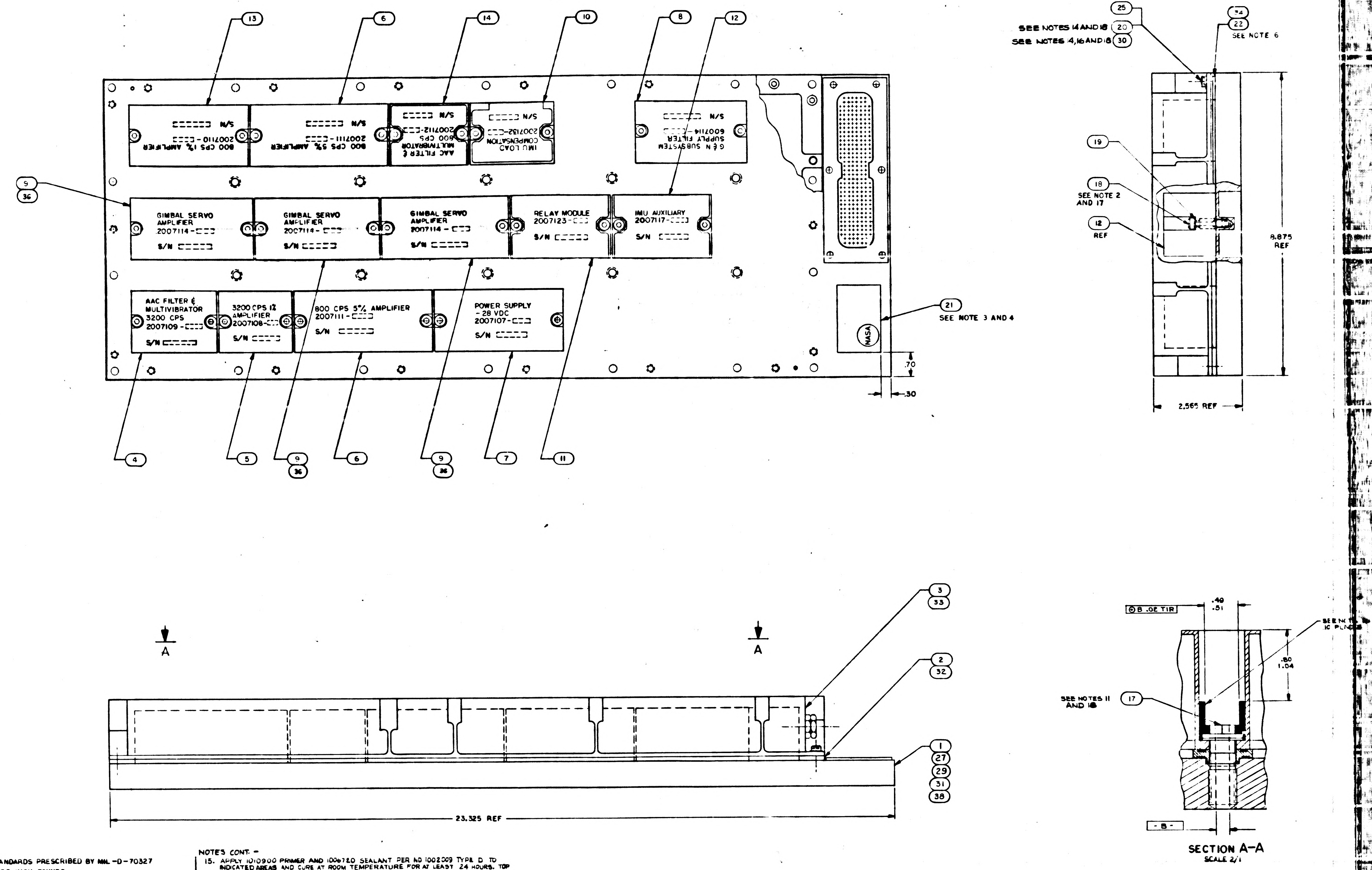
POWER & SERVO ASSEMBLY (LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200 Y

6007200 Y

2/6007200


13
6
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12
800 CPS 1% AMPLIFIER
2007110 - ▭▭
S/N ▭▭▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭
S/N ▭▭▭▭
AAC FILTER & MULTIVIBRATOR 800 CPS
2007112 - ▭▭
S/N ▭▭▭▭
IMU LOAD COMPENSATION
2007132 - ▭▭
S/N ▭▭▭▭
G & N SUBSYSTEM SUPPLY FILTER
6007114 - ▭▭
S/N ▭▭▭▭
9
36
GIMBAL SERVO AMPLIFIER
2007114 - ▭▭
S/N ▭▭▭▭
RELAY MODULE
2007123 - ▭▭
IMU AUXILIARY
2007117 - ▭▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭▭
3200 CPS 1% AMPLIFIER
2007108 - ▭▭
800 CPS 5% AMPLIFIER
2007111 - ▭▭
POWER SUPPLY - 28 VDC
2007107 - ▭▭
NASA
21
SEE NOTE 3 AND 4
.70
.30
4
5
9
36
6
9
36
7
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25
SEE NOTES 14 AND 18 20
SEE NOTES 4,16 AND 18 30
34
22
SEE NOTE 6
19
18
SEE NOTE 2 AND 17
12
REF
8.875 REF
2.565 REF
A
A
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33
2
32
1
27
29
31
38
23.325 REF
⊙ B .02 TIR
.49
.51
.80
1.04
SEE NOTES 11 AND 18
17
-B-
SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO 21 TO FIND NO. 1, 27, 29, 31, OR 38 PER ND 1002219
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15 & FIND NO. 36, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

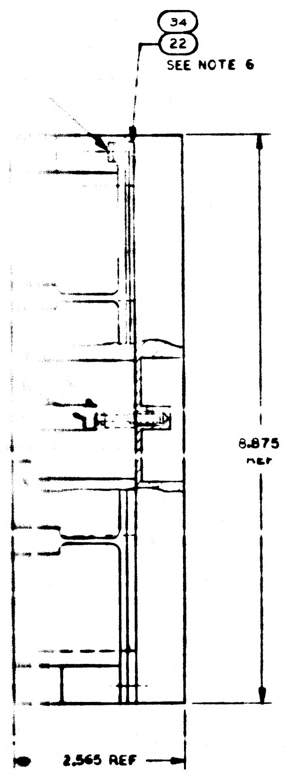
NOTES CONT. -

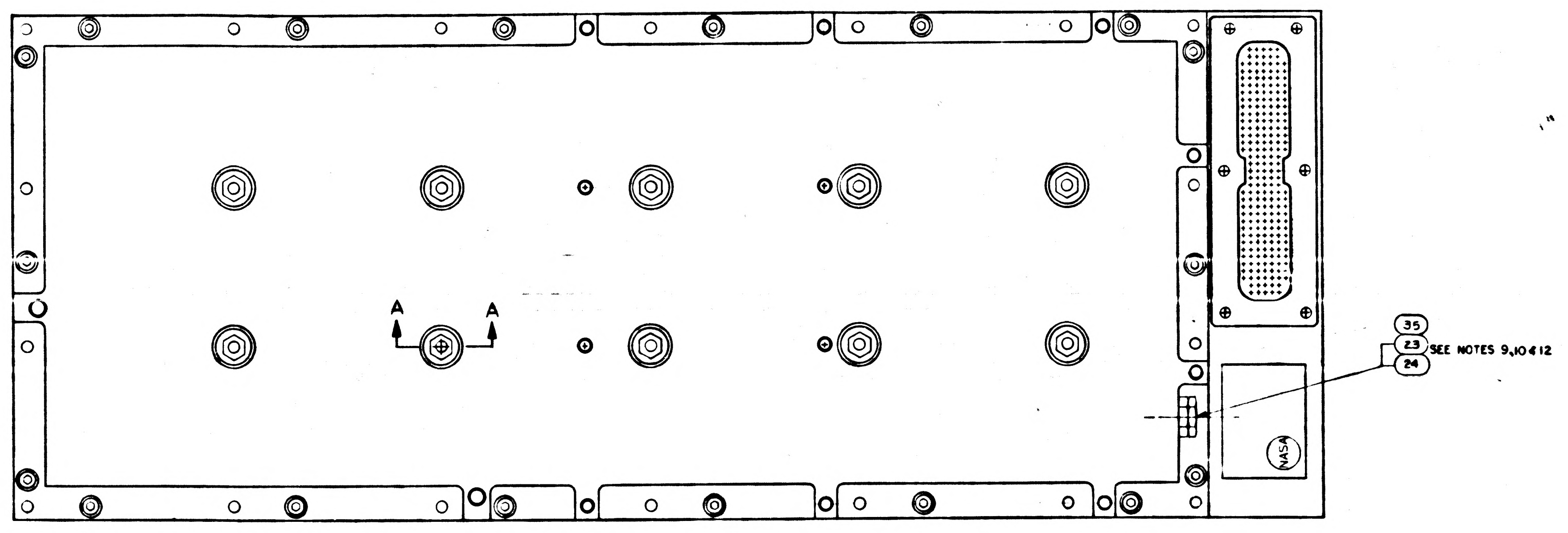
15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION-031,-021,-011 AND -061.
16. APPLY SEALANT 1006338-003 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION -031,-021,-011 AND -061.
17. APPLY A UNIFORM THIN FILM OF FIND NO. 37 TO SCREW THREADS.
18. APPLY A UNIFORM THIN FILM OF FIND NO. 39 TO SCREW THREADS OF FIND NOS. 20, 30 AND 17.

6007200 Z

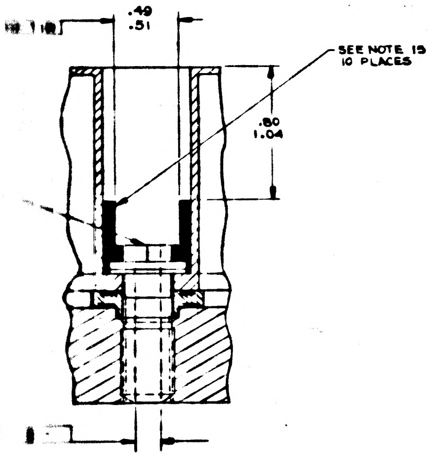
1/6007200

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES WORD DWG REV C PER TDRR 22774				
E		REVISED PER TDRR 23201	KCN			
F		REVISED PER TDRR 23755				
G		REVISED PER TDRR 24564				
H		REVISED PER TDRR 25102				
J		REVISED PER TDRR 27504			11 APR-66	
K		REVISED PER TDRR 27817			19 APR 66	
L		REVISED PER TDRR 27996	PHG		20 APR 66	
M		REVISED PER TDRR 27995		CP	21-APR-66	
N		REVISED PER TDRR 29445			10 JUN 66	
P		REVISED PER TDRR 29437			13-JUN-66	
R		REVISED PER TDRR 31167	ME			
S		REVISED PER TDRR 32033	TD			
T		REVISED PER TDRR 32398	REP	LW		
U		REVISED PER TDRR 33521		RCB	12 APR 67	
V		REVISED PER TDRR 33730		RJJ	11 JULY 67	
W		REVISED PER TDRR 34650	DL		29 SEP 67	
Y		REVISED PER TDRR 34975				
Z		REVISED PER TDRR 36779			10 SEP 68	





VIEW A-A



SECTION A-A
SCALE 2/1

Ⓓ REPLACES WORD DWG REV C

QTY REQ -071	QTY REQ -061	QTY REQ -051	QTY REQ -041	QTY REQ -031	QTY REQ -021	QTY REQD -011	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	AR	AR	AR	1008985	GREASE, FLUORINATED	39
1	–	–	–	–	–	–	6007103-031	HEADER ASSEMBLY	38
AR	AR	AR	AR	AR	AR	AR	1008930	GREASE, MOLYBDENUM DISULFIDE	37
3	3	3	–	–	–	–	2007114-021	GIMBAL SERVO AMPLIFIER	36
1	–	1	1	–	–	–	2018773	VALVE ASSEMBLY	35
1	–	1	1	–	–	–	2010784-001	GASKET, SEALING PLATE	34
1	–	1	1	–	–	–	6010658	COVER, INSEP. ASSY	33
1	–	1	1	–	–	–	2010784-006	GASKET, RETAINED	32
–	–	1	1	–	–	–	6007103-021	HEADER ASSEMBLY	31
18	18	18	18	18	18	–	1008874-019	SCREW, CAP, SOCKET HD.	30
–	1	–	–	1	–	–	6007003-021	HEADER ASSEMBLY	29
~~–~~	~~18~~	~~–~~	~~–~~	~~18~~	~~18~~	~~–~~	~~1010977-002~~	~~SCREW, CAP SOCKET HEAD~~	28
–	–	–	–	–	1	–	6007103-011	HEADER ASSEMBLY	27
10	10	10	10	10	10	10	2004148-004	WASHER, FLAT	26
18	18	18	18	18	18	18	2004148-003	WASHER, FLAT	25
1	1	1	1	1	1	1	1000159-5	PACKING, PREFORMED "O" RING	24
–	1	–	–	1	1	1	2007213-011	VALVE ASSEMBLY	23
–	1	–	–	1	1	1	1008828-001	GASKET, SEALING PLATE-OUTPUT CONN	22
1	1	1	1	1	1	1	1004260-153	NAMEPLATE	21
–	–	–	–	–	–	18	NAS1352-06-10	SCREW, CAP SOCKET HEAD	20
28	28	28	28	28	28	28	2008033-1	WASHER, FLAT	19
28	28	28	28	28	28	28	1010977-001	SCREW, CAPTIVE	18
10	10	10	10	10	10	10	1008835-001	BUSHING SEAL	17
10	10	10	10	10	10	10	1010975	GASKET, RETAINED	16
–	–	–	–	–	–	–			15
1	1	1	1	1	1	1	2007112-011	AAC FILTER & MULTIVIBRATOR 800 CPS	14
1	1	1	1	1	1	1	2007110-011	800 CPS 1% AMPLIFIER	13
1	1	1	1	1	1	1	2007117-011	IMU AUXILIARY	12
1	1	1	1	1	1	1	2007123-011	RELAY MODULE	11
1	1	1	1	1	1	1	2007132-011	IMU LOAD COMPENSATION	10
–	–	–	3	3	3	3	2007114-011	GIMBAL SERVO AMPLIFIER	9
1	1	1	1	1	1	1	6007114-011	G&N SUBSYSTEM SUPPLY FILTER	8
1	1	1	1	1	1	1	2007107-011	POWER SUPPLY -28VDC	7
2	2	2	2	2	2	2	2007111-011	800 CPS 5% AMPLIFIER	6
1	1	1	1	1	1	1	2007108-011	3200 CPS 1% AMPLIFIER	5
1	1	1	1	1	1	1	2007109-011	AAC. FILTER & MULTIVIBRATOR 3200 CPS	4
–	1	–	–	1	1	1	6008035	COVER	3
–	1	–	–	1	1	1	1010974	GASKET, RETAINED	2
–	–	–	–	–	–	1	6007003-011	HEADER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

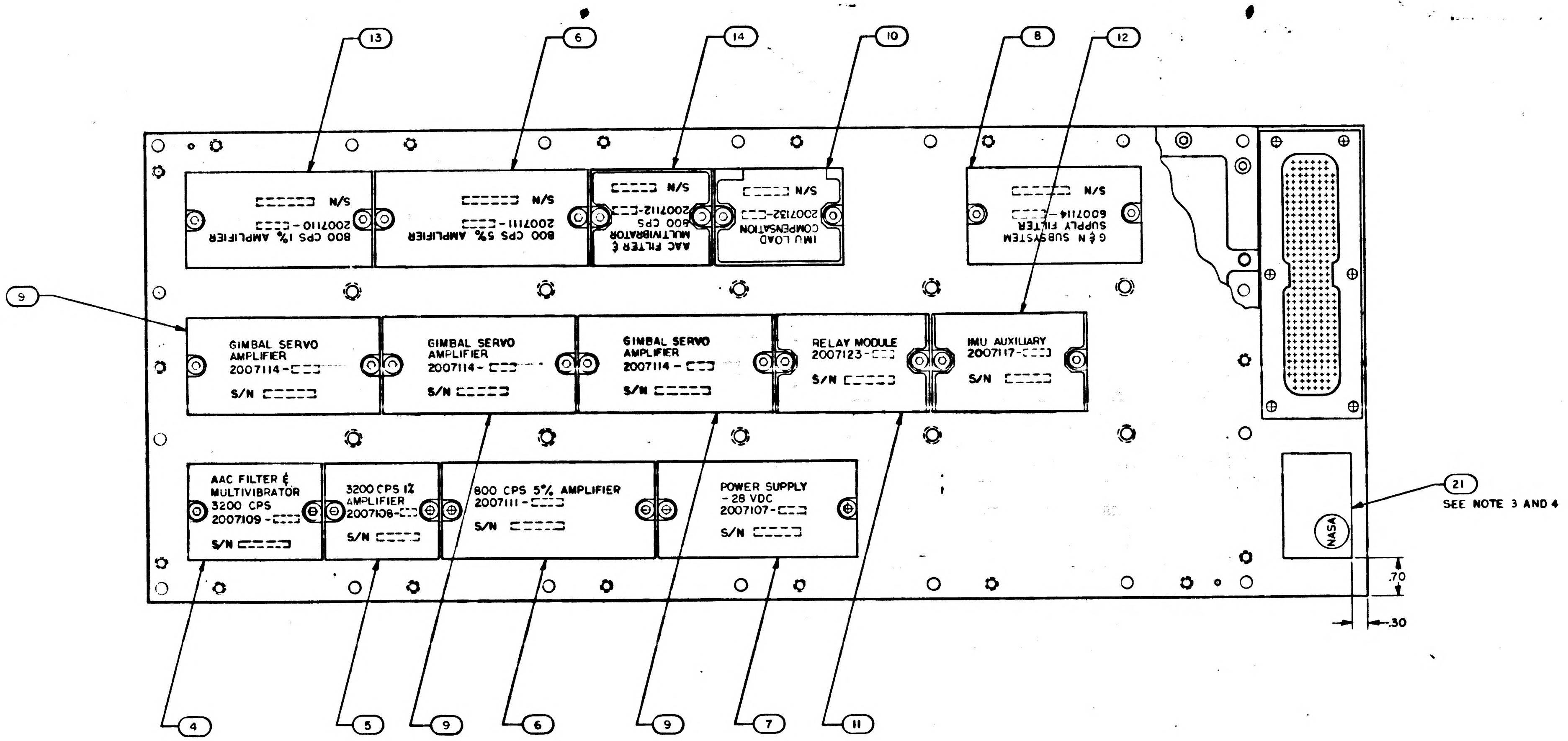
POWER & SERVO ASSEMBLY
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6007200
SCALE 1/1
SHEET 1 OF 1

6007200

6007200 Z

27 6007200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800 CPS 1% AMPLIFIER
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S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
800 CPS
2007112 - ▭
S/N ▭
IMU LOAD COMPENSATION
2007132 - ▭
S/N ▭
G & N SUBSYSTEM SUPPLY FILTER
6007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
GIMBAL SERVO AMPLIFIER
2007114 - ▭
S/N ▭
RELAY MODULE
2007123 - ▭
S/N ▭
IMU AUXILIARY
2007117 - ▭
S/N ▭
AAC FILTER & MULTIVIBRATOR
3200 CPS
2007109 - ▭
S/N ▭
3200 CPS 1% AMPLIFIER
2007108 - ▭
S/N ▭
800 CPS 5% AMPLIFIER
2007111 - ▭
S/N ▭
POWER SUPPLY
- 28 VDC
2007107 - ▭
S/N ▭
NASA
21
SEE NOTE 3 AND 4
.70
.30
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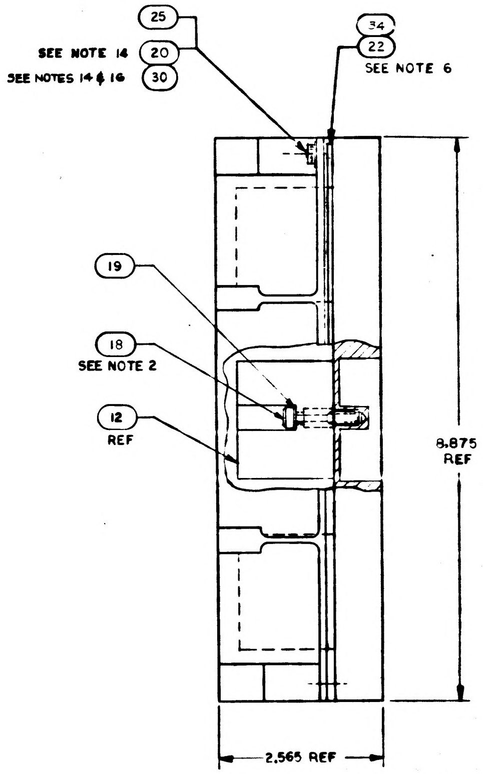
7
11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SEE NOTE 14
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SEE NOTES 14 & 16
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SEE NOTE 6
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SEE NOTE 2
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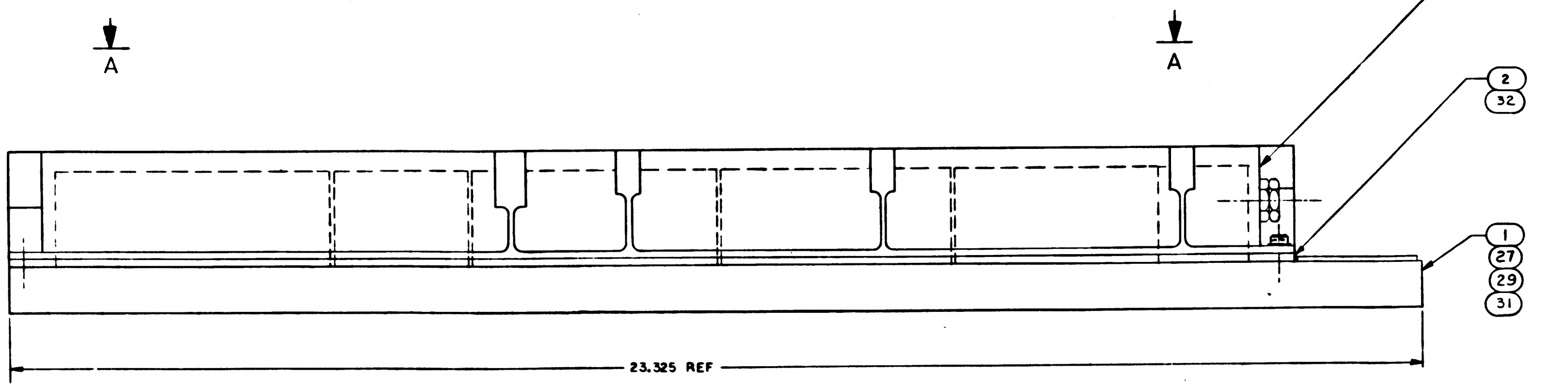
2.565 REF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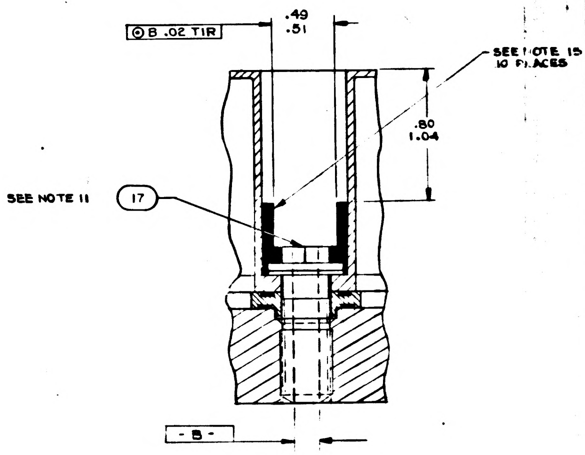
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.49
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SEE NOTE 15
10 PLACES
.80
1.04
SEE NOTE 11
17
- B -

SECTION A-A
SCALE 2/1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MOUNTING TORQUE FOR FIND NO. 18 TO BE 18-22 INCH POUNDS.
3. IDENTIFY WITH PART NO. PER ND1002019 AND SERIALIZE PER ND 1002023
4. BOND FIND NO. 21 TO FIND NO. 1, 27, 29 OR 31 PER ND 1002219.
5. APPLY A THIN FILM OF SILICONE GREASE 1006879 TO THE MOUNTING SURFACES OF FIND NO. 4 THRU FIND NO. 15, EXCESS GREASE SHALL NOT BE EXPOSED. CLEANING IS PERMITTED
6. FIND NO. 22 OR 34 SHALL BE SUPPLIED AS PART OF THIS ASSEMBLY.
7. PROCURE SPARE ASSEMBLIES PER PS 6007200.
8. LEAK TEST PER ND 1002290, TYPE I
9. MOUNTING TORQUE FOR FIND NO. 23 AND 35 BODY TO BE 55-60 INCH POUNDS.
10. MOUNTING TORQUE FOR PLUG TO BODY OF FIND NO. 23 AND 35 TO BE 22-27 INCH POUNDS.
11. MOUNTING TORQUE FOR FIND NO. 17 TO BE 180-200 INCH POUNDS
12. APPLY SEALING COMPOUND PER MIL-S-22473, GRADE C TO THREADS OF FIND NO. 23 OR 35 PRIOR TO INSTALLATION IN FIND NO. 3 OR 33 RESPECTIVELY.
13. APPLY A LIGHT FILM OF SILICONE GREASE, PER SCD 1008855, TO THE RUBBER SEALING SURFACES OF FIND NO'S. 2 OR 32 AND FIND NO. 16. REMOVE ANY EXCESS GREASE.
14. MOUNTING TORQUE FOR FIND NO. 20 AND 30 TO BE 17-19 IN. LBS.

NOTES CONT. -

15. APPLY 1010900 PRIMER AND 1006720 SEALANT PER ND 1002009 TYPE D TO INDICATED AREAS AND CURE AT ROOM TEMPERATURE FOR AT LEAST 24 HOURS. TOP SURFACE OF FIND NO. 17 MUST BE FREE OF SEALANT. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY CONFIGURATION 031, 021, AND 011.
16 APPLY SEALANT 1006338-000 TO COAT FIND NO'S. 30 AND 25 WITH A MINIMUM OVERALL THICKNESS OF .06 AND EXTEND BEYOND THE SPOTFACE AND OVERLAP THE PAINTED SURFACE TO A MAXIMUM OF .12. SEALANT NOT TO EXTEND OVER THE EDGE OF THE COVER. SEALED SURFACES TO BE CLEANED BY DEGREASING USING FREON AND ISO-PROPYL ALCOHOL PRIOR TO SEALING. THIS NOTE DOES NOT APPLY TO CONFIGURATION 031, 021 AND 011.

6007200	R

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

6007200

REVISIONS 15484			
SYM	DESCRIPTION	DATE	APPROVAL

PART NO.	MODULE ASSEMBLY	ASS'Y DASH NO. -011 QTY
2007107-011	-28 VDC POWER SUPPLY	1
2007108-011	3200 CPS 1% AMPLIFIER	1
2007109-011	3200 CPS PHASE & AMPLITUDE CONTROL	1
2007110-011	800 CPS 1% AMPLIFIER	1
2007111-011	800 CPS 5% AMPLIFIER	2
2007112-011	800 CPS AAC FILTER	2
2007113-011	G & N SUBSYSTEM SUPPLY FILTER	2
2007117-011	FAILURE INDICATOR & WARNING	1
2007114-011	GIMBAL SERVO AMPLIFIER	3
6007119-011	SIGNAL CONDITIONING POWER SUPPLY	1
	MODULE TOTAL	15

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN Karen DATE 4/5/65
CHECKED
APPROVAL
APPROVAL D.B. Test 4/12/65
NASA APPROVAL W.J. Rhine 4-13-65
MIT APPROVAL W. Kupfer 13 Jan 65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER & SERVO ASSEMBLY

CODE IDENT NO. | SIZE C | NASA DRAWING NO. 6007200
SCALE | WT | SHEET | OF

APOLLO G&N Specification
PS6007200 REV –
Original Issue Date: 24 May 1966
Release Authority: TDRR 29156
Class A Release
CODE IDENT NO. 80230

PROCUREMENT SPECIFICATION

PRODUCT CONFIGURATION AND ACCEPTANCE TEST REQUIREMENTS

POWER AND SERVO ASSEMBLY

DRAWING NUMBER 6007200

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page 1 to 17 inclusive.

APPROVALS	A. C. METZGER NASA/MSC	John E Miller 23 May 66 MIT/IL	ACSP

1. SCOPE

1.1 PURPOSE. This specification establishes the detail requirements for complete identification and acceptance of the Power and Servo Assembly, Part Numbers 6007200-011, 6007200-021, and 6007200-031, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, Military Standards and Specifications shall be the issue in effect on the date of request for proposal or invitation to bid.

SPECIFICATIONS

Military

MIL-T-21038	Transformers, Pulse, Low Power, General Specification for

APOLLO G&N

ND1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment

STANDARDS

Military

MIL-STD-202C	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

6007200	Power and Servo Assembly

(Copies of specifications, standards, drawings, bulletins, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 CONFLICTING REQUIREMENTS. In the event of a conflict between requirements, the following order of precedence shall apply. The contractor shall also notify MIT/IL APOLLO Management of the conflict.

a. The contract
b. This specification
c. Documents listed in this section

3. REQUIREMENTS

3.1 PERFORMANCE

3.1.1 IMU Operate G&N Subsystem Power Supply Filter Outputs. The assembly shall supply a filtered +27.5+0.1, -0.3 vdc output. The leakage current of the diodes shall not exceed 500 microamperes at 27.5 +0.1, -0.3 vdc.

3.1.2 Power Amplifier Output, 3.2 KC. The assembly shall supply an output voltage of 28.50±0.35V rms synchronized to the 3.2 kc reference input signal and it shall also supply a nonsynchronized output of 28.5±1.5V rms.

3.1.3 IMU 800 CPS Power Supply Outputs. The assembly shall supply a 1 percent, 800 cps, output of 28.00±0.38V rms, synchronized with the 800 pps reference input signals or it shall supply an 800 cps nonsynchronized output of 28.0±1.5V rms. It shall also supply 5 percent, 800 cps phase A and phase B outputs. The gain of the phase A and the phase B amplifiers shall be 1.00±0.04 V/V. The phase A output shall be 270° ±3° with respect to the output of the 1 percent, 800 cps amplifier. The phase B output shall be 270° ±3° with respect to the phase A output. The 5 percent, 800 cps phase A and phase B output monitor point voltages shall be 14.0±1.4V rms across 10K ohm resistances between the monitor points and ground.

3.1.4 Power Supply, -28 VDC. The assembly shall provide a synchronized output of -23.0 to -31.3 vdc, and a monitor point voltage of -14.5±1.0 vdc across a 10K ohm resistance between the monitor point and ground. The assembly shall provide a nonsynchronized output of -28 to -30 vdc.

3.1.5 ISS Turn On Detection

a. The ISS turn on delay request output shall be greater than +11.3 vdc and the cage relay shall be energized when the IMU operate and standby bus is energized.

b. The ISS turn on delay request output shall be equal to or less than 1.5 vdc and the cage relay shall be energized when a cage command input is applied. The output shall remain equal to or less than 1.5 vdc and the cage relay shall deenergize upon subsequent removal of the cage command input.

c. The ISS turn on delay request output shall be greater than +11.3 vdc and the cage relay shall be energized after the IMU operate bus has been momentarily (1 minute minimum) deenergized and then energized.

d. The ISS turn on delay request output shall be equal to or less than 1.5 vdc and the cage relay shall be deenergized when the ISS turn on delay request complete input is applied. The output shall remain equal to or less than 1.5 vdc and the cage relay shall remain deenergized upon subsequent removal of the ISS turn on delay request complete input.

3.1.6 Inner Gimbal (IG) Servo Amplifier

3.1.6.1 IG Output Null. The IG servo amplifier output shall be nulled to 0±5 ma dc with an input signal of less than or equal to ±200 mv dc.

3.1.6.2 IG Error Gain. The IG error signal gain shall be 20.5±5.1 amp/volt. A zero phase IG error signal shall produce a positive dc output, and a π phase IG error signal shall produce a negative dc output.

3.1.6.3 IG Cage Gain. The IG cage signal gain shall be 20.5±5.1 amp/volt. A zero phase IG cage signal shall produce a positive dc output, and a π phase IG cage signal shall produce a negative dc output.

3.1.6.4 IG Coarse Alignment Gain. The IG coarse alignment (C/A) signal gain shall be 20.5±5.1 amp/volt. A zero phase IG C/A signal shall produce a positive dc output, and a π phase IG C/A signal shall produce a negative dc output.

3.1.7 Middle Gimbal (MG) Servo Amplifier

3.1.7.1 MG Output Null. The MG servo amplifier shall be nulled to 0±5 ma dc with an input signal of less than or equal to ±200 mv dc.

3.1.7.2 MG Error Gain. The MG error signal gain shall be 41.0±10.2 amp/volt. A zero phase MG error signal shall produce a positive dc output, and a π phase MG error signal shall produce a negative dc output.

3.1.7.3 MG Cage Gain. The MG cage signal gain shall be 41.0±10.2 amp/volt. A zero phase MG cage signal shall produce a positive dc output, and a π phase MG cage signal shall produce a negative dc output.

3.1.7.4 MG Coarse Alignment Gain. The MG C/A signal gain shall be 41.0±10.2 amp/volt. A zero phase MG C/A signal shall produce a positive dc output, and a π phase MG C/A signal shall produce a negative dc output.

3.1.8 Outer Gimbal (OG) Servo Amplifier

3.1.8.1 OG Output Null. The OG servo amplifier shall be nulled to 0±5 ma dc with an input signal less than or equal to ±200 mv dc.

3.1.8.2 OG Error Gain. The OG error signal gain shall be 61.6±15.4 amp/volt. A zero phase OG error signal shall produce a positive dc output, and a π phase OG error signal shall produce a negative dc output.

3.1.8.3 OG Cage Gain. The OG cage signal gain shall be 61.6±15.4 amp/volt. A zero phase OG cage signal shall produce a positive dc output, and a π phase OG cage signal shall produce a negative dc output.

3.1.8.4 OG Coarse Alginment Gain. The OG C/A signal gain shall be 61.6±15.4 amp/volt. A zero phase OG C/A signal shall produce a positive dc output, and a π phase OG C/A signal shall produce a negative dc output.

3.1.9 IMU Failure Detection. The IMU fail output shall be 0 to 1.5 vdc when a gimbal error signal is less than or equal to 5.5V rms. The IMU fail output shall be greater than +11 vdc when a gimbal error signal is greater than or equal to 7.5V rms. or when the 3200 cps reference input is removed.

3.1.10 Temperature Out of Limits Detection. Temperature out of limits outputs shall be as specified below:

a. An output of 20.7±1.7 vdc when there is a temperature within limits input.

b. An output less than or equal to 1.0 vdc when there is a temperature out of limits input.

3.2 PRODUCT CONFIGURATION

3.2.1 Drawings. The configuration of the assembly shall be in accordance with APOLLO G&N Drawing 6007200 and all drawings and engineering data referenced thereon.

3.2.2 Standards of Manufacturing, Manufacturing Process and Production

3.2.2.1 Continuity and DC Resistance. Continuity and dc resistance shall be in accordance with Table I.

TABLE I

DC RESISTANCE

FROM (Hi)	TO (Lo)	RESISTANCE (ohms) Minimum	RESISTANCE (ohms) Maximum
45J19-A21	45J19-B21	5 meg	——
-B8	-B7	——	1.0
-K29	-H29	19.8K	20.2K
-A26	-A27	499.8	510.2
-B27	-B26	98	102
-K30	-H30	19.8K	20.2K
-A28	-A29	499.8	510.2
-B29	-B28	98	102
-K31	-H31	19.8K	20.2K
-A30	-A31	499.8 ✓	510.2
45J19-B31	45J19-B30	98	102

4. QUALITY ASSURANCE PROVISIONS

4.1 PRODUCT PERFORMANCE AND CONFIGURATION REQUIREMENTS/QUALITY VERIFICATION CROSS REFERENCE INDEX

Test/Examination	Requirement	Method
IMU Operate G&N Subsystem Power Supply Filter Outputs	3.1.1	4.3.3
Power Amplifier Output, 3.2 KC	3.1.2	4.3.4
IMU 800 CPS Power Supply Outputs	3.1.3	4.3.5
Power Supply, -28 VDC	3.1.4	4.3.6
ISS Turn On Detection	3.1.5	4.3.7
Inner Gimbal Servo Amplifier and IMU Failure Detection	3.1.6	4.3.8
IG Output Null	3.1.6.1	4.3.8.1
IG Error Gain and IMU Failure Detection	3.1.6.2, 3.1.9	4.3.8.2
IG Cage Gain	3.1.6.3	4.3.8.3
IG Coarse Alignment Gain	3.1.6.4	4.3.8.4
Middle Gimbal Servo Amplifier and IMU Failure Detection	3.1.7	4.3.9
MG Output Null	3.1.7.1	4.3.9.1
MG Error Gain and IMU Failure Detection	3.1.7.2, 3.1.9	4.3.9.2
MG Cage Gain	3.1.7.3	4.3.9.3
MG Coarse Alignment Gain	3.1.7.4	4.3.9.4
Outer Gimbal Servo Amplifier and IMU Failure Detection	3.1.8	4.3.10
OG Output Null	3.1.8.1	4.3.10.1
OG Error Gain and IMU Failure Detection	3.1.8.2, 3.1.9	4.3.10.2
OG Cage Gain	3.1.8.3	4.3.10.3
OG Coarse Alignment Gain	3.1.8.4	4.3.10.4
Temperature Out of Limits Detection	3.1.10	4.3.11
Drawing Compliance	3.2.1	4.3.1
Continuity and DC Resistance	3.2.2.1	4.3.2

4.2 GENERAL. The contractor responsible for the manufacture of the assembly shall be responsible for the accomplishment of each test required herein.

4.2.1 Test Conditions

4.2.1.1 Environmental. Unless otherwise specified, the assemblies shall be tested under the following ambient conditions:

a. Temperature: 25° ±10°C
b. Relative Humidity: 90% max
c. Barometric Pressure: 28 to 32 inches of Hg

4.2.1.2 Inputs. The following inputs are necessary for performance of the tests specified herein:

a. DC Supply Voltage: 28.3 vdc adjustable ±2.5 vdc, 20 amp minimum.

TABLE II

CONTINUOUSLY APPLIED SIGNALS

SIGNAL	PINS		AMPLITUDE ~~Volts~~ zero to peak (See NOTE)	PRF	PHASE
	Hi	Lo			
800 pps, 0° phase reference (set)	45J19-H24	45J19-K24	4.0 +0.5, -0.0	800 pps	0°
800 pps, 180° phase (reset)	-H25	-K25	↕	800 pps	180°
3200 pps, 0° phase reference (set)	-H21	-K21	↕	3200 pps	0°
3200 pps, 180° phase (reset)	-H22	-K22	↕	3200 pps	180°
25.6K pps reference	45J19-H23	45J19-K23	4.0 +0.5, -0.0	25.6K pps	0°

NOTE: The amplitude of the 4.0 +0.5, -0.0 reference pulse signals shall be adjustable to 2.1±0.1V zero to peak when specified in a particular test.

TABLE III

INDIVIDUALLY APPLIED TEST INPUT SIGNALS

SIGNAL	DESCRIPTION
DC Input Signal	0 to ±250 mv dc, adjustable
800 cps Sine Wave	0 to 1V rms, 800 cps, 0° ±3° phase and 180° ±3° phase with respect to the 800 pps 0° phase reference input.
3200 cps Sine Wave	0 to 9V rms, 3200 cps, 0° ±3° phase and 180° ±3° phase with respect to the 3200 pps 0° phase reference input.

(2) With the 800 pps (0° and 180°) reference inputs removed, the output between 45J19-H10 (Hi) and 45J19-K10 (Lo) shall be 28.0±1.5V rms and it shall lose synchronization.

(3) The output between 45J19-D11 (Hi) and 45J19-F11 (Lo) shall be such that a gain of 1.00±0.04 V/V is obtained by dividing the output at these pins by the output obtained in 4.3.5.b(2).

(4) The output between 45J19-G11 (Hi) and 45J19-F11 (Lo) shall be such that a gain of 1.00±0.04 V/V is obtained by dividing the output at these pins by the output obtained in 4.3.5.b(3).

c. With the dc supply voltage adjusted to 30.1±0.1 vdc, outputs shall be as specified in 4.3.5.a.

4.3.6 Power Supply, -28 VDC. With the dc supply voltage applied to 45J19-A4 (Hi) and 45J19-A5 (Lo) and with a dc test input signal applied to 45J19-G29 (Hi), 45J19-G30 (Hi), 45J19-G31 (Hi) and 45J19-G28 (Lo), the -28 VDC Power Supply tests shall be as follows:

a. With the dc supply voltage adjusted to 25.1±0.1 vdc and the dc test signal adjusted to +250 mv dc minimum, the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -23.0 to -31.3 vdc, and the monitor point voltage across a 10K ohm ±1 percent resistance between 45J19-F9 (Hi) and 45J19-A5 (Lo) shall be -14.5±1.0 vdc.

b. With the dc supply voltage adjusted to 30.1±0.1 vdc and the dc test signal adjusted to -250 mv dc minimum, the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -23.0 to -31.3 vdc.

c. With the dc supply voltage at 30.1±0.1 vdc, the dc test signal adjusted to +250 mv dc minimum and the 25.6K pps reference input signal removed from 45J19-H23 (Hi) and 45J19-K23 (Lo), the output between 45J19-F8 (Hi) and 45J19-A5 (Lo) shall be -28 to -30 vdc.

4.3.7 ISS Turn On Detection. With a dc supply voltage of 25.1±0.1 vdc applied between 45J19-A4 (Hi) and 45J19-A5 (Lo), the following tests shall be performed. With a dc supply voltage of 30.1±0.1 vdc applied to these same pins, the following tests shall be repeated.

a. With the dc supply voltage momentarily (1 minute minimum) removed from 45J19-A4 (Hi) and then reapplied, the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall be greater than +11.3 vdc, and the dc resistance between 45J19-A21 and 45J19-B21 and between 45J19-B8 and 45J19-B7 shall be less than or equal to 1.5 ohms.

b. With the dc supply voltage also applied to 45J19-H16 (Hi), the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall be less than or equal to +1.5 vdc, the dc resistance between 45J19-A21 and 45J19-B21 shall be less than or equal to 1.5 ohms, and the dc resistance between 45J19-B8 and 45J19-B7 shall be greater than or equal to 5 megohms. Upon subsequent removal of the dc supply voltage from 45J19-H16 (Hi), the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall remain less than or equal to +1.5 vdc, and the dc resistance between 45J19-A21 and 45J19-B21 and between 45J19-B8 and 45J19-B7 shall be greater than or equal to 5 megohms.

c. With the conditions in 4.3.7.a re-established and with a resistance of 2K ohms ±5 percent connected between 45J19-H20 and 45J19-A5, the voltage between 45J19-G20 (Hi) and 45J19-A5 (Lo) shall be less than or equal to +1.5 vdc, and shall remain less than or equal to +1.5 vdc after subsequent removal of the resistance between 45J19-H20 and 45J19-A5.

4.3.8 Inner Gimbal Servo Amplifier and IMU Failure Detection. With 25.1±0.1 vdc applied between 45J19-A4 (Hi) and 45J19-A5 (Lo), the following tests shall be performed. With 30.1±0.1 vdc applied to these pins and with 30.1±0.1 vdc applied in place of 25.1±0.1 vdc in 4.3.8.3.a, the following tests shall be repeated.

4.3.8.1 IG Output Null. With a dc test signal applied to 45J19-G29 (Hi) and 45J19-G28 (Lo), and varied as necessary in amplitude and polarity to obtain an output voltage null of 0±5 mv dc between 45J19-B26 (Hi) and 45J19-G28 (Lo) the test signal voltage shall be less than or equal to ±200 mv dc.

4.3.8.2 IG Error Gain and IMU Failure Detection. With the output nulled as specified in 4.3.8.1 and the connection removed from between 45J19-K29 (Hi) and 45J19-K28 (Lo), error signal gain and IMU failure detection shall be checked as follows:

a. With a 3200 cps, 10±1 mv rms, 0° phase test signal applied between 45J19-K29 (Hi) and 45J19-K28 (Lo), the output between 45J19-B26 (Hi) and 45J19-G28 (Lo) shall be measured 45±15 seconds after the test signal is applied. The gain from input to output shall be 20.5±5.1 amp/volt, and the output shall be positive dc.

b. With the test signal in 4.3.8.2.a removed and the output nulled as specified in 4.3.8.1, a 3200 cps, 10±1 mv rms, 180° phase test signal shall be applied between 45J19-K29 (Hi) and 45J19-K28 (Lo). The output between 45J19-B26 (Hi) and 45J19-G28 (Lo) shall be measured 45±15 seconds after the test signal is applied. The gain from input to output shall be 20.5±5.1 amp/volt, and the output shall be negative dc.

c. With the 3200 cps test signal (applied in 4.3.8.2.b) adjusted in amplitude to 5.5V +0.5, -0.1 Vrms, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to +1.5 vdc.

d. With the above 3200 cps test signal adjusted in amplitude to 7.5 +0.1, -0.6V rms, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be greater than +11 vdc.

e. With the 3200 cps test signal removed from 45J19-K29 (Hi) and 45J19-K28 (Lo), and the pins connected together, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to +1.5 vdc.

4.3.8.3 IG Cage Gain. With the conditions specified below established and the output between 45J19-B26 (Hi) and 45J19-G28 (Lo) measured 45±15 seconds after the 800 cps test signal is applied, the gain from input to output shall be 20.5±5.1 amp/volt, and the output shall be positive dc.

a. A 25.1±0.1 vdc input applied to 45J19-H16 (Hi) and 45J19-A5 (Lo).

b. DC ground applied to 45J19-B17.

c. The output between 45J19-B26 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.8.1.

d. An 800 cps, 10±1 mv rms, 0° phase test signal applied between 45J19-B35 (Hi) and 45B19-B34 (Lo).

4.3.8.4 IG Coarse Alignment Gain. With the following conditions established and the output between 45J19-B26 (Hi) and 45J19-G28 (Lo) measured 45±15 seconds after the 800 cps test signal is applied, the gain from input to output shall be 20.5±5.1 amp/volt, and the output shall be negative dc.

a. DC ground applied to 45J19-B17.

b. The output between 45J19-B26 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.8.1.

c. An 800 cps, 10±1 mv rms, 180° phase test signal applied between 45J19-C35 (Hi) and 45J19-C34 (Lo).

4.3.9 Middle Gimbal Servo Amplifier and IMU Failure Detection. With 25.1±0.1 vdc applied between 45J19-A4 (Hi) and 45J19-A5 (Lo), the following tests shall be performed. With 30.1±0.1 vdc applied to these pins and with 30.1±0.1 vdc applied in place of 25.1±0.1 vdc in 4.3.9.3.a, the following tests shall be repeated.

4.3.9.1 MG Output Null. With a dc test signal applied to 45J19-G30 (Hi) and 45J19-G28 (Lo), and varied as necessary in amplitude and polarity to obtain an output null voltage of 0±5 mv dc between 45J19-B28 (Hi) and 45J19-G28 (Lo), the test signal voltage shall be less than or equal to ±200 mv dc.

4.3.9.2 MG Error Gain and IMU Failure Detection. With the output nulled as specified in 4.3.9.1, failure detection shall be checked as follows:

a. With a 3200 cps, 5±1 mv rms, 0° phase test signal applied between 45J19-K30 (Hi) and 45J19-K28 (Lo), the output between 45J19-B28 (Hi) and 45J19-G28 (Lo) shall be measured 45±15 seconds after test signal is applied. The gain from input to output shall be 41.0±10.2 amp/volt, and the output shall be positive dc.

b. With the test signal in 4.3.9.2.(a) removed and the output nulled as specified in 4.3.9.1, a 3200 cps, 5±1 mv rms, 180° phase test signal shall be applied between 45J19-K30 (Hi) and 49J19-K28 (Lo). The output between 45J19-B28 (Hi) and 45J19-G28 (Lo) shall be measured 45±15 seconds after the test signal is applied. The gain from input to output shall be 41.0±10.2 amp/volt, and the output shall be negative dc.

c. With the 3200 cps test signal (applied in 4.3.9.2.b) adjusted in amplitude to 5.5+0.0, -0.1 V rms, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to +1.5 vdc.

d. With the 3200 test signal adjusted in amplitude to 7.5 +0.1, -0.0 V rms, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be greater than +11 vdc.

e. With the 3200 cps test signal removed from 45J19-K30 (Hi) and 45J19-G28 (Lo), and the pins connected together, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to +1.5 vdc.

4.3.9.3 MG Cage Gain. With the conditions specified below established, and the output between 45J19-B28 (Hi) and 45J19-G28 (Lo) measured, 45±15 seconds after the 800 cps test signal is applied, the gain from input to output shall be 41.0±10.2 amp/volt, and the output shall be positive dc.

a. A 25.1±0.1 vdc input applied to 45J19-H16 (Hi) and 45J19-A5 (Lo).

b. DC ground applied to 45J19-B17.

c. The output between 45J19-B28 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.9.1.

d. An 800 cps, 5±1 mv rms, 0° phase test signal applied between 45J19-D35 (Hi) and 45J19-D34 (Lo).

4.3.9.4 MG Coarse Alignment Gain. With the following conditions established, and the output between 45J19-B28 (Hi) and 45J19-G28 (Lo) measured 45±15 seconds after the 800 cps test signal is applied, the gain from input to output shall be 41.0±10.2 amp/volt and the output shall be negative dc.

a. DC ground applied to 45J19-B17.

b. The output between 45J19-B28 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.9.1.

c. An 800 cps, 5±1 mv rms, 180° phase test signal applied between 45J19-F35 (Hi) and 45J19-F34 (Lo).

4.3.10 Outer Gimbal Servo Amplifier and IMU Failure Detection. With 25.1±0.1 vdc applied between 45J19-A4 (Hi) and 45J19-A5 (Lo), the following tests shall be performed. With 30.1±0.1 applied to these pins and with 30.1±0.1 vdc applied in place of 25.1±0.1 vdc in 4.3.10.3.a, the following tests shall be repeated.

4.3.10.1 OG Output Null. With a dc test signal applied to 45J19-G31 (Hi) and 45J19-G28 (Lo), and varied as necessary in amplitude and polarity to obtain an output null voltage of 0±5 mv dc between 45J19-B30 (Hi) and 45J19-G28 (Lo), the test signal voltage shall be less than or equal to ±200 mv dc.

4.3.10.2 OG Error Gain and IMU Failure Detection. With the output nulled as specified in 4.3.10.1 and the connections removed from 45J19-K31 (Hi) and 45J19-K28 (Lo), the error signal gain and IMU failure detection shall be checked as follows.

a. With a 3200 cps, 5±1 mv rms, 0° phase test signal applied between 45J19-K31 (Hi) and 45J19-K28 (Lo), the output between 45J19-B30 (Hi) and 45J19-G28 (Lo) shall be measured 45±15 seconds after the test signal is applied. The gain from input to output shall be 61.6±15.4 amp/volt, and the output shall be positive dc.

b. With the test signal in 4.3.10.2.a removed and the output nulled as specified in 4.3.10.1, a 3200 cps, 5±1 mv rms, 180° phase test signal shall be applied between 45J19-K31 (Hi) and 45J19-K28 (Lo). The output between 45J19-B30 (Hi) and 45J19-K28 (Lo) shall be measured 45±15 seconds after the test signal is applied. The gain from input to output shall be 61.6±15.4 amp/volt, and the output shall be negative dc.

c. With the 3200 cps test signal (applied in 4.3.10.2, b) adjusted in amplitude to 5.5 +0.0, -0.1V rms the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to +1.5 vdc.

d. With the 3200 cps test signal adjusted in amplitude to 7.5 +0.1, -0.0V rms, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be greater than +11 vdc.

e. With the 3200 cps test signal removed from 45J19-K31 (Hi) and 45J19-K28 (Lo), and the pins connected together, the output between 45J19-A22 (Hi) and 45J19-A5 (Lo) shall be 0 to 1.5 vdc.

4.3.10.3 OG Cage Gain. With the conditions specified below established, and the output between 45J19-B30 (Hi) and 45J19-G28 (Lo) measured 45±15 seconds after the 800 cps test signal is applied, the gain from input to output shall be 61.6±15.4 amp/volt, and the output shall be positive dc.

a. A 25.1±0.1 vdc input applied to 45J19-H16 (Hi) and 45J19-A5 (Lo).

b. DC ground applied to 45J19-B17.

c. The output between 45J19-B30 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.10.1.

d. An 800 cps, 5±1 mv rms, 0° phase signal applied between 45J19-G35 (Hi) and 45J19-G34 (Lo).

4.3.10.4 OG Coarse Alignment Gain. With the following conditions established, and the output at 45J19-B30 (Hi) and 45J19-G28 (Lo) measured, 45±15 seconds after the 800 cps signal is applied, the gain from input to output shall be 61.6±15.4 amp/volt, and the output shall be negative dc.

a. DC ground applied to 45J19-B17.

b. The output between 45J19-B30 (Hi) and 45J19-G28 (Lo) nulled as specified in 4.3.10.1.

c. An 800 cps, 5±1 mv rms, 180° phase test signal applied to 45J19-H35 (Hi) and 45J19-H34 (Lo).

4.3.11 Temperature Out of Limits Detection. With 30.1±0.1 vdc applied to 45J19-A8 (Hi) and 45J19-A5 (Lo), the following tests shall be performed:

a. With a dc ground applied to 45J19-G18, the output between 45J19-H18 (Hi) and 45J19-A5 (Lo) shall be 20.7±1.7 vdc.

b. With a dc input of 18.0±0.1 vdc applied to 45J19-G18, the output between 45J19-H18 (Hi) and 45J19-A5 (Lo) shall be less than or equal to 1.0 vac.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND1002214.

6. NOTES. None.

JFD/dmh

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NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM ALLOY PER MIL-M-26075 (HK31A-H24).
   SIZE TO BE 8.875 × 23.000 × 0.750.
   THIS SIZE IS AS FINISHED OVERALL DIMENSIONS.
3. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

CONFIGURATION INCOMPLETE

REVISIONS 19786

SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	REVISED PER CM 201220 TDRR 21757	—	26 JUN 65	DKD
B	REPLACED BY REV C CONFIGURATION DWG PER TDRR 21758		8/24/65	WK

Ⓑ REPLACED BY REV C

SEE NOTE 3

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	34	1010620-7	PIN, GUIDE
	43	MS 21209-C0815	INSERT, SCREW THREAD, SELF LOCKING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.005	+ —
— —	— —	— —

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN DATE 3 MAY 65
CHECKED Ed Foster 3 MAY 65
APPROVAL
APPROVAL 5/28/65
NASA APPROVAL 6-2-65
MIT APPROVAL 6-2-65

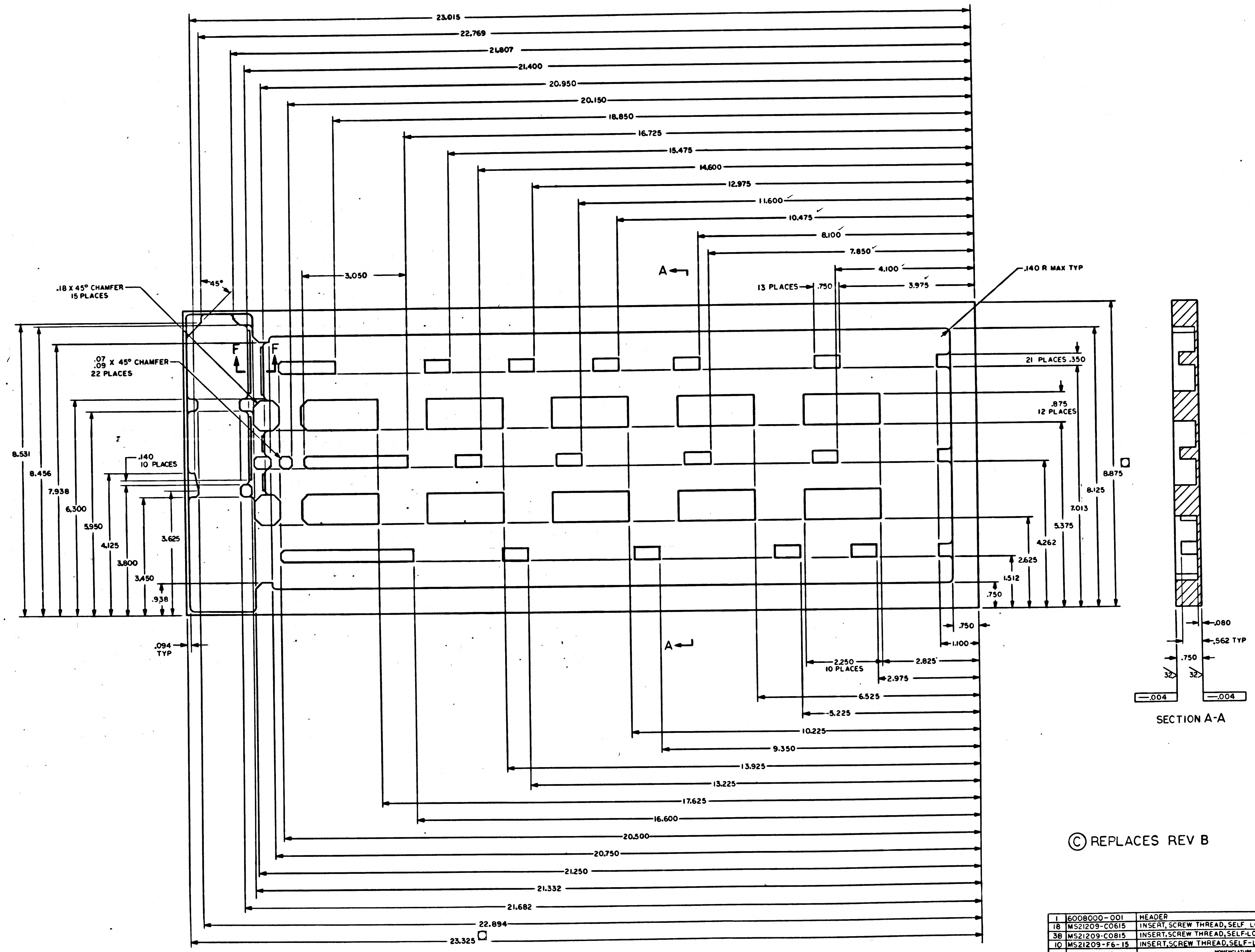
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER, PSA (LEM)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO.	SIZE	
80230	B	6008000
SCALE —		SHEET 1 OF 1

MIL 1077B-D 11-16-64

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	YB		8/24/65	



23.015
22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
3.050
13 PLACES .750
A
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 22 PLACES
.140 R MAX TYP
F
F
21 PLACES .350
.875 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
16.600
20.500
20.750
21.250
21.332
21.682
22.894
23.325
.080
.562 TYP
.750
32
32
.004
.004
SECTION A-A

Ⓒ REPLACES REV B

2x

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008000-001	HEADER	4
18	MS21209-C0615	INSERT, SCREW THREAD, SELF LOCKING	3
38	MS21209-C0815	INSERT, SCREW THREAD, SELF-LOCKING	2
10	MS21209-F6-15	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.B. Hagen 24MAY65
CHECKED Bonarrigo 16 July 65
APPROVED
APPROVED
APPROVED MIT W Crafer 24 Aug 65
APPROVED MSC
DATE

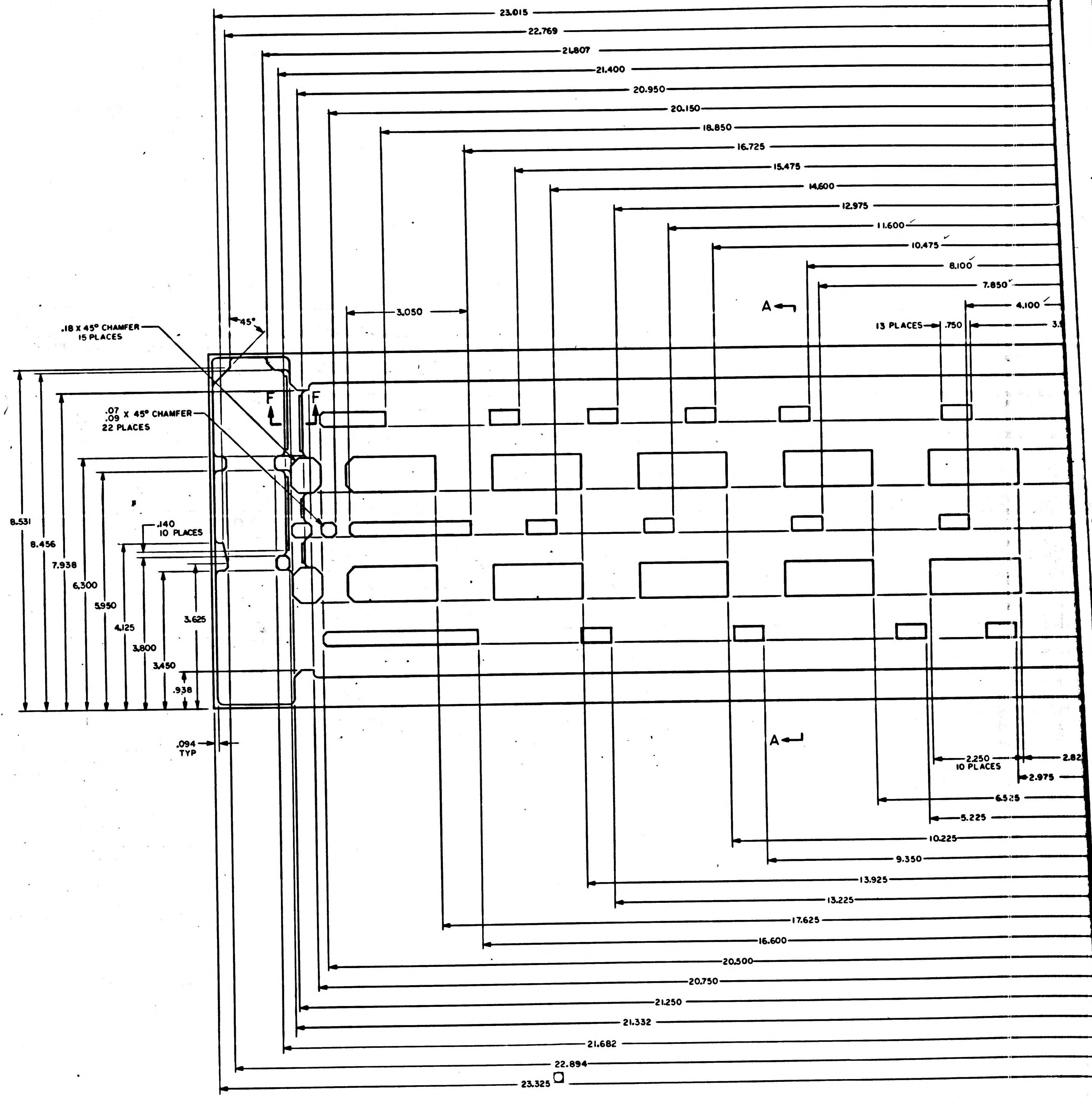
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 1/1
SHEET 1 OF 2

6008000 C

MASTER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22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
13 PLACES
.750
3.050
A
45°
.18 X 45° CHAMFER
15 PLACES
.07
.09 X 45° CHAMFER
22 PLACES
F
F
8.531
8.456
7.938
6.300
5.950
.140
10 PLACES
4.125
3.800
3.625
3.450
.938
.094
TYP
A
2.250
10 PLACES
2.82
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
16.600
20.500
20.750
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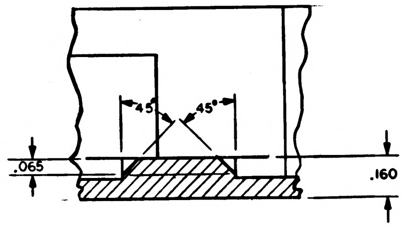
21.332
21.682
22.894
23.325


45°
45°
.065
.160

SECTION F-F

SCALE 4/1

NOTES:

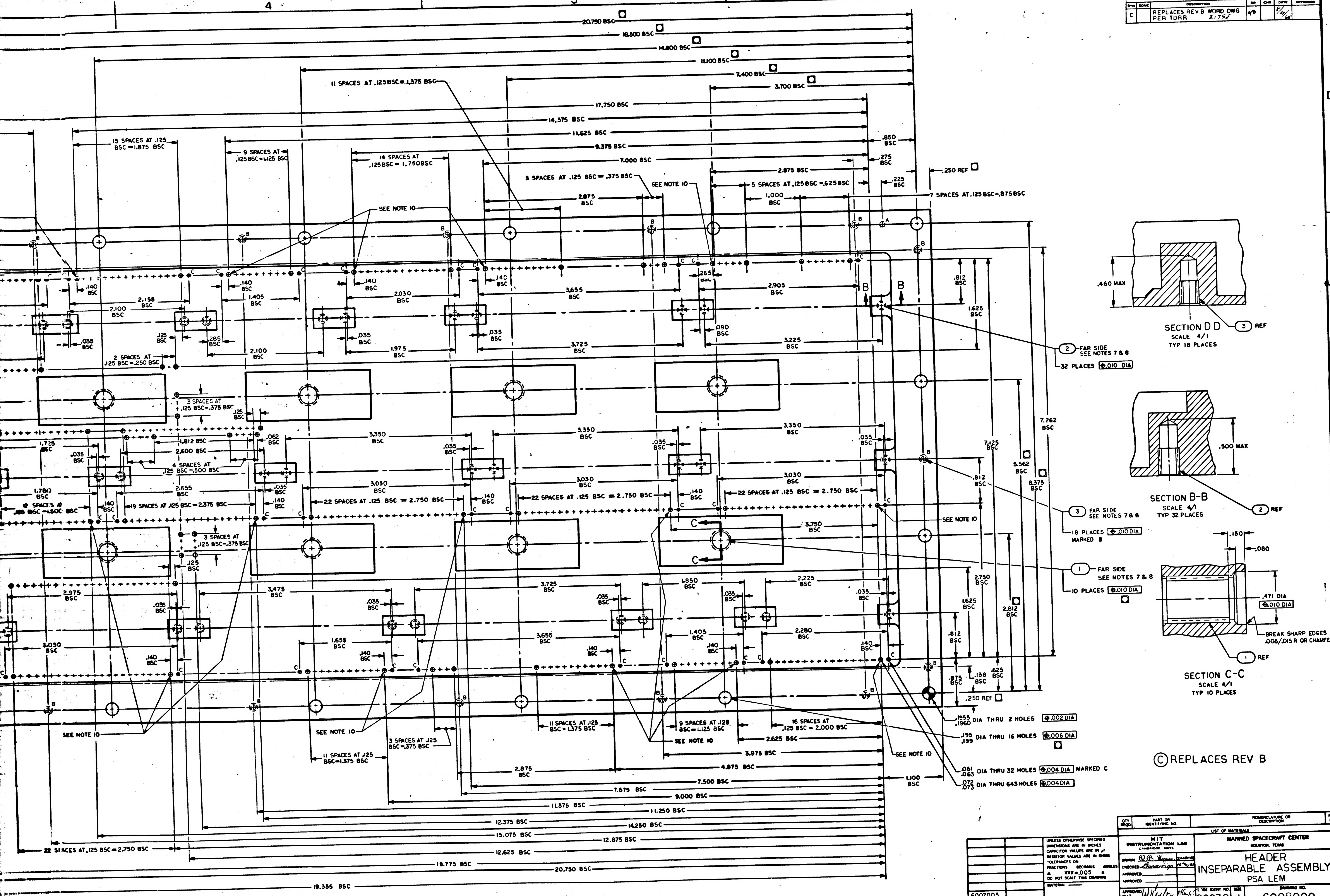
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM HK31A-H24 PER MIL-M-26075, TEMP H24
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. ▢ INSTALL FIND NO. 1, 2 & 3 PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, IRIDITE HOLES PER ND1002040
11. ▢ THIS DIMENSION IS CONTROLLED BY ICD LID-340-10000

MASTER

6007003	
NEXT ASSY	USED ON
APPLICATION	

6008000 SHT 1

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	QB		8/24/65	



4
3
2
1
D
C
B
A
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
.850 BSC
.275 BSC
.225 BSC
.250 REF
7 SPACES AT .125 BSC = .875 BSC
2.875 BSC
.140 BSC
1.405 BSC
2.155 BSC
2.100 BSC
.035 BSC
.125 BSC
.285 BSC
2 SPACES AT .125 BSC = .250 BSC
2.030 BSC
1.975 BSC
3.655 BSC
3.725 BSC
.265 BSC
2.905 BSC
.090 BSC
3.225 BSC
.812 BSC
1.625 BSC
B
B
3 SPACES AT .125 BSC = .375 BSC
1.725 BSC
1.812 BSC
2.600 BSC
.062 BSC
3.350 BSC
4 SPACES AT .125 BSC = .500 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC = 2.375 BSC
3.030 BSC
22 SPACES AT .125 BSC = 2.750 BSC
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
3.750 BSC
C
C
SEE NOTE 10
2.975 BSC
3.475 BSC
1.850 BSC
2.225 BSC
2.750 BSC
1.625 BSC
2.812 BSC
1.405 BSC
2.280 BSC
1.655 BSC
.812 BSC
.138 BSC
.625 BSC
.875 BSC
.250 REF
2 FAR SIDE SEE NOTES 7 & 8
32 PLACES ⌖.010 DIA
3 FAR SIDE SEE NOTES 7 & 8
18 PLACES ⌖.010 DIA MARKED B
1 FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
.1955 .1960 DIA THRU 2 HOLES ⌖.002 DIA
.195 .199 DIA THRU 16 HOLES ⌖.006 DIA
.061 .063 DIA THRU 32 HOLES ⌖.004 DIA MARKED C
.072 .073 DIA THRU 643 HOLES ⌖.004 DIA
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
3 SPACES AT .125 BSC = .375 BSC
11 SPACES AT .125 BSC = 1.375 BSC
2.875 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.875 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC
22 SPACES AT .125 BSC = 2.750 BSC
.460 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
3 REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
2 REF
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
SECTION C-C
SCALE 4/1
TYP 10 PLACES
1 REF

Ⓒ REPLACES REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R.B. Hoguen 24 MAY 65
CHECKED Bonarrigo 15 Jul 65
APPROVED
APPROVED
APPROVED MIT W Taylor
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

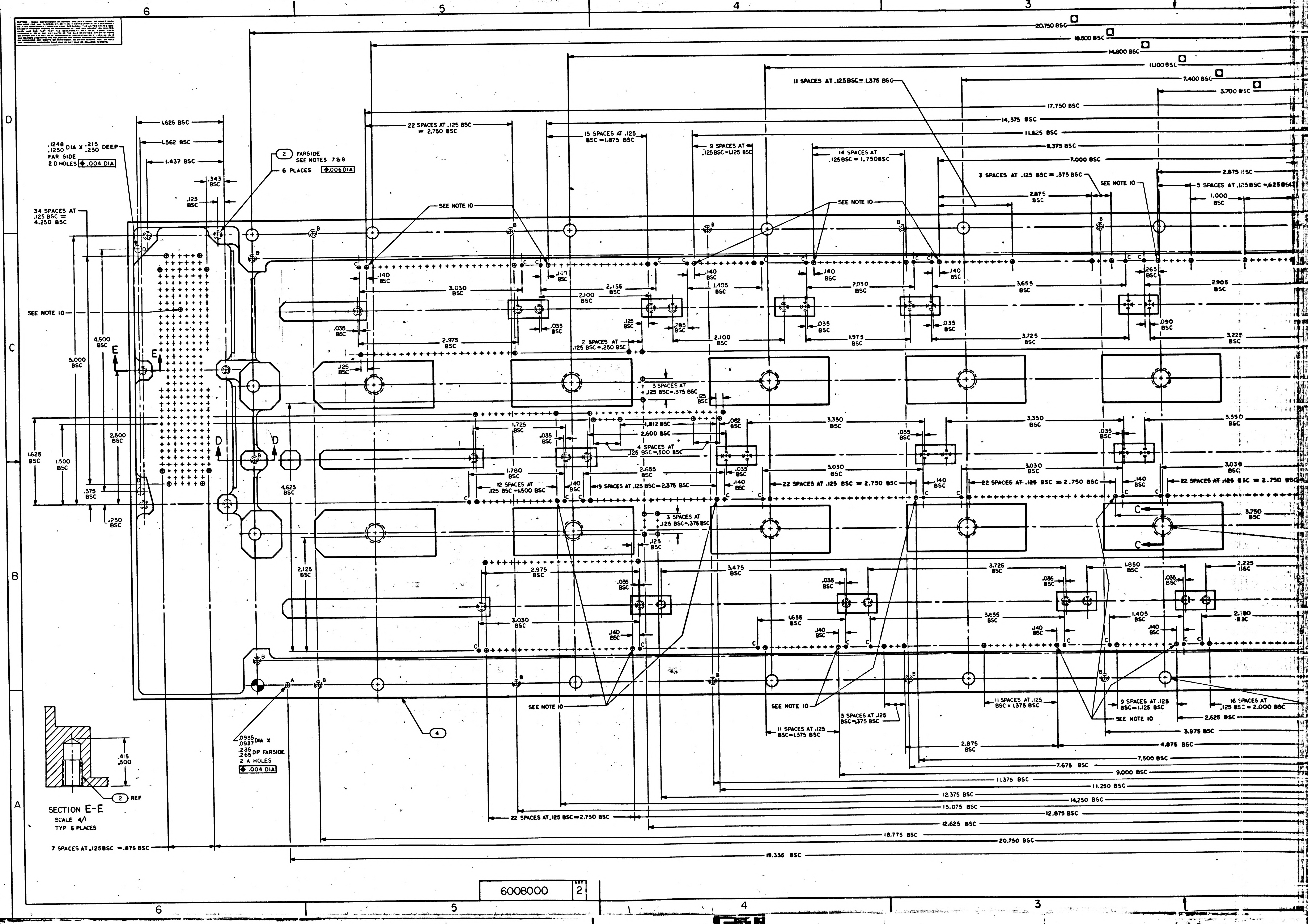
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 2/1
SHEET 2 OF 2

6008000 C

6008000 SHT 2

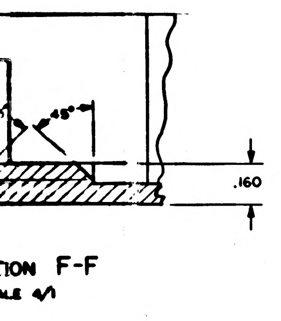
6008000

F-2

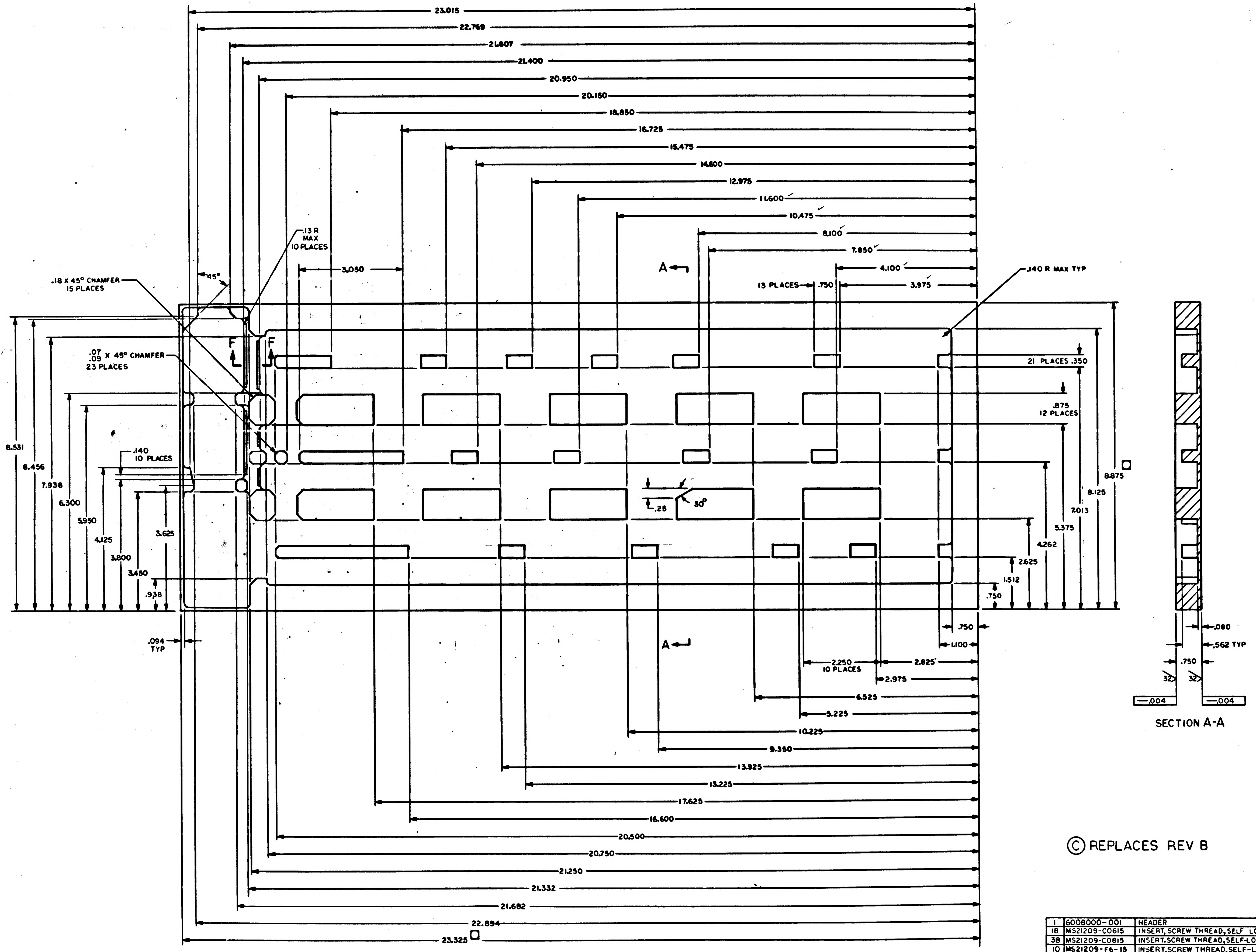

6
5
4
3
D
C
B
A
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125BSC=1.375 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
5 SPACES AT .125 BSC =.625 BSC
1.000 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.343 BSC
.125 BSC
.1248 .1250 DIA X .215 .230 DEEP
FAR SIDE
2 D HOLES
.004 DIA
34 SPACES AT .125 BSC = 4.250 BSC
② FARSIDE SEE NOTES 7 & 8
6 PLACES
.006 DIA
22 SPACES AT .125 BSC = 2.750 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC=1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
SEE NOTE 10
.140 BSC
3.030 BSC
2.155 BSC
2.100 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
SEE NOTE 10
.035 BSC
.285 BSC
.125 BSC
2.975 BSC
2 SPACES AT .125 BSC=.250 BSC
2.100 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
4.500 BSC
5.000 BSC
E
.125 BSC
3 SPACES AT .125 BSC=.375 BSC
.125 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC=.500 BSC
.062 BSC
3.350 BSC
3.350 BSC
3.350 BSC
2.500 BSC
1.625 BSC
1.500 BSC
D
1.780 BSC
12 SPACES AT .125 BSC=1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC=2.375 BSC
3.030 BSC
3.030 BSC
3.030 BSC
22 SPACES AT .125 BSC = 2.750 BSC
.375 BSC
.250 BSC
4.625 BSC
C
3.750 BSC
3 SPACES AT .125 BSC=.375 BSC
2.125 BSC
2.975 BSC
3.475 BSC
3.725 BSC
1.850 BSC
2.225 BSC
1.655 BSC
3.655 BSC
1.405 BSC
2.190 BSC
A
B
SEE NOTE 10
11 SPACES AT .125 BSC=1.375 BSC
3 SPACES AT .125 BSC=.375 BSC
11 SPACES AT .125 BSC=1.375 BSC
9 SPACES AT .125 BSC=1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
2.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.875 BSC
22 SPACES AT .125 BSC=2.750 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125BSC =.875 BSC
④
.0935 .0937 DIA X
.235 .265 DP FARSIDE
2 A HOLES
.004 DIA
.415 .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES

6008000 SHT 2

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758			1/29/65	UK
D		REVISED PER TDRR 22807				UK



TION F-F
LE 4/1



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22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
3.050
.13 R MAX 10 PLACES
.18 X 45° CHAMFER 15 PLACES
45°
.07 .09 X 45° CHAMFER 23 PLACES
.140 10 PLACES
.140 R MAX TYP
13 PLACES .750
21 PLACES .350
.875 12 PLACES
A
F
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
.938
3.625
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
16.600
20.500
20.750
21.250
21.332
21.682
22.894
23.325
.080
.562 TYP
.750
32
.004
.004
SECTION A-A

Ⓒ REPLACES REV B

STANDARDS PRESCRIBED

-M-26075, TEMP H24
S AND RADII TO BE .010 MAX
40 UNLESS OTHERWISE

SPECIFIED
E I, CLASS C, UNLESS OTHERWISE SPECIFIED
H MIL-P-8585, COLOR Y
, REMOVE DRIVING TANG.
ES MATING WITH SCREW SHALL
TS. AFTER POST INSTALLATION
SCREW SHALL BE ENGAGED AND
INSERT AS FINAL STEP IN

AFTER ANODIZING, IRIDITE

B LIO-340-10C00

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008000-001	HEADER	4
18	MS21209-C0615	INSERT, SCREW THREAD, SELF LOCKING	3
38	MS21209-C0815	INSERT, SCREW THREAD, SELF-LOCKING	2
10	MS21209-F6-15	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.B. [illegible]
CHECKED [illegible]
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

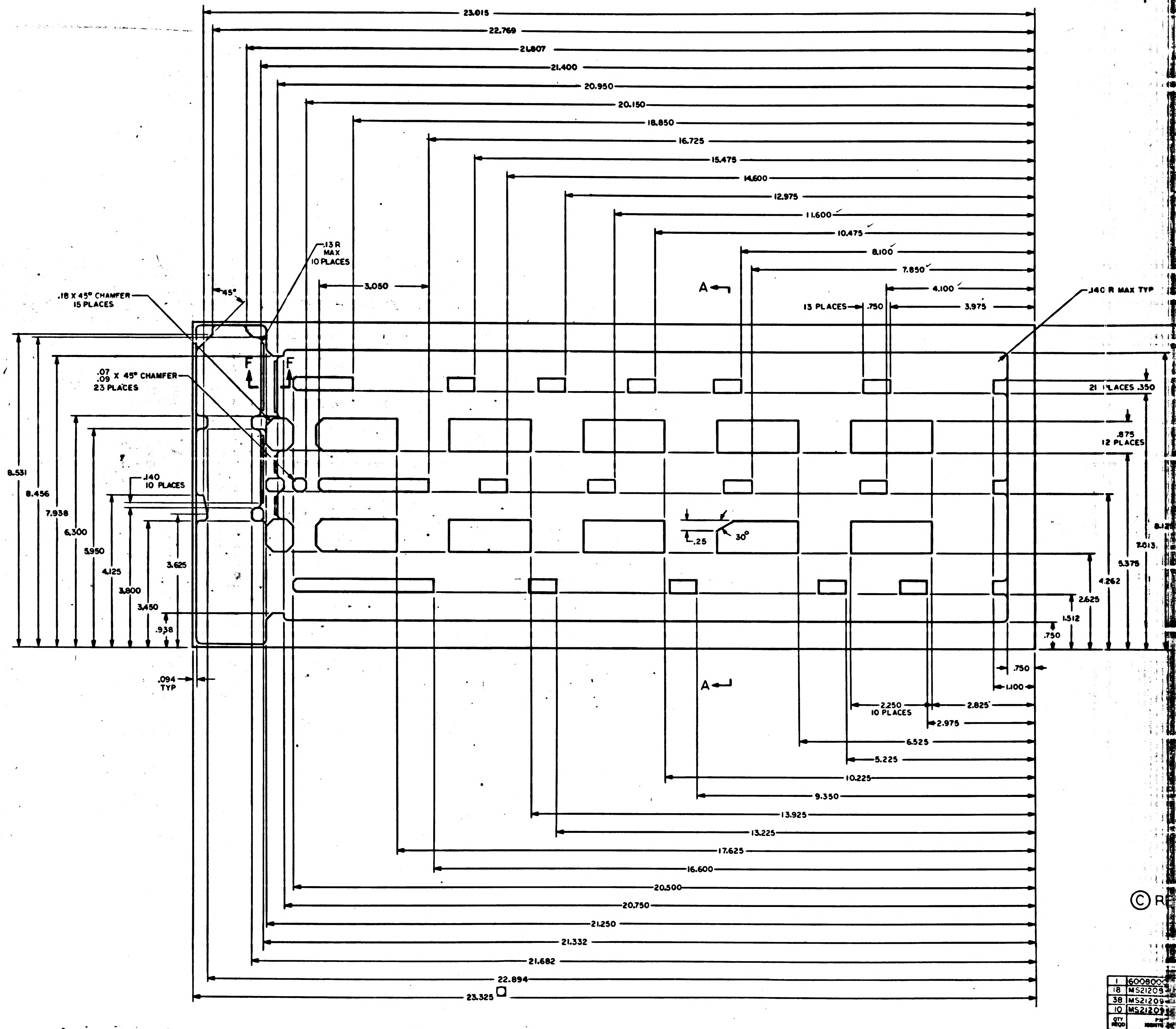
HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 1/1
SHEET 1 OF 2

6008000 D

MASTER

6008000 SHT 1



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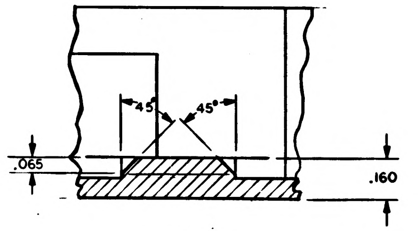
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
13 PLACES
.750
3.050
A
.13 R MAX 10 PLACES
.18 X 45° CHAMFER 15 PLACES
45°
.07 .09 X 45° CHAMFER 23 PLACES
F
F
.140 R MAX TYP
21 PLACES .350
.875 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
A
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
16.600
20.500
20.750
21.250
21.332
21.682
22.894
23.325



45°
45°
.065
.160

SECTION F-F
SCALE 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM HK31A-H24 PER MIL-M-26075, TEMP H24
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
▢8. INSTALL FIND 1,2&3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, IRIDITE HOLES PER ND1002040
11. ▢ THIS DIMENSION IS CONTROLLED BY ICD LID-340-10000

1	6008000
18	MS21209
38	MS21209
10	MS21209
QTY REQD	

6007003	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

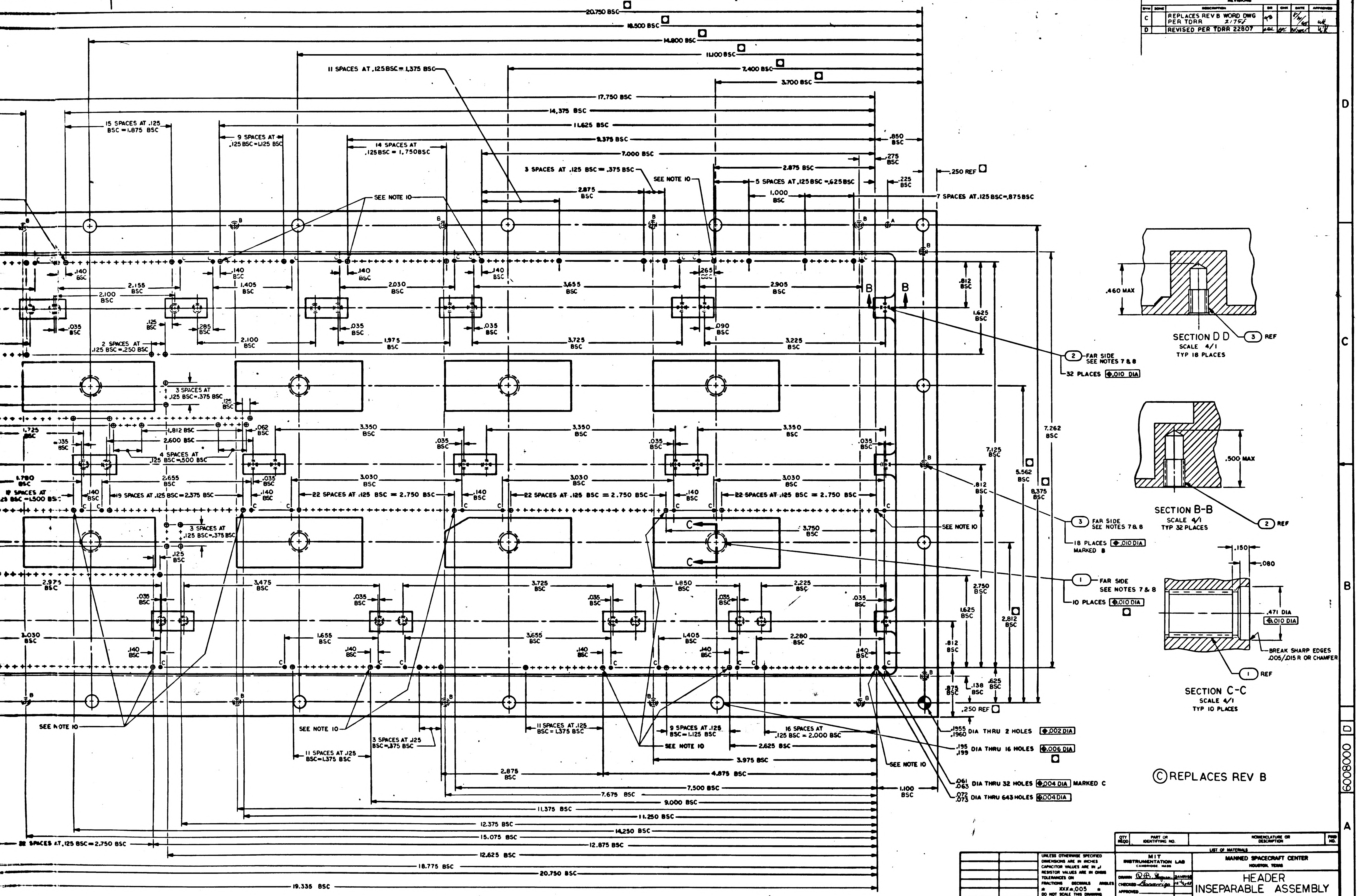
INSTRUMENT
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NSC

MASTER

© R

6008000 SHT 1

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	QB		8/24/65	wk
D		REVISED PER TDRR 22807				


20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
2.875 BSC
.850 BSC
.275 BSC
.225 BSC
.250 REF
7 SPACES AT .125 BSC = .875 BSC
.140 BSC
2.155 BSC
2.100 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
B
.812 BSC
1.625 BSC
.125 BSC
.035 BSC
.285 BSC
.090 BSC
2 SPACES AT .125 BSC = .250 BSC
2.100 BSC
1.975 BSC
3.725 BSC
3.225 BSC
3 SPACES AT .125 BSC = .375 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
.062 BSC
3.350 BSC
2.655 BSC
3.030 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
.812 BSC
3.750 BSC
C
2.975 BSC
3.475 BSC
3.725 BSC
1.850 BSC
2.225 BSC
2.750 BSC
1.625 BSC
2.812 BSC
3.030 BSC
1.655 BSC
3.655 BSC
1.405 BSC
2.280 BSC
.812 BSC
.875 BSC
.138 BSC
.625 BSC
.250 REF
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
2.875 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.875 BSC
22 SPACES AT .125 BSC = 2.750 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC
② FAR SIDE SEE NOTES 7 & 8
32 PLACES ⌖.010 DIA
③ FAR SIDE SEE NOTES 7 & 8
18 PLACES ⌖.010 DIA MARKED B
① FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
.1955 .1960 DIA THRU 2 HOLES ⌖.002 DIA
.195 .199 DIA THRU 16 HOLES ⌖.006 DIA
.061 .063 DIA THRU 32 HOLES ⌖.004 DIA MARKED C
.072 .073 DIA THRU 643 HOLES ⌖.004 DIA
.460 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
③ REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
② REF
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
① REF
SECTION C-C
SCALE 4/1
TYP 10 PLACES
Ⓒ REPLACES REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007006	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	R.B. Shagnon	24 MAY 65
CHECKED	Bonarrigo	6 Aug 65
APPROVED		
APPROVED		
APPROVED MIT	W. Taylor	
APPROVED MSC		

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008000
SCALE 2/1		SHEET 2 OF 2

6008000 D

6008000

6008000 SHT 2

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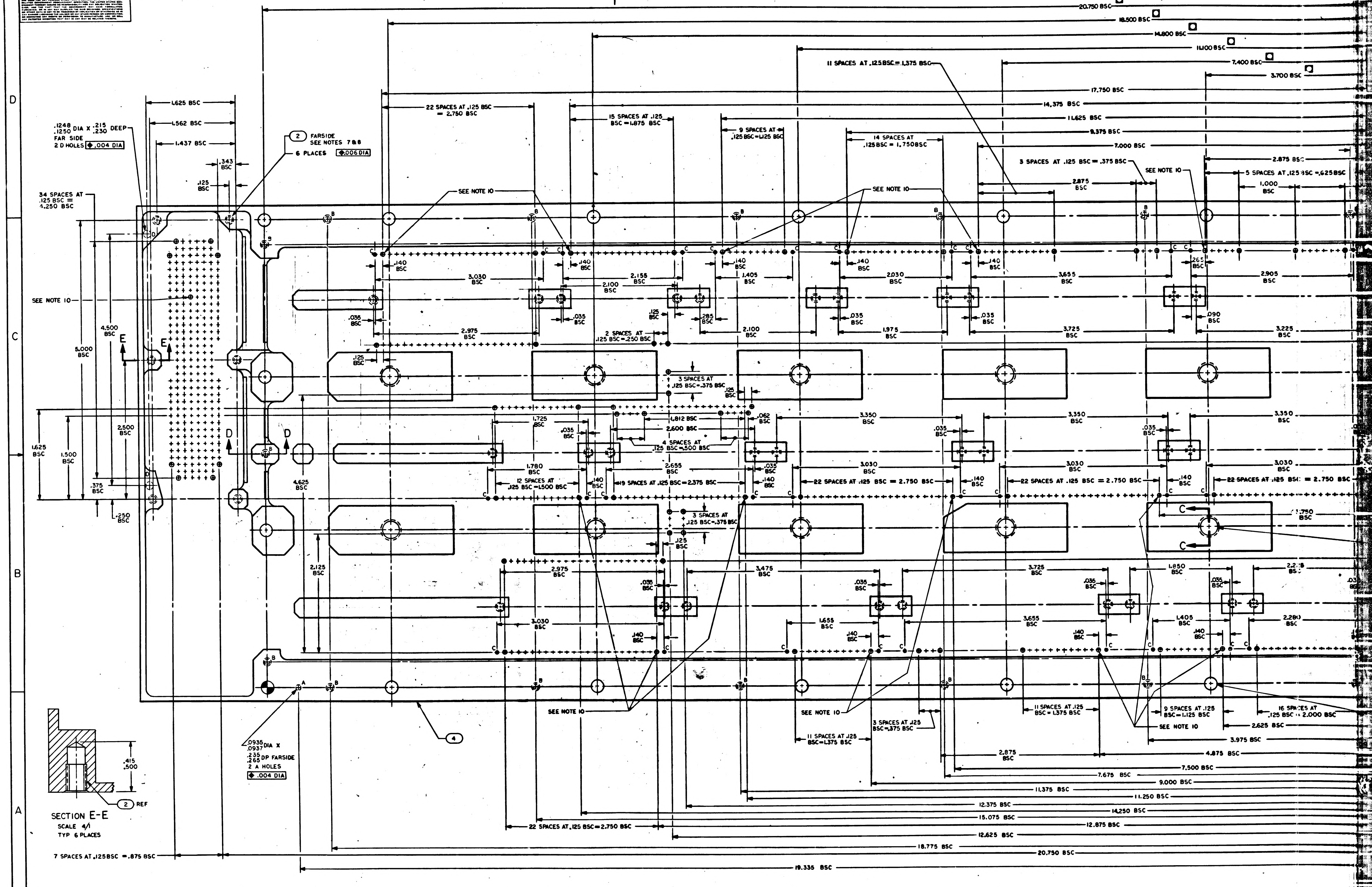
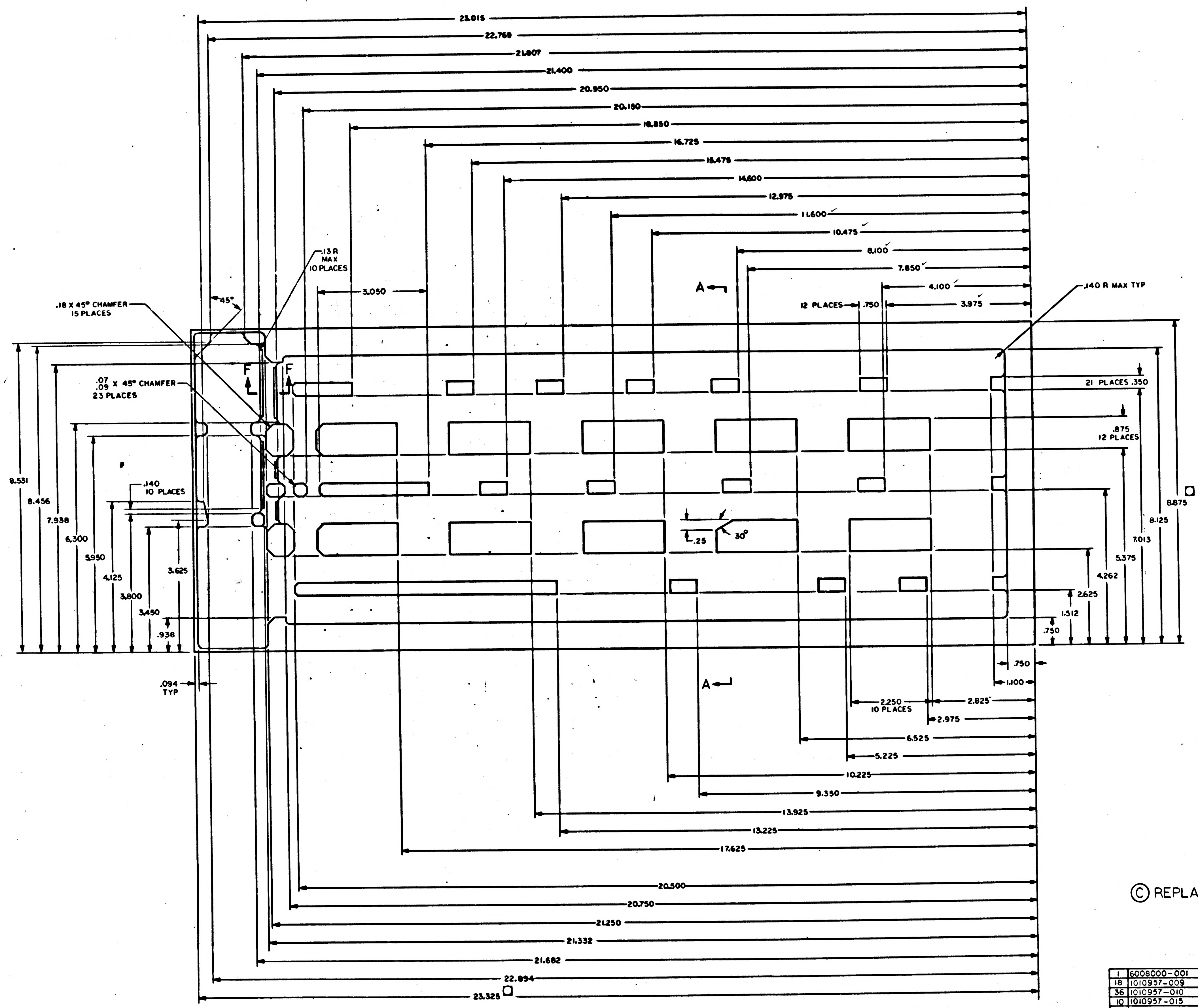


20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.1248 .1250 DIA X .215 .230 DEEP
FAR SIDE
2 D HOLES ⌖ .004 DIA
2 FARSIDE
SEE NOTES 7 & 8
6 PLACES ⌖ .006 DIA
.343 BSC
.125 BSC
22 SPACES AT .125 BSC = 2.750 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
34 SPACES AT .125 BSC = 4.250 BSC
SEE NOTE 10
.140 BSC
3.030 BSC
2.155 BSC
2.100 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.035 BSC
.125 BSC
.285 BSC
.090 BSC
2.975 BSC
2 SPACES AT .125 BSC = .250 BSC
2.100 BSC
1.975 BSC
3.725 BSC
3.225 BSC
4.500 BSC
5.000 BSC
E
E
3 SPACES AT .125 BSC = .375 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
.062 BSC
3.350 BSC
2.500 BSC
1.625 BSC
1.500 BSC
D
D
2.655 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
.375 BSC
.250 BSC
4.625 BSC
C
C
1.750 BSC
2.125 BSC
3.475 BSC
1.850 BSC
2.218 BSC
1.655 BSC
2.280 BSC
B
A
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.875 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125 BSC = .875 BSC
22 SPACES AT .125 BSC = 2.750 BSC
4
.0935 .0937 DIA X .235 .265 DP FARSIDE
2 A HOLES
⌖ .004 DIA
.415 .500
2 REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6
5
4
3
D
C
B
A

6008000 SHT 2

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758			8/24/65	WK
D		REVISED PER TDRR 22807				WK
E		REVISED PER TDRR 23528				WK



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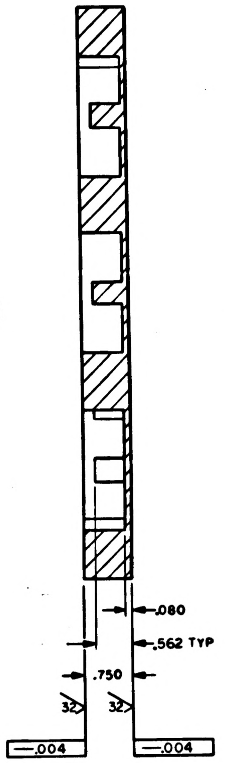
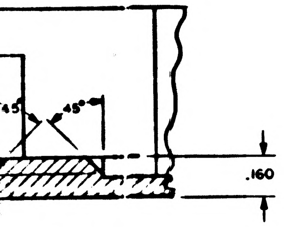
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
.13 R MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
F
F
A
A
.140 R MAX TYP
21 PLACES .350
.875 12 PLACES
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
.938
3.625
.140 10 PLACES
.25
30°
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325



.080
.562 TYP
.750
32
32
.004
.004

SECTION A-A



CTION F-F
CALE 4/1

TH STANDARDS PRESCRIBED

TL-M-26075, TEMP H24
ETS AND RADII TO BE .010 MAX
.040 UNLESS OTHERWISE

SPECIFIED
TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
WITH MIL-P-8585, COLOR Y
S. REMOVE DR WING TANG.
FACES MATING WITH SCREW SHALL
ANTS. AFTER POST INSTALLATION
NO SCREW SHALL BE ENGAGED AND
L INSERT AS FINAL STEP IN

. AFTER ANODIZING, IRIDITE

ICD LIS-340-10000

ⓒ REPLACES REV B

1	6008000-001	HEADER	4
18	1010957-009	INSERT, SCREW THREAD, SELF LOCKING	3
36	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007003	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R B Hyman
CHECKED
APPROVED
APPROVED
APPROVED MIT W Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

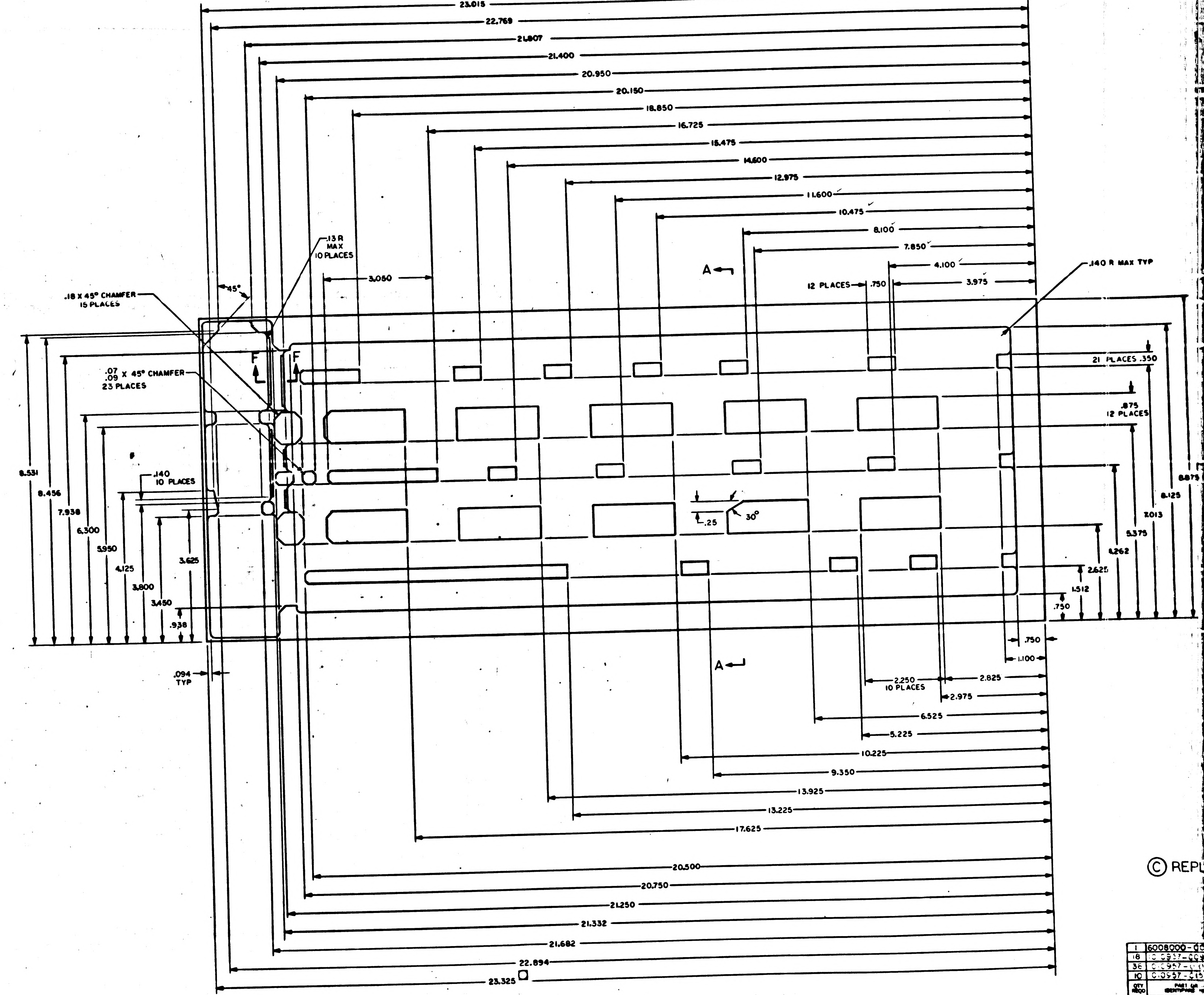
HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 1/1
SHEET 1 OF 2

6008000 E

MASTER

6008000 E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21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
.13 R MAX 10 PLACES
3.050
45°
.18 X 45° CHAMFER 15 PLACES
A
12 PLACES .750
.140 R MAX TYP
F
F
.07 .09 X 45° CHAMFER 23 PLACES
21 PLACES .350
.875 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.750
1.100
.094 TYP
A
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
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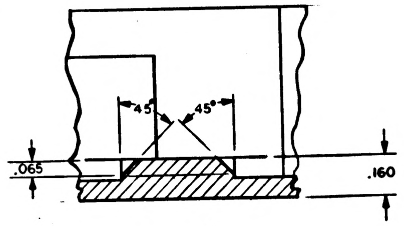
21.332
21.682
22.894
23.325


45°
45°
.065
.160

SECTION F-F
SCALE 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM HK31A-H24 PER MIL-M-26075, TEMP H24
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND 1, 2 & 3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, IRIDITE HOLES PER ND1002040
11. ☐ THIS DIMENSION IS CONTROLLED BY ICD LID-340-10000

1	6008000-0
18	10 0957-00
36	0.0957-0
10	0.0957-01
QTY REQD	PART OR IDENTIFYING

6007003	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MASTER

6008000 E

© REPL

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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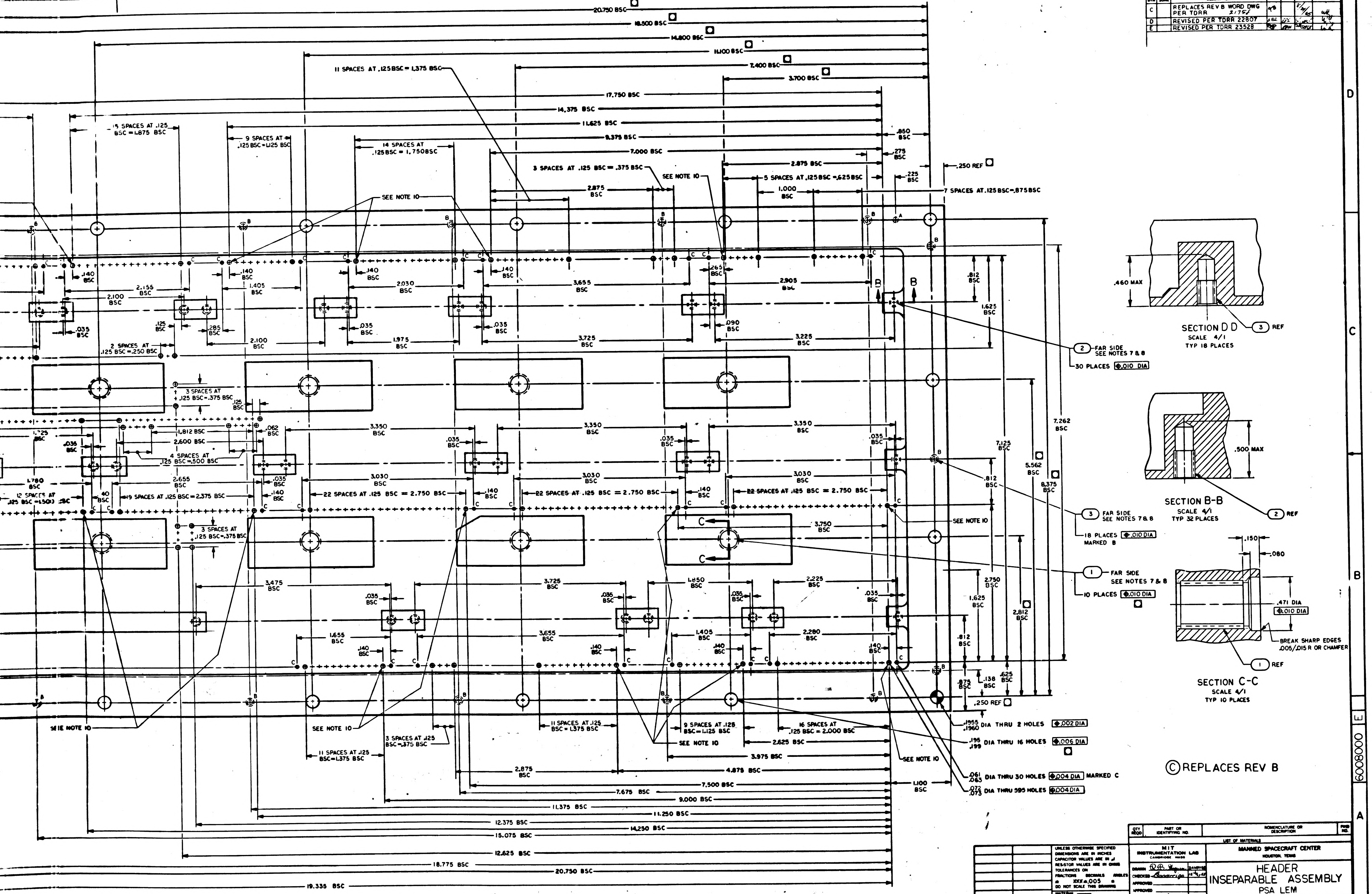
D		REVISED PER TDRR 22807				
E		REVISED PER TDRR 23528				



20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
11 SPACES AT .125 BSC = 1.375 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
5 SPACES AT .125 BSC = .625 BSC
7 SPACES AT .125 BSC = .875 BSC
22 SPACES AT .125 BSC = 2.750 BSC
19 SPACES AT .125 BSC = 2.375 BSC
16 SPACES AT .125 BSC = 2.000 BSC
SEE NOTE 10
.250 REF
B
C
SECTION D D
SCALE 4/1
TYP 18 PLACES
.460 MAX
③ REF
② FAR SIDE SEE NOTES 7 & 8
30 PLACES ⌖.010 DIA
SECTION B-B
SCALE 4/1
TYP 32 PLACES
.500 MAX
② REF
③ FAR SIDE SEE NOTES 7 & 8
18 PLACES ⌖.010 DIA MARKED B
① FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
SECTION C-C
SCALE 4/1
TYP 10 PLACES
① REF
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
.1955/.1960 DIA THRU 2 HOLES ⌖.002 DIA
.195/.199 DIA THRU 16 HOLES ⌖.006 DIA
.061/.063 DIA THRU 30 HOLES ⌖.004 DIA MARKED C
.072/.073 DIA THRU 595 HOLES ⌖.004 DIA
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC

Ⓒ REPLACES REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007006	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

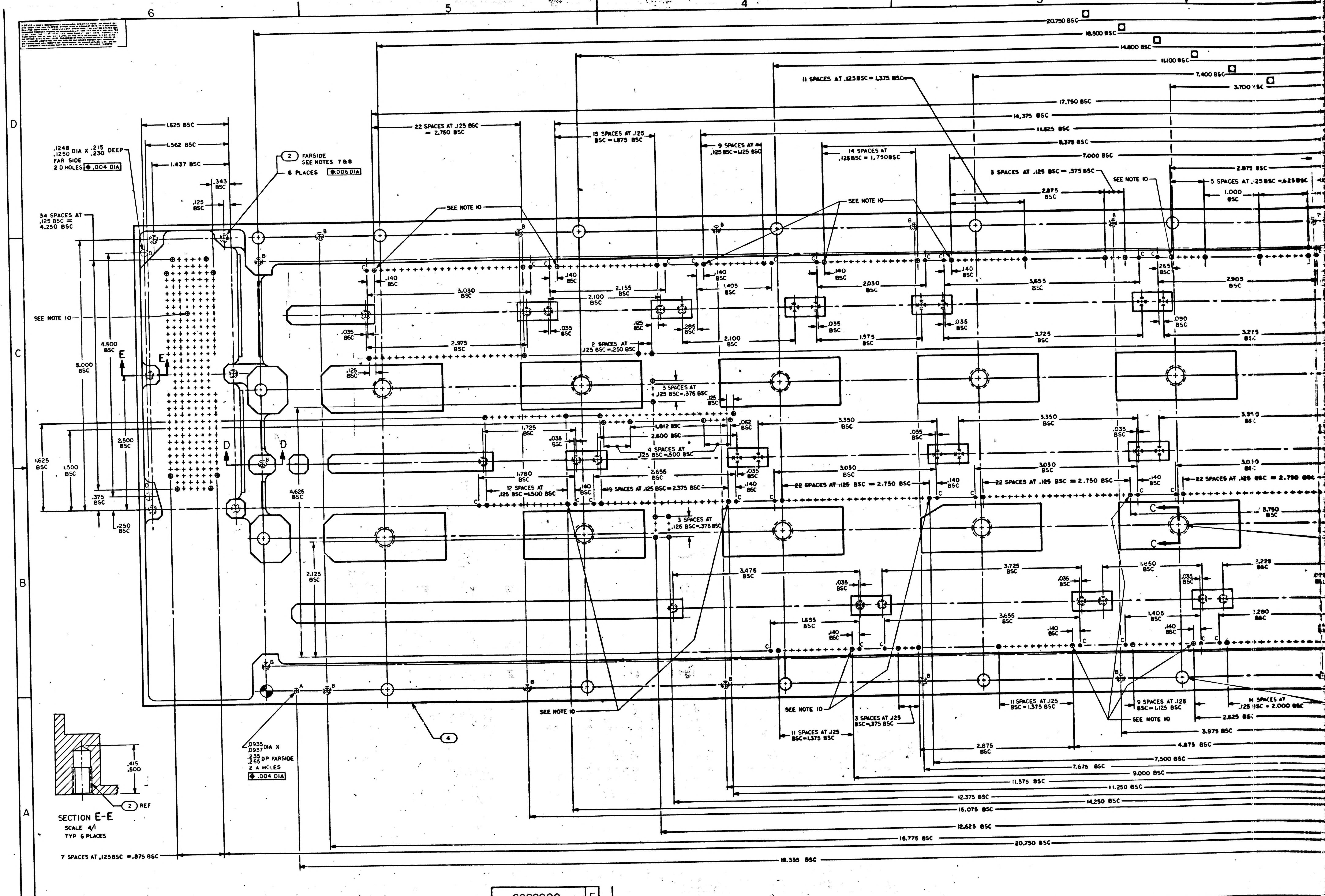
DRAWN R.B. [illegible] 24 MAY 65
CHECKED Bonarrigo 16 Jul 65
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 2/1
SHEET 2 OF 2

6008000 E



20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125BSC = 1.375 BSC
17.750 BSC
14.375 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.343 BSC
.125 BSC
.1248 .1250 DIA X .215 .230 DEEP
FAR SIDE
2 D HOLES ◈ .004 DIA
② FARSIDE
SEE NOTES 7 & 8
6 PLACES ◈ .006 DIA
22 SPACES AT .125 BSC = 2.750 BSC
15 SPACES AT .125 BSC = 1.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
34 SPACES AT .125 BSC = 4.250 BSC
SEE NOTE 10
.140 BSC
3.030 BSC
2.100 BSC
2.155 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
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.125 BSC
.285 BSC
2.975 BSC
2 SPACES AT .125 BSC = .250 BSC
2.100 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.215 BSC
4.500 BSC
5.000 BSC
E
E
3 SPACES AT .125 BSC = .375 BSC
.125 BSC
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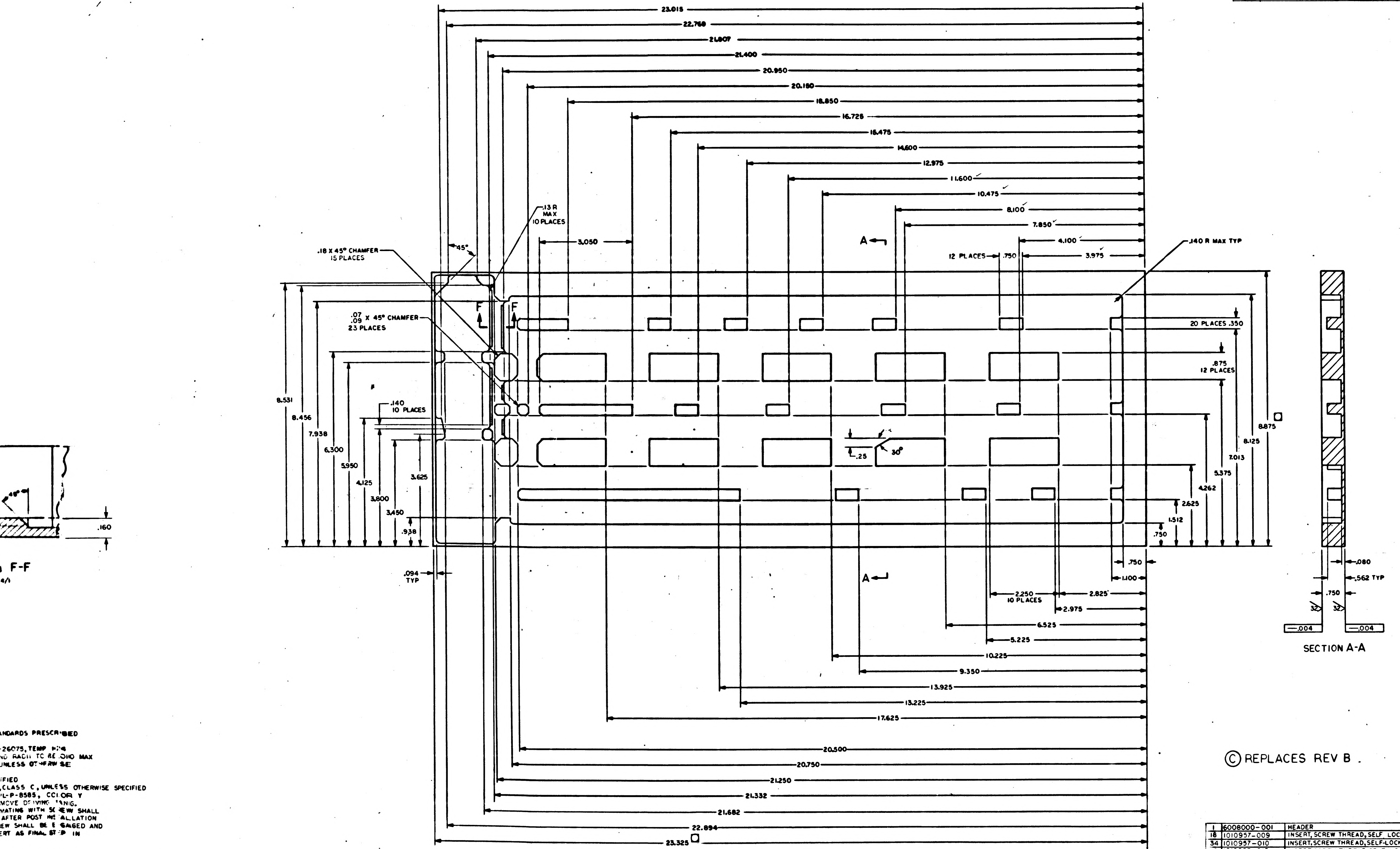
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
3.350 BSC
3.350 BSC
3.310 BSC
2.500 BSC
1.625 BSC
1.500 BSC
D
D
4.625 BSC
1.780 BSC
2.655 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.010 BSC
.375 BSC
.250 BSC
3.750 BSC
C
C
2.125 BSC
3.475 BSC
3.725 BSC
1.850 BSC
2.229 BSC
1.655 BSC
3.655 BSC
1.405 BSC
2.280 BSC
A
B
C
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
2.875 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125 BSC = .875 BSC
④
.0935 .0937 DIA X .235 .265 DP FARSIDE
2 A HOLES
◈ .004 DIA
.415 .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6
5
4
3
D
C
B
A

6008000 E

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
REVISIONS						
C		REPLACES REV B WORD DWG PER TDRR 21758			8/24/65	WK
D		REVISED PER TDRR 22807				WK
E		REVISED PER TDRR 23528				WK
F		REVISED PER TDRR 23694			15 Dec 65	WK



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21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES .750
3.050
.13 R MAX 10 PLACES
.18 X 45° CHAMFER 15 PLACES
45°
.07 .09 X 45° CHAMFER 23 PLACES
F
F
A
.140 R MAX TYP
20 PLACES .350
.875 12 PLACES
.140 10 PLACES
.25
30°
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
.160
45°
F-F
.080
.562 TYP
.750
32
32
.004
.004
SECTION A-A

Ⓒ REPLACES REV B.

ANDARDS PRESCRIBED

-26075, TEMP
ND RADII TO BE .010 MAX
UNLESS OTHERWISE

IFIED
, CLASS C, UNLESS OTHERWISE SPECIFIED
IL-P-8585, COLOR Y
MOVE DRIVING TANG.
MATING WITH SCREW SHALL
AFTER POST INSTALLATION
EW SHALL BE ENGAGED AND
ERT AS FINAL STEP IN

ER ANODIZING. IRIDITE

10-340-10000

1	6008000-001	HEADER	4
18	1010957-009	INSERT, SCREW THREAD, SELF LOCKING	3
34	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R.B. Hopson
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

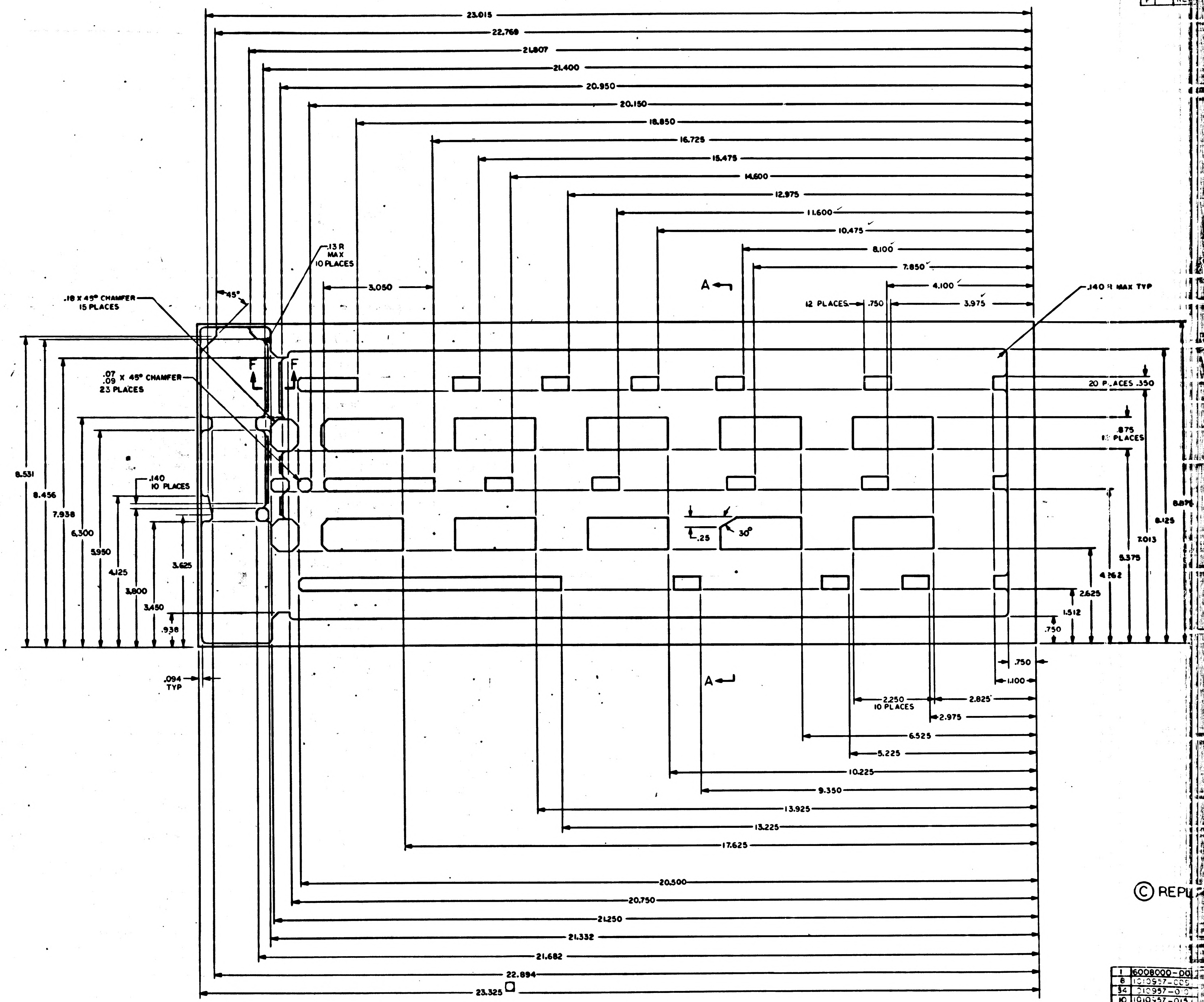
HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 1/1
SHEET 1 OF 2

6008000 F

MASTER

C	RE
D	REV
E	RE
F	REV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22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
A
.13 R MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
F
F
.140 R MAX TYP
20 PLACES .350
.875 12 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
3.625
.938
.140 10 PLACES
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.750
1.100
.094 TYP
A
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
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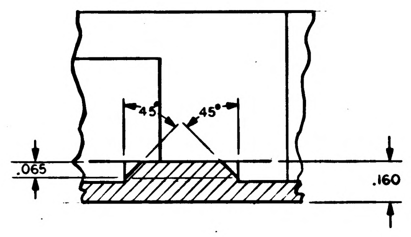
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325


45°
45°
.065
.160

SECTION F-F
SCALE 4/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM HK31A-H24 PER MIL-M-26075, TEMP H24
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND 1, 2 & 3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, IRIDITE HOLES PER ND1002040
11. ▢ THIS DIMENSION IS CONTROLLED BY ICD LID-340-10000

© REPL

1	6008000-00
8	1010957-009
34	1010957-010
10	1010957-015
QTY REQD	PART OR IDENTIFYING NO

MASTER

6007003	
NEXT ASSY	USED ON
APPLICATION	

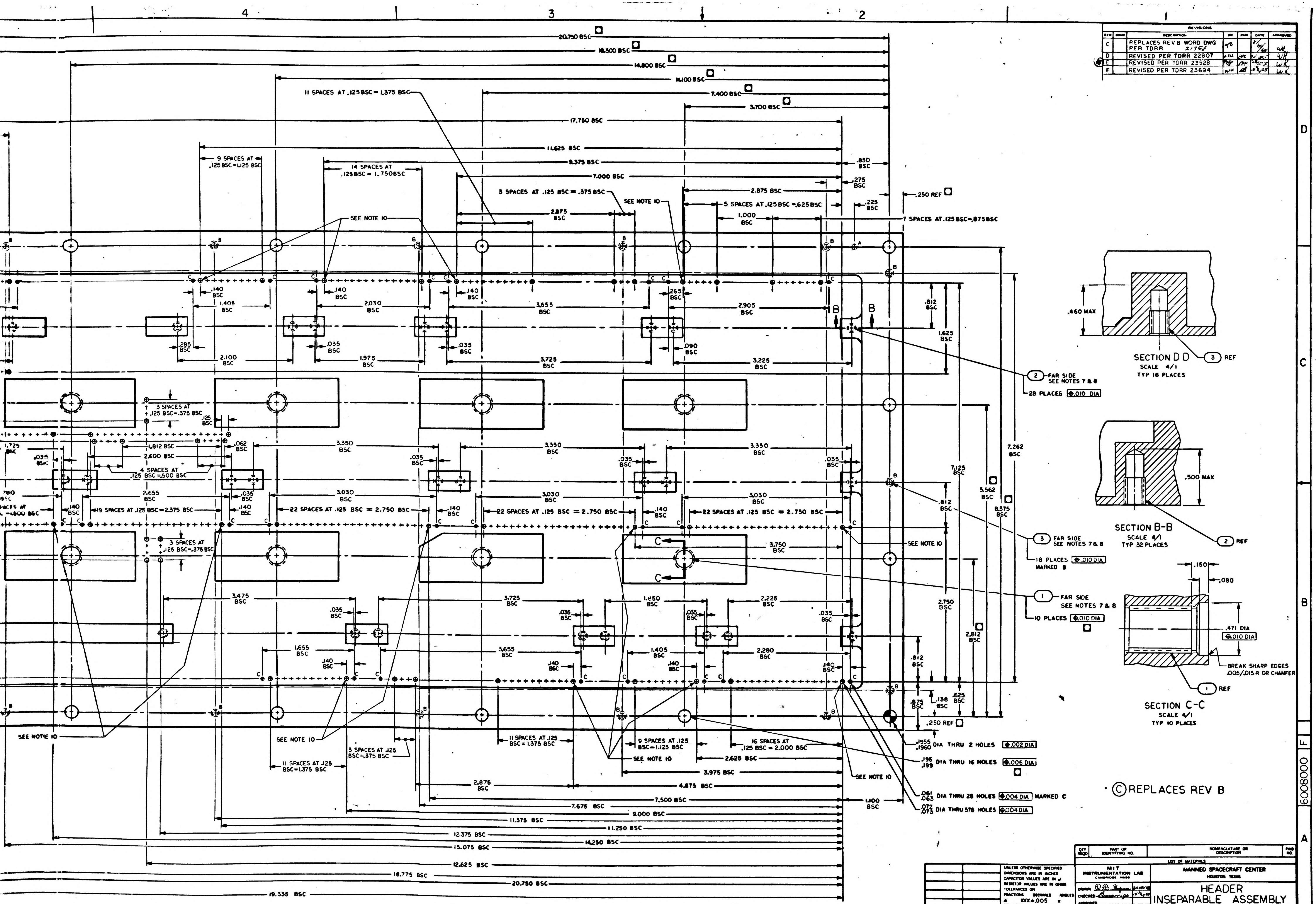
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .02 XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION
CAMBRIDGE, MASS

DRAWN R.S. Hagan
CHECKED
APPROVED
APPROVED
APPROVED MIT W. Buglia
APPROVED NASA

6008000 F


20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
.850 BSC
.275 BSC
.225 BSC
.250 REF
7 SPACES AT .125 BSC = .875 BSC
.140 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.812 BSC
1.625 BSC
B
.285 BSC
2.100 BSC
.035 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
2 FAR SIDE SEE NOTES 7 & 8
28 PLACES ⌖.010 DIA
3 SPACES AT .125 BSC = .375 BSC
.125 BSC
.062 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
3.350 BSC
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
2.655 BSC
3.030 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
3 FAR SIDE SEE NOTES 7 & 8
18 PLACES ⌖.010 DIA MARKED B
C
3.750 BSC
1 FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
3.475 BSC
1.850 BSC
2.225 BSC
2.750 BSC
2.812 BSC
1.655 BSC
2.280 BSC
.875 BSC
.138 BSC
.625 BSC
.250 REF
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
1.100 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
.1955/.1960 DIA THRU 2 HOLES ⌖.002 DIA
.195/.199 DIA THRU 16 HOLES ⌖.006 DIA
.061/.063 DIA THRU 28 HOLES ⌖.004 DIA MARKED C
.072/.073 DIA THRU 576 HOLES ⌖.004 DIA
.460 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
3 REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
2 REF
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
1 REF
SECTION C-C
SCALE 4/1
TYP 10 PLACES
4
3
2
1
D
C
B
A

Ⓒ REPLACES REV B

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	RB		8/24/65	WK
D		REVISED PER TDRR 22807				WK
E		REVISED PER TDRR 23528				WK
F		REVISED PER TDRR 23694	WFH		15 65	WK

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

NEXT ASSY	USED ON
6007006	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R.B. 24 MAY 65
CHECKED Bonarrigo
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

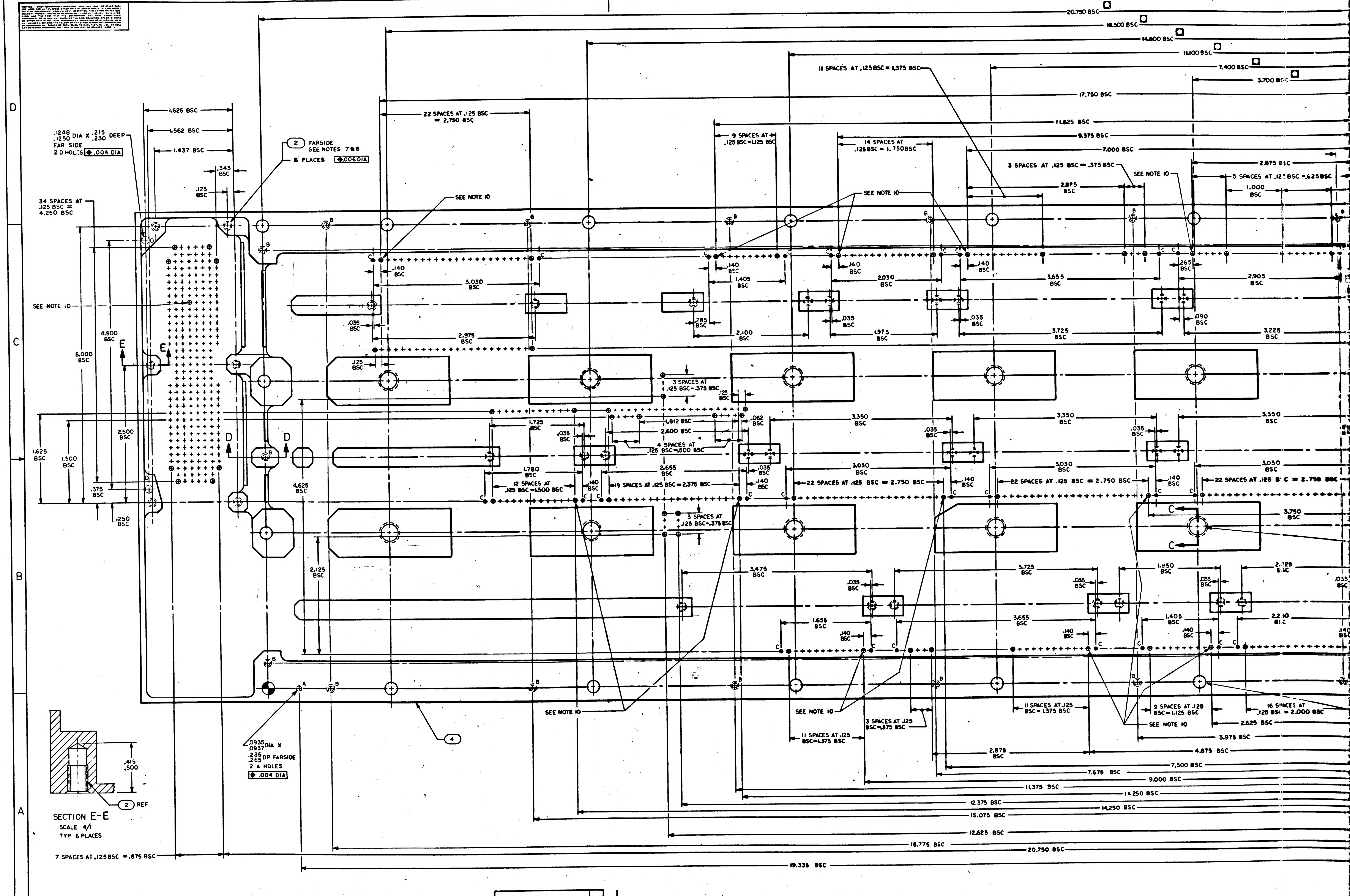
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEPARABLE ASSEMBLY PSA LEM

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6008000
SCALE 2/1 SHEET 2 OF 2

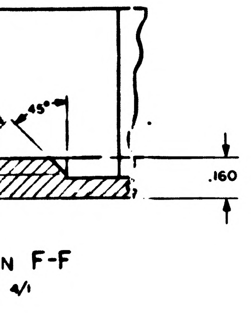
6008000 F

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

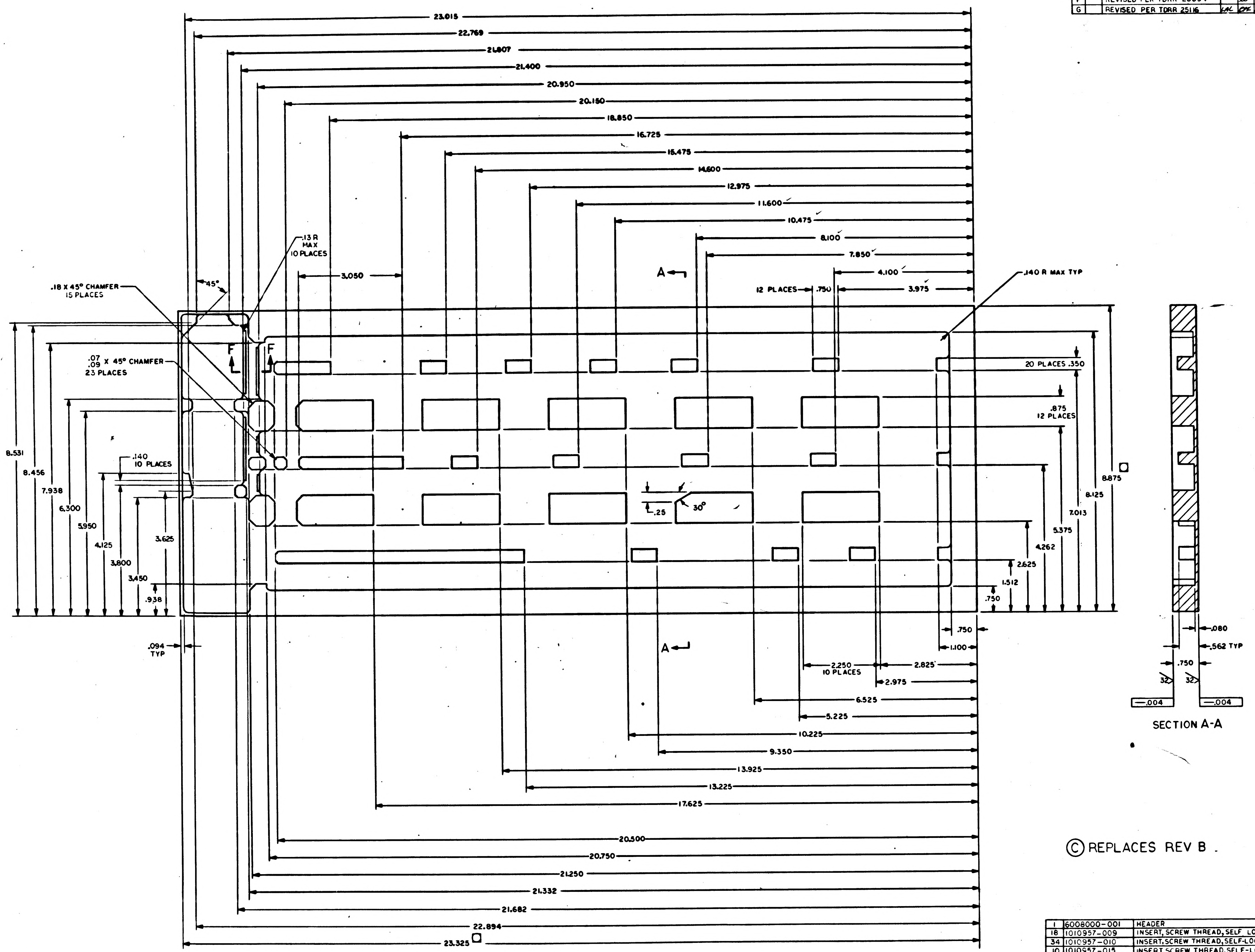

6
5
4
3
D
C
B
A
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
22 SPACES AT .125 BSC = 2.750 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.1248 .1250 DIA X .215 .230 DEEP
FAR SIDE
2 D HOLES ◆ .004 DIA
② FARSIDE
SEE NOTES 7 & 8
6 PLACES ◆.006 DIA
.343 BSC
.125 BSC
34 SPACES AT .125 BSC = 4.250 BSC
SEE NOTE 10
.140 BSC
3.030 BSC
1.405 BSC
2.030 BSC
3.655 BSC
2.905 BSC
.265 BSC
.035 BSC
.285 BSC
2.100 BSC
1.975 BSC
3.725 BSC
3.225 BSC
.090 BSC
2.975 BSC
4.500 BSC
5.000 BSC
E
E
3 SPACES AT .125 BSC = .375 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
.062 BSC
3.350 BSC
1.625 BSC
1.500 BSC
2.500 BSC
D
D
4.625 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
.375 BSC
.250 BSC
3 SPACES AT .125 BSC = .375 BSC
3.750 BSC
C
C
2.125 BSC
3.475 BSC
1.850 BSC
2.225 BSC
1.655 BSC
2.230 BSC
A
B
C
SEE NOTE 10
④
.0935 .0937 DIA X .235 .265 DP FARSIDE
2 A HOLES
◆ .004 DIA
.415 .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
7 SPACES AT .125 BSC = .875 BSC
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
2.875 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC

6008000 F

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	YB		8/24/65	WK
D		REVISED PER TDRR 22807				WK
E		REVISED PER TDRR 23528	EMP			WK
F		REVISED PER TDRR 23694	WFN		15 Nov 65	WK
G		REVISED PER TDRR 25116	LAL		12 Jan 66	WK



45°
.160
N F-F
4/1



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22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
3.050
12 PLACES .750
.13 R MAX 10 PLACES
.18 X 45° CHAMFER 15 PLACES
45°
.07 .09 X 45° CHAMFER 23 PLACES
.140 10 PLACES
.140 R MAX TYP
A
F
F
20 PLACES .350
.875 12 PLACES
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
.080
.562 TYP
.750
32
32
.004
.004
SECTION A-A

TANDARDS PRESCRIBED BY MIL-D-70327
H24 PER MIL-N-26075 AND
ENTS OF THE ALUMINUM
E, EXTRUSIONS AND FORGINGS.
AND RADII TO BE .010 MAX
UNLESS OTHERWISE

CIFIED
I, CLASS C, UNLESS OTHERWISE SPECIFIED
MIL-P-8585, COLOR Y
EMOVE DRIVING TANG.
S MATING WITH SCREW SHALL
. AFTER POST INSTALLATION
CREW SHALL BE ENGAGED AND
SERT AS FINAL STEP IN

TER ANODIZING, IRIDITE

LID-340-10000

Ⓒ REPLACES REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008000-001	HEADER	4
18	1010957-009	INSERT, SCREW THREAD, SELF LOCKING	3
34	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .02 XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.B. [illegible] 24 MAY 65
CHECKED [illegible] 16 Jul 65
APPROVED
APPROVED
APPROVED MIT [illegible]
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

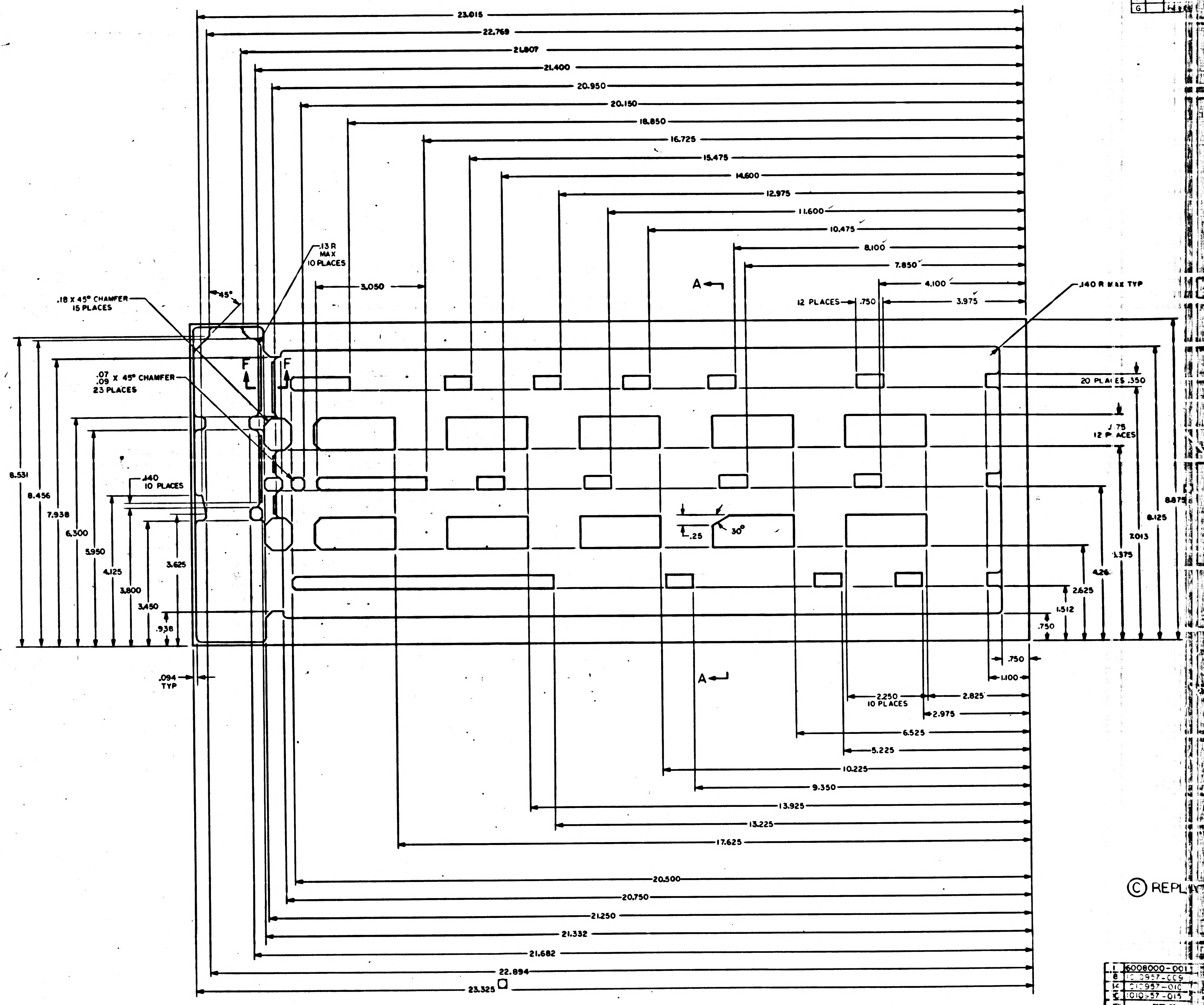
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 1/1
SHEET 1 OF 2

6008000 G

MASTER

E2

2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22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
.13 R MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
.140 R MAX TYP
A
F
20 PLACES .350
.175 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
8.875
8.125
7.013
5.375
4.26
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
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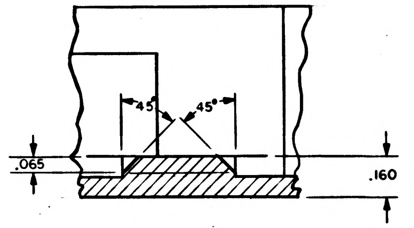

.065
45°
45°
.160

SECTION F-F
SCALE 4/1

NOTES.
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY HK31A, CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUN ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
□ 8. INSTALL FIND 1,2 & 3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, IRIDITE HOLES PER ND1002040
11. □ THIS DIMENSION IS CONTROLLED BY ICD LID-340-10000

QTY REQD	PART OR IDENTIFYING NO.
1	6008000-001
8	10 0957-009
14	010957-010
10	1010957-015

NEXT ASSY	USED ON
6007003	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

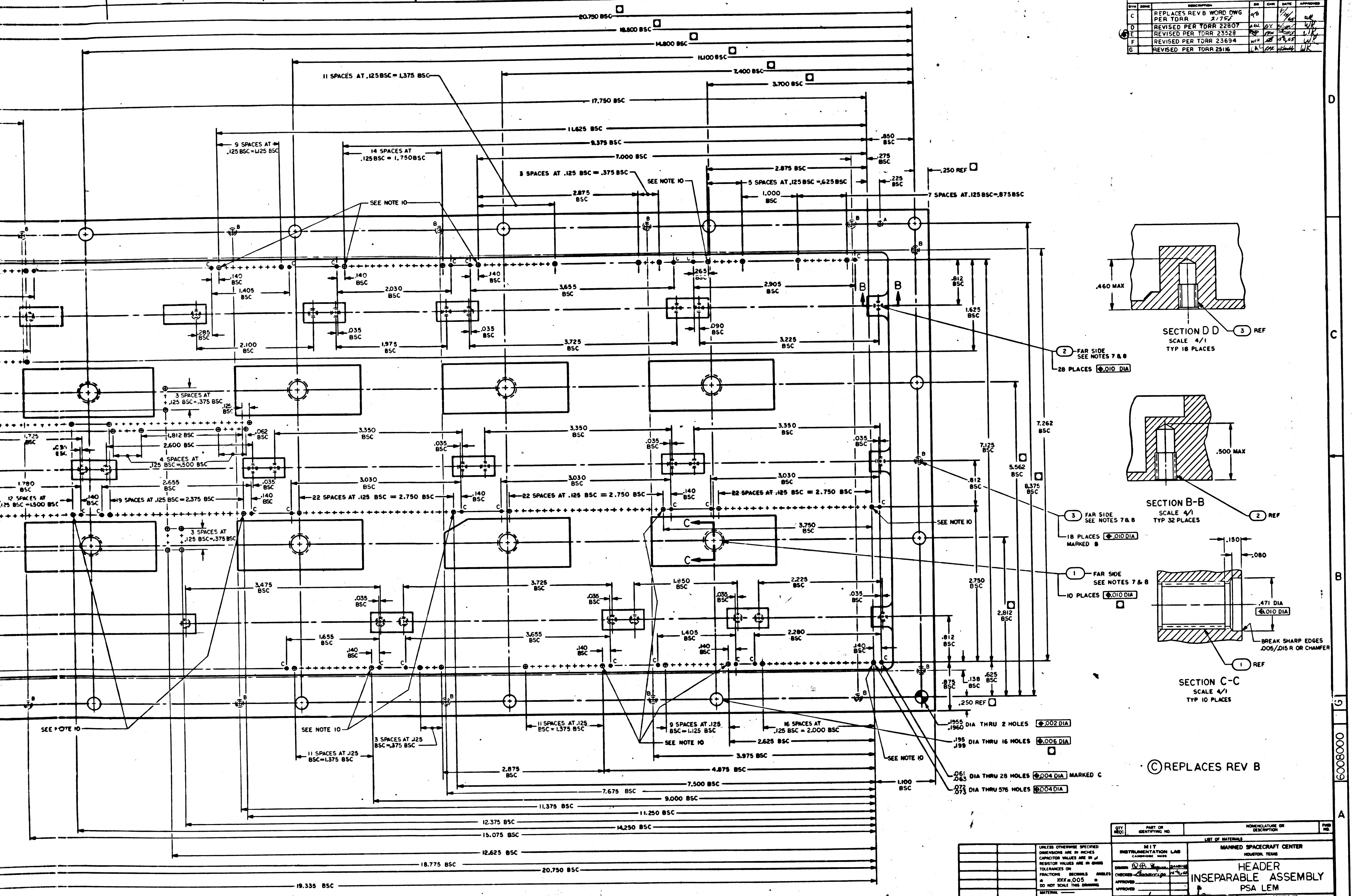
MIT
INSTRUMENTATION
CAMBRIDGE MASS

DRAWN R B
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED

© REPL

6008000 G

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
C		REPLACES REV B WORD DWG PER TDRR 21758	QB		8/24/65	WK
D		REVISED PER TDRR 22807				WK
E		REVISED PER TDRR 23528		EPK		WK
F		REVISED PER TDRR 23694	WFH		15/65	WK
G		REVISED PER TDRR 25116	LA	EPK		WK



20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
.850 BSC
.275 BSC
.225 BSC
.250 REF
7 SPACES AT .125 BSC = .875 BSC
B
C
2.905 BSC
3.655 BSC
2.030 BSC
1.405 BSC
.140 BSC
.265 BSC
.285 BSC
2.100 BSC
1.975 BSC
3.725 BSC
3.225 BSC
.035 BSC
.090 BSC
.812 BSC
1.625 BSC
3 SPACES AT .125 BSC = .375 BSC
.125 BSC
3.350 BSC
.062 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
2.655 BSC
1.725 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.750 BSC
7.262 BSC
7.125 BSC
5.562 BSC
6.375 BSC
2.750 BSC
2.812 BSC
3.475 BSC
1.850 BSC
2.225 BSC
1.655 BSC
2.280 BSC
.625 BSC
.138 BSC
.875 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC
2 FAR SIDE SEE NOTES 7 & 8
28 PLACES ⌖.010 DIA
3 FAR SIDE SEE NOTES 7 & 8
18 PLACES ⌖.010 DIA MARKED B
1 FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
.1955 .1960 DIA THRU 2 HOLES ⌖.002 DIA
.195 .199 DIA THRU 16 HOLES ⌖.006 DIA
.061 .063 DIA THRU 28 HOLES ⌖.004 DIA MARKED C
.072 .073 DIA THRU 576 HOLES ⌖.004 DIA
.460 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
3 REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
2 REF
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
SECTION C-C
SCALE 4/1
TYP 10 PLACES
1 REF
4
3
2
1
D
C
B
A

Ⓒ REPLACES REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± XXX±.005 ±
DO NOT SCALE THIS DRAWING
MATERIAL —

NEXT ASSY	USED ON
6007006	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R.B. 24MAY65
CHECKED Bonarrigo
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008000
SCALE 2/1
SHEET 2 OF 2

6008000

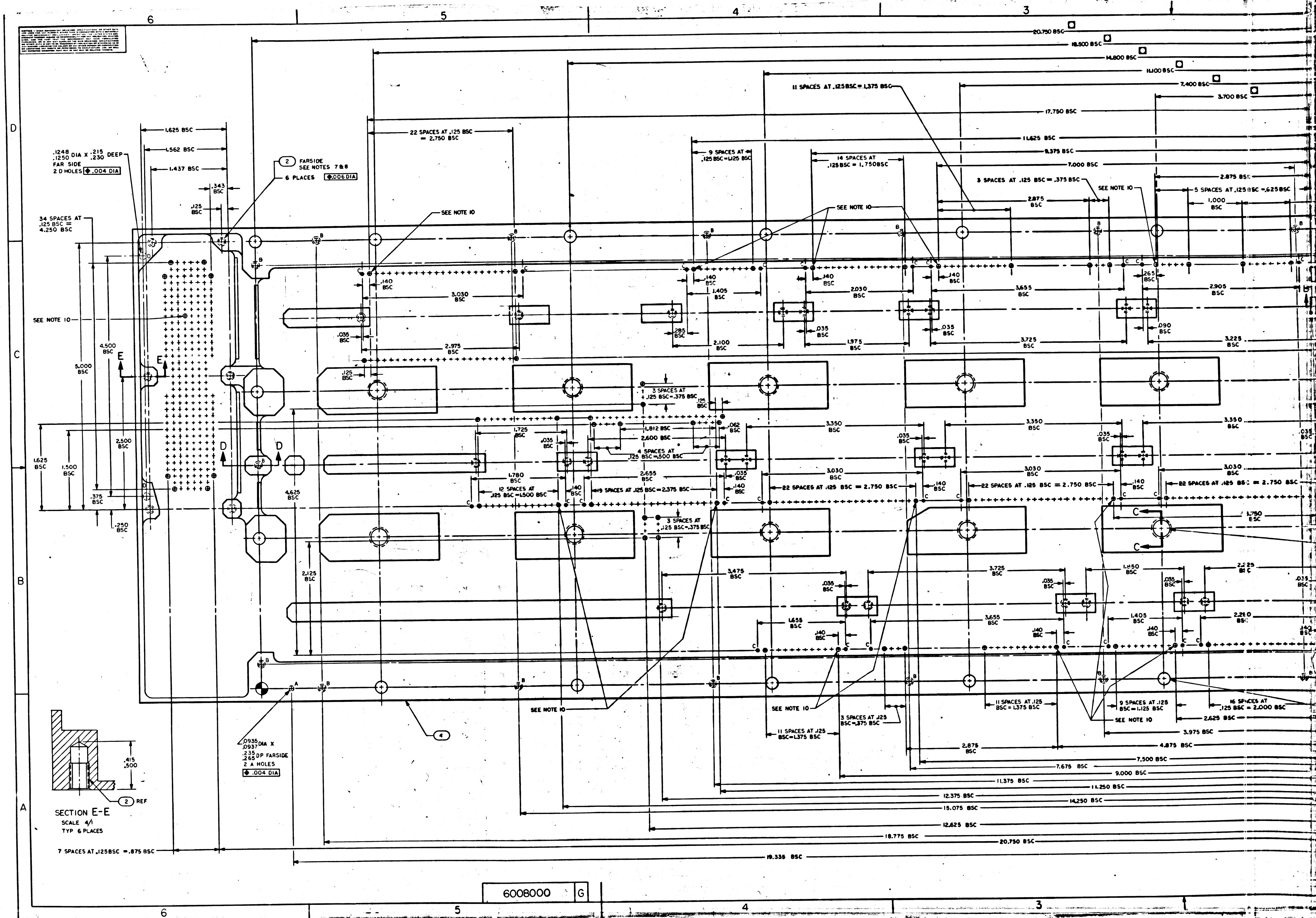
6008000	G

2H

6008000

SH 2 OF 5

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


6
5
4
3
D
C
B
A
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.1248 .1250 DIA X .215 .230 DEEP
FAR SIDE
2 D HOLES ◈ .004 DIA
② FARSIDE SEE NOTES 7 & 8
6 PLACES ◈ .006 DIA
.343 BSC
.125 BSC
22 SPACES AT .125 BSC = 2.750 BSC
34 SPACES AT .125 BSC = 4.250 BSC
.140 BSC
3.030 BSC
.035 BSC
2.975 BSC
.285 BSC
1.405 BSC
2.100 BSC
2.030 BSC
1.975 BSC
3.655 BSC
3.725 BSC
.265 BSC
2.905 BSC
.090 BSC
3.225 BSC
4.500 BSC
5.000 BSC
E
E
.125 BSC
3 SPACES AT .125 BSC = .375 BSC
.125 BSC
2.500 BSC
1.625 BSC
1.500 BSC
.375 BSC
.250 BSC
D
D
1.725 BSC
1.812 BSC
2.600 BSC
.062 BSC
4 SPACES AT .125 BSC = .500 BSC
3.350 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC = 2.375 BSC
4.625 BSC
3.030 BSC
22 SPACES AT .125 BSC = 2.750 BSC
C
C
1.750 BSC
2.125 BSC
3.475 BSC
1.850 BSC
2.225 BSC
1.655 BSC
2.210 BSC
A
B
SEE NOTE 10
④
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
7 SPACES AT .125 BSC = .875 BSC
19.335 BSC
.0935 .0937 DIA X .235 .265 DP FARSIDE
2 A HOLES ◈ .004 DIA
.415 .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6008000
G

0008009

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: MAGNESIUM ALLOY PER MIL-M-26075 (HK31A-H24).
SIZE TO BE 8.875 × 23.000 × 0.750.
THIS SIZE IS AS FINISHED OVERALL DIMENSIONS.

CONFIGURATION INCOMPLETE

REVISIONS 19786

SYM	DESCRIPTION	CHG NO.	DATE	APPD.

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	±.005	+ −
− −	− −	− −

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN Kw Hessel DATE 3 MAY 65
CHECKED Ed Foster 3 MAY 65
APPROVAL
APPROVAL 5/28/65
NASA APPROVAL 6-2-65
MIT APPROVAL 6-22-65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER, PSA (LEM)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE B
6008000
SCALE —
SHEET 1 OF 1

MIL 10775-D 11-16-64

8 | 1008009

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: ALUMINUM ALLOY PER QQ-A-250/11, TEMPER T6.
SIZE TO BE 11.250 × 12.875 × 0.750.
THIS SIZE IS AS FINISHED OVERALL DIMENSIONS.

3. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

REVISIONS 19787

SYM	DESCRIPTION	CHG NO.	DATE	APPD.
A	REVISED PER CM 201221 TDRR 21749	—	25 Jun 65	J J J C7P
B	REVISED PER CM 202479 TDRR 21749		30 JUN 65	J.C.D MEM
C	REPLACED BY REV D CONFIGURATION DWG PER TDRR 21750		8/24/65	TB

CONFIGURATION INCOMPLETE

ⒸREPLACED BY REV D

SEE NOTE 3

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	20	MS-21209-C0615	INSERT, SCREW THREAD
	4	MS-21209-C6-15	INSERT, SCREW THREAD
	~~34~~	~~1010620-7~~	~~PIN, GUIDE~~
	46	MS21209-C0815	INSERT, SCREW THREAD, SELF LOCK

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.005	+ —
— —	— —	— —

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT

DRAWN RW Heisel DATE 3 MAY 65
CHECKED Ed Foster 3 MAY 65
APPROVAL
APPROVAL D. R. Test 5/28/65
NASA APPROVAL 6-3-65
MIT APPROVAL 6-2-65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER, PTA (LEM)

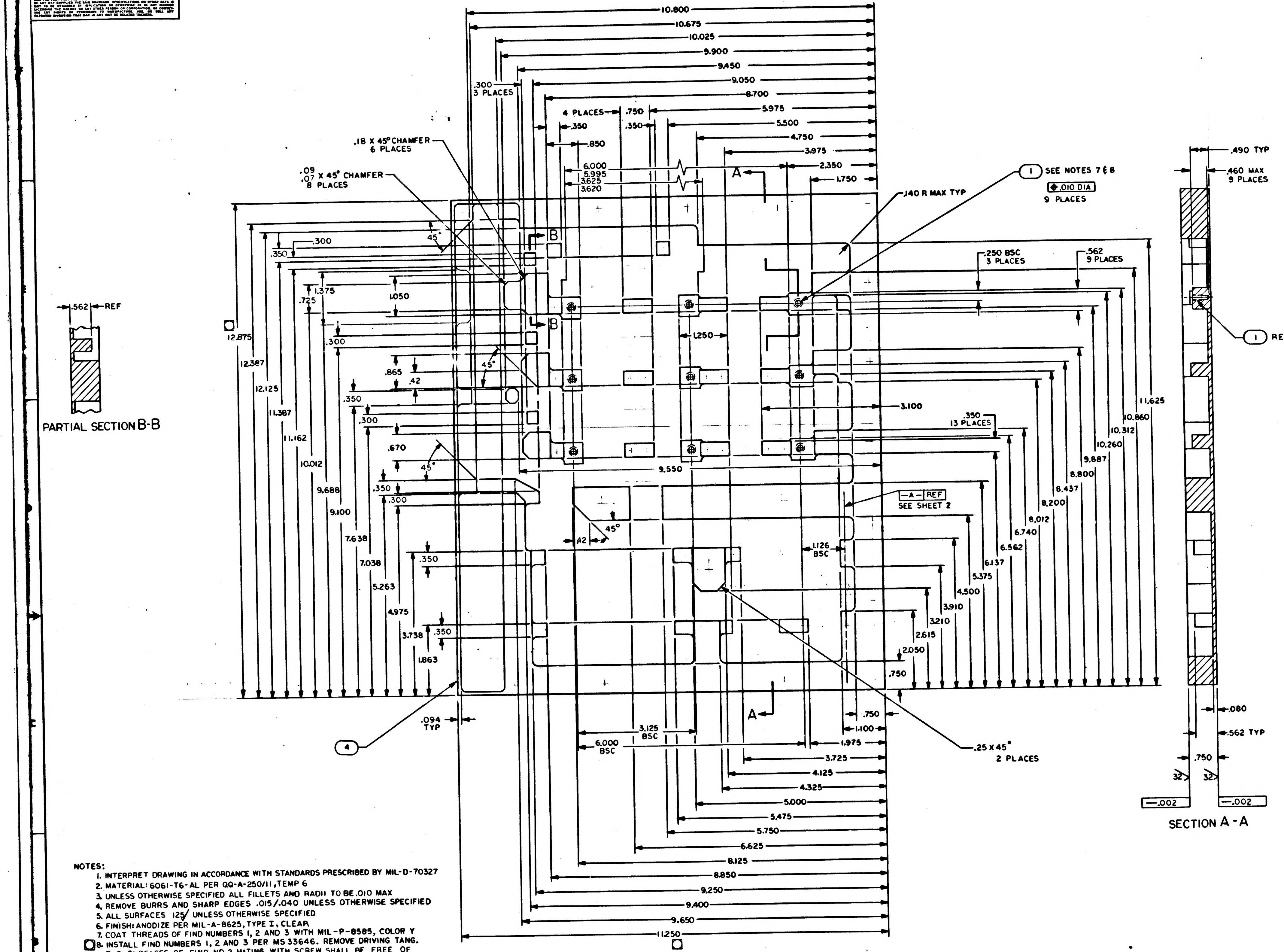
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE B
6008001
SCALE —
SHEET 1 OF 1

MIL 1077B-D 11-16-64

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21750				



10.800
10.675
10.025
9.900
9.450
9.050
8.700
5.975
5.500
4.750
3.975
2.350
1.750
.300 3 PLACES
4 PLACES
.750
.350
.850
6.000
5.995
3.625
3.620
A
.18 X 45° CHAMFER 6 PLACES
.09 .07 X 45° CHAMFER 8 PLACES
.140 R MAX TYP
① SEE NOTES 7 & 8
⌖ .010 DIA
9 PLACES
B
45°
.300
.350
1.375
.725
1.050
1.250
.300
12.875
12.387
12.125
11.387
11.162
10.012
9.688
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.865
.42
.350
.300
.670
45°
.350
.300
.350
.350
9.550
3.100
.250 BSC 3 PLACES
.562 9 PLACES
.350 13 PLACES
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
-A- REF SEE SHEET 2
.42
45°
1.126 BSC
.25 X 45° 2 PLACES
④
.094 TYP
3.125 BSC
6.000 BSC
.750
1.100
1.975
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
9.250
9.400
9.650
11.250
.562 REF
PARTIAL SECTION B-B
.490 TYP
.460 MAX 9 PLACES
① REF
.080
.562 TYP
.750
32
32
—.002
—.002
SECTION A-A

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NUMBERS 1, 2 AND 3 PER MS 33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED E SHALL BE FREE FROM ANODIZE. CHROMATE PER MIL-C-5541 TYPE II, GRADE C, CLASS 3
11. ◯ THIS DIMENSION IS CONTROLLED BY LID-280-10004

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008001-001	HEADER	4
4	MS21209-F6-15	INSERT, SCREW THREAD, SELF LOCKING	3
20	MS21209-C0615	INSERT, SCREW THREAD, SELF LOCKING	2
55	MS21209-C0815	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN L.J. Pantro 14 MAY 65
CHECKED
APPROVED
APPROVED 8/23/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

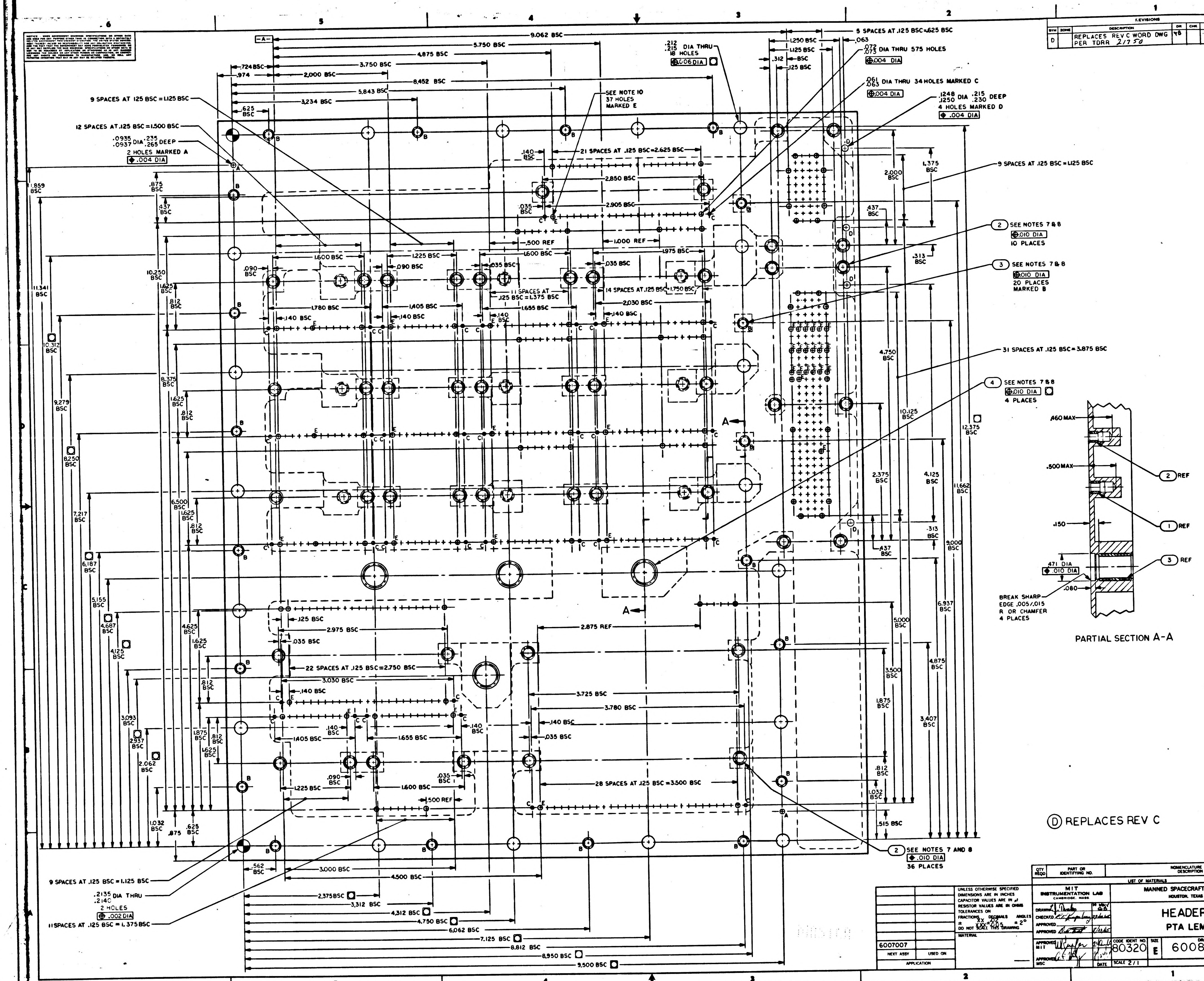
HEADER,
PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008001
SCALE 1/1
SHEET 1 OF 2

6008001 D

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21750	YB			

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


6
5
4
3
2
1
F
E
D
C
B
A
9.062 BSC
5.750 BSC
4.875 BSC
3.750 BSC
.724 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935 .0937 DIA .235 .265 DEEP
2 HOLES MARKED A
.004 DIA
.212 .215 DIA THRU
18 HOLES
.006 DIA
SEE NOTE 10
37 HOLES
MARKED E
5 SPACES AT .125 BSC = .625 BSC
1.250 BSC
1.125 BSC
.312 BSC
.125 BSC
.063
.072 .073 DIA THRU 575 HOLES
.004 DIA
.061 .063 DIA THRU 34 HOLES MARKED C
.004 DIA
.1248 .1250 DIA .215 .230 DEEP
4 HOLES MARKED D
.004 DIA
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
.500 REF
1.000 REF
1.600 BSC
1.225 BSC
.090 BSC
.035 BSC
1.975 BSC
11 SPACES AT .125 BSC = 1.375 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.780 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
1.859 BSC
11.341 BSC
10.312 BSC
10.250 BSC
9.279 BSC
8.375 BSC
8.250 BSC
7.217 BSC
6.500 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.625 BSC
4.125 BSC
3.093 BSC
2.937 BSC
2.062 BSC
1.875 BSC
1.625 BSC
1.032 BSC
.875 BSC
.812 BSC
.437 BSC
2.000 BSC
1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.437 BSC
.313 BSC
2 SEE NOTES 7 & 8
.010 DIA
10 PLACES
3 SEE NOTES 7 & 8
.010 DIA
20 PLACES
MARKED B
4.750 BSC
31 SPACES AT .125 BSC = 3.875 BSC
10.125 BSC
12.375 BSC
4 SEE NOTES 7 & 8
.010 DIA
4 PLACES
A
2.375 BSC
4.125 BSC
11.662 BSC
.313 BSC
.437 BSC
9.000 BSC
6.937 BSC
5.000 BSC
4.875 BSC
3.500 BSC
1.875 BSC
3.407 BSC
.812 BSC
1.032 BSC
.515 BSC
.125 BSC
2.975 BSC
.035 BSC
2.875 REF
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.725 BSC
3.780 BSC
.140 BSC
1.405 BSC
1.655 BSC
.090 BSC
1.225 BSC
1.600 BSC
.500 REF
28 SPACES AT .125 BSC = 3.500 BSC
2 SEE NOTES 7 AND 8
.010 DIA
36 PLACES
.562 BSC
3.000 BSC
4.500 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.950 BSC
9.500 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.2135 .2140 DIA THRU
2 HOLES
.002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
.460 MAX
.500 MAX
.150
2 REF
1 REF
3 REF
.471 DIA
.010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
PARTIAL SECTION A-A

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007007	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

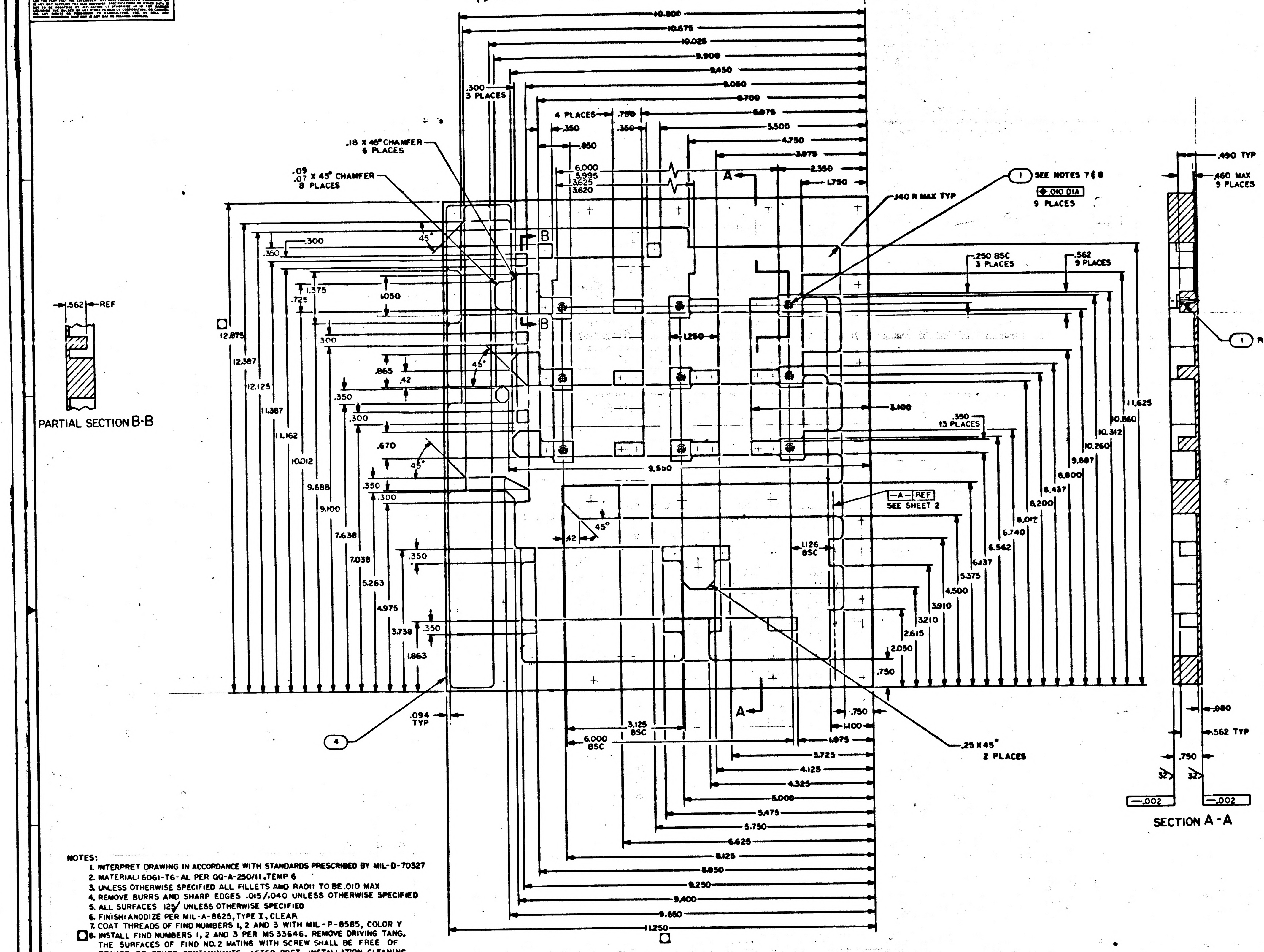
DRAWN L. J. Dunlop 14 MAY 65
CHECKED R. Kingsbury 29 Jul 65
APPROVED
APPROVED D. Test 8/23/65
APPROVED MIT W. Kupfer 24 Aug 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008001
SCALE 2/1
SHEET 2 OF 2

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
REVISIONS						
D		REPLACES REV C WORD DWG PER TDRR 21750				
E		REVISED PER TDRR 23166	KCH		15 OCT 65	



10.800
10.675
10.025
9.900
9.450
9.050
8.700
5.875
5.500
4.750
3.875
2.360
1.750
.300 3 PLACES
4 PLACES .750
.350
.350
.850
6.000
5.995
3.625
3.620
.18 X 45° CHAMFER 6 PLACES
.09 .07 X 45° CHAMFER 8 PLACES
45°
.300
.350
1.375
.725
1.050
.300
.865
.42
.350
.300
.670
45°
.350
.300
12.875
12.387
12.125
11.387
11.162
10.012
9.688
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.350
.350
A
B
B
1.250
.140 R MAX TYP
1 SEE NOTES 7 & 8
.010 DIA
9 PLACES
.250 BSC 3 PLACES
.562 9 PLACES
3.100
.350 13 PLACES
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
9.550
-A- REF SEE SHEET 2
1.126 BSC
45°
.42
.25 X 45° 2 PLACES
.094 TYP
4
A
.750
1.100
1.875
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
9.250
9.400
9.650
11.250
3.125 BSC
6.000 BSC
.562 REF
PARTIAL SECTION B-B
.490 TYP
.460 MAX 9 PLACES
1 REF
.080
.562 TYP
.750
32
32
.002
.002
SECTION A-A

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NUMBERS 1, 2 AND 3 PER MS 33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED E SHALL BE FREE FROM ANODIZE. CHROMATE PER MIL-C-5541 TYPE II, GRADE C, CLASS 3
11. ▢ THIS DIMENSION IS CONTROLLED BY LID-280-10004

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008001-001	HEADER	4
4	MS21209-F6-15	INSERT, SCREW THREAD, SELF LOCKING	3
20	MS21209-C0615	INSERT, SCREW THREAD, SELF LOCKING	2
55	MS21209-C0815	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

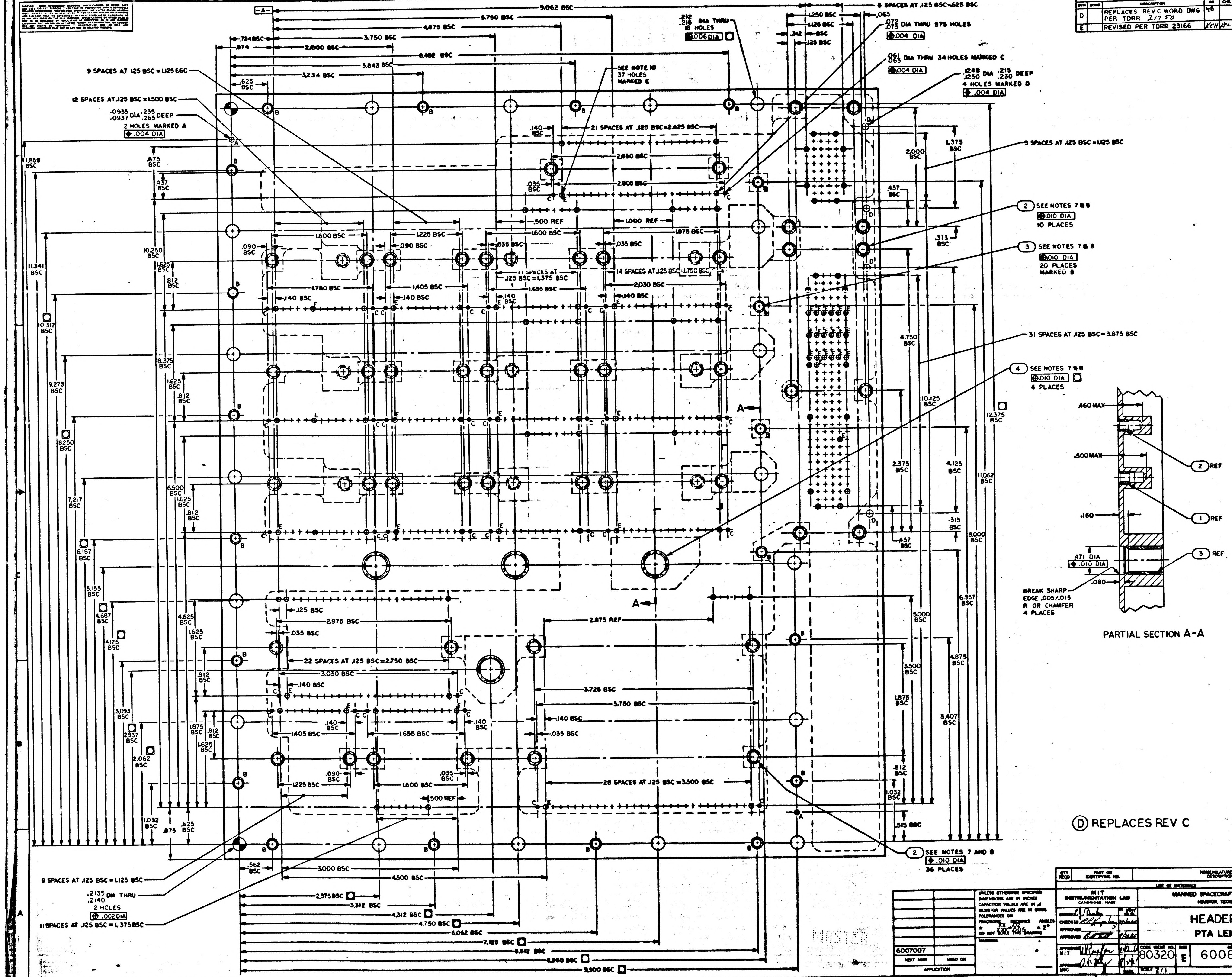
HEADER,
PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008001
SCALE 1/1
SHEET 1 OF 2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21750	YB			
E		REVISED PER TDRR 23166	KCH		15 OCT 65	



A
9.062 BSC
5.750 BSC
4.875 BSC
3.750 BSC
.724 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935 .0937 DIA .235 .265 DEEP
2 HOLES MARKED A
.004 DIA
SEE NOTE 10
37 HOLES
MARKED E
.212 .215 DIA THRU
18 HOLES
.006 DIA
5 SPACES AT .125 BSC = .625 BSC
1.250 BSC
1.125 BSC
.312 BSC
.125 BSC
.063
.072 .073 DIA THRU 575 HOLES
.004 DIA
.061 .063 DIA THRU 34 HOLES MARKED C
.004 DIA
.1248 .1250 DIA .215 .230 DEEP
4 HOLES MARKED D
.004 DIA
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
.500 REF
1.000 REF
1.600 BSC
1.225 BSC
1.975 BSC
.090 BSC
.035 BSC
14 SPACES AT .125 BSC
1.750 BSC
11 SPACES AT .125 BSC = 1.375 BSC
1.780 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
2.000 BSC
1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.437 BSC
.313 BSC
2 SEE NOTES 7 & 8
.010 DIA
10 PLACES
3 SEE NOTES 7 & 8
.010 DIA
20 PLACES
MARKED B
31 SPACES AT .125 BSC = 3.875 BSC
4.750 BSC
4 SEE NOTES 7 & 8
.010 DIA
4 PLACES
10.125 BSC
12.375 BSC
2.375 BSC
4.125 BSC
11.062 BSC
9.000 BSC
6.937 BSC
5.000 BSC
4.875 BSC
3.500 BSC
1.875 BSC
3.407 BSC
.812 BSC
1.032 BSC
.515 BSC
1.859 BSC
11.341 BSC
10.312 BSC
9.279 BSC
8.250 BSC
7.217 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.125 BSC
3.093 BSC
2.937 BSC
2.062 BSC
1.032 BSC
.875 BSC
10.250 BSC
8.375 BSC
6.500 BSC
4.625 BSC
1.625 BSC
.812 BSC
.625 BSC
.875
A
.125 BSC
2.975 BSC
2.875 REF
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.725 BSC
3.780 BSC
.140 BSC
.035 BSC
1.600 BSC
.500 REF
28 SPACES AT .125 BSC = 3.500 BSC
2 SEE NOTES 7 AND 8
.010 DIA
36 PLACES
9 SPACES AT .125 BSC = 1.125 BSC
.2135 .2140 DIA THRU
2 HOLES
.002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
.562 BSC
3.000 BSC
4.500 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.990 BSC
9.500 BSC
.460 MAX
.500 MAX
.150
.471 DIA
.010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
2 REF
1 REF
3 REF
PARTIAL SECTION A-A

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .02 XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

HEADER,
PTA LEM

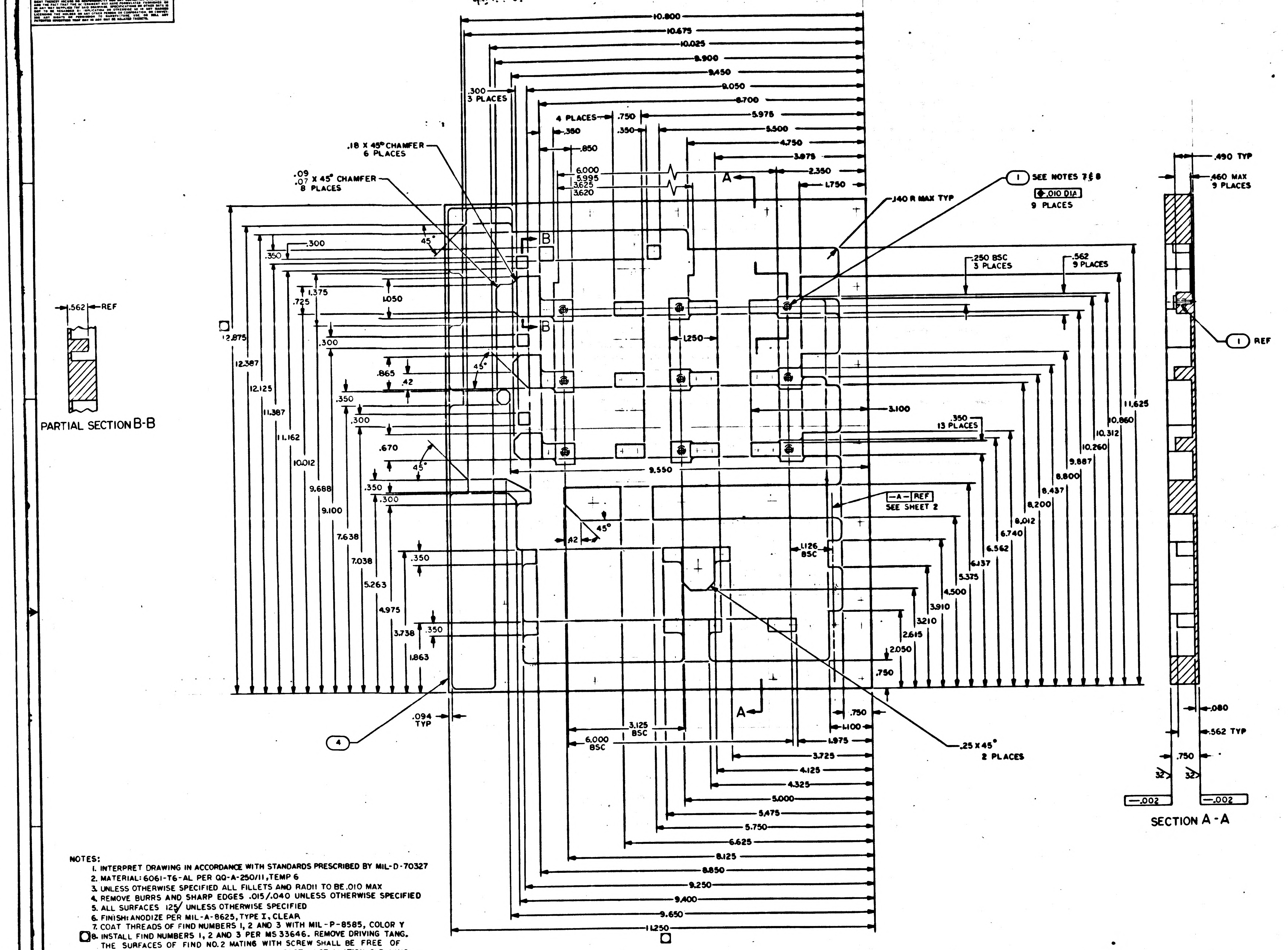
CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008001
SCALE 2/1
SHEET 2 OF 2

MASTER

6008001 E

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21750				
E		REVISED PER TDRR 23166	KCH	BGL	15 OCT 65	
F		REVISED PER TDRR 23889				



10.800
10.675
10.025
9.900
9.450
9.050
8.700
5.975
5.500
4.750
3.975
2.350
1.750
.300 3 PLACES
4 PLACES .750
.350
.850
6.000 5.995
3.625 3.620
.18 X 45° CHAMFER 6 PLACES
.09 .07 X 45° CHAMFER 8 PLACES
A
B
.140 R MAX TYP
1 SEE NOTES 7 & 8
.010 DIA
9 PLACES
.250 BSC 3 PLACES
.562 9 PLACES
.300
.350
45°
1.375
.725
1.050
.300
12.875
12.387
12.125
11.387
11.162
10.012
9.688
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.865
.42
.350
.300
.670
.350
.300
.350
.350
1.250
3.100
.350 13 PLACES
9.550
-A- REF SEE SHEET 2
1.126 BSC
.42
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
.094 TYP
4
3.125 BSC
6.000 BSC
.750
1.100
1.975
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
9.250
9.400
9.650
11.250
.25 X 45° 2 PLACES
.562 REF
PARTIAL SECTION B-B
.490 TYP
.460 MAX 9 PLACES
1 REF
.080
.562 TYP
.750
32
.002
SECTION A-A

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NUMBERS 1, 2 AND 3 PER MS 33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED E SHALL BE FREE FROM ANODIZE. CHROMATE PER MIL-C-5541 TYPE II, GRADE C, CLASS 3
11. THIS DIMENSION IS CONTROLLED BY LID-280-10004

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008001-001	HEADER	4
4	1010957-015	INSERT, SCREW THREAD, SELF LOCKING	3
20	1010957-009	INSERT, SCREW THREAD, SELF LOCKING	2
55	1010957-010	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

6007007	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
PTA LEM

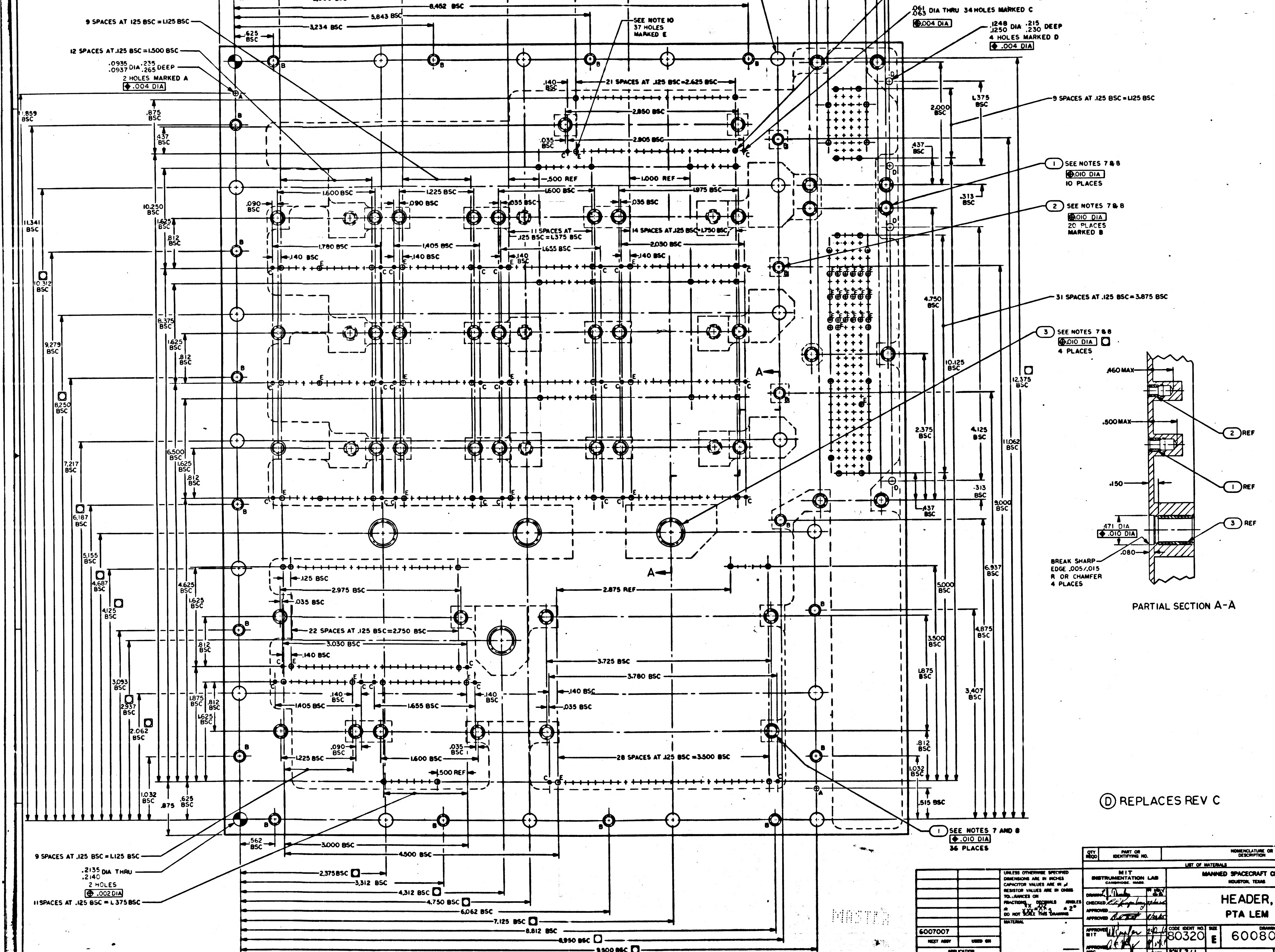
CODE IDENT NO.	SIZE	DRAWING NO.
80320	E	6008001
SCALE 1/1		SHEET 1 OF 2

MASTER

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21750	[illegible]		5/26/65	[illegible]
E		REVISED PER TDRR 23166	KCH	[illegible]	15 OCT 65	[illegible]
F		REVISED PER TDRR 23889	[illegible]	[illegible]	[illegible]	[illegible]



-A-
9.062 BSC
5.750 BSC
4.875 BSC
3.750 BSC
.724 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
5 SPACES AT .125 BSC=.625 BSC
1.250 BSC
1.125 BSC
.063
.312
.125 BSC
.212 .215 DIA THRU 18 HOLES
.006 DIA
.072 .073 DIA THRU 575 HOLES
.004 DIA
.061 .063 DIA THRU 34 HOLES MARKED C
.004 DIA
.1248 .1250 DIA .215 .230 DEEP 4 HOLES MARKED D
.004 DIA
SEE NOTE 10 37 HOLES MARKED E
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935 .0937 DIA .235 .265 DEEP 2 HOLES MARKED A
.004 DIA
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
.140 BSC
.035 BSC
.500 REF
1.000 REF
1.600 BSC
1.975 BSC
1.225 BSC
.090 BSC
.035 BSC
11 SPACES AT .125 BSC = 1.375 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.780 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
2.000 BSC
1.375 BSC
.437 BSC
.313 BSC
9 SPACES AT .125 BSC = 1.125 BSC
1 SEE NOTES 7 & 8 .010 DIA 10 PLACES
2 SEE NOTES 7 & 8 .010 DIA 20 PLACES MARKED B
31 SPACES AT .125 BSC = 3.875 BSC
3 SEE NOTES 7 & 8 .010 DIA 4 PLACES
4.750 BSC
10.125 BSC
12.375 BSC
2.375 BSC
4.125 BSC
11.062 BSC
9.000 BSC
6.937 BSC
5.000 BSC
4.875 BSC
3.500 BSC
1.875 BSC
3.407 BSC
.812 BSC
1.032 BSC
.515 BSC
1.859 BSC
.875 BSC
.437 BSC
10.250 BSC
11.341 BSC
1.625 BSC
.812 BSC
10.312 BSC
8.375 BSC
9.279 BSC
8.250 BSC
6.500 BSC
7.217 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.625 BSC
4.125 BSC
3.093 BSC
2.937 BSC
2.062 BSC
1.032 BSC
.625 BSC
A
A
.125 BSC
2.975 BSC
.035 BSC
2.875 REF
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.725 BSC
3.780 BSC
.140 BSC
1.405 BSC
1.655 BSC
.090 BSC
1.600 BSC
1.225 BSC
.500 REF
28 SPACES AT .125 BSC = 3.500 BSC
1 SEE NOTES 7 AND 8 .010 DIA 36 PLACES
.562 BSC
3.000 BSC
4.500 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.950 BSC
9.500 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.2135 .2140 DIA THRU 2 HOLES
.002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
.460 MAX
.500 MAX
.150
.471 DIA
.010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
2 REF
1 REF
3 REF
PARTIAL SECTION A-A

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY	USED ON
6007007	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN [illegible] MAY 65
CHECKED [illegible]
APPROVED
APPROVED [illegible]
APPROVED MIT [illegible]
APPROVED MSC [illegible]
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

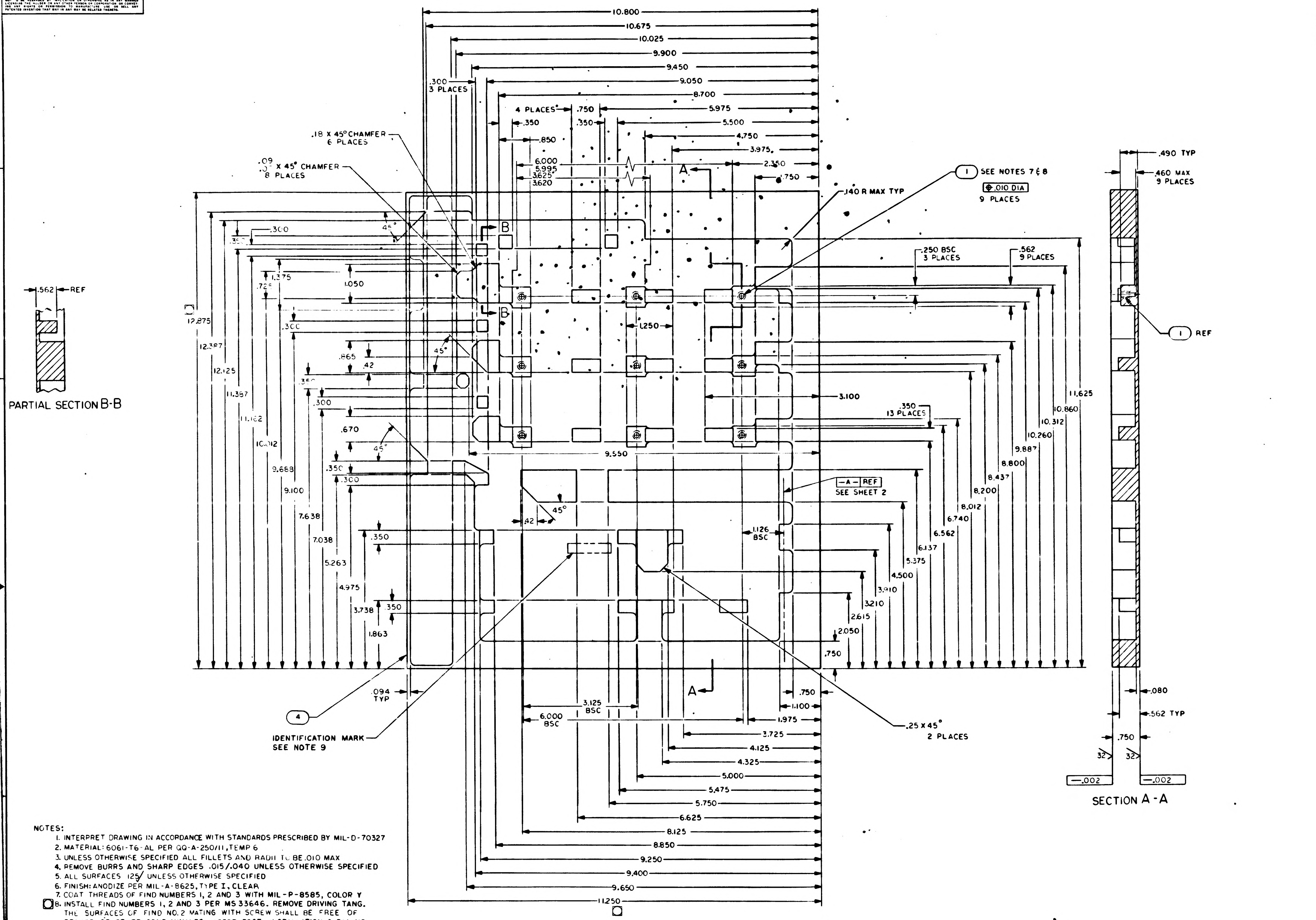
HEADER,
PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008001
SCALE 2/1
SHEET 2 OF 2

MASTER

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
D		REPLACES REV C WORD DWG PER TDRR 2175					
E		REVISED PER TDRR 23166	KCH		15 OCT 65		
F		REVISED PER TDRR 23939					
G		*REVISED PER TDRR 29451*	B.		10 JUN 66		



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10.675
10.025
9.900
9.450
9.050
8.700
5.975
5.500
4.750
3.975
2.350
.750
.300 3 PLACES
4 PLACES
.750
.350
.350
.850
6.000
5.995
3.625
3.620
.18 X 45° CHAMFER 6 PLACES
.09 .13 X 45° CHAMFER 8 PLACES
A
.140 R MAX TYP
① SEE NOTES 7 & 8
⌖ .010 DIA
9 PLACES
B
B
.300
45°
1.375
.725
1.050
12.875
12.387
12.125
11.387
11.162
10.312
9.668
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.300
.865
.42
45°
.350
.300
.670
45°
.350
.300
1.250
.250 BSC 3 PLACES
.562 9 PLACES
3.100
.350 13 PLACES
9.550
—A— REF SEE SHEET 2
.42
45°
.350
1.126 BSC
.350
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
.094 TYP
④
IDENTIFICATION MARK SEE NOTE 9
A
6.000 BSC
3.125 BSC
.750
1.100
1.975
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
9.250
9.400
9.650
11.250
.25 X 45° 2 PLACES
.562 REF
PARTIAL SECTION B-B
.490 TYP
.460 MAX 9 PLACES
① REF
.080
.562 TYP
.750
32
32
⏥ .002
⏥ .002
SECTION A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125✓ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NUMBERS 1, 2 AND 3 PER MS 33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED B, E AND F SHALL BE FROM ANODIZE. CHROMATE PER MIL-C-5541 TYPE II, GRADE C, CLASS 3
11. ◯ THIS DIMENSION IS CONTROLLED BY LID-380-10004

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008001-001	HEADER	4
4	1010957-015	INSERT, SCREW THREAD, SELF LOCKING	3
20	1010957-009	INSERT, SCREW THREAD, SELF LOCKING	2
55	1010957-010	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	L.J. Pinkro	14 MAY 65
CHECKED		
APPROVED		
APPROVED		7/23/65
APPROVED MIT	W. Kupfer	24 Jun 65
APPROVED MSC		
		DATE

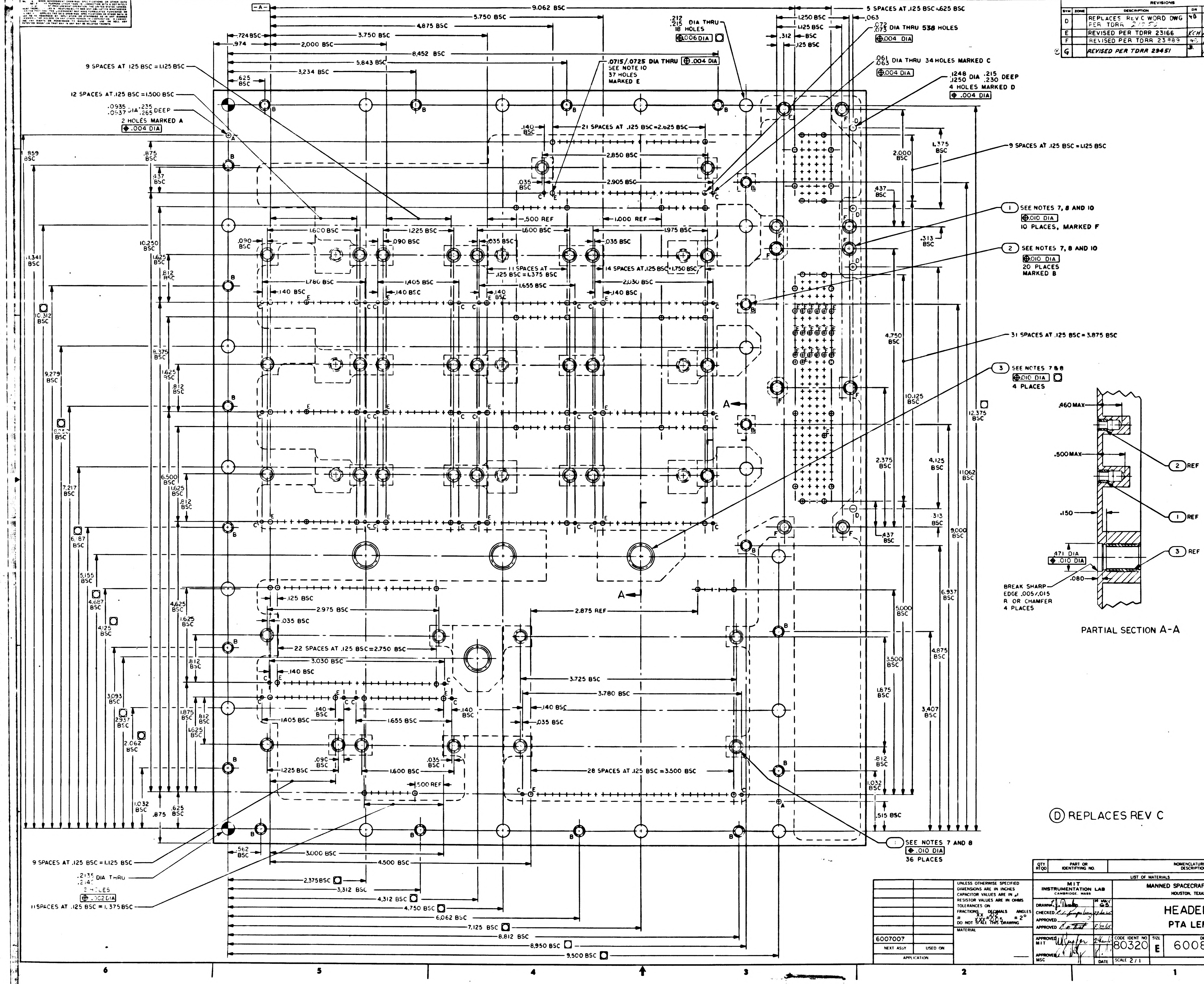
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
PTA LEM

CODE IDENT NO	SIZE	DRAWING NO.
80320	E	6008001
SCALE 1/1		SHEET 1 OF 2

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
D		REPLACES REV C WORD DWG PER TDRR 21756	YB			
E		REVISED PER TDRR 23166	KCH		15 OCT 65	
F		REVISED PER TDRR 23989				
G		*REVISED PER TDRR 29451*	B.		10 JUN 66	



9.062 BSC
5.750 BSC
4.875 BSC
3.750 BSC
.724 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935/.0937 DIA .235/.265 DEEP
2 HOLES MARKED A
⊕ .004 DIA
.212/.215 DIA THRU
18 HOLES
⊕ .006 DIA
.0715/.0725 DIA THRU ⊕ .004 DIA
SEE NOTE 10
37 HOLES
MARKED E
5 SPACES AT .125 BSC = .625 BSC
1.250 BSC
1.125 BSC
.312
.125 BSC
.063
.072/.073 DIA THRU 538 HOLES
⊕ .004 DIA
.061/.063 DIA THRU 34 HOLES MARKED C
⊕ .004 DIA
.1248/.1250 DIA .215/.230 DEEP
4 HOLES MARKED D
⊕ .004 DIA
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
9 SPACES AT .125 BSC = 1.125 BSC
① SEE NOTES 7, 8 AND 10
⊕ .010 DIA
10 PLACES, MARKED F
② SEE NOTES 7, 8 AND 10
⊕ .010 DIA
20 PLACES
MARKED B
31 SPACES AT .125 BSC = 3.875 BSC
③ SEE NOTES 7 & 8
⊕ .010 DIA
4 PLACES
1.600 BSC
1.225 BSC
.500 REF
1.000 REF
1.975 BSC
11 SPACES AT .125 BSC = 1.375 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.760 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
.090 BSC
.035 BSC
A
A
2.875 REF
2.975 BSC
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.725 BSC
3.780 BSC
28 SPACES AT .125 BSC = 3.500 BSC
.500 REF
.859 BSC
.875 BSC
.437 BSC
11.341 BSC
10.250 BSC
10.312 BSC
9.279 BSC
8.375 BSC
8.262 BSC
7.217 BSC
6.500 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.625 BSC
4.125 BSC
3.093 BSC
2.937 BSC
2.062 BSC
1.875 BSC
1.625 BSC
.812 BSC
1.032 BSC
.875
.625 BSC
.562 BSC
3.000 BSC
4.500 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.950 BSC
9.500 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.2135/.2145 DIA THRU
2 HOLES
⊕ .002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
2.000 BSC
1.375 BSC
.437 BSC
.313 BSC
4.750 BSC
10.125 BSC
12.375 BSC
11.062 BSC
2.375 BSC
4.125 BSC
.313 BSC
.437 BSC
9.000 BSC
6.937 BSC
5.000 BSC
3.500 BSC
4.875 BSC
1.875 BSC
3.407 BSC
.812 BSC
1.032 BSC
.515 BSC
① SEE NOTES 7 AND 8
⊕ .010 DIA
36 PLACES
.460 MAX
.500 MAX
.150
.471 DIA
⊕ .010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
② REF
① REF
③ REF
PARTIAL SECTION A-A

Ⓓ REPLACES REV C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

6007007	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN L. J. Durdy 14 MAY 65
CHECKED 29 Jun 65
APPROVED
APPROVED 8/23/65
APPROVED MIT 24 Jun 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
PTA LEM

CODE IDENT NO 80320
SIZE E
DRAWING NO. 6008001
SCALE 2/1
SHEET 2 OF 2

1008009

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: ALUMINUM ALLOY PER QQ-A-250/11, TEMPER T6.
SIZE TO BE 11.250 × 12.875 × 0.750.
THIS SIZE IS AS FINISHED OVERALL DIMENSIONS.

REVISIONS 19787

SYM	DESCRIPTION	CHG NO.	DATE	APPD.

CONFIGURATION INCOMPLETE

LIST OF PARTS AND MATERIALS

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.005	+ —
— —	— —	— —

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT

DRAWN RW Keisel DATE 3 MAY 65
CHECKED Ed Foster 3 MAY 65
APPROVAL
APPROVAL 5/28/65
NASA APPROVAL 6-2-65
MIT APPROVAL 6-2-65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER, PTA (LEM)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO.	SIZE	
80230	B	6008001
SCALE —		SHEET 1 OF 1

MIL 1077B-D 11-16-64

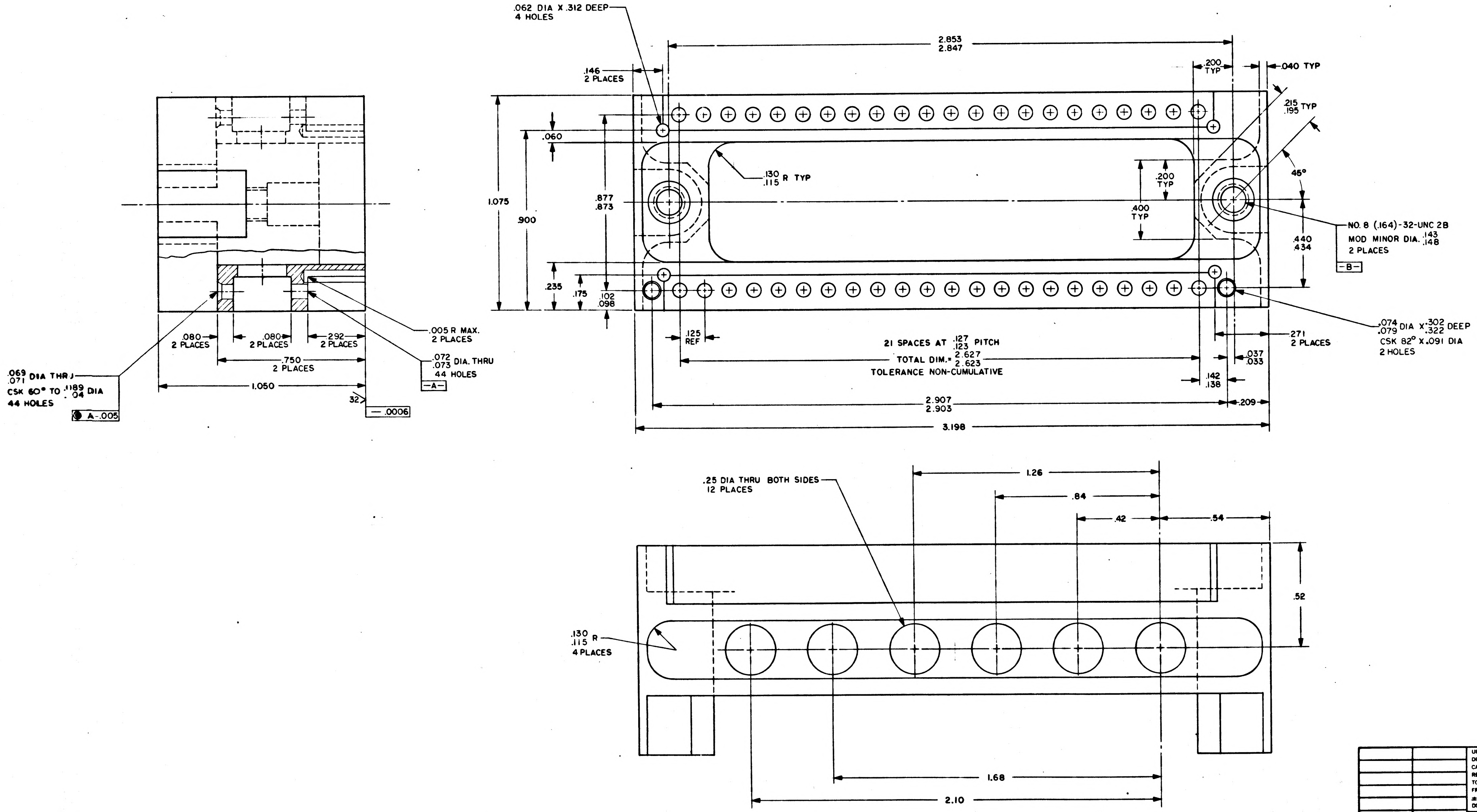
4 3 2 1

REVISIONS 19772						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 20672				

D

C

2H



.062 DIA X .312 DEEP
4 HOLES
.146
2 PLACES
2.853
2.847
.200
TYP
.040 TYP
.215
.195 TYP
.060
.130
.115 R TYP
.200
TYP
45°
1.075
.900
.877
.873
.400
TYP
NO. 8 (.164)-32-UNC 2B
MOD MINOR DIA. .143
.148
2 PLACES
.440
.434
-B-
.235
.175
.102
.098
.074
.079 DIA X .302
.322 DEEP
CSK 82° X .091 DIA
2 HOLES
.125
REF
21 SPACES AT .127
.123 PITCH
TOTAL DIM.= 2.627
2.623
TOLERANCE NON-CUMULATIVE
.271
2 PLACES
.037
.033
.142
.138
2.907
2.903
.209
3.198
.069
.071 DIA THRU
CSK 60° TO .189
.04 DIA
44 HOLES
A .005
.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
.750
2 PLACES
1.050
.005 R MAX.
2 PLACES
.072
.073 DIA. THRU
44 HOLES
-A-
32
.0006
.25 DIA THRU BOTH SIDES
12 PLACES
1.26
.84
.42
.54
.52
.130
.115 R
4 PLACES
1.68
2.10

B

6008002 A

A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

6007005	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .02 XXX ± .005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	R D Weddley	7 MAY 65
CHECKED		28 May 65
APPROVED		28 May 65
APPROVED		6/1/65
APPROVED MIT		6-2-65
APPROVED MSC	W J	6-2-65
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

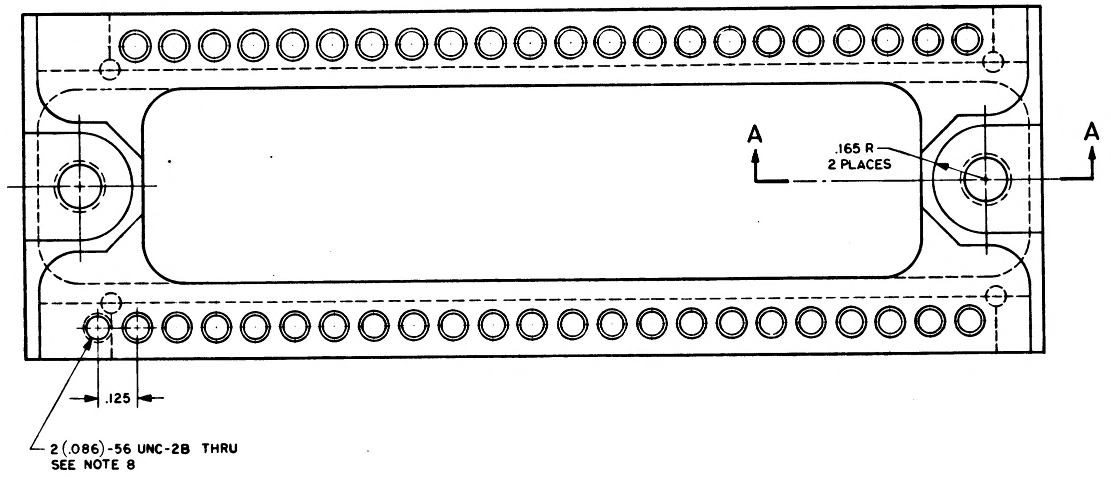
FRAME
PULSE TORQUE
ISOLATION TRANSFORMER

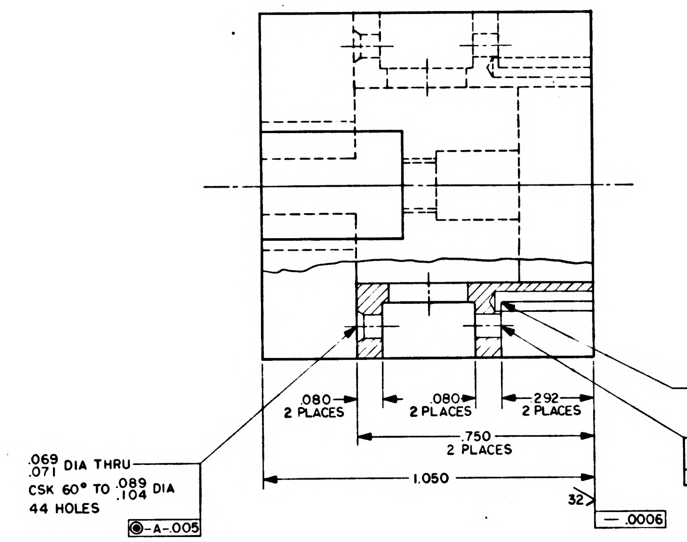
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008002
SCALE 5/1		SHEET 1 OF 1

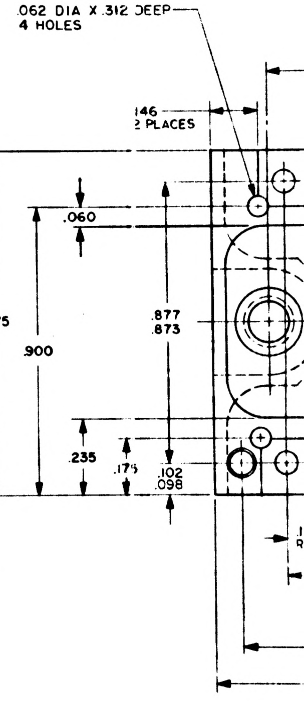
6008002 A

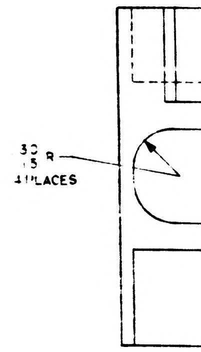
4 3 2 1

F-2


A
A
.165 R
2 PLACES
.125
2 (.086)-56 UNC-28 THRU
SEE NOTE 8

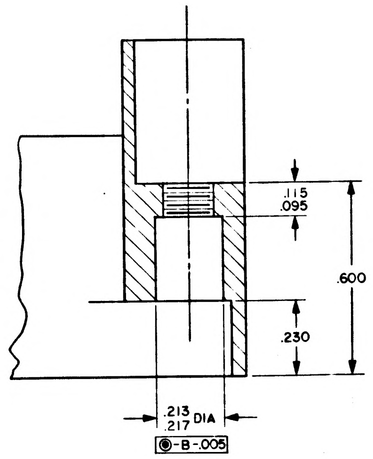

.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
.750
2 PLACES
1.050
32
— .0006
.005 R MAX.
2 PLACES
.072 .073 DIA. THRU
44 HOLES
-A-
.069 .071 DIA THRU
CSK 60° TO .089 .104 DIA
44 HOLES
◉-A-.005


.062 DIA X .312 DEEP
4 HOLES
.146
2 PLACES
.060
1.075
.900
.877
.873
.235
.175
.102
.098



NOTES:

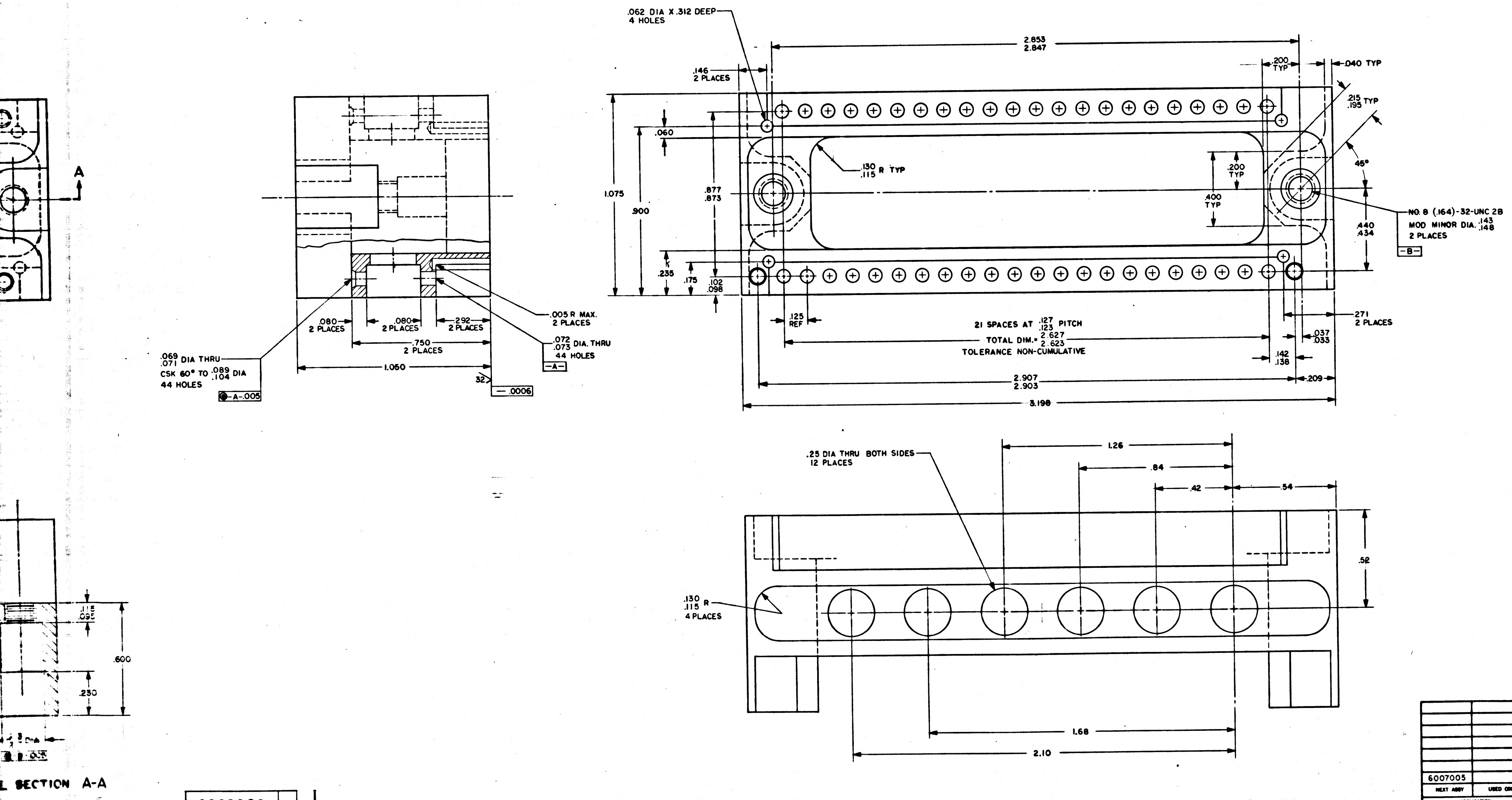
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY ZK-60A-T5 PER QQ-M-31, TEMP. 5
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES $\overset{125}{\checkmark}$ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
8. TAP HOLE AFTER ANODIZE. COAT PER ND1002040


.115
.095
.600
.230
.213 .217 DIA
◉-B-.005

PARTIAL SECTION A-A

6008002	A

SYM	ZONE	REVISIONS 19772 DESCRIPTION	DR	CHK	DATE	APPVD



A
.069 .071 DIA THRU
CSK 60° TO .089 .104 DIA
44 HOLES
A-.005
.080 2 PLACES
.080 2 PLACES
2.92 2 PLACES
.750 2 PLACES
1.050
32
.0006
.005 R MAX. 2 PLACES
.072 .073 DIA. THRU 44 HOLES
A
.062 DIA X .312 DEEP 4 HOLES
.146 2 PLACES
2.853 2.847
.200 TYP
.040 TYP
.215 .195 TYP
45°
.060
1.075
.900
.877 .873
.130 .115 R TYP
.200 TYP
.400 TYP
.440 .434
NO. 8 (.164)-32-UNC 2B
MOD MINOR DIA. .143 .148
2 PLACES
B
.235
.175
.102 .098
.125 REF
21 SPACES AT .127 .123 PITCH
TOTAL DIM.= 2.627 2.623
TOLERANCE NON-CUMULATIVE
.271 2 PLACES
.037 .033
.142 .138
2.907 2.903
.209
3.198
.25 DIA THRU BOTH SIDES 12 PLACES
1.26
.84
.42
.54
.52
.130 .115 R 4 PLACES
1.68
2.10
.115 .095
.600
.230
SECTION A-A

6008002

6007005	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ±.01 XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

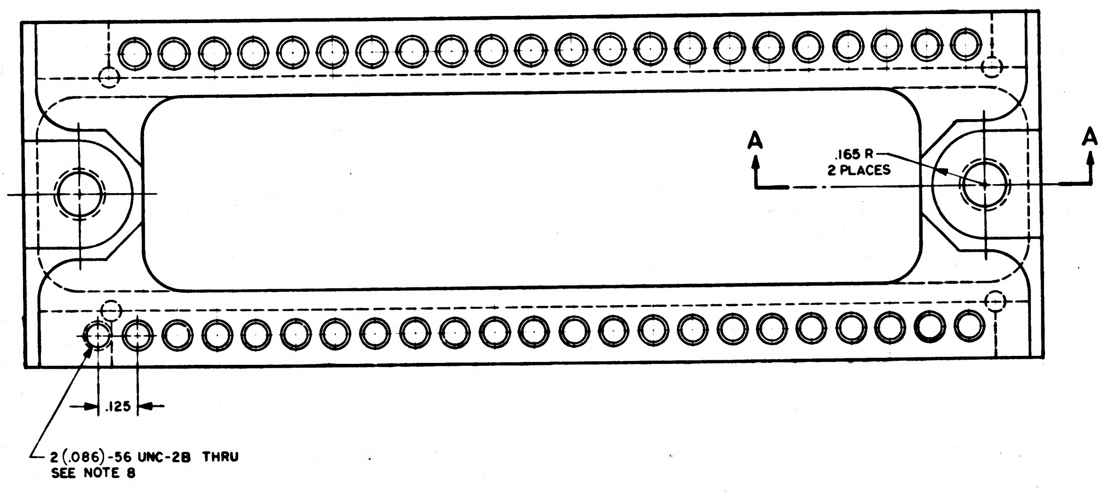
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

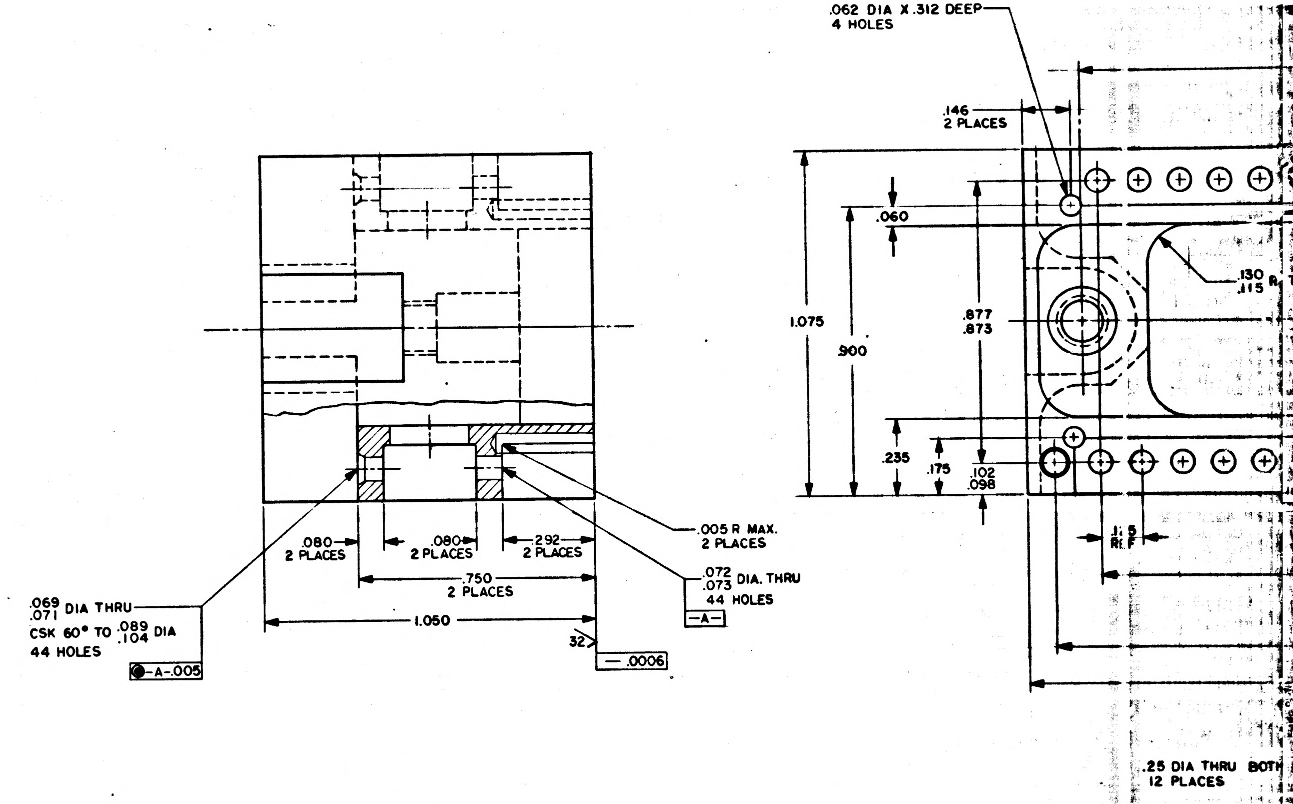
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R Waddey 7 May 66
CHECKED
APPROVED
APPROVED
APPROVED MIT 6-2-66
APPROVED MSC W G [illegible] 6-2-66
DATE

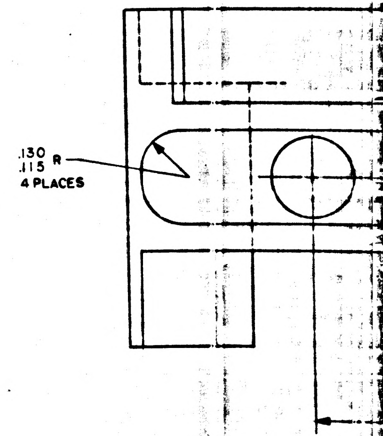
FRAME
PULSE TORQUE
ISOLATION TRANSFORMER

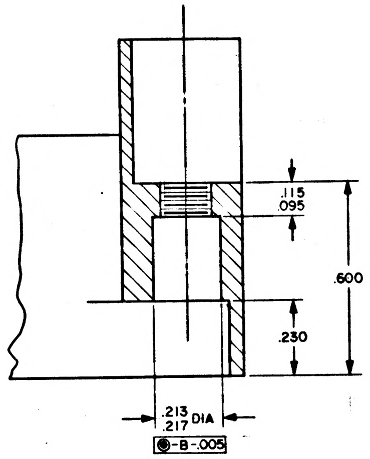
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008002
SCALE 5/1
SHEET OF 1


A
A
.165 R
2 PLACES
.125
2 (.086)-56 UNC-2B THRU
SEE NOTE 8


.069
.071 DIA THRU
CSK 60° TO .089
.104 DIA
44 HOLES
-A-.005
.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
.750
2 PLACES
1.050
32
— .0006
.005 R MAX.
2 PLACES
.072
.073 DIA. THRU
44 HOLES
-A-
.062 DIA X .312 DEEP
4 HOLES
.146
2 PLACES
.060
1.075
.900
.877
.873
.130
.115 R
.235
.175
.102
.098
.125
REF
.25 DIA THRU BOTH
12 PLACES

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY ZK-60A-T5 PER QQ-M-31, TEMP. 5
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES $\overset{125}{\checkmark}$ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
8. TAP HOLE AFTER ANODIZE. COAT PER ND1002040


.130
.115 R
4 PLACES

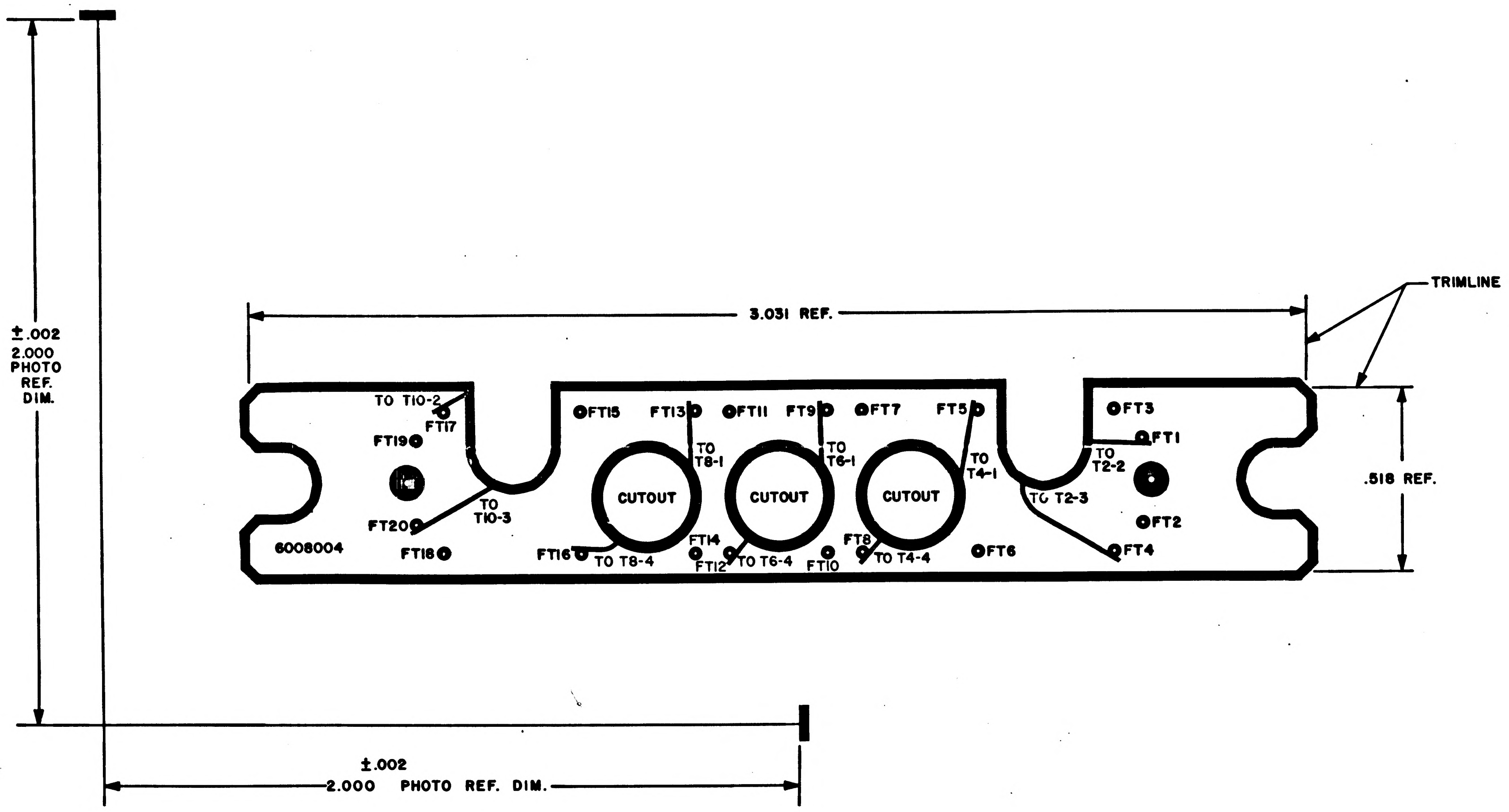

.115
.095
.600
.230
.213
.217 DIA
-B-.005

PARTIAL SECTION A-A

6008002

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 19772						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


TRIMLINE
3.031 REF.
.518 REF.
±.002
2.000
PHOTO
REF.
DIM.
±.002
2.000 PHOTO REF. DIM.
TO T10-2
FT17
FT19
TO T10-3
FT20
6008004
FT18
FT15
FT13
TO T8-1
FT11
FT9
TO T6-1
FT7
FT5
TO T4-1
CUTOUT
CUTOUT
CUTOUT
FT16
TO T8-4
FT14
FT12
TO T6-4
FT10
FT8
TO T4-4
FT6
FT3
FT1
TO T2-2
TO T2-3
FT2
FT4

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	R.D. Midgley	18 MAY 65
CHECKED	[illegible]	28 MAY 65
APPROVED	E.T. Szolcik	28 MAY 65
APPROVED	[illegible]	6/1/65
APPROVED MIT	[illegible]	6-2-65
APPROVED MSC	W. J. [illegible]	6-2-65
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD, BOTTOM
PULSE TORQUE ISOLATION TRANSFORMER

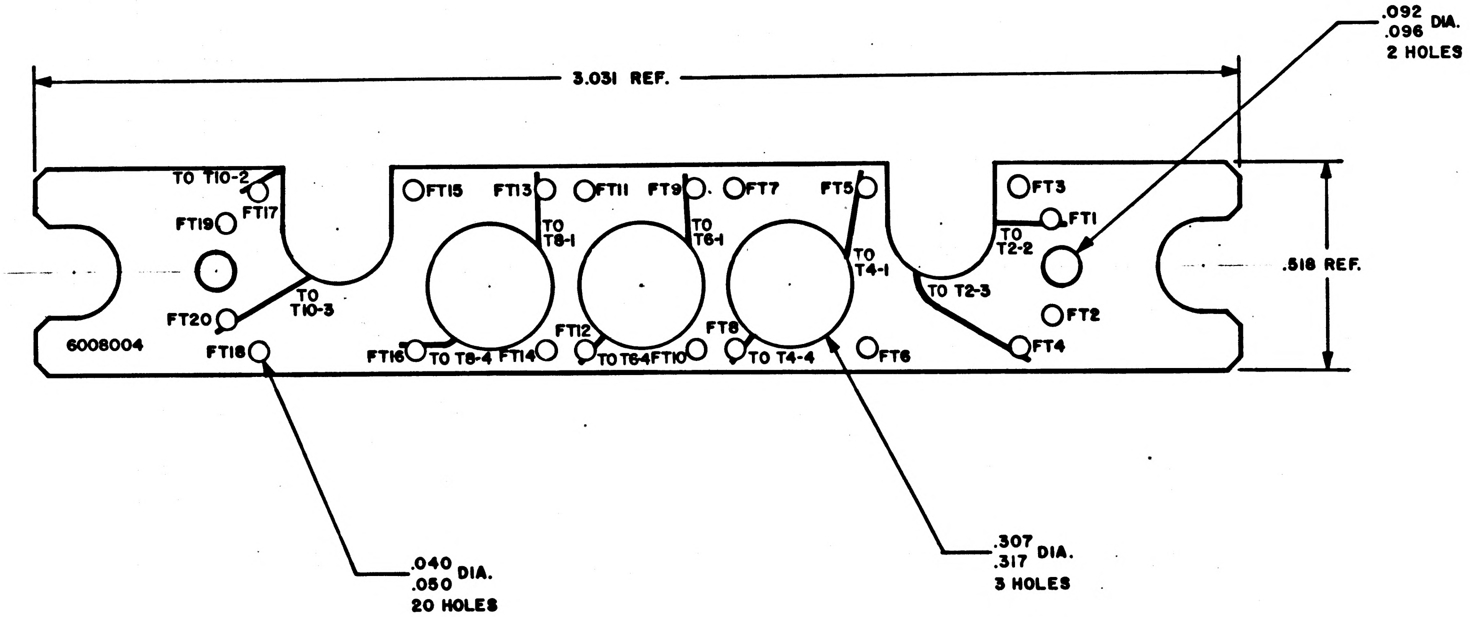
CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008003
SCALE 5/1		SHEET 1 OF 1

6008003

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 19772

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



.092
.096 DIA.
2 HOLES
3.031 REF.
.518 REF.
TO T10-2
FT17
FT19
FT20
TO T10-3
6008004
FT18
FT15
FT13
TO T8-1
FT11
FT9
TO T6-1
FT7
FT5
TO T4-1
FT16
TO T8-4
FT14
FT12
TO T6-4
FT10
FT8
TO T4-4
FT6
FT3
FT1
TO T2-2
TO T2-3
FT2
FT4
.040
.050 DIA.
20 HOLES
.307
.317 DIA.
3 HOLES

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THK. PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007005	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.D. Midgley 13 May '65
CHECKED Bondfrido 28 May 65
APPROVED E.J. Sivolgh 28 May 65
APPROVED [illegible] 6/1/65
APPROVED MIT [illegible] 6-2-65
APPROVED MSC W J [illegible] 6-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD BOTTOM
PULSE TORQUE
ISOLATION TRANSFORMER

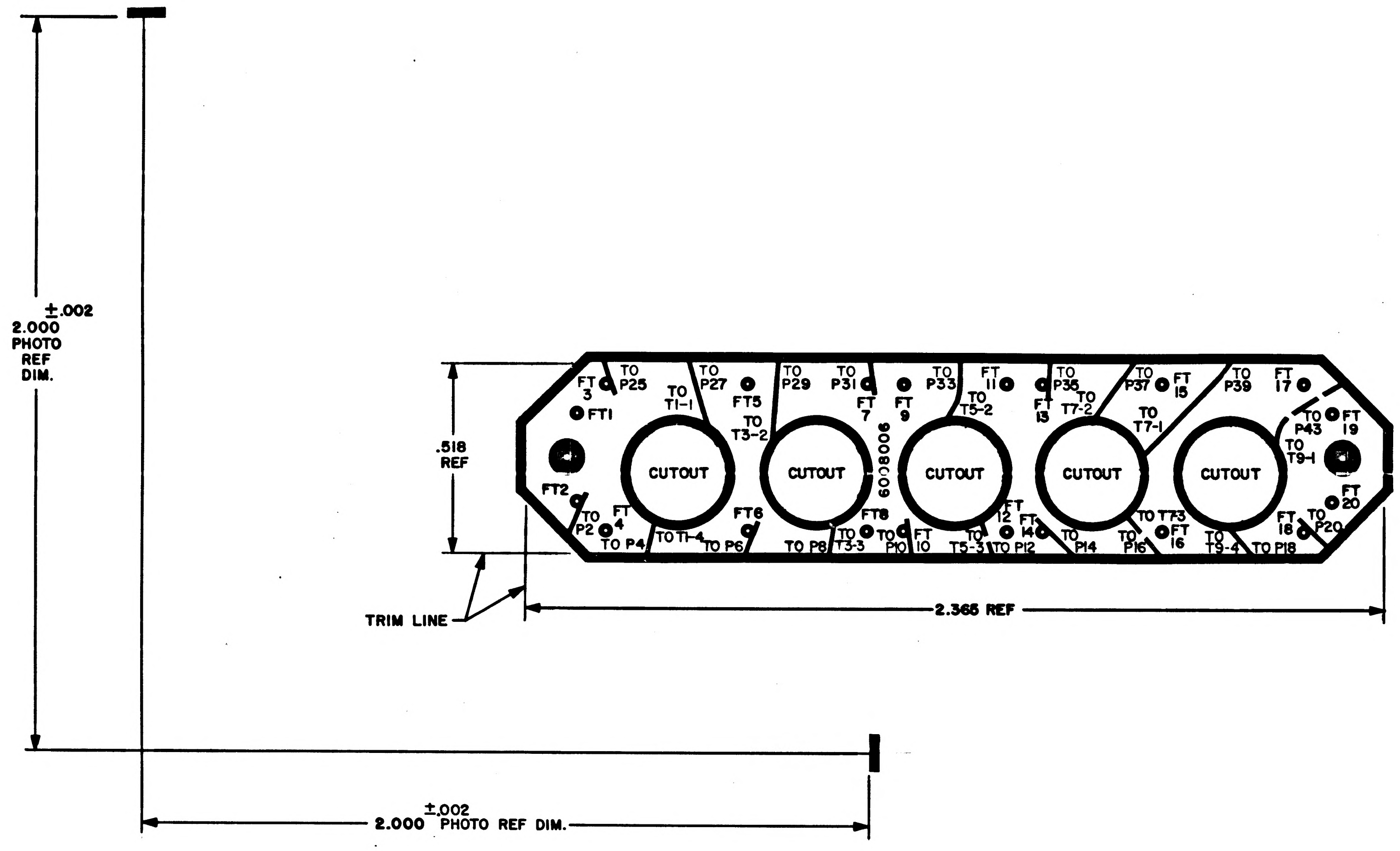
CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008004

SCALE 5/1
SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 19772

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



±.002
2.000
PHOTO
REF
DIM.
.518
REF
TRIM LINE
2.365 REF
±.002
2.000 PHOTO REF DIM.
CUTOUT
CUTOUT
CUTOUT
CUTOUT
CUTOUT
6008006
FT 3
TO P25
FT1
TO T1-1
TO P27
FT5
TO T3-2
TO P29
TO P31
FT 7
FT 9
TO P33
TO T5-2
FT 11
FT 13
TO P35
TO T7-2
TO P37
FT 15
TO T7-1
TO P39
FT 17
TO P43
FT 19
TO T9-1
FT 20
FT2
TO P2
FT 4
TO P4
TO T1-4
TO P6
FT6
TO P8
TO T3-3
FT8
TO P10
FT 10
TO T5-3
FT 12
TO P12
FT 14
TO P14
TO T7-3
TO P16
FT 16
TO T9-4
TO P18
FT 18
TO P20

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Elsa G. Gross 11 May 65
CHECKED Bonarrigo 28 May 65
APPROVED E.J. Sidlak 28 May 65
APPROVED 6/1/65
APPROVED MIT M.S. Manley 6-2-65
APPROVED MSC W.J. 6-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD, TOP
PULSE TORQUE ISOLATION TRANSFORMER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008005
SCALE 5/1
SHEET 1 OF 1

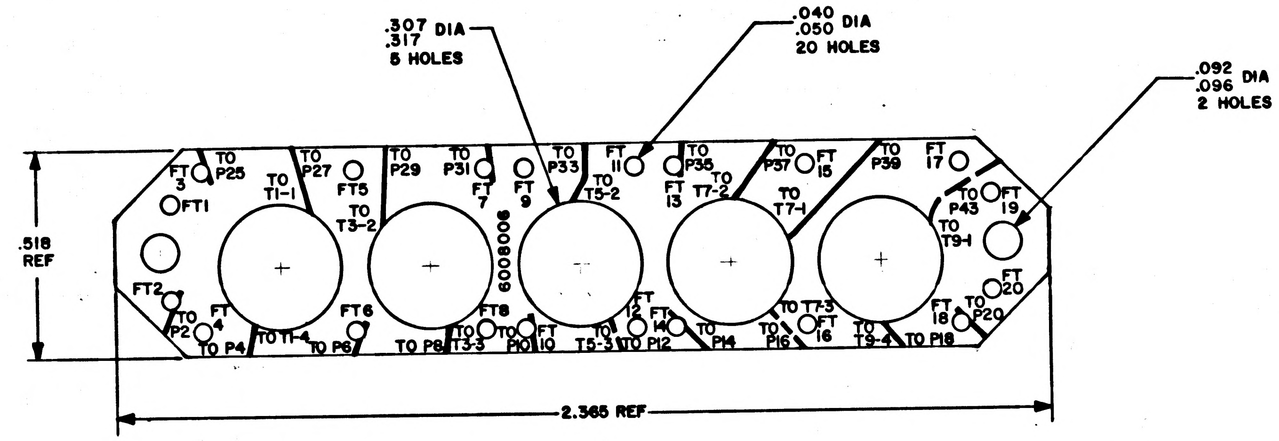
6008005

8 7 6 5 4 3 2 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 19772

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


.307 DIA
.317
5 HOLES
.040
.050 DIA
20 HOLES
.092
.096 DIA
2 HOLES
.518 REF
2.365 REF
6008006
FT 3
TO P25
TO P27
TO T1-1
FT1
FT5
TO T3-2
TO P29
TO P31
FT 7
FT 9
TO P33
TO T5-2
FT 11
TO P35
FT 13
TO T7-2
TO P37
FT 15
TO T7-1
TO P39
FT 17
TO P43
FT 19
TO T9-1
FT 20
FT2
TO P2
FT 4
TO P4
TO T1-4
TO P6
FT6
TO P8
TO T3-3
FT8
TO P10
FT 10
TO T5-3
TO P12
FT 12
FT 14
TO P14
TO P16
TO T7-3
FT 16
TO T9-4
TO P18
FT 18
TO P20

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

REF DRAWING:
6008005 PHOTOGRAPHIC MASTER

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007005	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Edw G. Gross 18 MAY 65
CHECKED Bongarrigo 29 MAY 65
APPROVED 28 MAY 65
APPROVED 6/1/65
APPROVED MIT 6-2-65
APPROVED MSC 6-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD, TOP
PULSE TORQUE ISOLATION TRANSFORMER

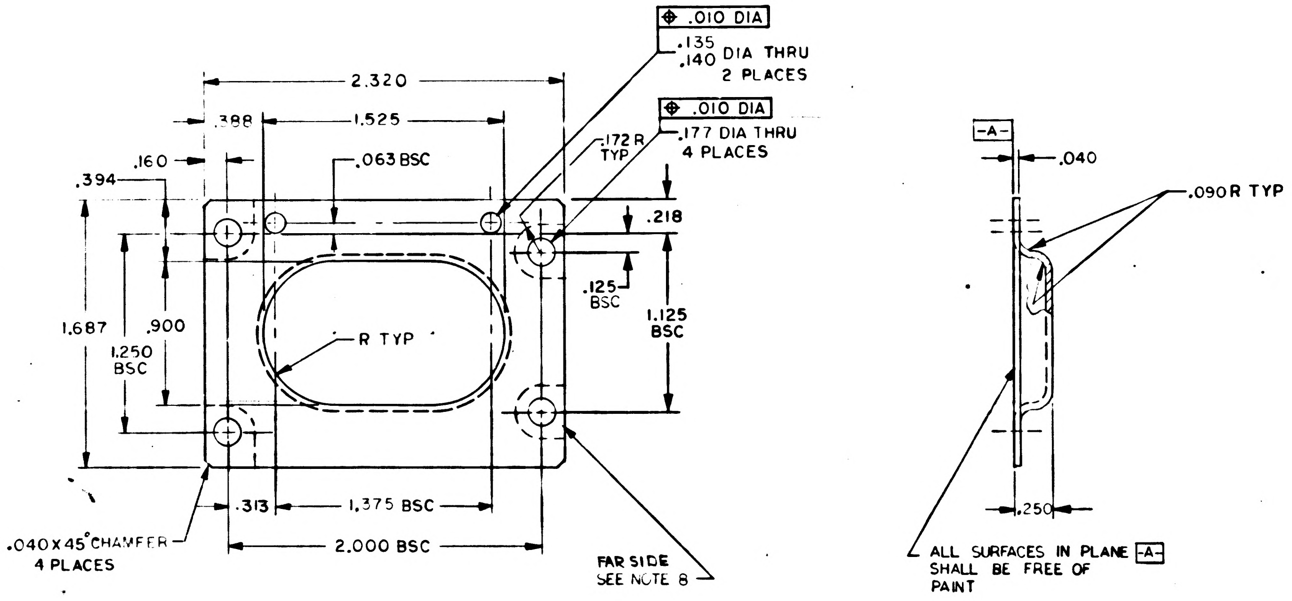
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008006
SCALE 5/1
SHEET 1 OF 1

8 7 6 5 4 3 2 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 23934

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR28666	M.G	P7	13-MAY 66	


⌖ .010 DIA
.135
.140 DIA THRU
2 PLACES
⌖ .010 DIA
.177 DIA THRU
4 PLACES
2.320
.388
1.525
.172 R
TYP
.160
.063 BSC
.394
.218
.125
BSC
1.125
BSC
1.687
.900
1.250
BSC
R TYP
.313
1.375 BSC
2.000 BSC
.040 X 45° CHAMFER
4 PLACES
FAR SIDE
SEE NOTE 8
-A-
.040
.090 R TYP
.250
ALL SURFACES IN PLANE -A-
SHALL BE FREE OF
PAINT

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: MAGNESIUM AZ 31B-H24 PER QQ-M-44
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
5. FINISH ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
6. IDENTIFY WITH PART NO. PER ND1002019
7. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -A- PER ND1002289 UNLESS OTHERWISE SPECIFIED
8. AREAS SHOWN SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN J.C. Taylor 25 MAY 65
CHECKED 29 JUL 65
APPROVED 22 OCT 65
APPROVED
APPROVED MIT W Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

JUNCTION COVER TEST
PTA LEM

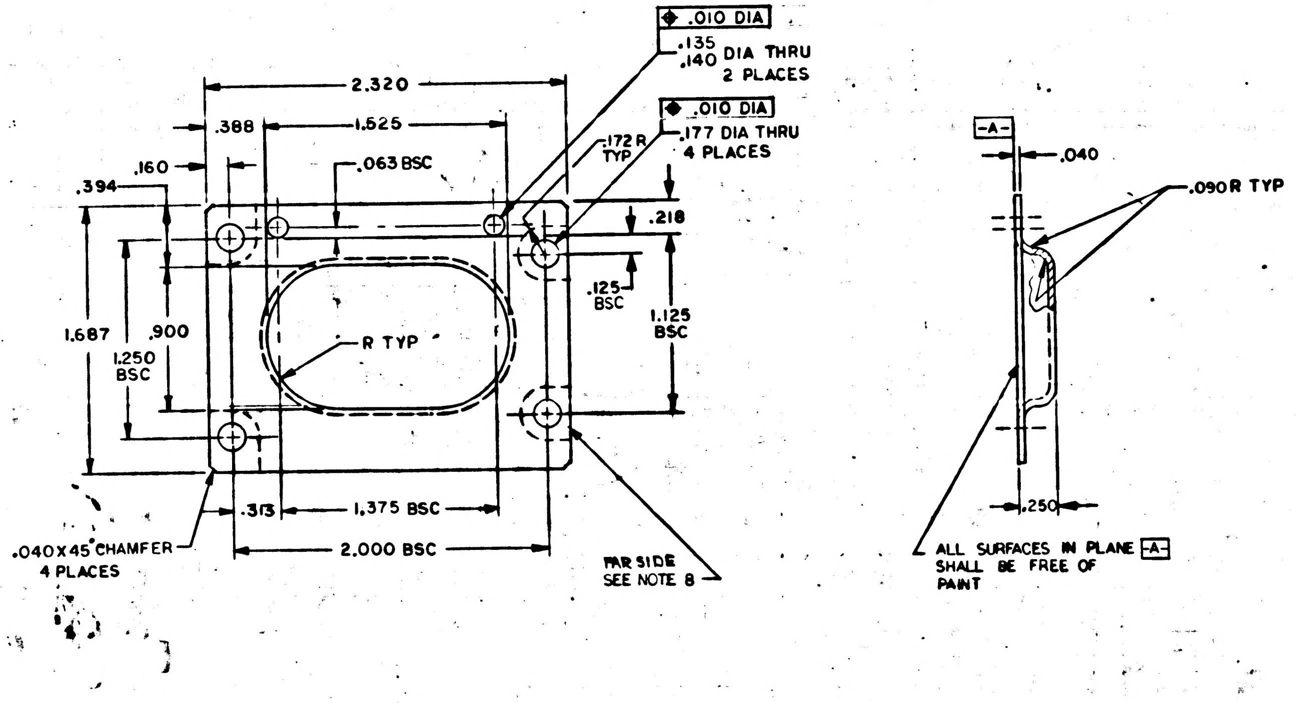
CODE IDENT NO 80230
SIZE D
DRAWING NO. 6008010
SCALE 2/1
SHEET 1 OF 1

6008010 A

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 23934

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
Ⓜ A		REVISED PER TDRR 28666	M.G	07	13-MAY 66	
B		REVISED PER TDRR 31190	EC	RUW	30 SEP 66	



◆ .010 DIA
.135 / .140 DIA THRU 2 PLACES
◆ .010 DIA
.177 DIA THRU 4 PLACES
.172 R TYP
2.320
.388
1.525
.160
.063 BSC
.394
.218
.125 BSC
1.125 BSC
1.687
.900
1.250 BSC
R TYP
.313
1.375 BSC
2.000 BSC
.040 X 45° CHAMFER 4 PLACES
FAR SIDE SEE NOTE 8
-A-
.040
.090 R TYP
.250
ALL SURFACES IN PLANE -A- SHALL BE FREE OF PAINT

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: MAGNESIUM AZ 31B-H24 PER QQ-M-44
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
5. FINISH ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
6. IDENTIFY WITH PART NO. PER ND1002019
7. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -A- PER ND1002289 TYPE II UNLESS OTHERWISE SPECIFIED.
8. AREAS SHOWN SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.C. Taylor 25 MAY 65
CHECKED 23 JUN 65
APPROVED 22 OCT 65
APPROVED
APPROVED MIT W. Kupfer
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

JUNCTION COVER TEST
PTA LEM

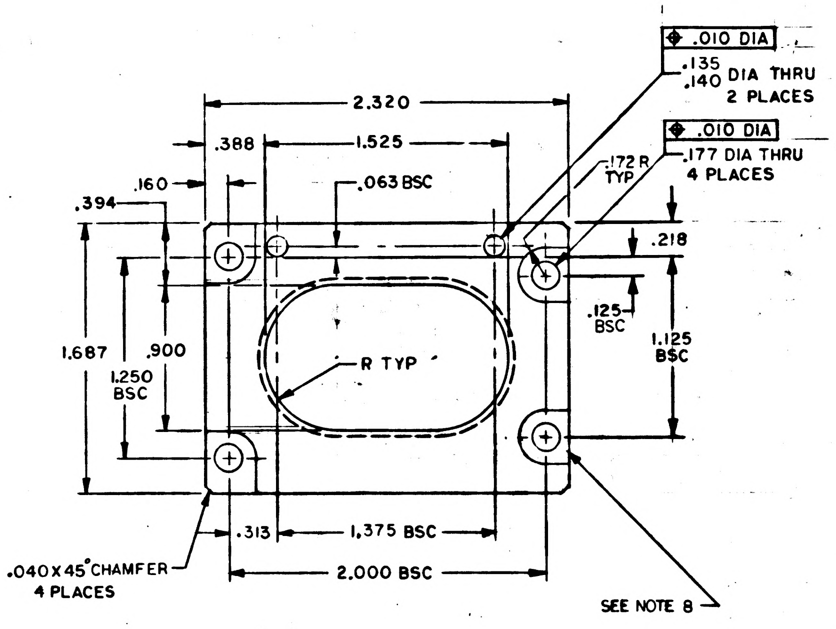
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008010
SCALE 2/1
SHEET 1 OF 1

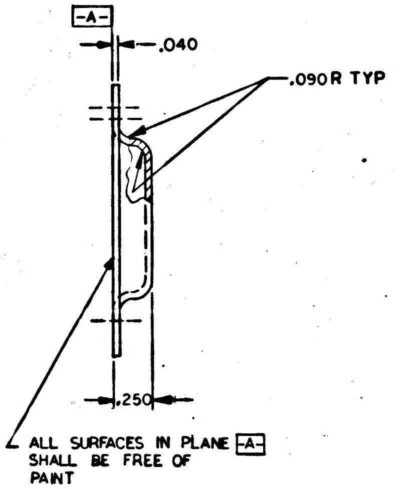
6008010 B

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 23934

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


.010 DIA
.135
.140 DIA THRU
2 PLACES
.010 DIA
.177 DIA THRU
4 PLACES
2.320
.388
1.525
.160
.394
.063 BSC
.172 R
TYP
.218
.125
BSC
1.125
BSC
1.687
.900
1.250
BSC
R TYP
.313
1.375 BSC
2.000 BSC
.040X45° CHAMFER
4 PLACES
SEE NOTE 8


-A-
.040
.090R TYP
.250
ALL SURFACES IN PLANE -A-
SHALL BE FREE OF
PAINT

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATL: MAGNESIUM AZ31B-H24 PER QQ-M-44
3. REMOVE BURRS AND SHARP EDGES .005/.015
4. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
5. FINISH ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
6. IDENTIFY WITH PART NO. PER ND1002019
7. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -A- PER ND UNLESS OTHERWISE SPECIFIED
8. AREAS SHOWN SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R.C. Taylor 25 Mar 65
CHECKED [illegible] 29 Mar 65
APPROVED T.G. Kawamoto 22 Mar 65
APPROVED [illegible] 2 Jun 65
APPROVED MIT W Kupfer 9 Jun 65
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

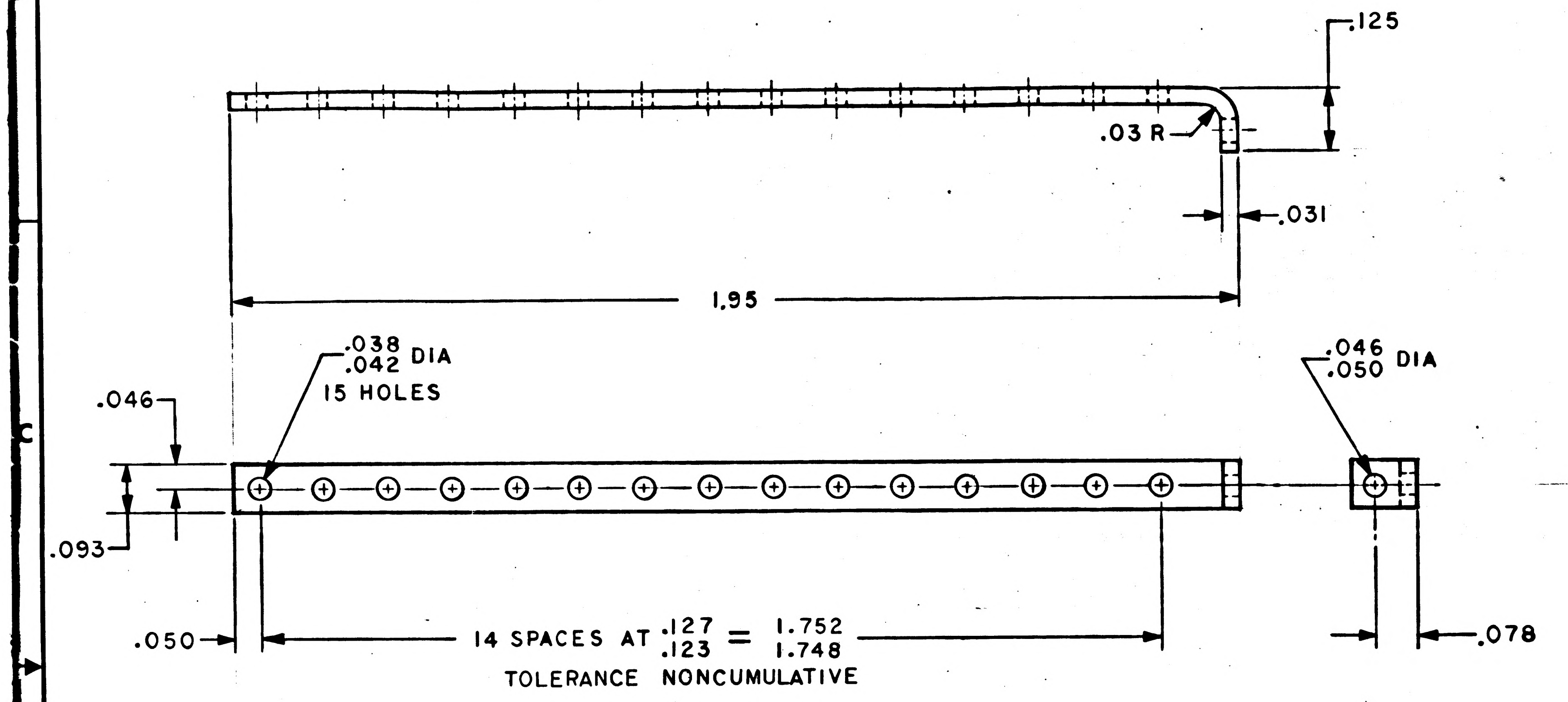
JUNCTION COVER TEST
PTA.LEM

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008010
SCALE 2/1
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20420

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 23333		EPK	25OCT65	



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: ETP OR OF COPPER PER QQ-C-576
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
4. ALL SURFACES 125∕
5. REMOVE BURRS AND SHARP EDGES .005/.015

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007113	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .02, XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

		DATE
DRAWN	Sam J. DeSalvo	4 June '65
CHECKED	C.A. Pysta	24 JUN 65
APPROVED	E.J. Sudak	24 JUN 65
APPROVED	D.A. [illegible]	6/25/65
APPROVED MIT	W Kupfer	25 Jun 65
APPROVED MSC	[illegible]	6-28-65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

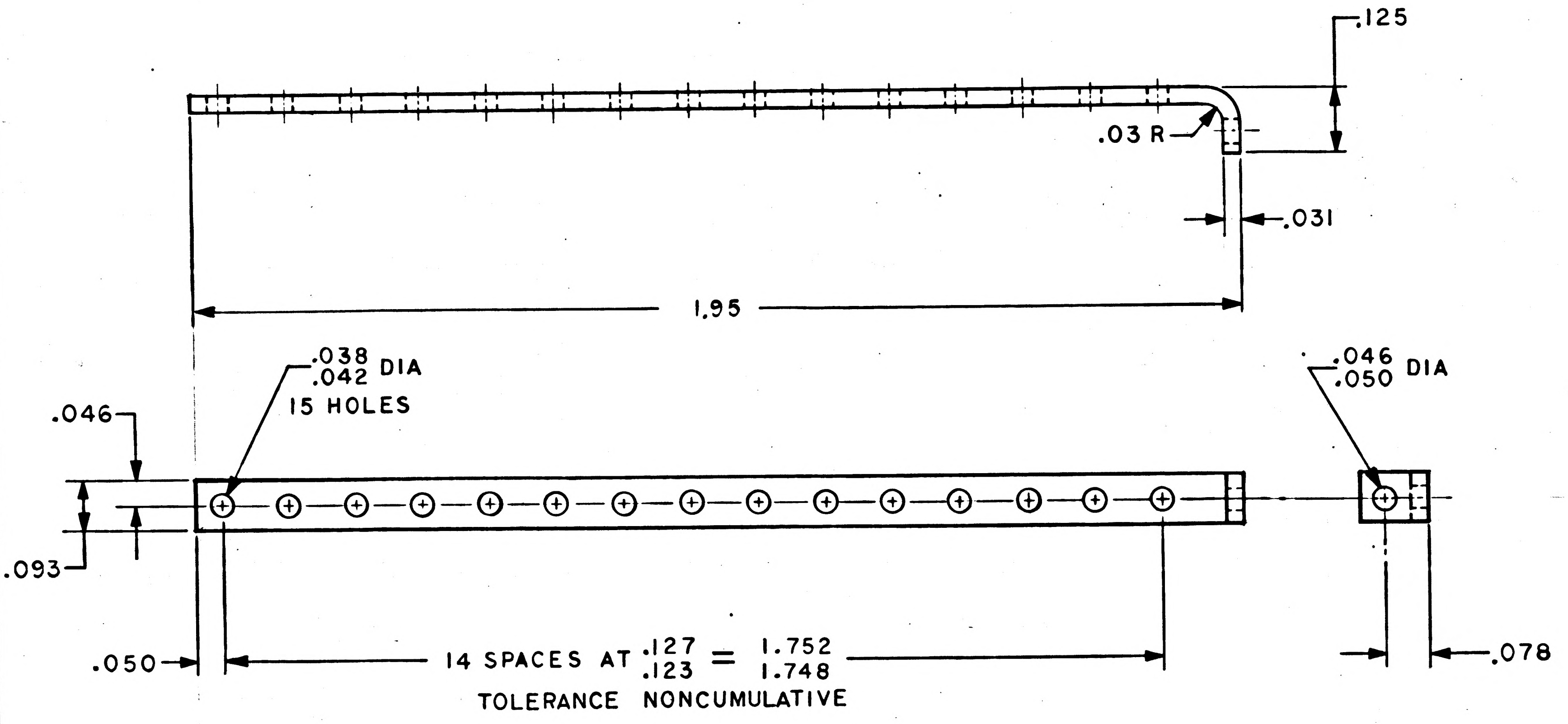
BUS BAR, SINGLE LUG
G & N MODULE

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6008016
SCALE 5/1		SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 20420

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: COPPER PER QQ-B-825, TYPE I, CLASS I
3. IDENTIFY WITH DRAWING NO. AND REVISION PER ND1002019
4. ALL SURFACES 125/
5. REMOVE BURRS AND SHARP EDGES .005/.015

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007113	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .02 XXX ± .005 ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

		DATE
DRAWN	Sam J. DeSalvo	4 June '65
CHECKED	C.A. Pyestia	24 JUN 65
APPROVED	E.J. Susolak	24 JUN 65
APPROVED	D.G. Hoag	6/25/65
APPROVED MIT	W Kupfer	28 Jun 65
APPROVED MSC	W J Rhine	6-28-65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

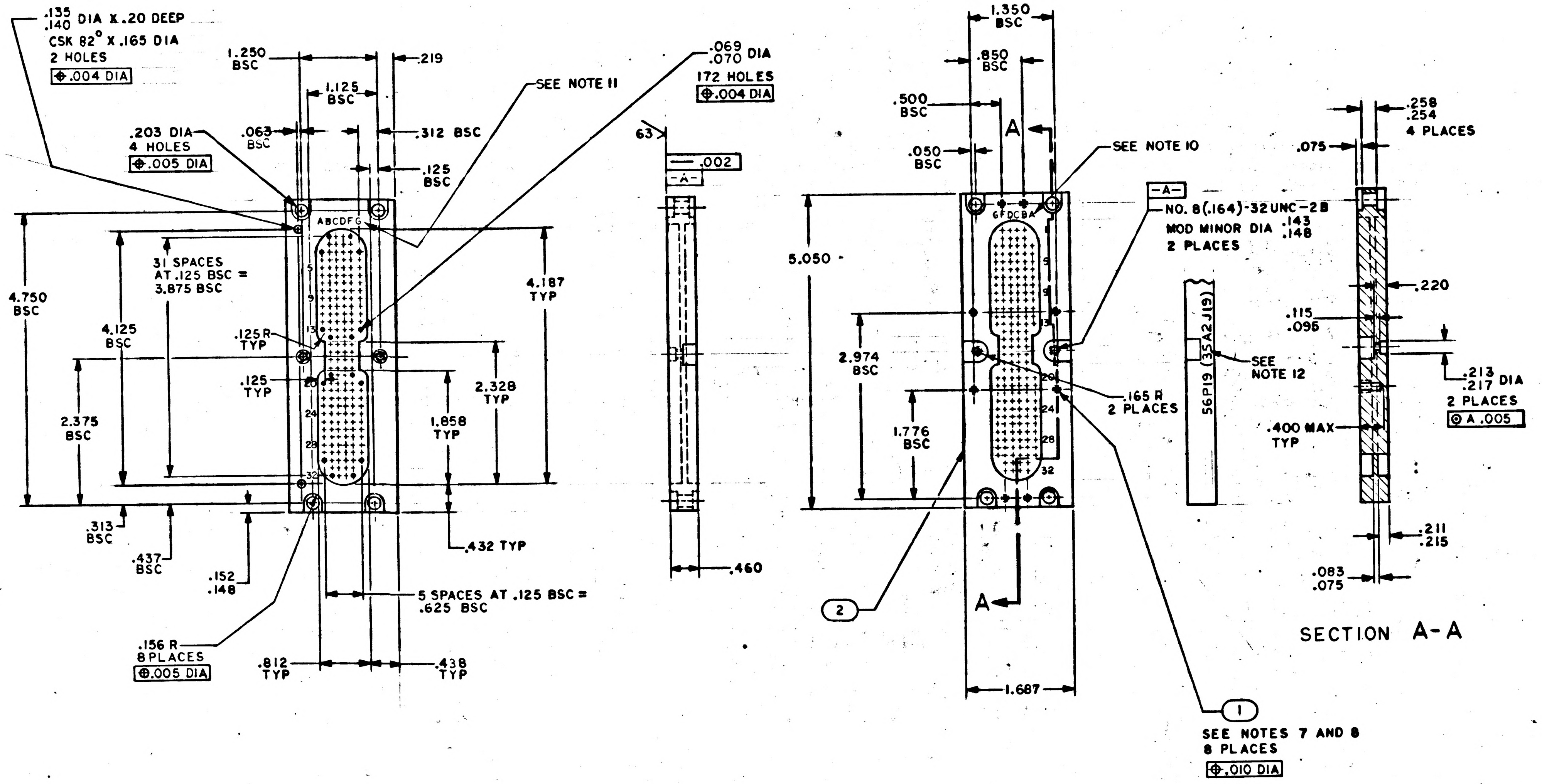
BUS BAR, SINGLE LUG
G & N MODULE

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6008016
SCALE 5/1
SHEET 1 OF 1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22801

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 23940			10 Nov '65	UK



.135/.140 DIA X .20 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕ .004 DIA
1.250 BSC
.219
1.125 BSC
SEE NOTE 11
.069/.070 DIA
172 HOLES
⊕ .004 DIA
.203 DIA
4 HOLES
⊕ .005 DIA
.063 BSC
.312 BSC
.125 BSC
ABCDFG
4.750 BSC
31 SPACES AT .125 BSC = 3.875 BSC
4.125 BSC
4.187 TYP
.125 R TYP
.125 TYP
2.328 TYP
2.375 BSC
1.858 TYP
5
9
13
20
24
28
32
.313 BSC
.437 BSC
.152/.148
.432 TYP
5 SPACES AT .125 BSC = .625 BSC
.156 R
8 PLACES
⊕ .005 DIA
.812 TYP
.438 TYP
63
.002
-A-
.460
1.350 BSC
.850 BSC
.500 BSC
.050 BSC
A
SEE NOTE 10
GFDCBA
-A-
NO. 8 (.164)-32 UNC-2B
MOD MINOR DIA .143/.148
2 PLACES
5.050
2.974 BSC
1.776 BSC
.165 R
2 PLACES
56P19 (35A2J19)
SEE NOTE 12
2
1.687
A
1
SEE NOTES 7 AND 8
8 PLACES
⊕ .010 DIA
.258/.254
4 PLACES
.075
.220
.115/.095
.213/.217 DIA
2 PLACES
⊚ A .005
.400 MAX TYP
.211/.215
.083/.075
SECTION A-A

NOTES :

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NO. 1 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. 1 WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A- DO NOT APPLY PROTECTIVE COATING
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. 1 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 1, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 1 AS FINAL STEP IN CLEANING OF FIND NO. 1 THREADS

MASTER

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008024-001	CONNECTOR BASE	2
8	1010957-008	INSERT, SCREW THREAD, SELF LOCKING	1

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —
DECIMALS XX ±.01 XXX ±.005
ANGLES ± 2
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN		22 Jun
CHECKED		
APPROVED		
APPROVED	D.B.	9/27/65
APPROVED MIT	W. Capper	29/9/65
APPROVED MSC	NOT REQUIRED PER LETTER PP7-65-612	DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008024

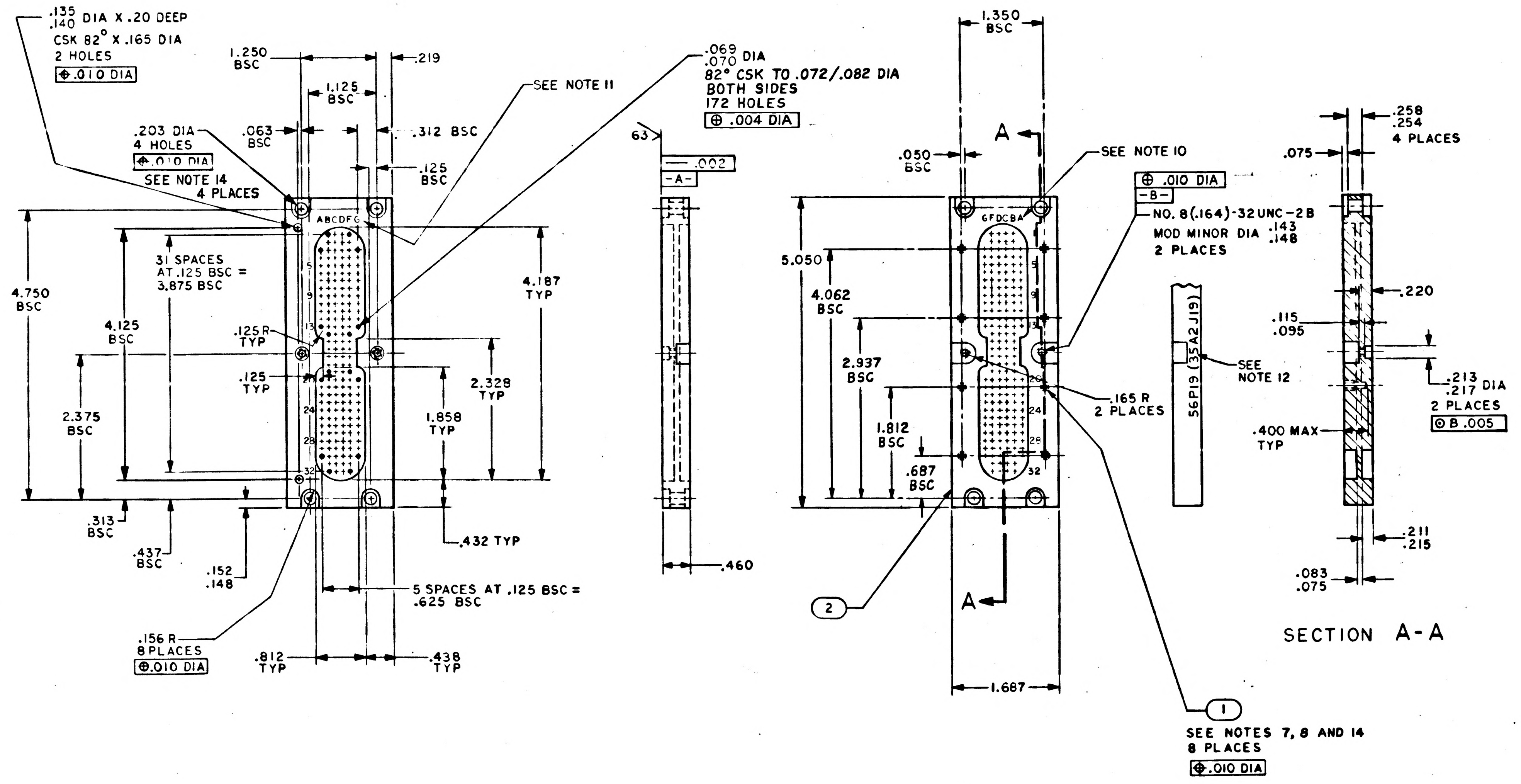
SCALE 1/1 SHEET 1 OF 1

6008024 A

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22801

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 23940			'65	WR
B		REVISED PER TDRR 25047	B.		25-MAR-66	


.135
.140 DIA X .20 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕ .010 DIA
1.250 BSC
1.125 BSC
.219
.063 BSC
.312 BSC
.125 BSC
.203 DIA
4 HOLES
⊕ .010 DIA
SEE NOTE 14
4 PLACES
SEE NOTE 11
.069
.070 DIA
82° CSK TO .072/.082 DIA
BOTH SIDES
172 HOLES
⊕ .004 DIA
ABCDFG
1
5
9
13
20
24
28
32
31 SPACES
AT .125 BSC =
3.875 BSC
4.750 BSC
4.125 BSC
2.375 BSC
.125 R TYP
.125 TYP
4.187 TYP
2.328 TYP
1.858 TYP
.432 TYP
.313 BSC
.437 BSC
.152
.148
5 SPACES AT .125 BSC =
.625 BSC
.156 R
8 PLACES
⊕ .010 DIA
.812 TYP
.438 TYP
63
.002
-A-
.460
1.350 BSC
A
.050 BSC
SEE NOTE 10
⊕ .010 DIA
-B-
NO. 8 (.164)-32 UNC-2B
MOD MINOR DIA .143
.148
2 PLACES
GFDCBA
5.050
4.062 BSC
2.937 BSC
1.812 BSC
.687 BSC
.165 R
2 PLACES
2
A
1.687
1
SEE NOTES 7, 8 AND 14
8 PLACES
⊕ .010 DIA
56P19 (35A2J19)
SEE NOTE 12
.258
.254
4 PLACES
.075
.220
.115
.095
.213
.217 DIA
2 PLACES
◎ B .005
.400 MAX
TYP
.211
.215
.083
.075
SECTION A-A

NOTES :

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44.
3. ALL SURFACES $\sqrt{125}$ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C. UNLESS OTHERWISE SPECIFIED.
7. COAT THREADS OF FIND NO. 1 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. 1 WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A- DO NOT APPLY PROTECTIVE COATING
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. 1 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 1, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 1 AS FINAL STEP IN CLEANING OF FIND NO. 1 THREADS
14. INDICATED AREAS TO BE FREE OF ANODIZE. IRIDITE PER ND1002040. DO NOT EPOXY COAT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008024-001	CONNECTOR BASE	2
8	1010957-008	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6014535	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ±.01 XXX ±.005 ANGLES ± 2
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED 9/27/65
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

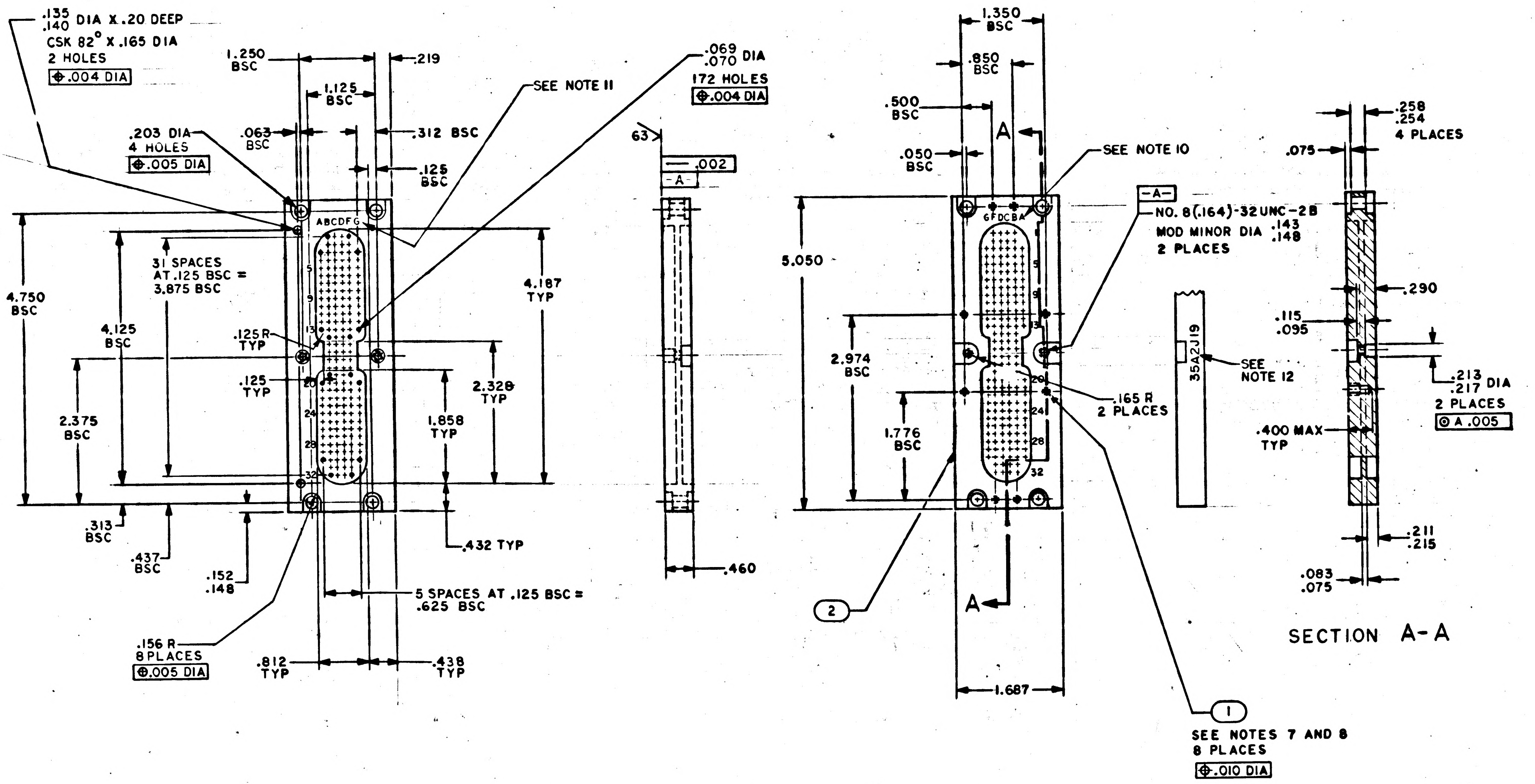
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008024
SCALE 1/1
SHEET 1 OF 1

6008024 B

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22801

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


.135 .140 DIA X .20 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕ .004 DIA
1.250 BSC
.219
1.125 BSC
SEE NOTE 11
.069 .070 DIA
172 HOLES
⊕ .004 DIA
.203 DIA
4 HOLES
⊕ .005 DIA
.063 BSC
.312 BSC
.125 BSC
63
.002
-A-
ABCDFG
31 SPACES AT .125 BSC = 3.875 BSC
4.750 BSC
4.125 BSC
4.187 TYP
.125 R TYP
.125 TYP
2.328 TYP
1.858 TYP
2.375 BSC
5
9
13
20
24
28
32
.313 BSC
.437 BSC
.152 .148
.432 TYP
.460
5 SPACES AT .125 BSC = .625 BSC
.156 R
8 PLACES
⊕ .005 DIA
.812 TYP
.438 TYP
1.350 BSC
.850 BSC
.500 BSC
.050 BSC
A
SEE NOTE 10
-A-
NO. 8(.164)-32 UNC-2B
MOD MINOR DIA .143 .148
2 PLACES
5.050
GFDCBA
2.974 BSC
1.776 BSC
.165 R
2 PLACES
35A2J19
SEE NOTE 12
2
A
1.687
1
SEE NOTES 7 AND 8
8 PLACES
⊕ .010 DIA
.258 .254
4 PLACES
.075
.290
.115 .095
.213 .217 DIA
2 PLACES
◎ A .005
.400 MAX TYP
.211 .215
.083 .075

SECTION A-A

NOTES :

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6-AL PER QQ-A-250/11, TEMP 6
3. ALL SURFACES $^{125}\surd$ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. COAT THREADS OF FIND NO. 1 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. 1 WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A-
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. 1 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 1, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 1 AS FINAL STEP IN CLEANING OF FIND NO. 1 THREADS

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008024-001	CONNECTOR BASE	2
8	MS21209-C0415	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .01 XXX ± .005 ANGLES ± 2
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

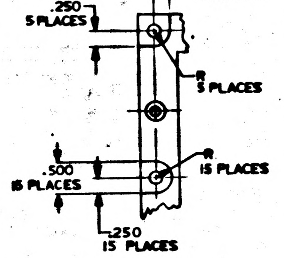
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN [illegible] 22 Jun 65
CHECKED [illegible] 23 Jun 65
APPROVED
APPROVED [illegible] 7/27/65
APPROVED MIT W Capler 2/9/65
NOT REQUIRED PER LETTER
APPROVED MSC BP27-65-612
DATE

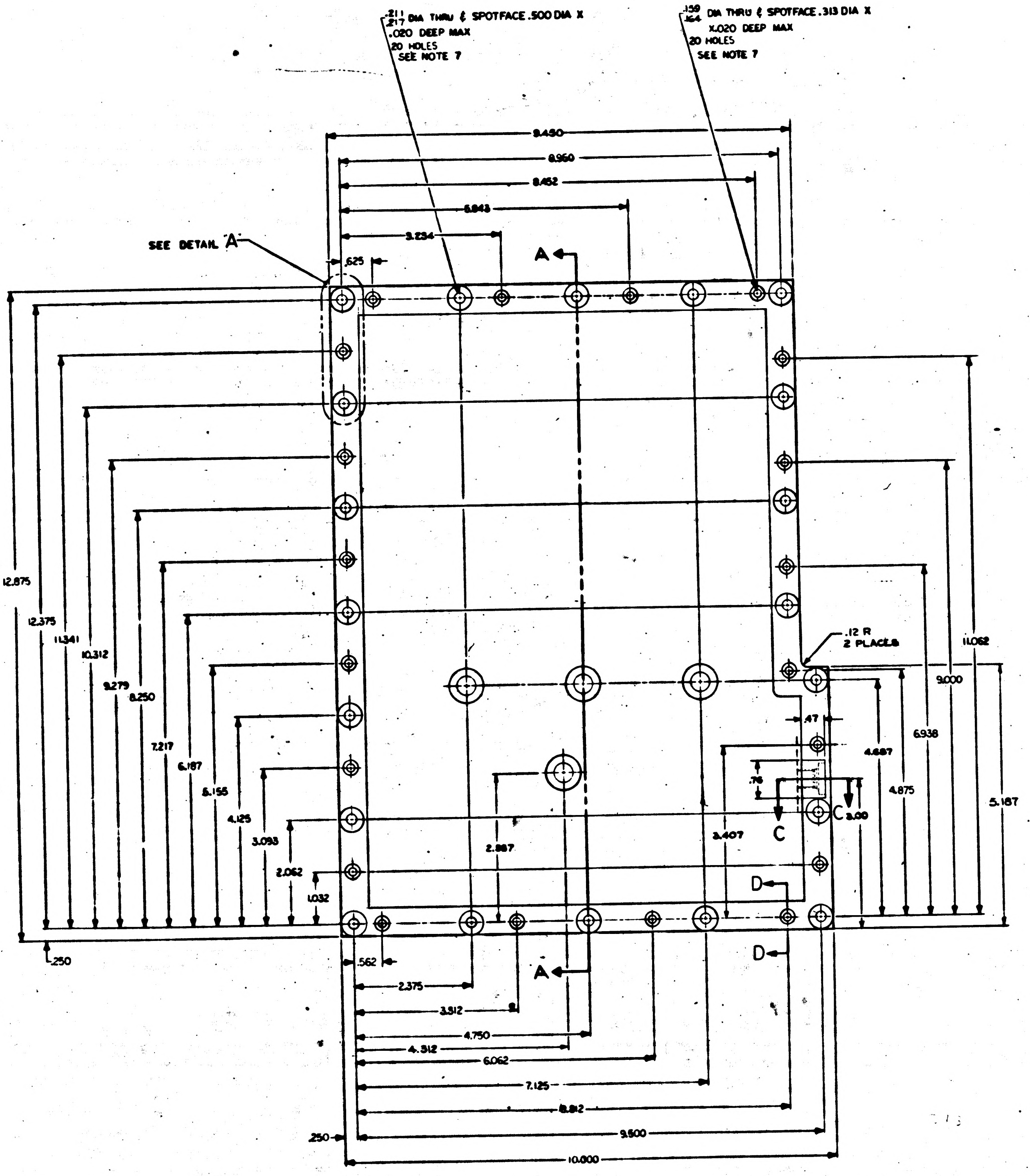
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

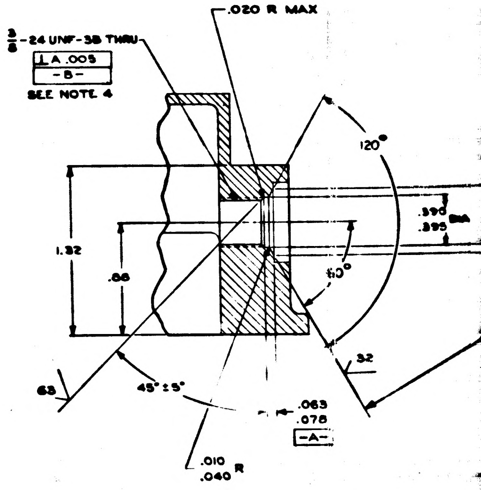
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008024
SCALE 1/1
SHEET 1 OF 1


.250
5 PLACES
.250
5 PLACES
R
5 PLACES
.500
15 PLACES
R
15 PLACES
.250
15 PLACES

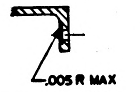
DETAIL A
OPTIONAL


.211
.217 DIA THRU & SPOTFACE .500 DIA X
.020 DEEP MAX
20 HOLES
SEE NOTE 7
.159
.164 DIA THRU & SPOTFACE .313 DIA X
X.020 DEEP MAX
20 HOLES
SEE NOTE 7
9.450
8.960
8.452
6.843
3.234
SEE DETAIL A
.625
A
A
12.875
12.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
.250
.12 R
2 PLACES
11.062
9.000
6.938
4.687
4.875
5.187
.47
.76
3.00
C
C
2.887
3.407
D
D
.562
2.375
3.512
4.750
4.312
6.062
7.125
8.812
9.500
10.000
.250

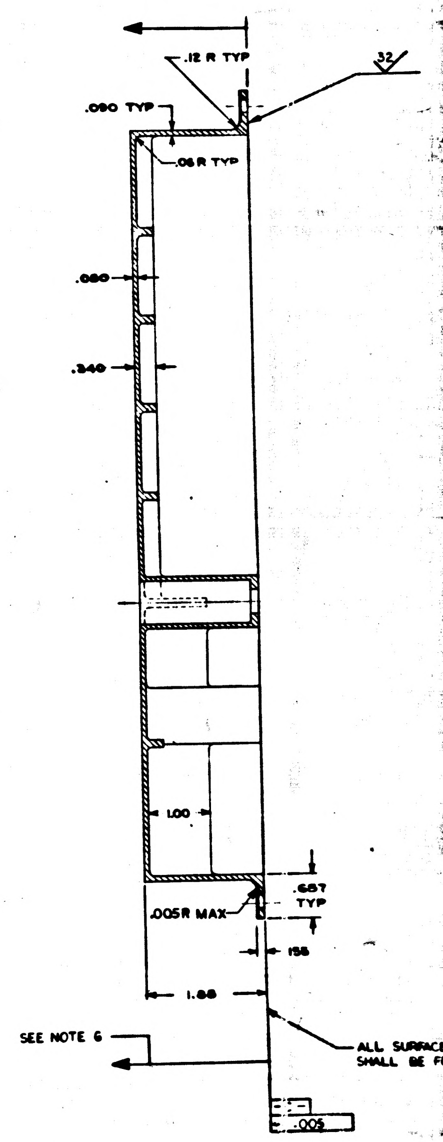
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202, TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND UNLESS OTHERWISE SPECIFIED. DETAIL C AND ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019

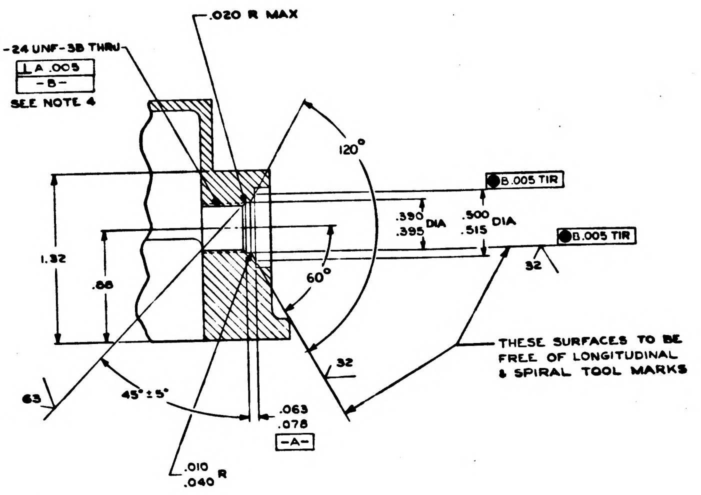

3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
.390
.395 DIA
60°
1.32
.88
63
45° ± 5°
32
.063
.078
-A-
.010
.040 R

SECTION C-C
SCALE 2/1



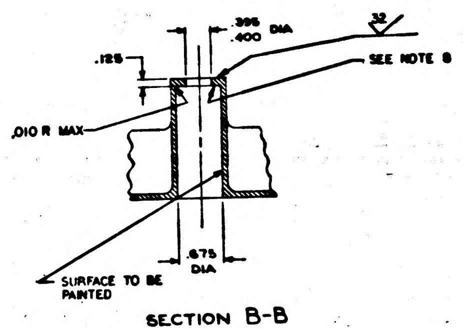
SECTION D-D


.12 R TYP
32
.090 TYP
.06R TYP
.080
.340
1.00
.687
TYP
.005R MAX
.156
1.88
SEE NOTE 6
ALL SURFACE
SHALL BE F
.005



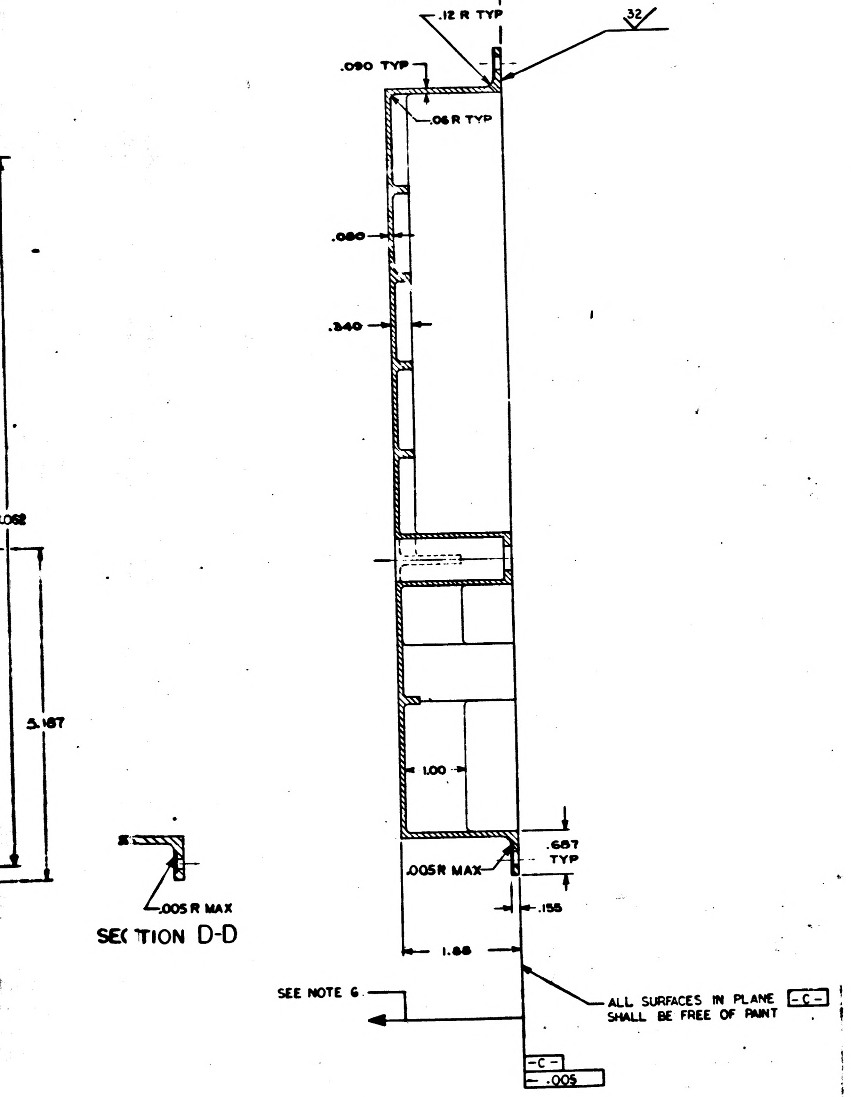
.020 R MAX
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
120°
◉ B .005 TIR
.390 .395 DIA
.500 .515 DIA
◉ B .005 TIR
32
1.32
.88
60°
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
32
63
45°±5°
.063 .078
-A-
.010 .040 R

SECTION C-C
SCALE 2/1



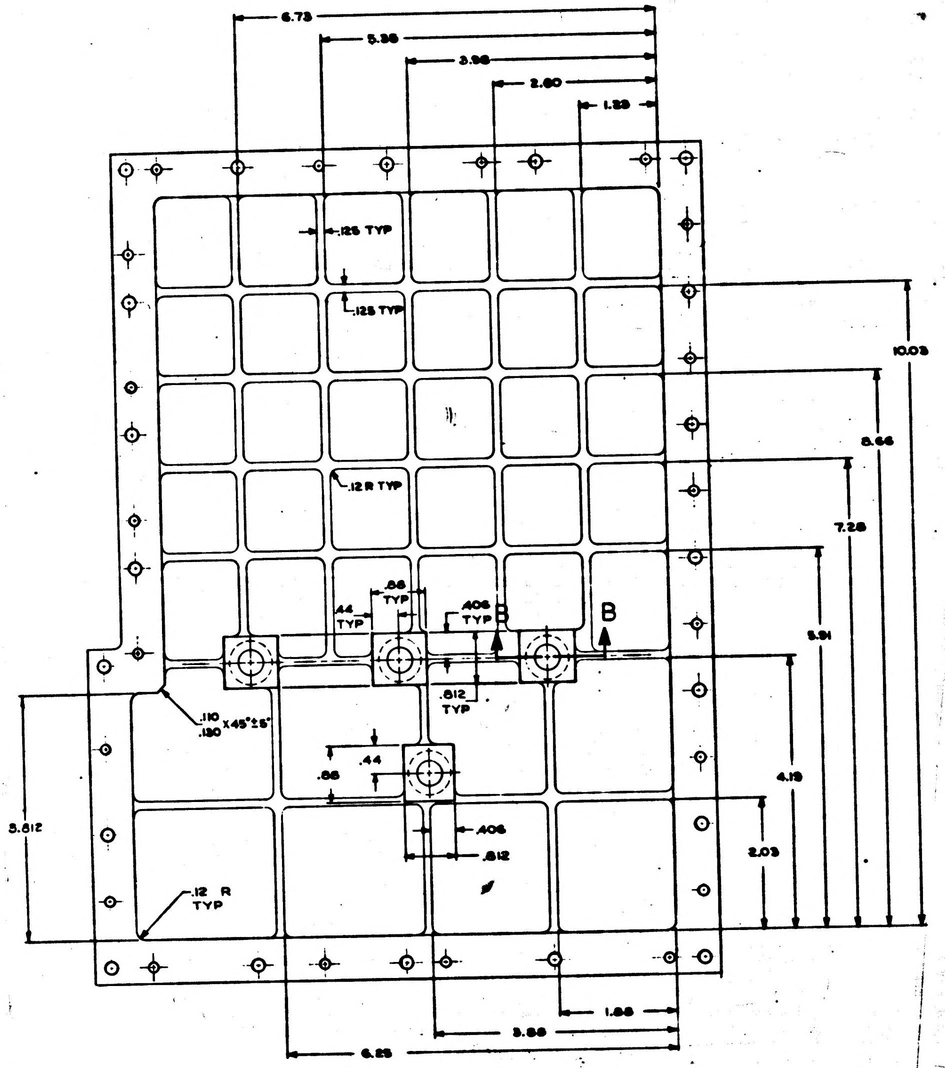
.125
.395 .400 DIA
32
SEE NOTE 8
.010 R MAX
.675 DIA
SURFACE TO BE PAINTED

SECTION B-B
TYP 4 PLACES



.12 R TYP
32
.090 TYP
.06 R TYP
.080
.340
.062
5.187
1.00
.687 TYP
.005 R MAX
.156
1.88
.005 R MAX
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
⏥ .005

SECTION D-D



6.73
5.38
3.98
2.60
1.29
.125 TYP
.125 TYP
.12 R TYP
10.03
8.66
7.28
5.91
4.19
2.03
.44 TYP
.88 TYP
.406 TYP
B
B
.812 TYP
.110 .130 X 45°±5°
.88
.44
.406
.812
5.812
.12 R TYP
1.88
3.88
6.25

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS .XX±.01 .XXX±.005 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 1
HEAT TREATMENT
FINAL FINISH
SEE NOTE 1

6008700 ...
NEXT ASSY USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN DATE
CHECKED
APPROVAL
APPROVAL 9/27/65
~~NASA APPROVAL~~ NOT REQUIRED PER LETTER
NASA PP7-65-812
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

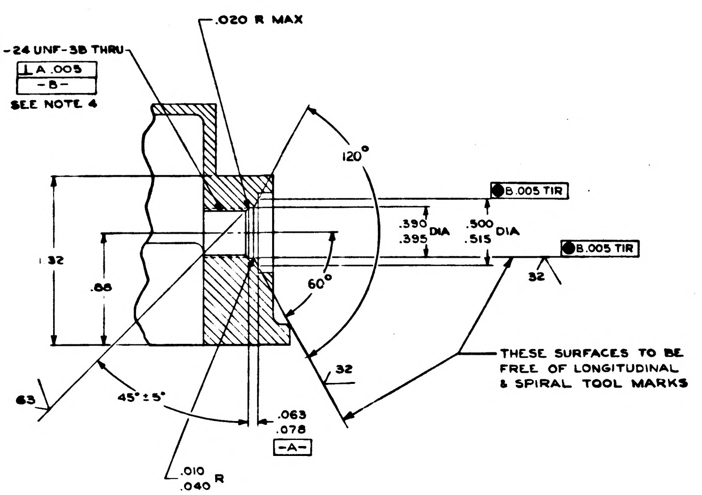
COVER
LEM PTA

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6008030
SCALE 1/1
WT
SHEET 1 OF 1

6008030

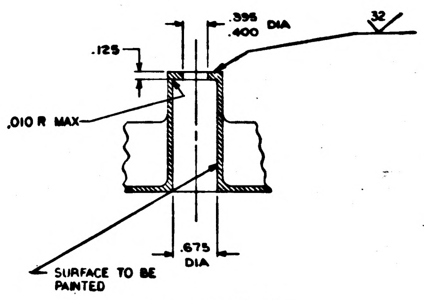
MASTER

A	REVISED PER TDRR 23051			
B	REVISED PER TORR 24563			



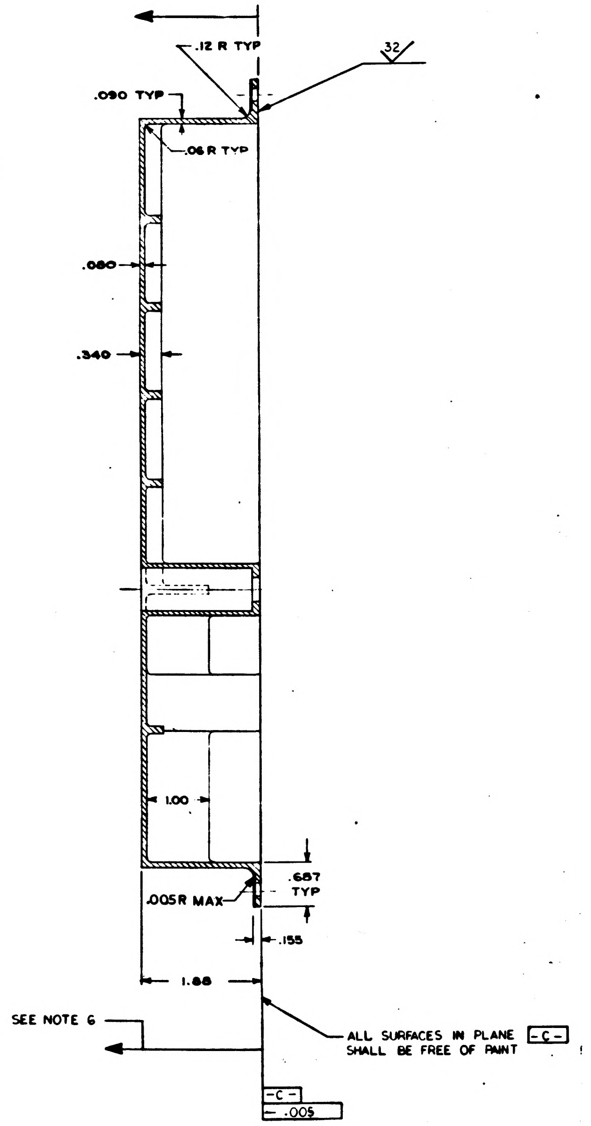
3/8 -24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
B .005 TIR
.390 .395 DIA
.500 .515 DIA
B .005 TIR
32
1.32
.88
60°
32
63
45° ± 5°
.063 .078
-A-
.010 .040 R
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS

SECTION C-C
SCALE 2/1

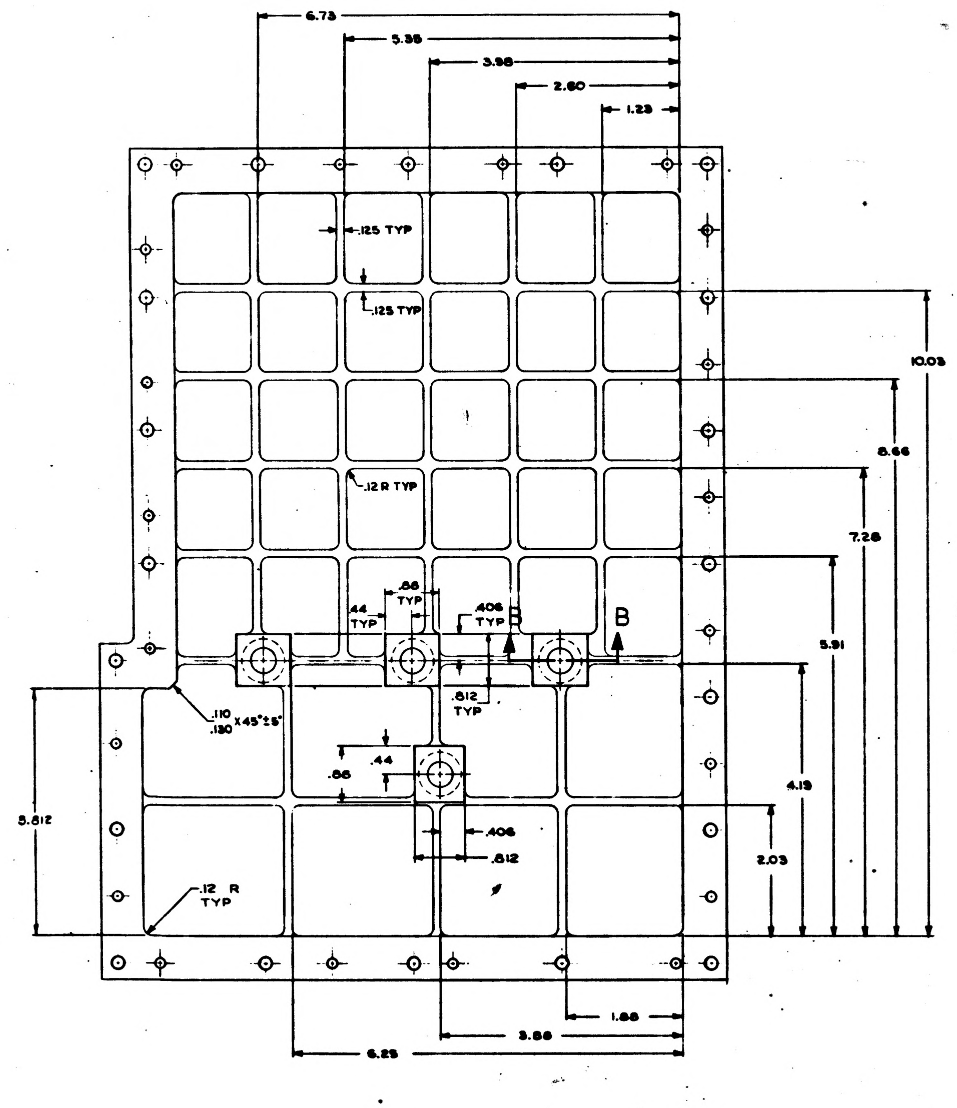


.125
.395 .400 DIA
32
.010 R MAX
.675 DIA
SURFACE TO BE PAINTED

SECTION B-B
TYP 4 PLACES



.12 R TYP
32
.090 TYP
.06 R TYP
.080
.340
1.00
.005R MAX
.687 TYP
.155
1.88
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
.005



6.73
5.35
3.98
2.60
1.23
.125 TYP
.125 TYP
10.03
8.66
.12 R TYP
7.28
5.91
.44 TYP
.88 TYP
.406 TYP
B
B
.110 .130 X45°±5°
.812 TYP
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.44
4.13
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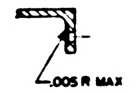
.12 R TYP
1.88
3.88
6.25



SECTION D-D

D
C
B
A

6008030 B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ±.01 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE 1
HEAT TREATMENT
FINAL FINISH
SEE NOTE 1

600700
NEXT ASSY
USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN DATE
CHECKED
APPROVAL
APPROVAL 9/27/65
NOT REQUIRED PER LETTER NASA PP7-65-812
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER
LEM PTA

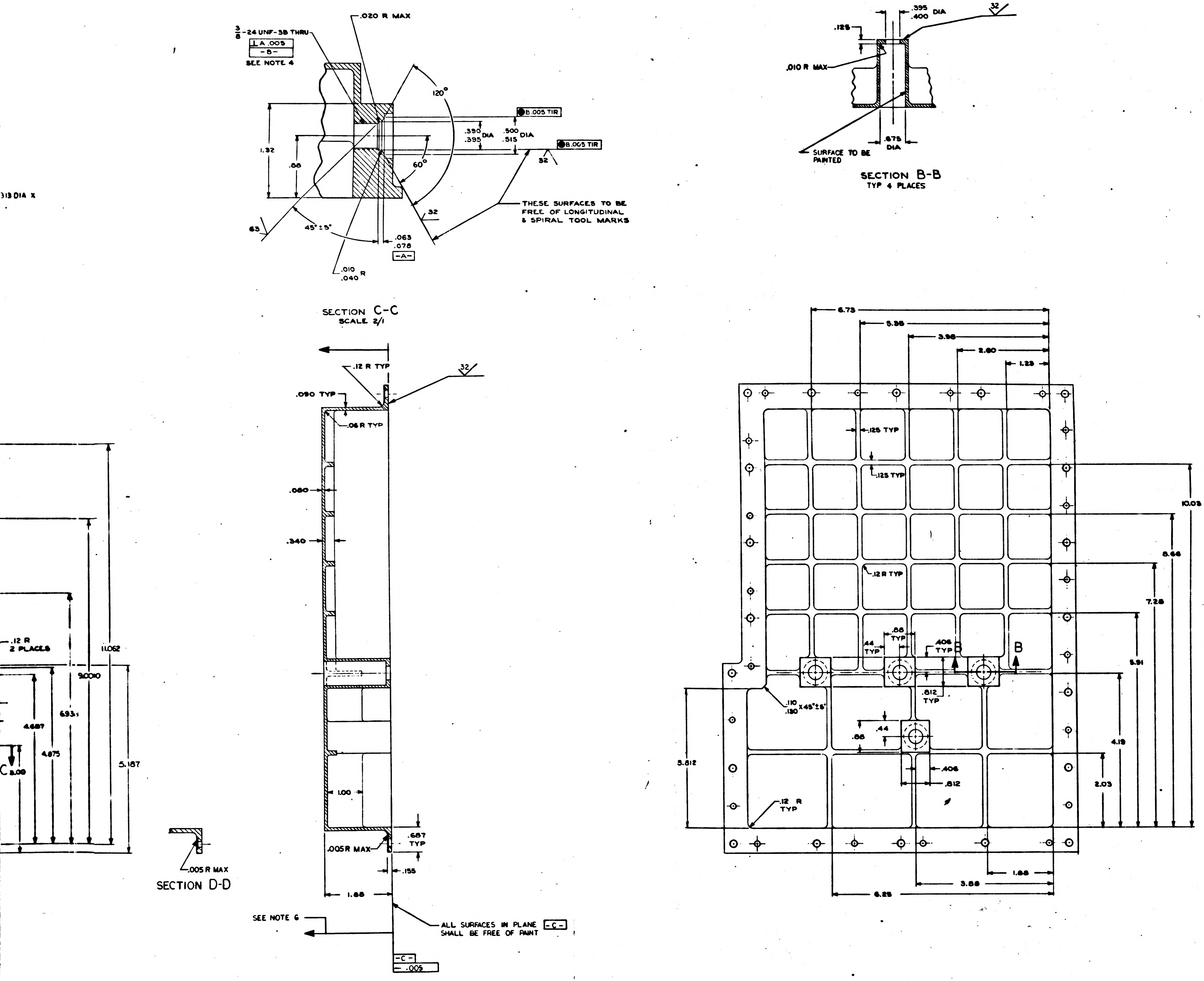
CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6008030
SCALE 1/1
WT
SHEET 1 OF 1

MASTER

E-3

6008030

A	REVISED PER TORR 23691
B	REVISED PER TORR 24563



3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
B .005 TIR
B .005 TIR
.390 .395 DIA
.500 .515 DIA
60°
32
1.32
.88
63
45° ± 5°
.063 .078
-A-
.010 .040 R
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
SECTION C-C
SCALE 2/1
.313 DIA X
.395 .400 DIA
.125
.010 R MAX
.675 DIA
SURFACE TO BE PAINTED
SECTION B-B
TYP 4 PLACES
.12 R TYP
.090 TYP
.06 R TYP
.080
.340
1.00
.005 R MAX
.687 TYP
.155
1.88
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
.005
.12 R 2 PLACES
11.062
9.0010
6.931
4.687
4.875
5.187
C 3.00
.005 R MAX
SECTION D-D
6.75
5.86
3.96
2.60
1.25
.125 TYP
.125 TYP
.12 R TYP
.44 TYP
.88 TYP
.406 TYP
B
B
.812 TYP
.110 .130 X 45° ± 5°
.44
.88
.406
.812
.12 R TYP
5.812
10.03
8.66
7.28
5.91
4.19
2.03
1.88
3.88
6.25

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 1

HEAT TREATMENT

FINAL FINISH
SEE NOTE 1

600700

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN
DATE
CHECKED
APPROVAL
APPROVAL 9/27/65

COVER
LEM PTA

NOT REQUIRED PER LETTER
NASA PP7-65-812
MIT APPROVAL

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	J	6008030

SCALE 1/1 WT SHEET OF 1

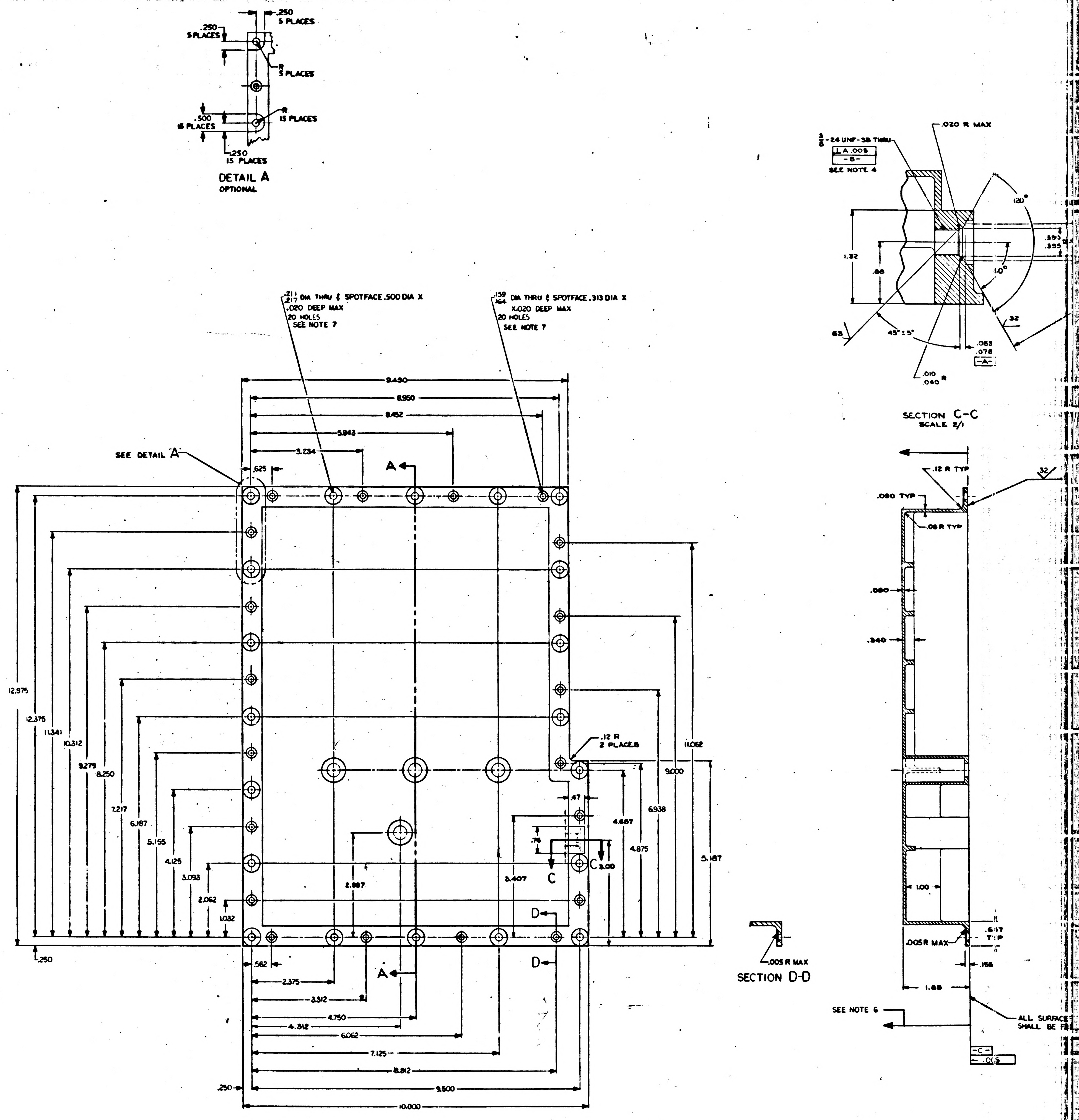
MASTER

6008030

6008030

5-2

60080310

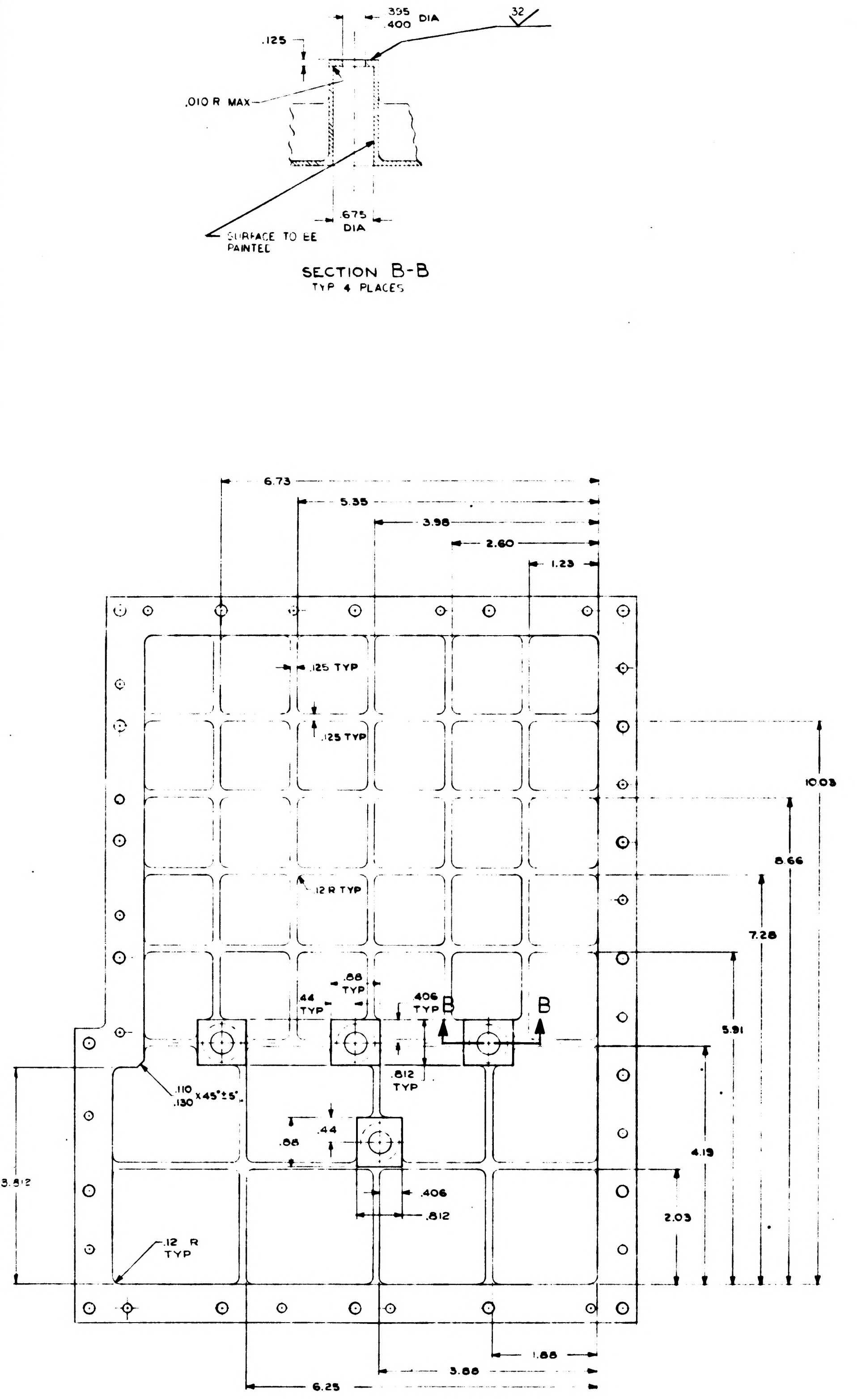

.250
5 PLACES
.250
5 PLACES
R
5 PLACES
.500
15 PLACES
R
15 PLACES
.250
15 PLACES
DETAIL A
OPTIONAL
.211 .217 DIA THRU & SPOTFACE .500 DIA X .020 DEEP MAX 20 HOLES SEE NOTE 7
.159 .164 DIA THRU & SPOTFACE .313 DIA X X.020 DEEP MAX 20 HOLES SEE NOTE 7
9.450
8.950
8.452
5.843
3.234
SEE DETAIL A
.625
A
A
12.875
12.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
.250
.12 R 2 PLACES
11.062
9.000
6.938
4.687
4.875
5.187
.47
.76
3.00
C
C
2.987
3.407
D
D
.562
2.375
3.312
4.750
4.312
6.062
7.125
8.812
9.500
10.000
.250
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
.393 .395 DIA
1.32
.88
1.0°
63
45° ± 5°
32
.063 .078
-A-
.010 .040 R
SECTION C-C
SCALE 2/1
.12 R TYP
.090 TYP
.06 R TYP
32
.080
.340
1.00
.005R MAX
.6.57 TYP
.156
1.88
SEE NOTE 6
ALL SURFACE SHALL BE FR
-C-
.015
.005 R MAX
SECTION D-D

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63/ ALL OVER
5. ANODIZE PER MIL-M-45202, TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE [-C-] PER ND UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019

F1 60080130

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 23691	5 Nov	WK
B	REVISED PER TDRR 24563		WK
C	REVISED PER TDRR 28471	9 MAY	



32
.395
.400 DIA
.125
.010 R MAX
.675 DIA
SURFACE TO BE PAINTED
SECTION B-B
TYP 4 PLACES
6.73
5.35
3.98
2.60
1.23
.125 TYP
.125 TYP
.12 R TYP
10.03
8.66
7.28
5.91
4.19
2.03
.88 TYP
.44 TYP
.406 TYP
.812 TYP
B
B
.110
.130 X 45°±5°
.44
.88
.406
.812
3.512
.12 R TYP
1.88
3.88
6.25

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

600700	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ±.01 .XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 1

HEAT TREATMENT

FINAL FINISH
SEE NOTE 1

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN E. Sharp DATE 27 SEPT 65
CHECKED
APPROVAL
APPROVAL 9/27/65
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

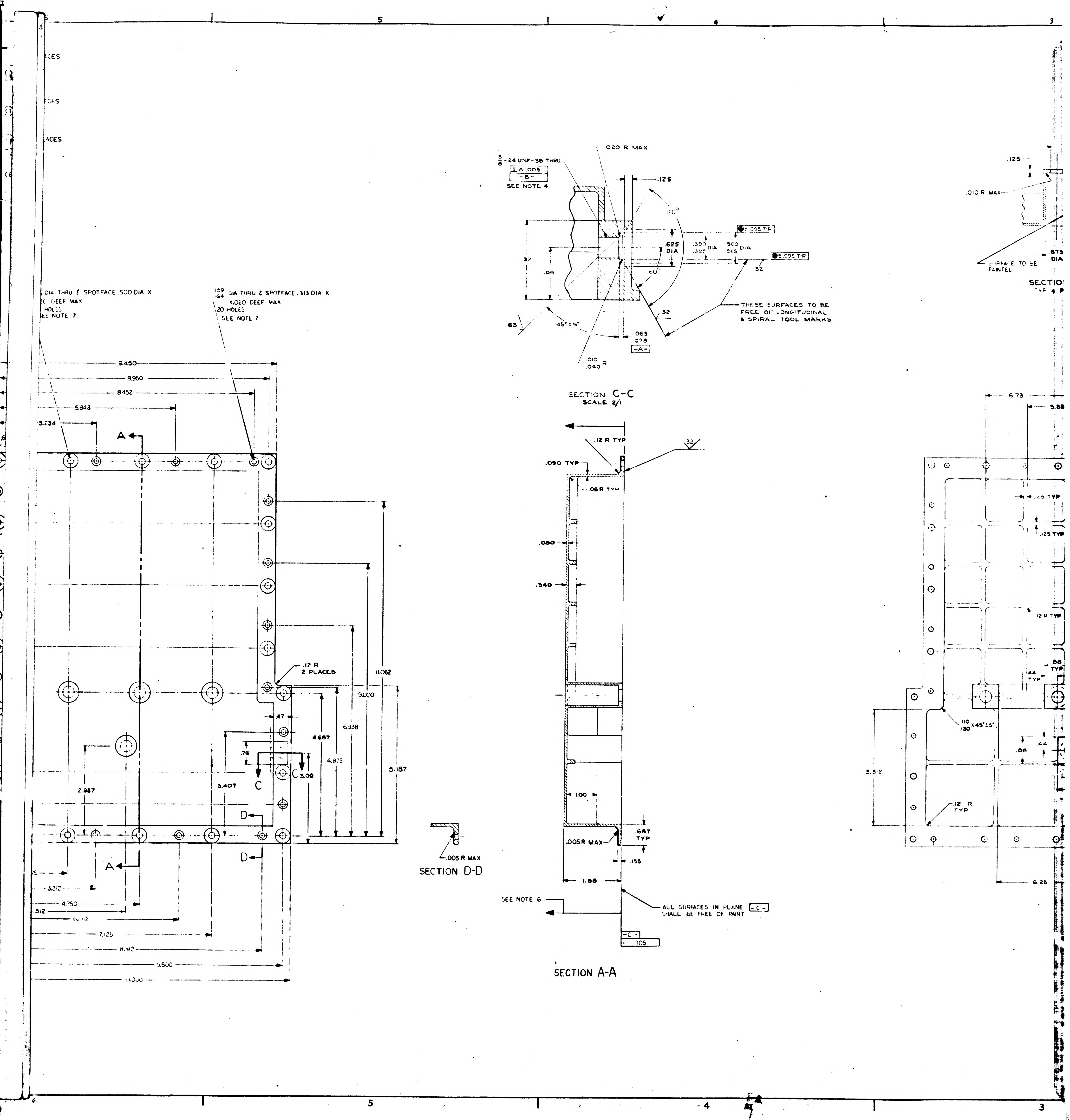
COVER
LEM PTA

CODE IDENT NO	SIZE	NASA DRAWING NO
80230	J	6008030

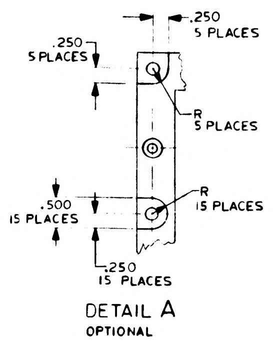
SCALE 1/1 WT SHEET 1 OF 1

6008030 C

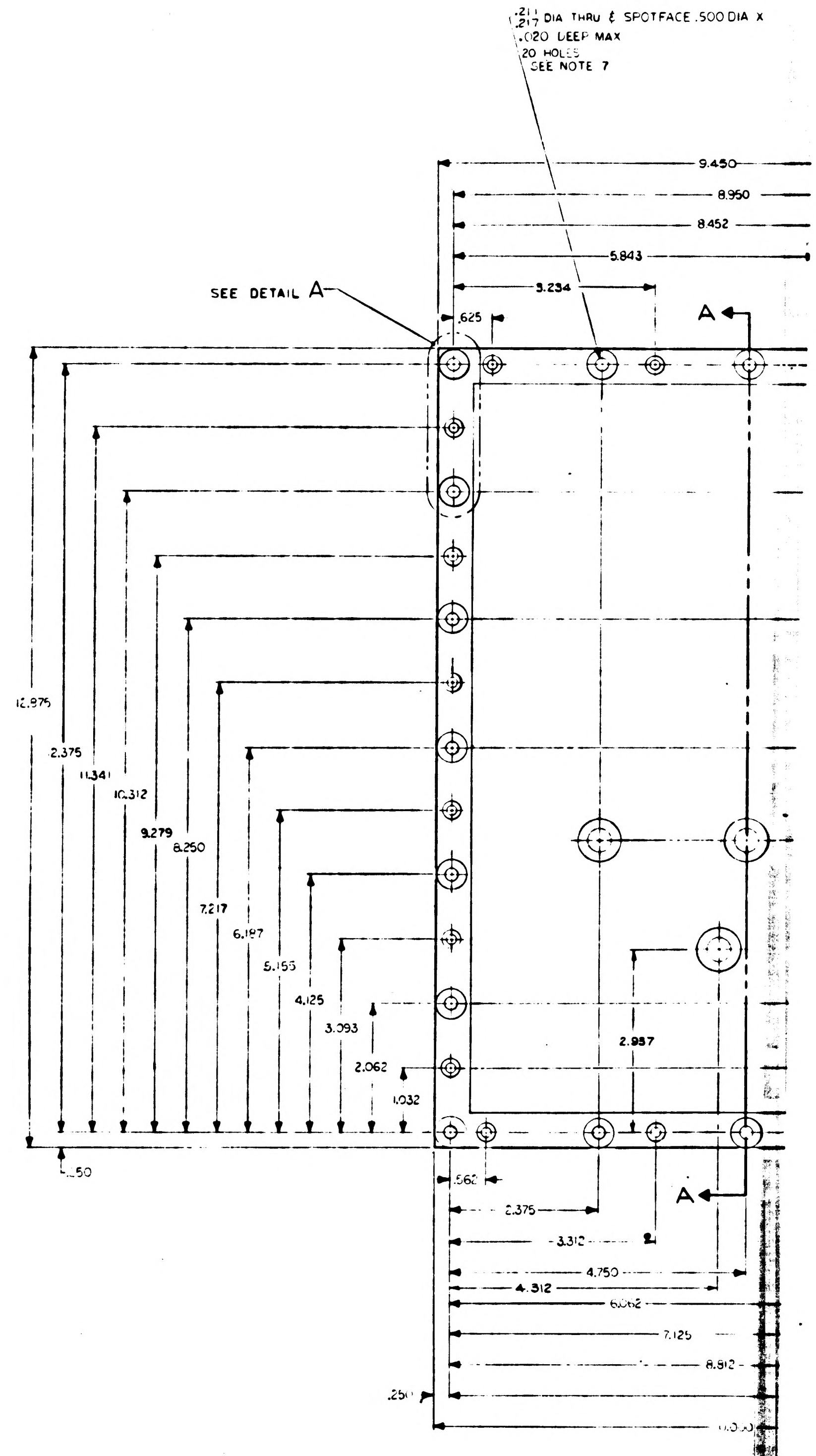
3/6008030


5
4
3
6
SECTION C-C
SCALE 2/1
SECTION A-A
SECTION D-D
.005 R MAX
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
.125
120°
60°
.625 DIA
.390 DIA
.395
.500 DIA
.515
.005 TIR
B .005 TIR
32
1.32
.88
45°±5°
63
.063
.078
-A-
.010 R
.040
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
.12 R TYP
.090 TYP
.06 R TYP
.080
.340
1.00
.005R MAX
.687 TYP
.155
1.88
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
.005
.159/.164 DIA THRU & SPOTFACE .313 DIA X .020 DEEP MAX
20 HOLES
SEE NOTE 7
DIA THRU & SPOTFACE .500 DIA X .020 DEEP MAX
HOLES
SEE NOTE 7
9.450
8.950
8.452
5.843
5.234
A
C
D
.12 R
2 PLACES
11.062
9.000
6.938
4.875
4.687
5.187
.47
.76
3.00
3.407
2.987
3.312
4.750
6.312
7.125
8.912
9.500
10.500
.010 R MAX
.125
SURFACE TO BE FAINTEL
.675 DIA
SECTION
TYP 4 P
6.73
5.38
.125 TYP
12 R TYP
.88 TYP
.44 TYP
.110/.130 X 45°±5°
.44
.88
5.812
12 R TYP
6.25

2176008030


.250
5 PLACES
.250
5 PLACES
R
5 PLACES
R
15 PLACES
.500
15 PLACES
.250
15 PLACES

DETAIL A
OPTIONAL


.211/.217 DIA THRU & SPOTFACE .500 DIA X
.020 DEEP MAX
20 HOLES
SEE NOTE 7
SEE DETAIL A
A
A
9.450
8.950
8.452
5.843
3.234
.625
12.875
2.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
.50
2.937
.562
2.375
3.312
4.750
4.312
6.062
7.125
8.812
.250

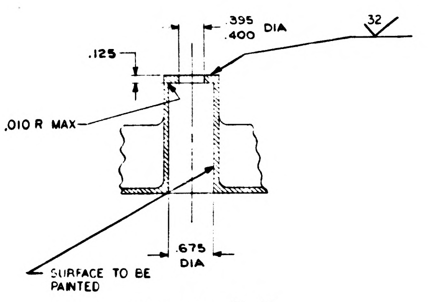
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63/ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE $\boxed{-C-}$ PER ND UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND100204C USING MATERIAL PER MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
8. ~~SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND100204C. DO NOT EPOXY COAT~~
9. IDENTIFY WITH PART NO. PER ND1002019

1/60008030

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
(M) A	REVISED PER TORR 23691	5 Nov 65	WK
(M) B	REVISED PER TDRR 24563	1 Dec 65	WK
C	REVISED PER TDRR 28471	9-MAY	
D	REVISED PER TDRR 28663	13 MAY 66	JK

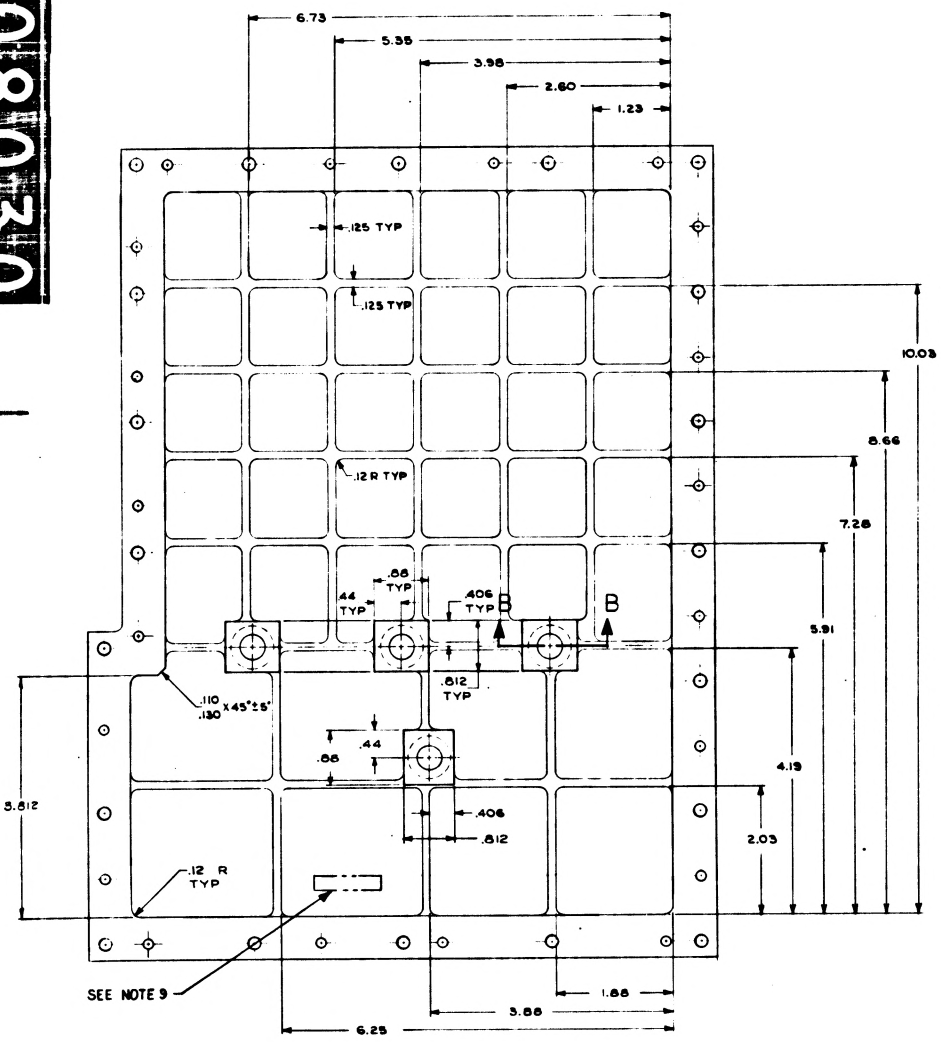
6008030 D



.395
.400 DIA
32
.125
.010 R MAX
SURFACE TO BE PAINTED
.675 DIA

SECTION B-B
TYP 4 PLACES

3-6008030



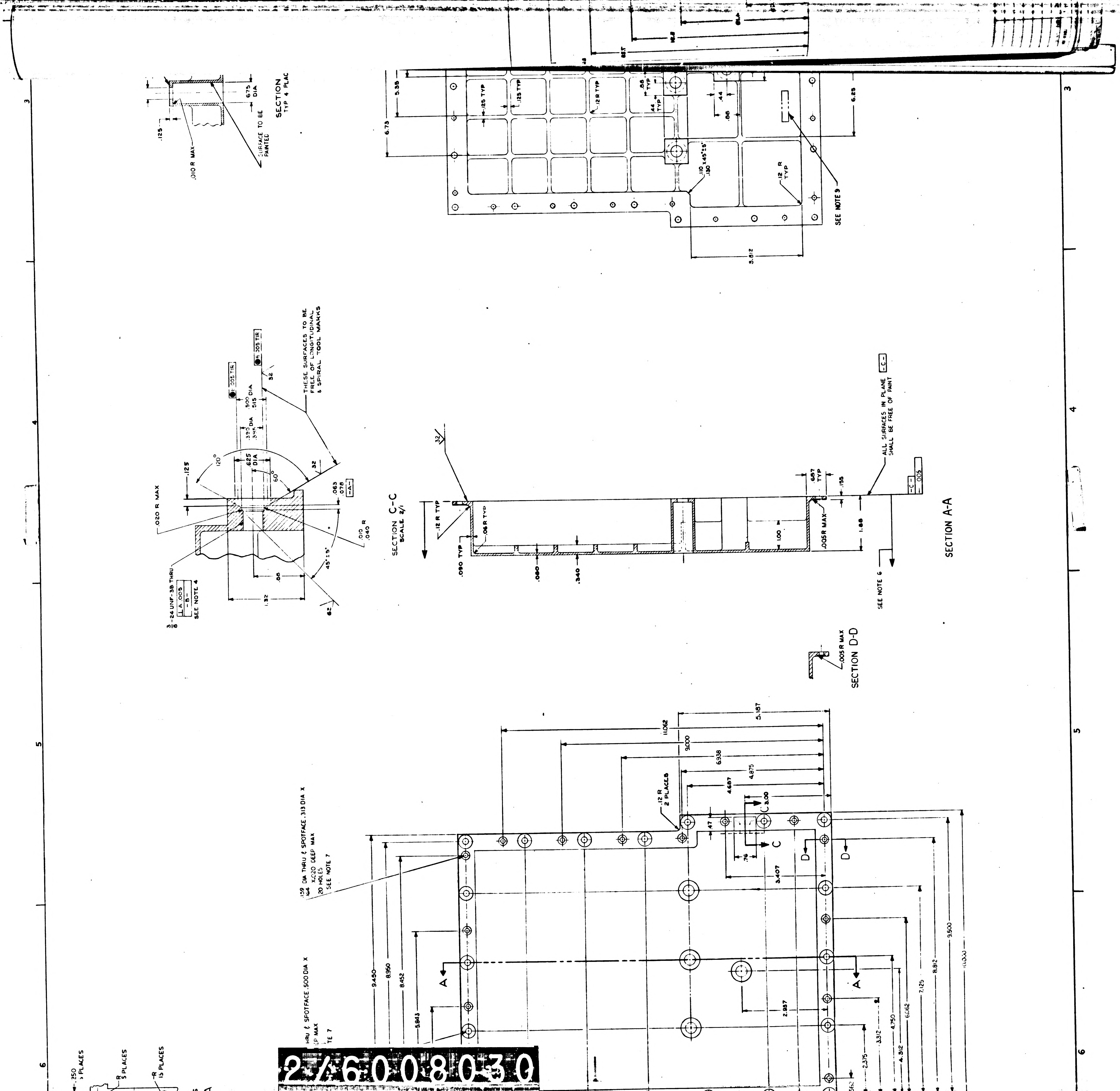
6.73
5.38
3.98
2.60
1.23
.125 TYP
.125 TYP
10.03
8.66
7.28
.12 R TYP
.44 TYP
.88 TYP
.406 TYP
B
B
5.91
.812 TYP
.110
.130 X45°±5°
.44
.88
4.19
5.812
.406
.812
2.03
.12 R TYP
SEE NOTE 9
1.88
3.88
6.25

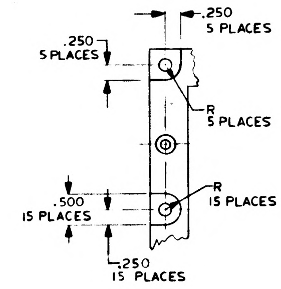
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

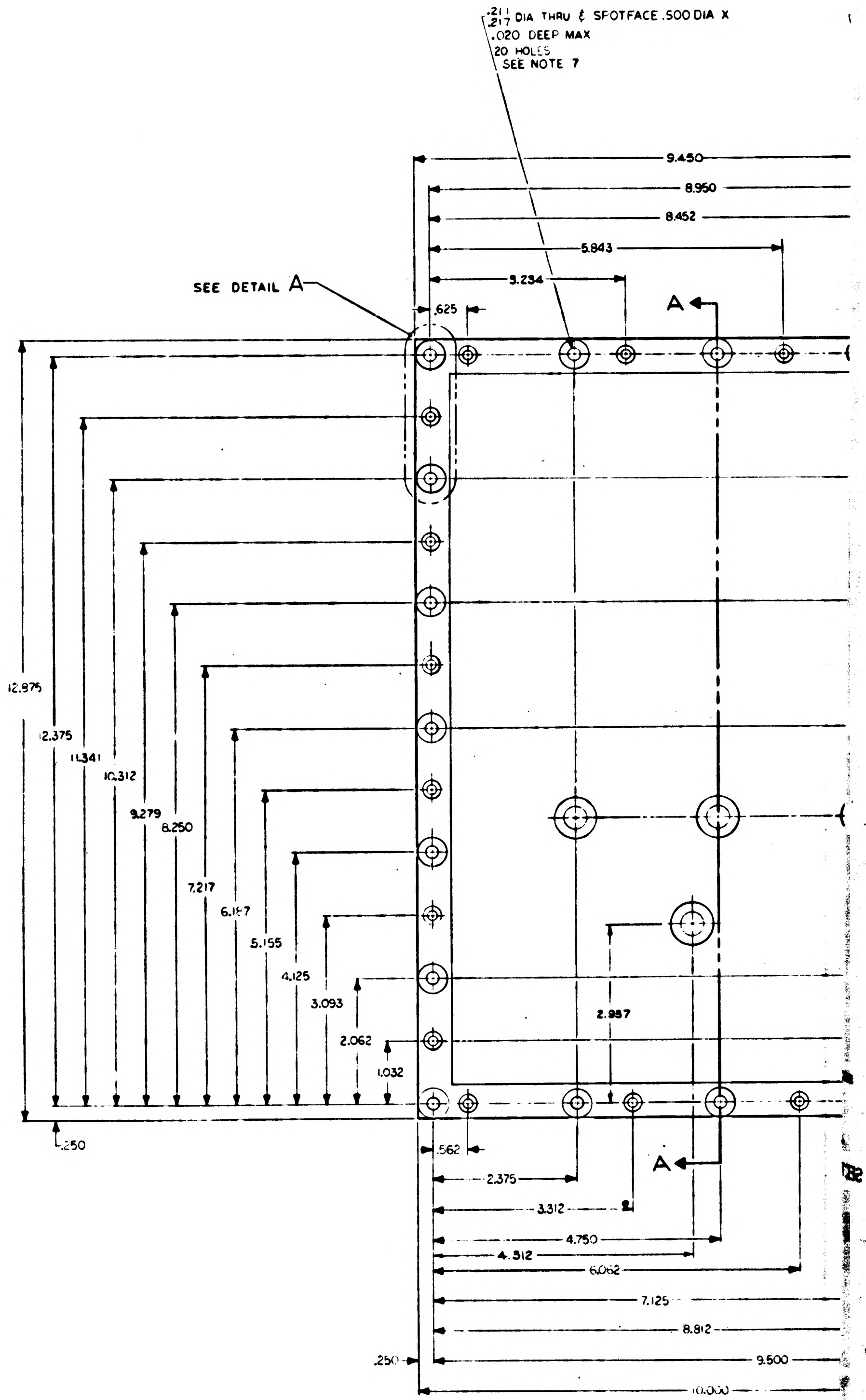
6007000		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS .XX±.01 .XXX±.005 ANGLES ± 1/2 DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE MASS DWG NO CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
NEXT ASSY	USED ON	MATERIAL SEE NOTE 1	DRAWN DATE 27 SEPT 65 CHECKED APPROVAL APPROVAL 9/27/65	COVER LEM PTA
APPLICATION		HEAT TREATMENT	NASA APPROVAL APPROVED PER LETTER NASA PP7-65-812	CODE IDENT NO. 80230 SIZE J NASA DRAWING NO. 6008030
		FINAL FINISH SEE NOTE 1	MIT APPROVAL	SCALE 1/1 WT SHEET 1 OF 1

6008030

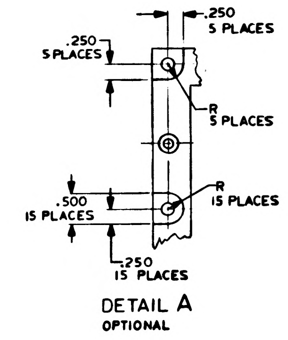

SECTION A-A
SECTION C-C
SCALE 2/1
SECTION D-D
.005 R MAX
SECTION
TYP 4 PLAC
SURFACE TO BE PAINTED
.010 R MAX
.675 DIA
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
SEE NOTE 6
SEE NOTE 9
3/8-24 UNF-3B THRU
SEE NOTE 4
.020 R MAX
120°
60°
45° ± 5°
.625 DIA
.500 DIA
.515
.390
.395
.005 TIR
.159 DIA THRU & SPOTFACE .313 DIA X .020 DEEP MAX
20 HOLES
SEE NOTE 7
SPOTFACE .500 DIA X
.12 R
2 PLACES
5.187
11.062
9.000
6.938
4.875
4.687
3.00
3.407
2.937
9.450
8.950
8.452
5.843
9.500
8.812
7.125
6.062
4.750
4.312
3.312
2.375
6.73
5.35
6.25
5.812
.125 TYP
.12 R TYP
.06 R TYP
.090 TYP
.080
.340
1.00
1.85
.005R MAX
.155
.12 R TYP
A
C
D
2/6008030


.250
5 PLACES
.250
5 PLACES
R
5 PLACES
.500
15 PLACES
R
15 PLACES
.250
15 PLACES

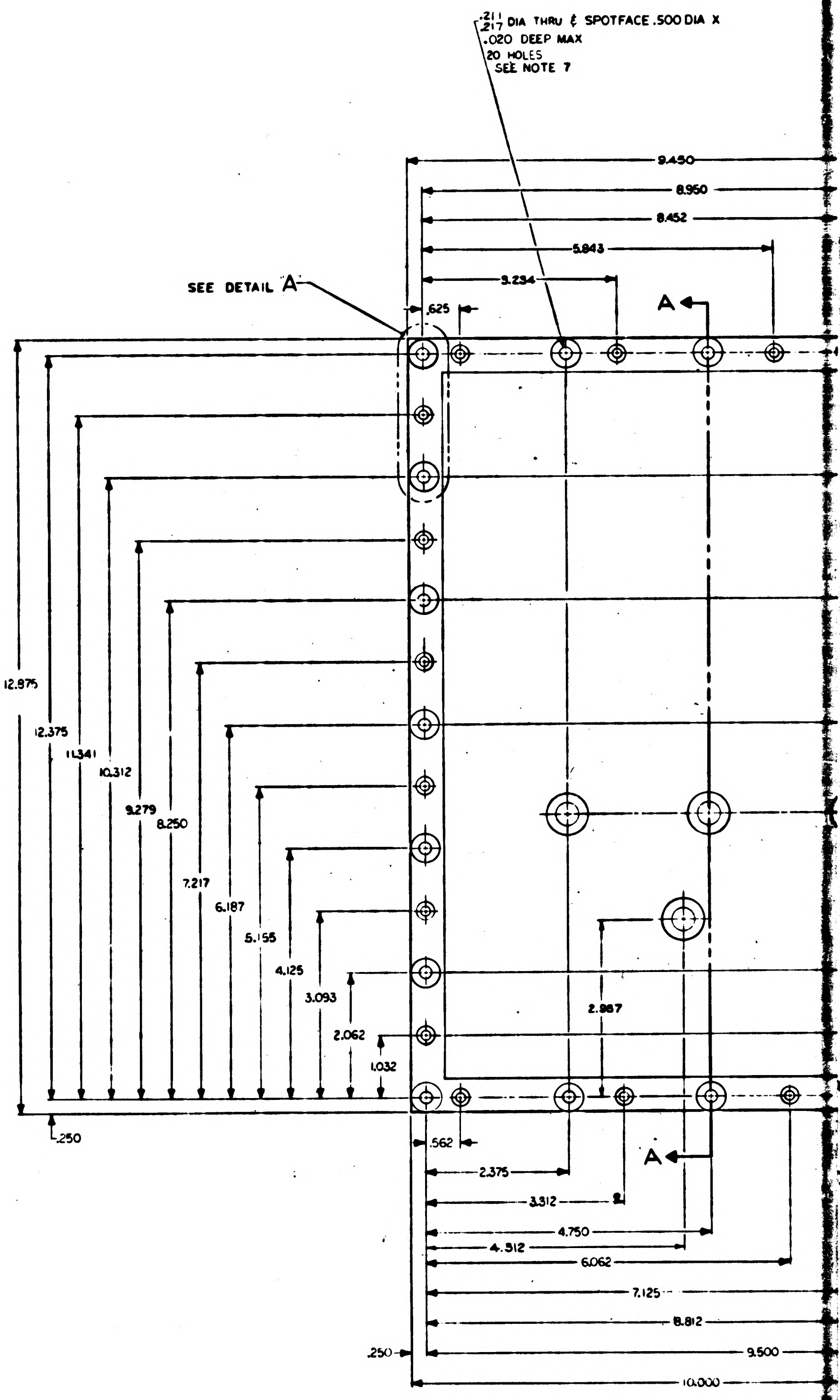
DETAIL A
OPTIONAL


.211
.217 DIA THRU & SPOTFACE .500 DIA X
.020 DEEP MAX
20 HOLES
SEE NOTE 7
9.450
8.950
8.452
5.843
3.234
.625
SEE DETAIL A
A
A
12.975
12.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
2.987
.250
.562
2.375
3.312
4.750
4.312
6.062
7.125
8.812
9.500
10.000
.250

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63/ ALL OVER
5. ANODIZE PER MIL-M-45202, TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE $\boxed{-C-}$ PER ND1002289 UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
8. ~~SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT~~
9. IDENTIFY WITH PART NO. PER ND1002019

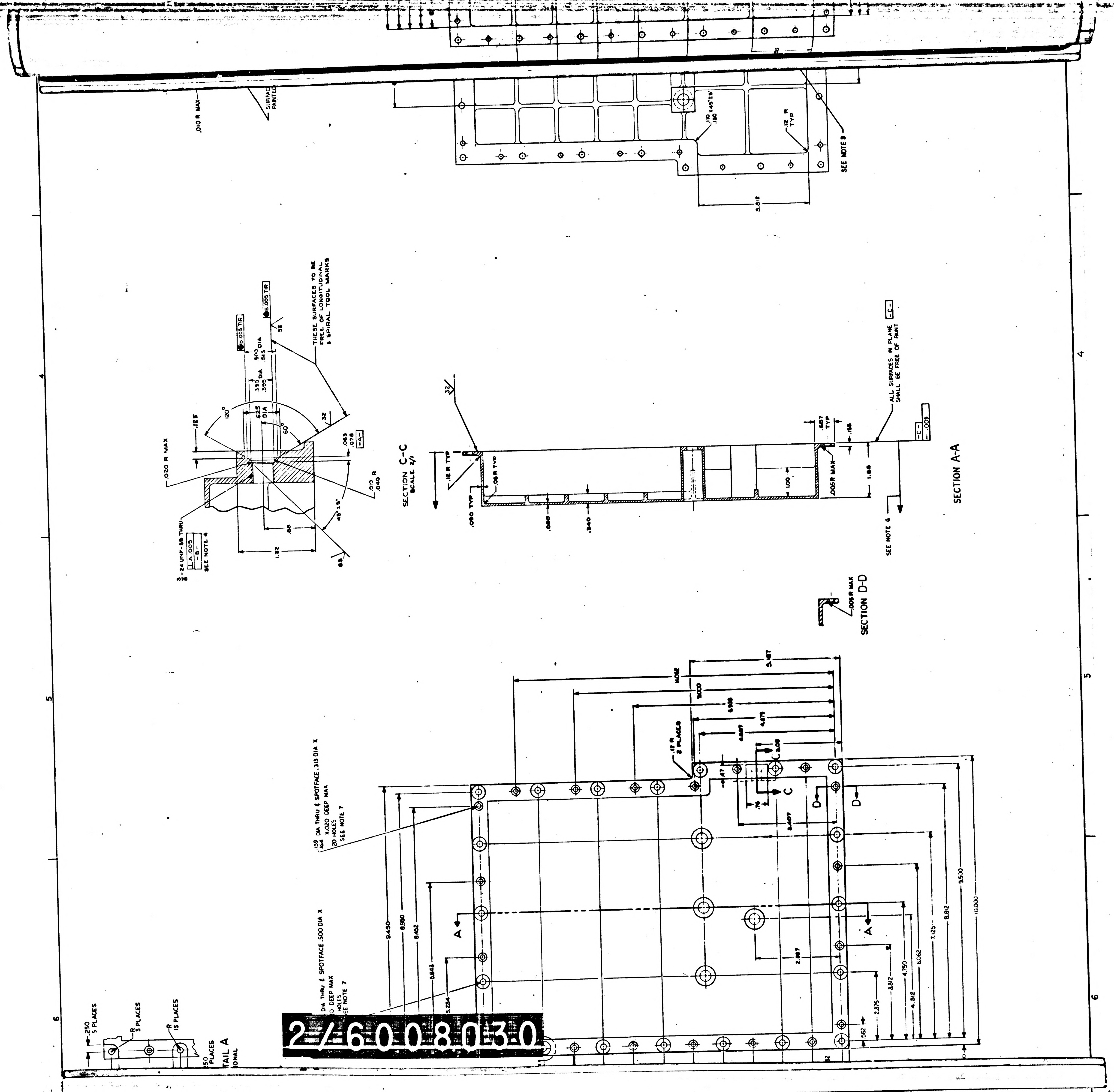

.250
5 PLACES
.250
5 PLACES
R
5 PLACES
.500
15 PLACES
R
15 PLACES
.250
15 PLACES

DETAIL A
OPTIONAL


.211
.217 DIA THRU & SPOTFACE .500 DIA X
.020 DEEP MAX
20 HOLES
SEE NOTE 7
SEE DETAIL A
A
A
9.450
8.950
8.452
5.843
3.234
.625
12.875
12.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
2.867
.250
.562
2.375
3.312
4.750
4.512
6.062
7.125
8.812
9.500
10.000
.250

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED $63\surd$ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE $\boxed{-C-}$ PER ND1002289 TYPE II, UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
~~8. SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT~~
9. IDENTIFY WITH PART NO. PER ND1002019

1#76008030



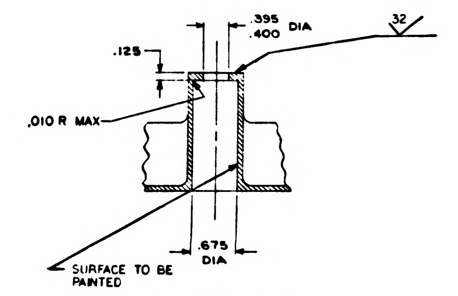
SECTION A-A
SECTION C-C
SCALE 2/1
SECTION D-D
.005 R MAX
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C- .005
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
.005 TIR
3/8-24 UNF-3B THRU
SEE NOTE 4
.020 R MAX
.010 R MAX
SURFACE PAINTED
SEE NOTE 9
.12 R TYP
5.812
.12 R 2 PLACES
.159 DIA THRU & SPOTFACE .313 DIA X .020 DEEP MAX 20 HOLES SEE NOTE 7
DIA THRU & SPOTFACE .500 DIA X .020 DEEP MAX HOLES SEE NOTE 7
.250 5 PLACES
R 5 PLACES
R 15 PLACES
TAIL A
9.500
10.000
9.450
8.950
8.452
5.843
3.254
2.375
3.512
4.750
4.312
6.062
7.125
8.812
.562
2.187
A
C
D
4
5
6

2/60080030

3/6008030

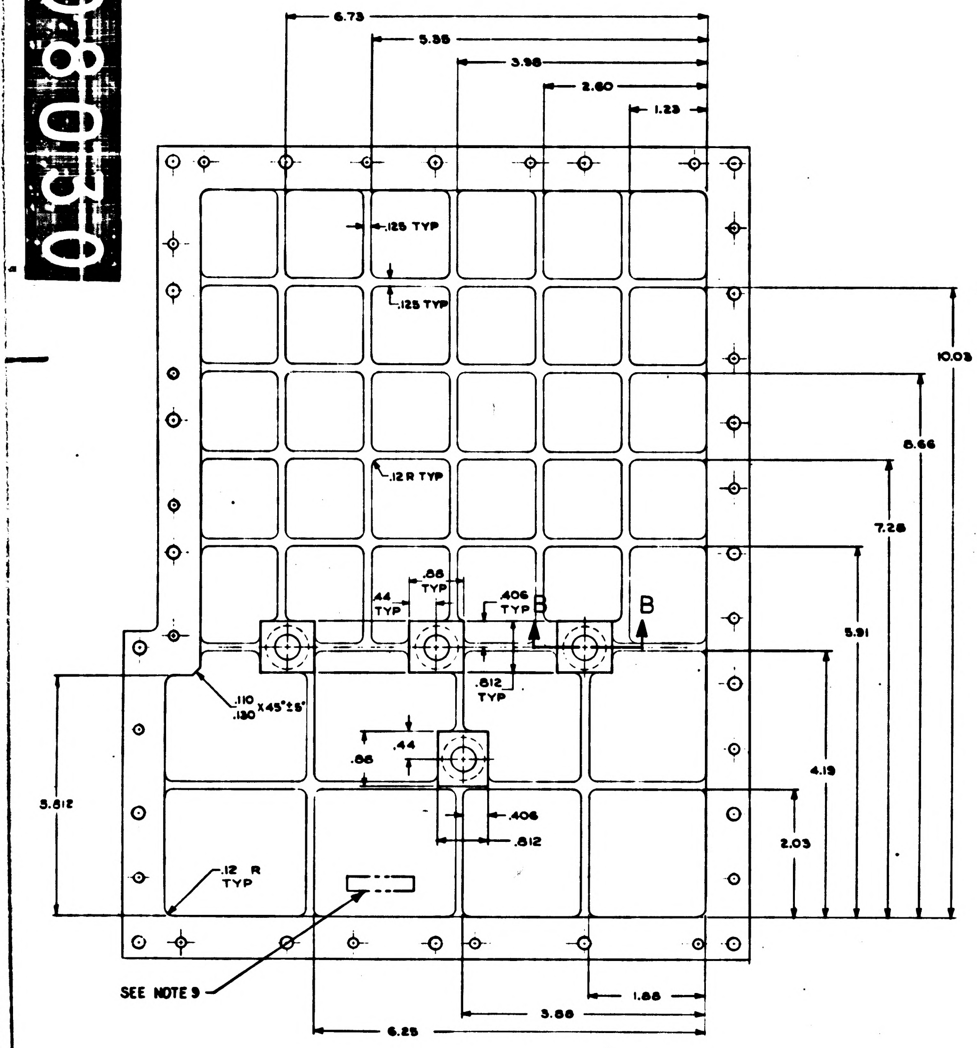
SYM	DESCRIPTION	DATE	APPROVAL	
A	REVISED PER TDRR 23691	5 Nov 65		WK
B	REVISED PER TDRR 24563	9 Dec 65		WK
C	REVISED PER TDRR 28471	9-MAY		
D	REVISED PER TDRR 28663	13 MAY 66	JK	
E	REVISED PER TDRR31191	28 SEPT 66	TD	

REVISIONS 22112



.395
.400 DIA
32
.125
.010 R MAX
SURFACE TO BE PAINTED
.675 DIA

SECTION B-B
TYP 4 PLACES



6.73
5.35
3.96
2.60
1.23
.125 TYP
.125 TYP
.12 R TYP
10.03
8.66
7.28
5.91
4.19
2.03
.44 TYP
.88 TYP
.406 TYP
.812 TYP
B
B
.110
.130 X45°±5°
.44
.88
.406
.812
5.812
.12 R TYP
SEE NOTE 9
1.88
3.88
6.25

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007000	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ±.01 .XXX ±.005 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT
FINAL FINISH SEE NOTE 1

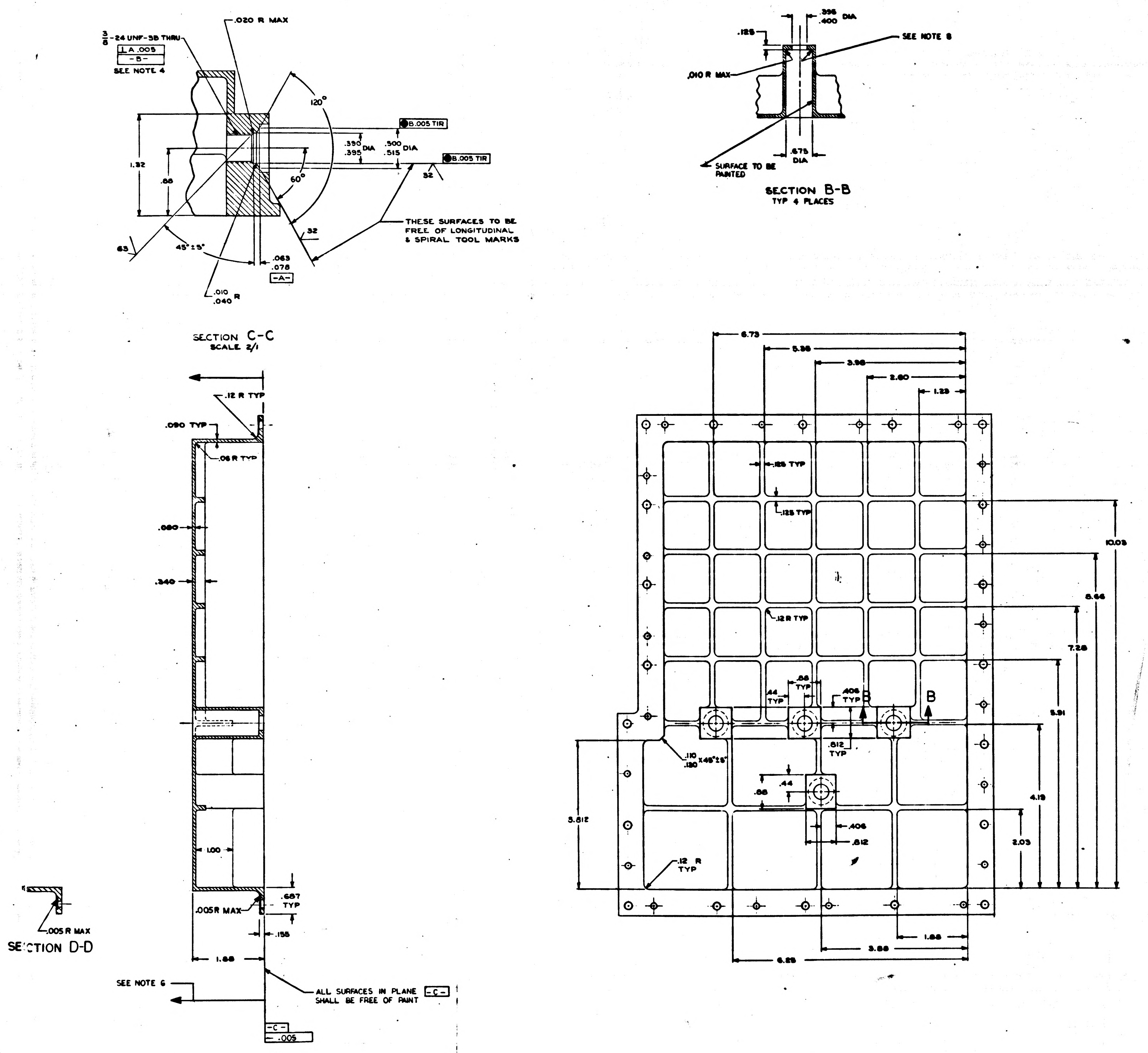
MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN R. Shaye DATE 27 SEPT 65
CHECKED
APPROVAL
APPROVAL 9/27/65
NASA APPROVAL NOT REQUIRED PER LETTER NASA PP7-65-812
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER
LEM PTA

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6008030
SCALE 1/1
WT
SHEET 1 OF 1

6008030


3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
60°
1.32
.66
.390 .395 DIA
.500 .515 DIA
⊚B .005 TIR
32
63
45° ± 5°
.063 .078
-A-
.010 .040 R
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
SECTION C-C
SCALE 2/1
.125
.395 .400 DIA
SEE NOTE 8
.010 R MAX
.575 DIA
SURFACE TO BE PAINTED
SECTION B-B
TYP 4 PLACES
.12 R TYP
.090 TYP
.06 R TYP
.080
.340
11.082
5.187
1.00
.687 TYP
.005R MAX
.155
1.88
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
.005
.005 R MAX
SECTION D-D
6.73
5.35
3.95
2.60
1.25
.125 TYP
.125 TYP
.12 R TYP
.44 TYP
.88 TYP
.406 TYP
B
B
.812 TYP
.110 .130 X 45° ± 5°
.88
.44
.406
.812
.12 R TYP
5.812
10.03
8.66
7.28
5.91
4.19
2.03
1.88
3.88
6.25
D
C
B
A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS .XX ± .01 .XXX ± .005
ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT
FINAL FINISH SEE NOTE 1

600700
NEXT ASSY
USED ON
APPLICATION

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. Sharpe DATE 27 SEPT 65
CHECKED R. Sharpe
APPROVAL
APPROVAL A. R. 9/27/65
~~NOT REQUIRED PER LETTER~~
NASA PP7-65-812
MIT APPROVAL 9/28/65

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

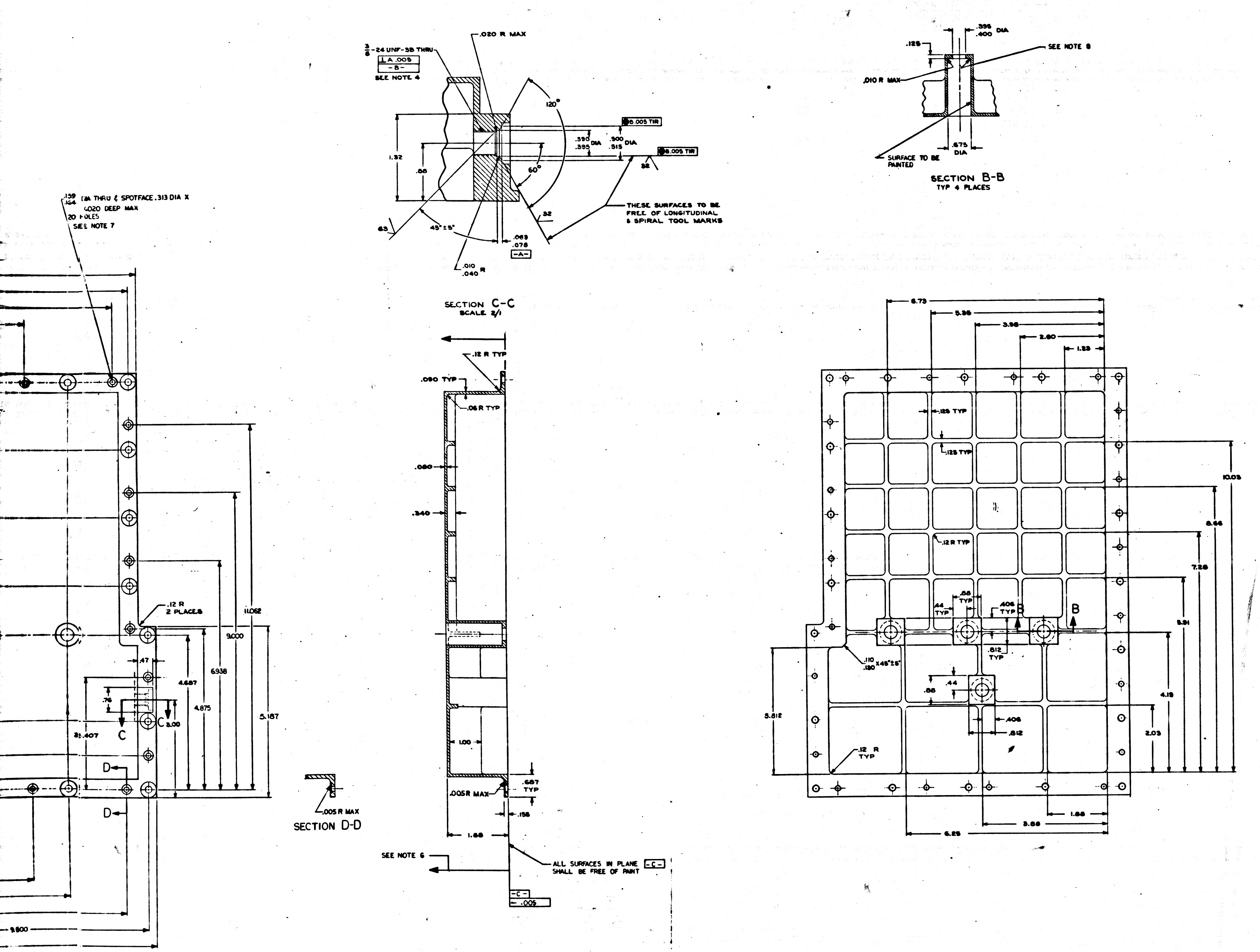
COVER
LEM PTA

CODE IDENT NO. 80230
SIZE J
NASA DRAWING NO. 6008030
SCALE 1/1
WT
SHEET 1 OF 1

REVISIONS
SYM | DESCRIPTION | DATE | APPROVAL

6008030

6008030



3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
.005 TIR
.390 .395 DIA
.500 .515 DIA
.005 TIR
32
1.32
.88
60°
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
63
45°±5°
32
.069 .078
-A-
.010 .040 R
SECTION C-C
SCALE 2/1
.395 .400 DIA
.125
SEE NOTE 8
.010 R MAX
SURFACE TO BE PAINTED
.675 DIA
SECTION B-B
TYP 4 PLACES
.159 .164 DIA THRU & SPOTFACE .313 DIA X .020 DEEP MAX
20 HOLES
SEE NOTE 7
.12 R TYP
.090 TYP
.06 R TYP
.080
.340
1.00
.687 TYP
.005 R MAX
.156
1.88
SEE NOTE 6
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
-C-
.005
.12 R 2 PLACES
11.062
9.000
6.938
4.687
4.875
5.187
.47
.76
3.00
1.407
C
C
D
D
.005 R MAX
SECTION D-D
9.500
6.73
5.36
3.98
2.60
1.23
.125 TYP
.125 TYP
.12 R TYP
10.03
8.66
7.28
5.91
4.19
2.03
3.812
.44 TYP
.88 TYP
.406 TYP
.812 TYP
B
B
.110 .130 X 45°±5°
.44
.88
.406
.812
.12 R TYP
6.25
3.88
1.86

MASTER

QTY REQD	PART OR IDENTIFYING NO.

LIST OF MATERIA

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ±.01 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 1

HEAT TREATMENT

FINAL FINISH
SEE NOTE 1

600700 | NEXT ASSY | USED ON
APPLICATION

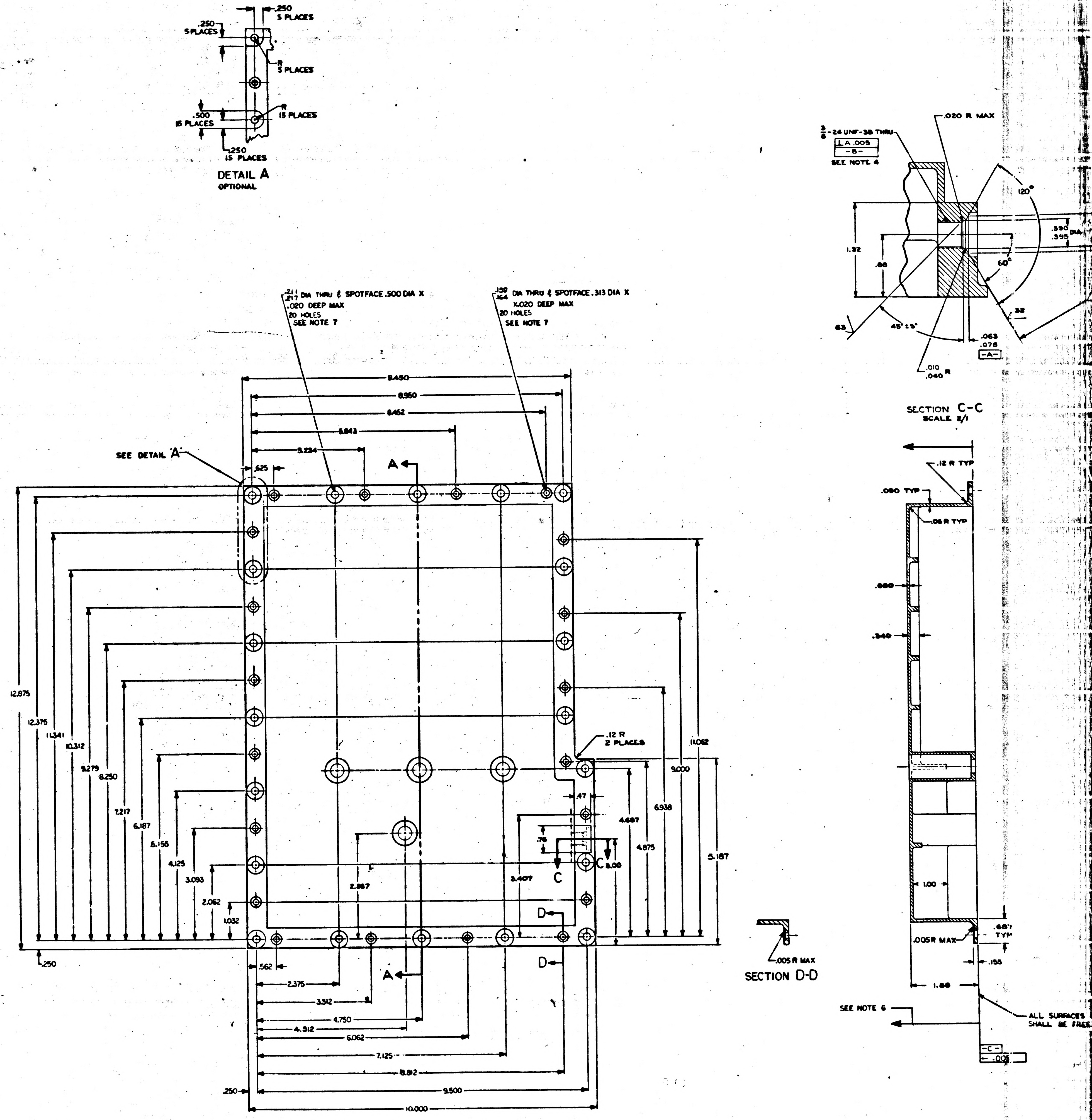
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN DATE
CHECKED
APPROVAL
APPROVAL

NOT REQUIRED PER LETTER
NASA PP7-65-612
MIT APPROVAL

CODE IDENT NO 80230
SIZE J
SCALE 1/1

MANNEL

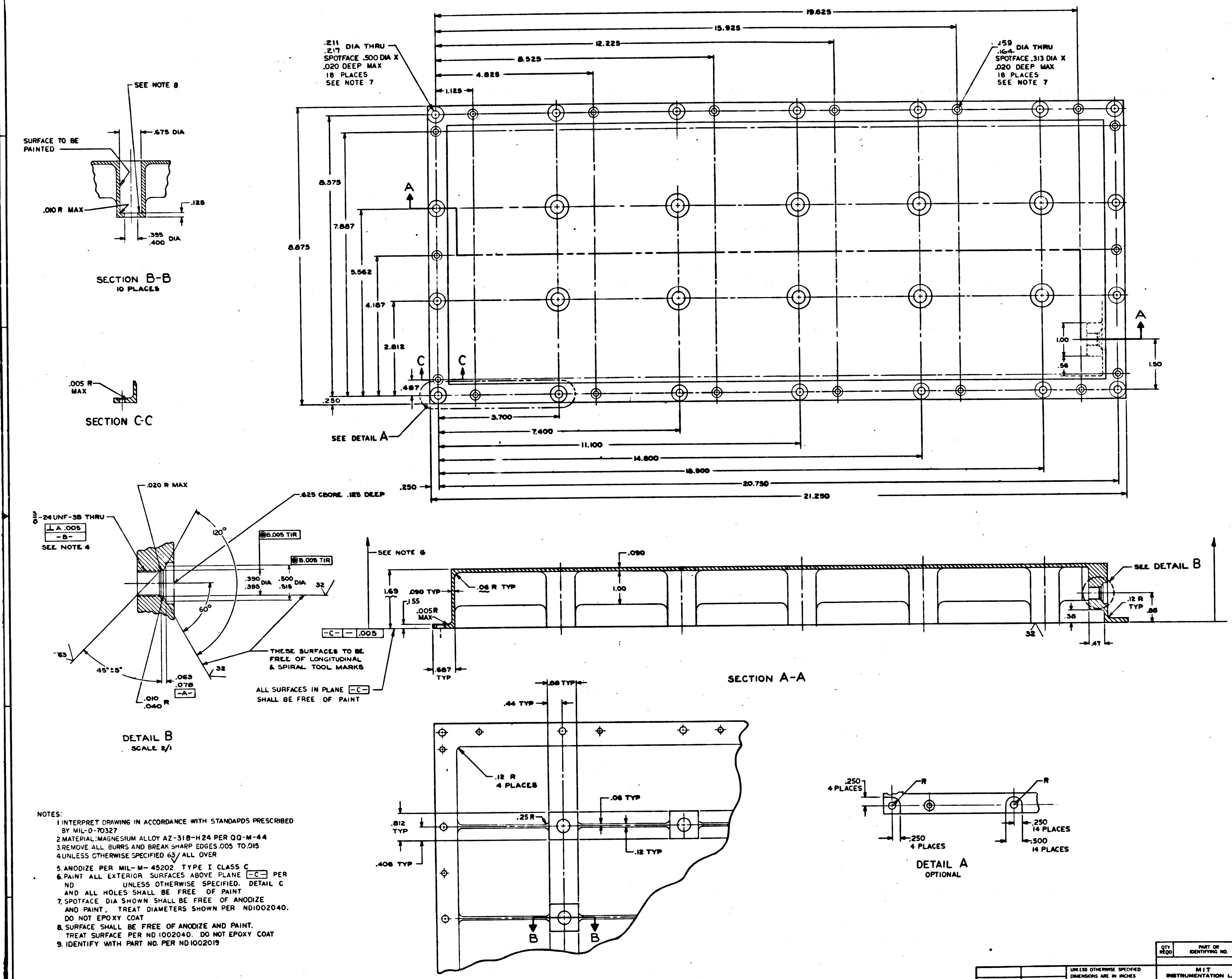

.250
5 PLACES
.250
5 PLACES
R
5 PLACES
.500
15 PLACES
R
15 PLACES
.250
15 PLACES
DETAIL A
OPTIONAL
.211
.217 DIA THRU & SPOTFACE .500 DIA X
.020 DEEP MAX
20 HOLES
SEE NOTE 7
.159
.164 DIA THRU & SPOTFACE .313 DIA X
X.020 DEEP MAX
20 HOLES
SEE NOTE 7
9.450
8.950
8.452
5.843
3.234
SEE DETAIL A
.625
A
12.875
12.375
11.341
10.312
9.279
8.250
7.217
6.187
5.155
4.125
3.093
2.062
1.032
.250
.12 R
2 PLACES
11.062
9.000
6.938
4.687
4.875
5.187
.47
.76
C
C
3.00
2.887
3.407
D
D
A
.562
2.375
3.312
4.750
4.312
6.062
7.125
8.812
9.500
10.000
.250
.005R MAX
SECTION D-D
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.020 R MAX
120°
.390
.395 DIA
1.32
.88
60°
63
45° ± 5°
32
.063
.078
-A-
.010
.040 R
SECTION C-C
SCALE 2/1
.12 R TYP
.090 TYP
.06 R TYP
.080
.340
1.00
.687
TYP
.005R MAX
.155
1.88
SEE NOTE 6
ALL SURFACES
SHALL BE FREE
-C-
.005

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24-PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202, TYPE I, CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE $\boxed{-C-}$ PER ND UNLESS OTHERWISE SPECIFIED. DETAIL C AND ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT TREAT DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACE SHALL BE FREE OF ANODIZE AND PAINT TREAT SURFACE PER ND1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019

REVISIONS 22796

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



19.625
15.925
12.225
8.525
4.825
1.125
.211 .217 DIA THRU SPOTFACE .500 DIA X .020 DEEP MAX 18 PLACES SEE NOTE 7
.159 .164 DIA THRU SPOTFACE .313 DIA X .020 DEEP MAX 18 PLACES SEE NOTE 7
8.875
8.375
7.887
5.562
4.187
2.812
.487
.250
A
C
C
1.00
.56
1.50
SEE DETAIL A
3.700
7.400
11.100
14.800
18.500
20.750
21.250
SEE NOTE 8
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION B-B
10 PLACES
.005 R MAX
SECTION C-C
.020 R MAX
.625 CBORE .125 DEEP
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
120°
B .005 TIR
B .005 TIR
.390 .395 DIA
.500 .515 DIA
32
60°
63
45°±5°
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
.063 .078
-A-
.010 .040 R
DETAIL B
SCALE 2/1
SEE NOTE 6
.090
.06 R TYP
1.00
1.69
.090 TYP
.155
.005 R MAX
-C- .005
.687 TYP
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
SEE DETAIL B
.12 R TYP
.38
.86
.47
32
SECTION A-A
.88 TYP
.44 TYP
.12 R 4 PLACES
.06 TYP
.25 R
.812 TYP
.406 TYP
.12 TYP
B
B
.250 4 PLACES
R
R
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES
DETAIL A
OPTIONAL

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND UNLESS OTHERWISE SPECIFIED. DETAIL C AND ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. TREAT DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACE SHALL BE FREE OF ANODIZE AND PAINT. TREAT SURFACE PER ND 1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.010 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R Ramsey 22 Sept 65
CHECKED R [illegible] 28 Sept 65
APPROVED
APPROVED D. [illegible] 9/27/65
APPROVED MIT W Hagler 9/29/65
NOT REQUIRED PER LETTER
NASA NA 7-65-612
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6008031
SCALE 1/1
SHEET 1 OF 1

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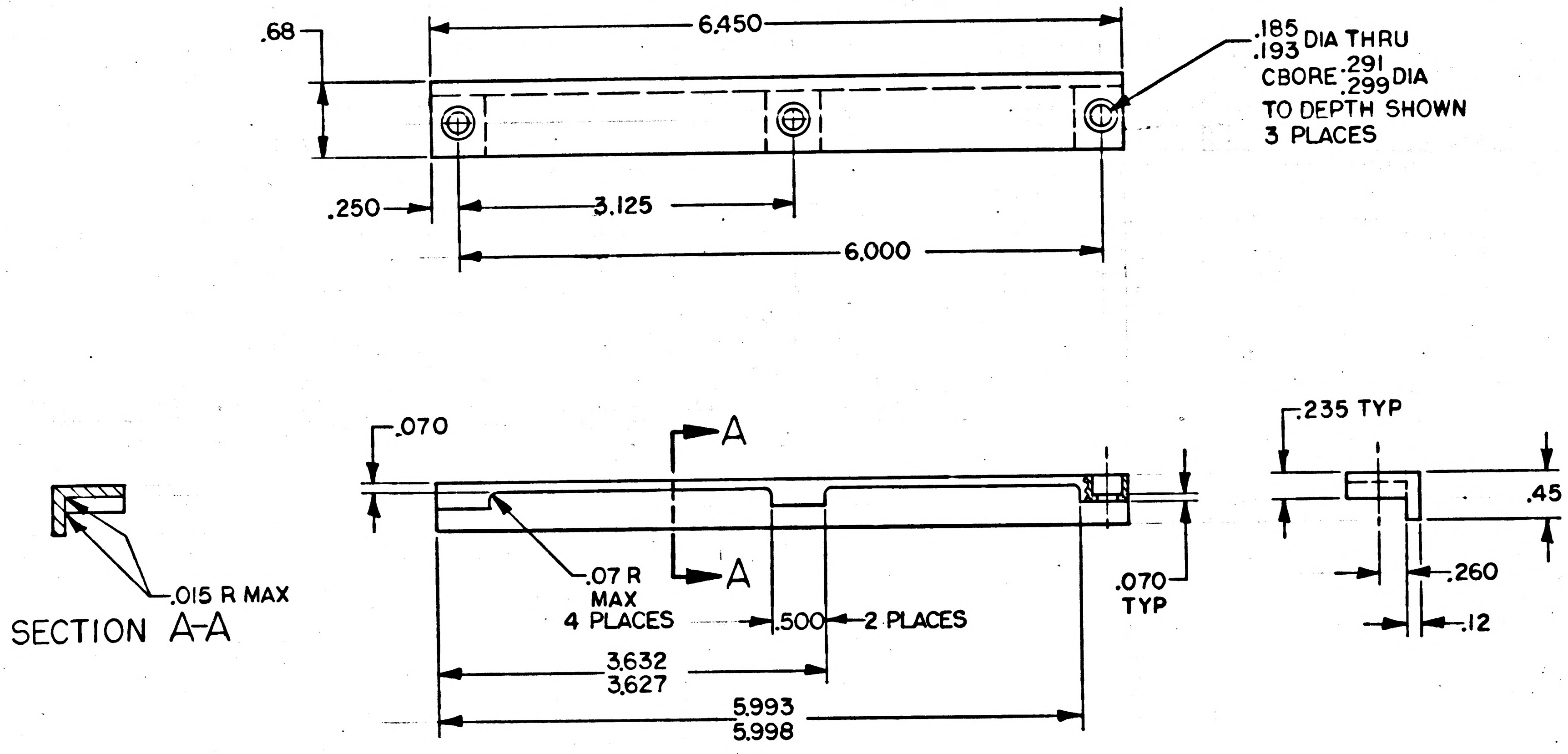
REVISIONS 22800

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T6 AL PER QQ-A-250/11, TEMP T6
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES 125/
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. IDENTIFY WITH PART NO. PER ND1002019

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007002	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —
DECIMALS .XX ± .01 .XXX ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

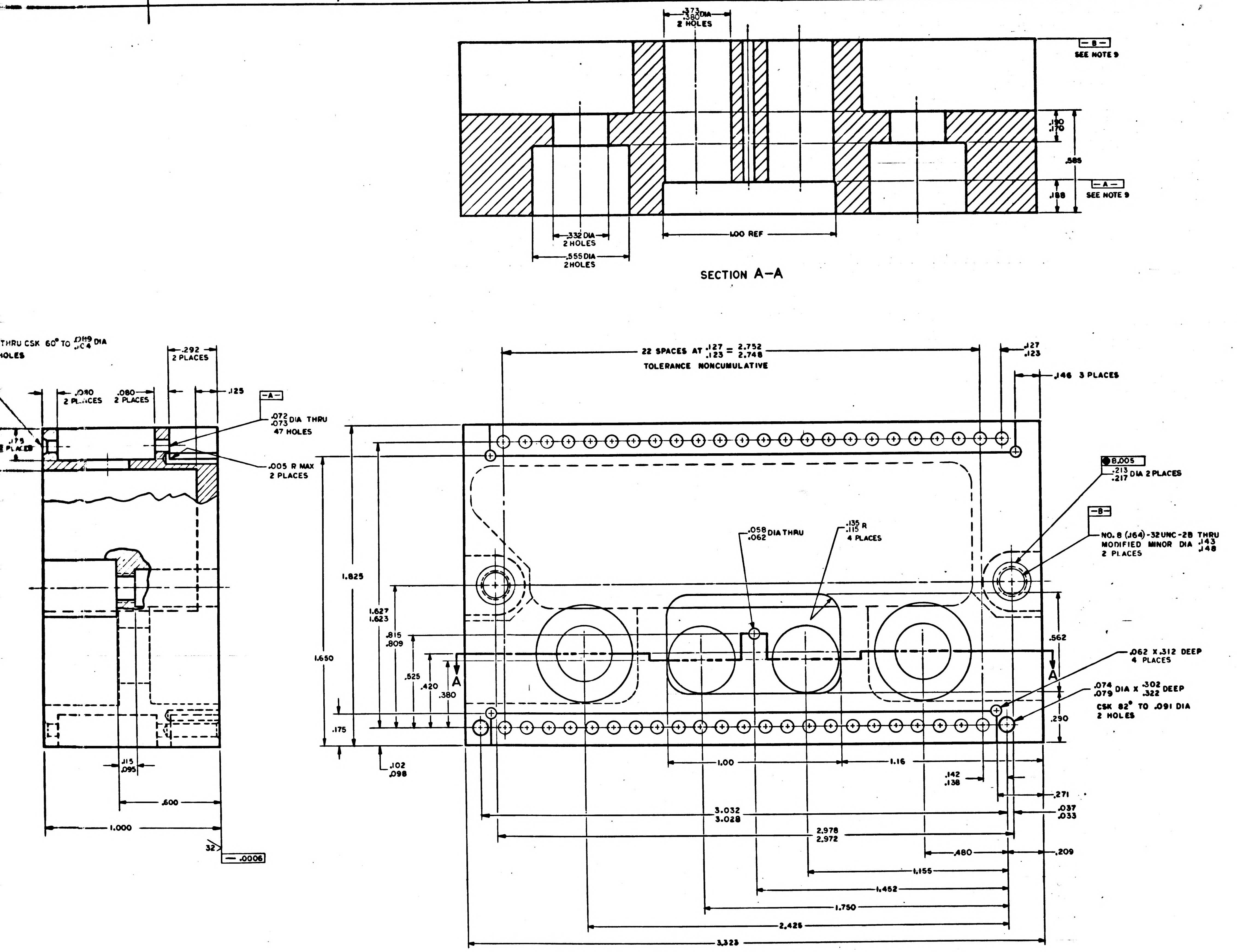
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN 23 Aug 65
CHECKED 22 Sep 65
APPROVED
APPROVED D.G. Foat 9/27/65
APPROVED MIT W Kupfer 28 Sep 65
APPROVED MSC NOT REQUIRED PER LETTER 77-65-612
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ANGLE SUPPORT
PTA LEM

CODE IDENT NO. 80230
SIZE C
DRAWING NO. 6008032
SCALE 1/1
SHEET 1 OF 1



.373
.380 DIA
2 HOLES
— B —
SEE NOTE 9
.190
.170
.585
— A —
SEE NOTE 9
.188
.332 DIA
2 HOLES
.555 DIA
2 HOLES
1.00 REF
SECTION A-A
THRU CSK 60° TO .089 .104 DIA
HOLES
.292
2 PLACES
.080
2 PLACES
.080
2 PLACES
.125
— A —
.072
.073 DIA THRU
47 HOLES
.005 R MAX
2 PLACES
.175
2 PLACES
22 SPACES AT .127 .123 = 2.752 2.748
TOLERANCE NONCUMULATIVE
.127
.123
.146 3 PLACES
⌖ B .005
.213
.217 DIA 2 PLACES
— B —
NO. 8 (.164) -32UNC-2B THRU
MODIFIED MINOR DIA .143 .148
2 PLACES
.058
.062 DIA THRU
.135
.115 R
4 PLACES
1.825
1.627
1.623
1.650
.815
.809
.525
.420
.380
.175
A
A
.562
.290
.062 X .312 DEEP
4 PLACES
.074
.079 DIA X .302 .322 DEEP
CSK 82° TO .091 DIA
2 HOLES
.102
.098
1.00
1.16
.142
.138
.271
.037
.033
3.032
3.028
2.978
2.972
.480
.209
1.155
1.452
1.750
2.425
3.323
.115
.095
.600
1.000
32
— .0006

REVISIONS 23080						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

6007114	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN		1OCT65
CHECKED	K. L. Kangas	5OCT65
APPROVED		5OCT65
APPROVED		10/6/5
APPROVED MIT	W Kinsler	
NOT REQUIRED PER LETTER NASA-PP7-65-612		
NSC		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEATSINK,
G&N SUBSYSTEM
SUPPLY FILTER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008033
SCALE 5/1		SHEET 1 OF 1

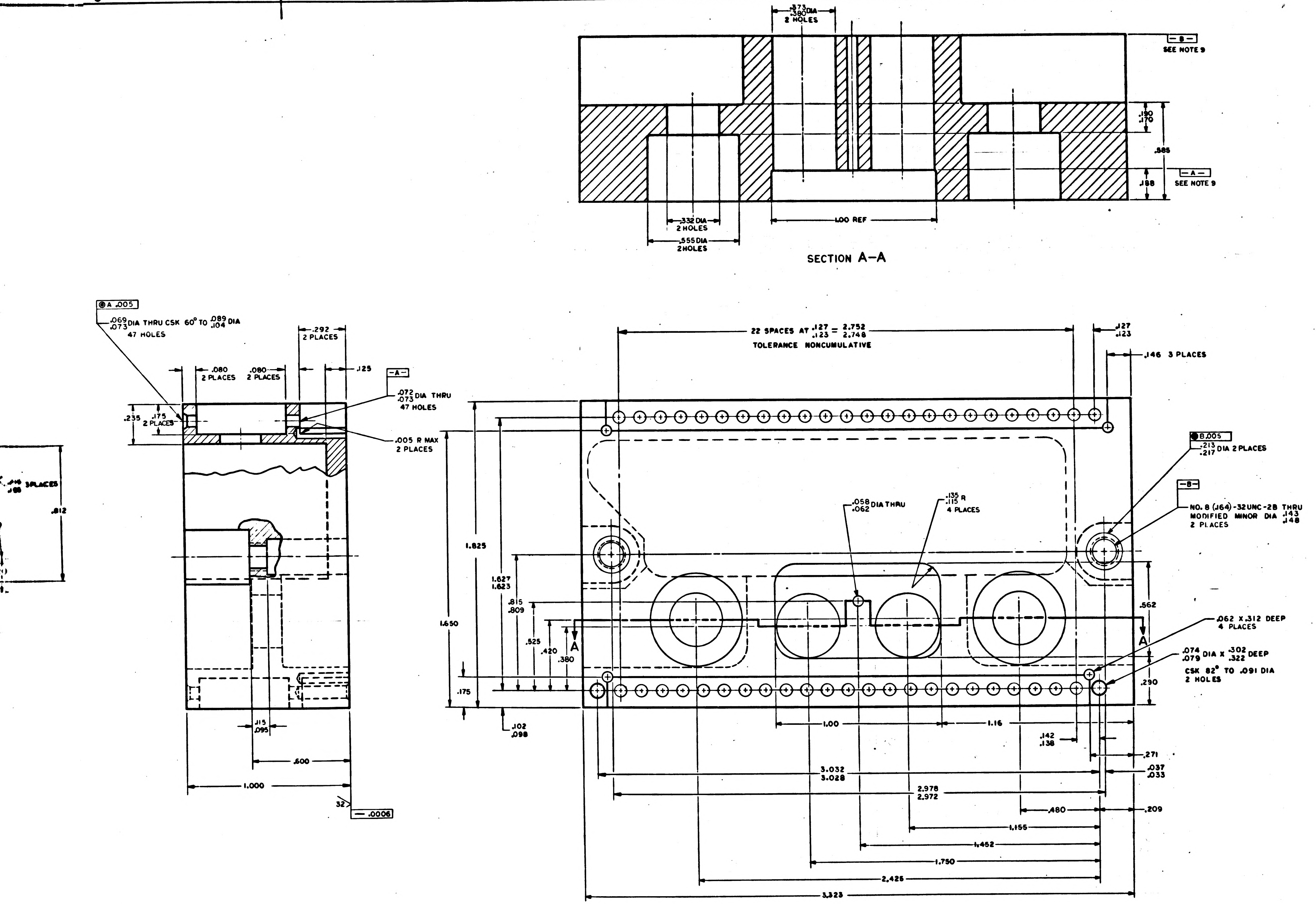
MASTER

6008033

6008033

3H

REVISIONS 23080						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



.373
.380 DIA
2 HOLES
—B—
SEE NOTE 9
.190
.170
.585
—A—
SEE NOTE 9
.188
.332 DIA
2 HOLES
.555 DIA
2 HOLES
1.00 REF
SECTION A-A
◎ A .005
.069
.073 DIA THRU CSK 60° TO .089
.104 DIA
47 HOLES
.292
2 PLACES
.080
2 PLACES
.080
2 PLACES
.125
—A—
.072
.073 DIA THRU
47 HOLES
.235
.175
2 PLACES
.005 R MAX
2 PLACES
.115
.095
.600
1.000
32
— .0006
.812
3 PLACES
22 SPACES AT .127
.123 = 2.752
2.748
TOLERANCE NONCUMULATIVE
.127
.123
.146 3 PLACES
◎ B .005
.213
.217 DIA 2 PLACES
—B—
NO. 8 (.164)-32UNC-2B THRU
MODIFIED MINOR DIA .143
.148
2 PLACES
.058
.062 DIA THRU
.135 R
.115
4 PLACES
1.825
1.627
1.623
.815
.809
1.650
.525
.420
.380
.175
A
A
.562
.062 X .312 DEEP
4 PLACES
.074
.079 DIA X .302
.322 DEEP
CSK 82° TO .091 DIA
2 HOLES
.290
.102
.098
1.00
1.16
.142
.138
.271
.037
.033
3.032
3.028
2.978
2.972
.480
.209
1.155
1.452
1.750
2.425
3.323

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007114	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN		10CT65
CHECKED		6OCT65
APPROVED		5OCT65
APPROVED		
APPROVED MIT		
NOT REQUIRED PER LETTER MASC-PP7-65-612 NASC		DATE

HEATSINK, G&N SUBSYSTEM SUPPLY FILTER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008033
SCALE 5/1		SHEET

MASTER

6008033

6008033

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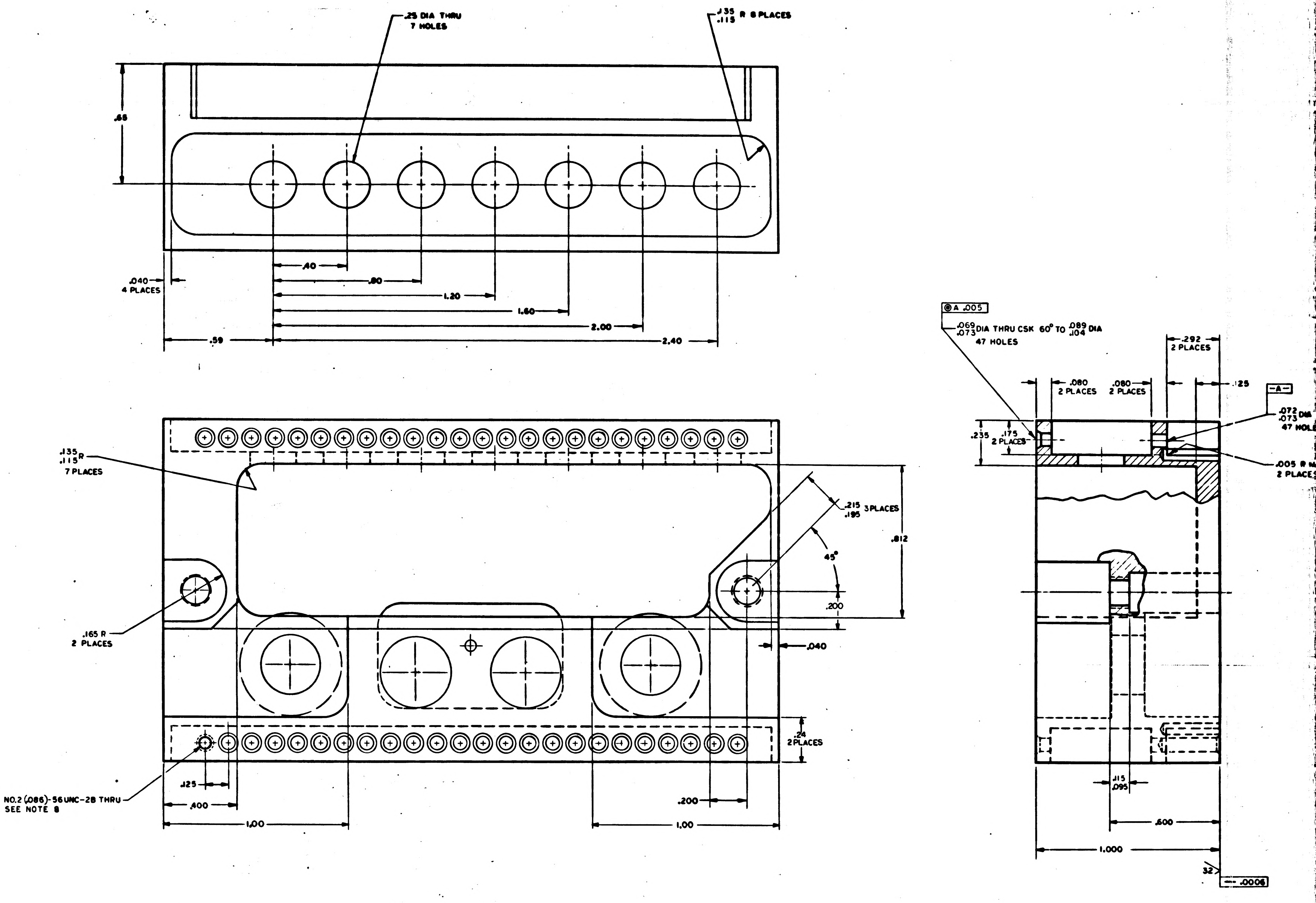
D

C

B

A

3/4


.25 DIA THRU
7 HOLES
.135
.115 R 8 PLACES
.65
.040
4 PLACES
.40
.80
1.20
1.60
2.00
2.40
.59
.135
.115 R
7 PLACES
.215
.195 3 PLACES
45°
.812
.200
.040
.165 R
2 PLACES
.24
2 PLACES
NO.2 (.086)-56UNC-2B THRU
SEE NOTE 8
.125
.400
1.00
.200
1.00
◎ A .005
.069
.073 DIA THRU CSK 60° TO .089
.104 DIA
47 HOLES
.292
2 PLACES
.080
2 PLACES
.080
2 PLACES
.125
-A-
.072
.073 DIA
47 HOLE
.235
.175
2 PLACES
.005 R M
2 PLACES
.115
.095
.600
1.000
32
.0006

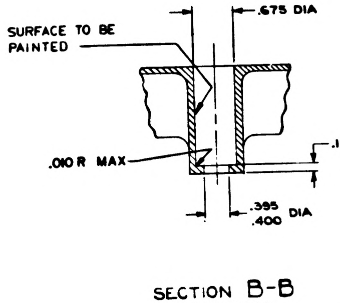
NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED.
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. IDENTIFY WITH PART NO. PER ND1002019
8. THREAD TO BE FREE OF ANODIZE AND TREAT PER ND 1002040 (DO NOT APPLY EPOXY COAT)
9. APPLY A COAT OF ADHESIVE PER ND 1002187 TYPE II TO SURFACES -A- AND -B-

6008033

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

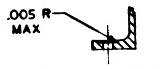
REVISIONS 24974

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25119	SGD		11 Jan 66	

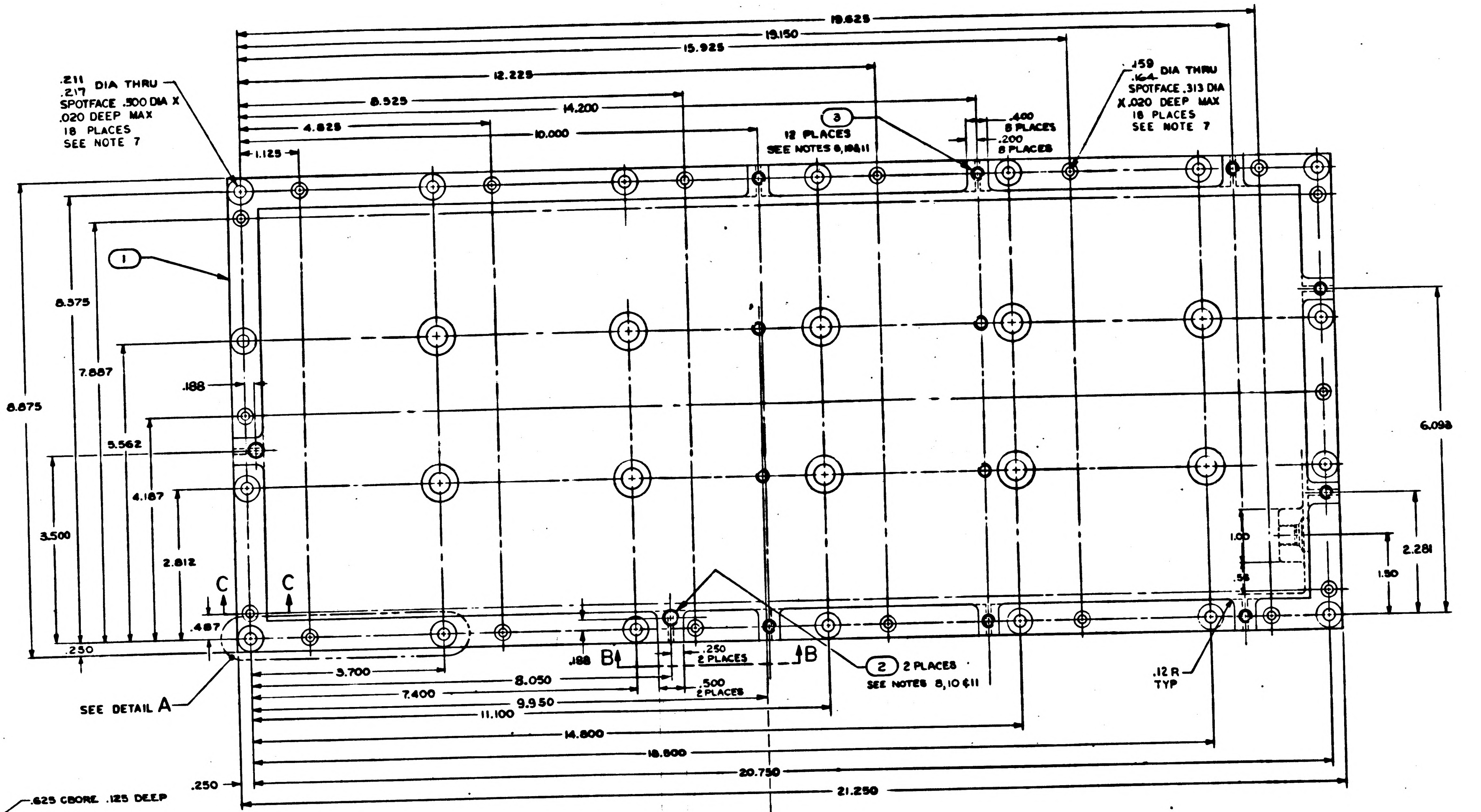


SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA

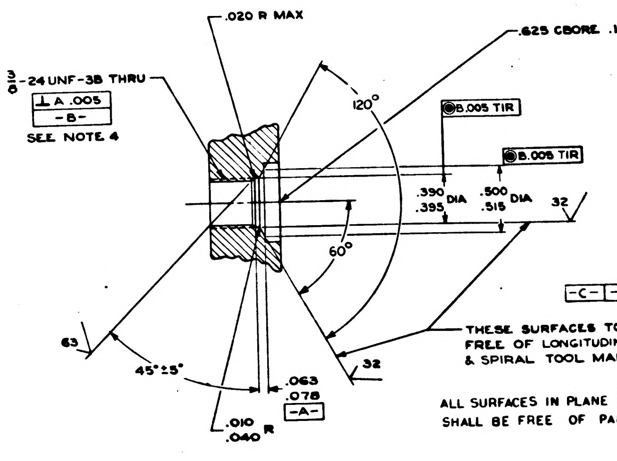
SECTION B-B
10 PLACES



SECTION C-C

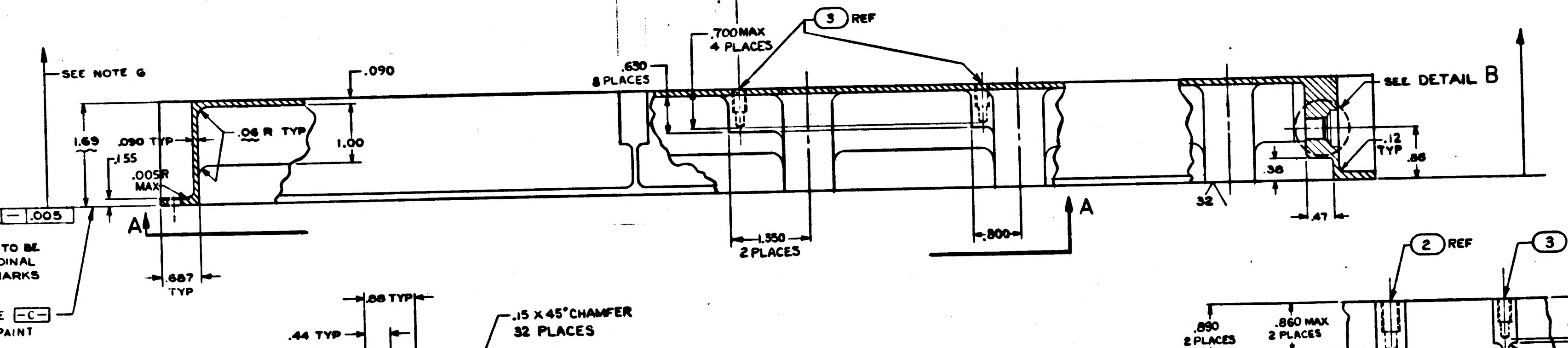


.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
19.625
19.150
15.925
12.225
8.525
14.200
4.825
10.000
1.125
3
12 PLACES
SEE NOTES 8,10&11
.400 8 PLACES
.200 8 PLACES
.159 .164 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
1
8.375
7.887
8.875
.188
5.562
4.187
3.500
2.812
.250
.487
C
C
6.098
2.281
1.00
1.50
.56
.188
B
B
.250 2 PLACES
.500 2 PLACES
2
2 PLACES
SEE NOTES 8,10 & 11
.12 R TYP
SEE DETAIL A
3.700
8.050
7.400
9.950
11.100
14.800
18.800
20.750
.250
21.250

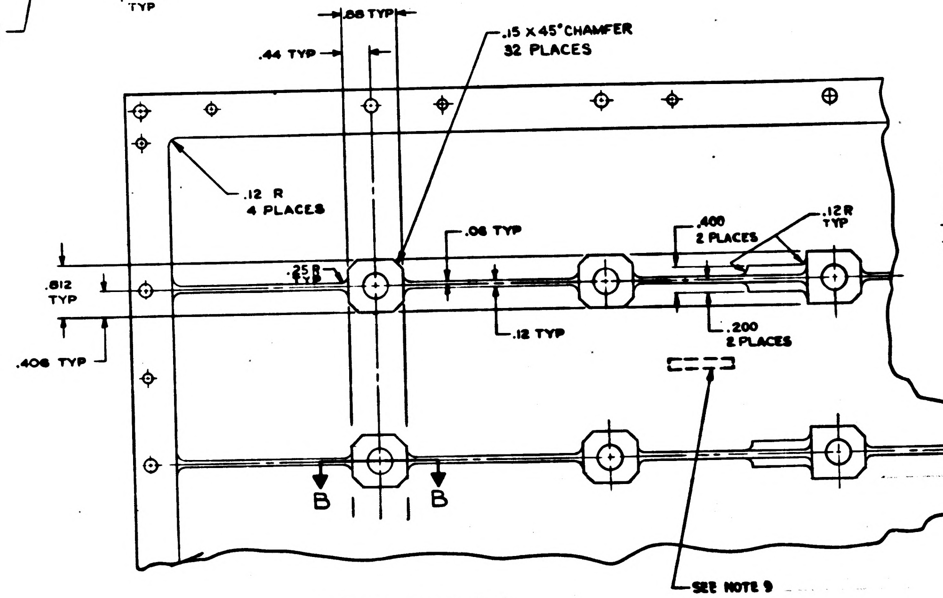


.020 R MAX
.625 CBORE .125 DEEP
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
120°
◉B .005 TIR
◉B .005 TIR
.390 .395 DIA
.500 .515 DIA
32
60°
63
45°±5°
32
.063 .078
-A-
.010 .040 R
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS

DETAIL B
SCALE 2/1

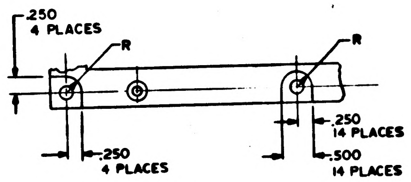


SEE NOTE 6
.090
1.69
.090 TYP
.06 R TYP
1.00
.155
.005 R MAX
-C- — .005
A
.687 TYP
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
.630 8 PLACES
.700 MAX 4 PLACES
3 REF
1.350 2 PLACES
.800
A
32
SEE DETAIL B
.12 TYP
.38
.86
.47



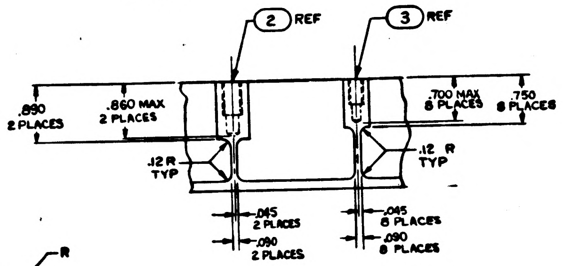
.88 TYP
.44 TYP
.15 X 45° CHAMFER 32 PLACES
.12 R 4 PLACES
.06 TYP
.400 2 PLACES
.12 R TYP
.25 R TYP
.812 TYP
.12 TYP
.200 2 PLACES
.406 TYP
B
B
SEE NOTE 9

PARTIAL VIEW A-A



.250 4 PLACES
R
R
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES

DETAIL A
OPTIONAL



2 REF
3 REF
.890 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.12 R TYP
.12 R TYP
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES

PARTIAL VIEW B-B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDAPDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND1002289 UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. IRIDITE DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. IRIDITE PER ND 1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019. CENTRALIZE AS SHOWN
10. COAT THREADS OF FIND NO.2 & FIND NO.3 WITH MIL-P-8585 COLOR Y
11. INSTALL FIND NO.2 & FIND NO.3 WET PER MS33646. REMOVE DRIVING TANG

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
12	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .010 .XXX ± .005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
MSC A. G. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, INSEP
LEM PSA

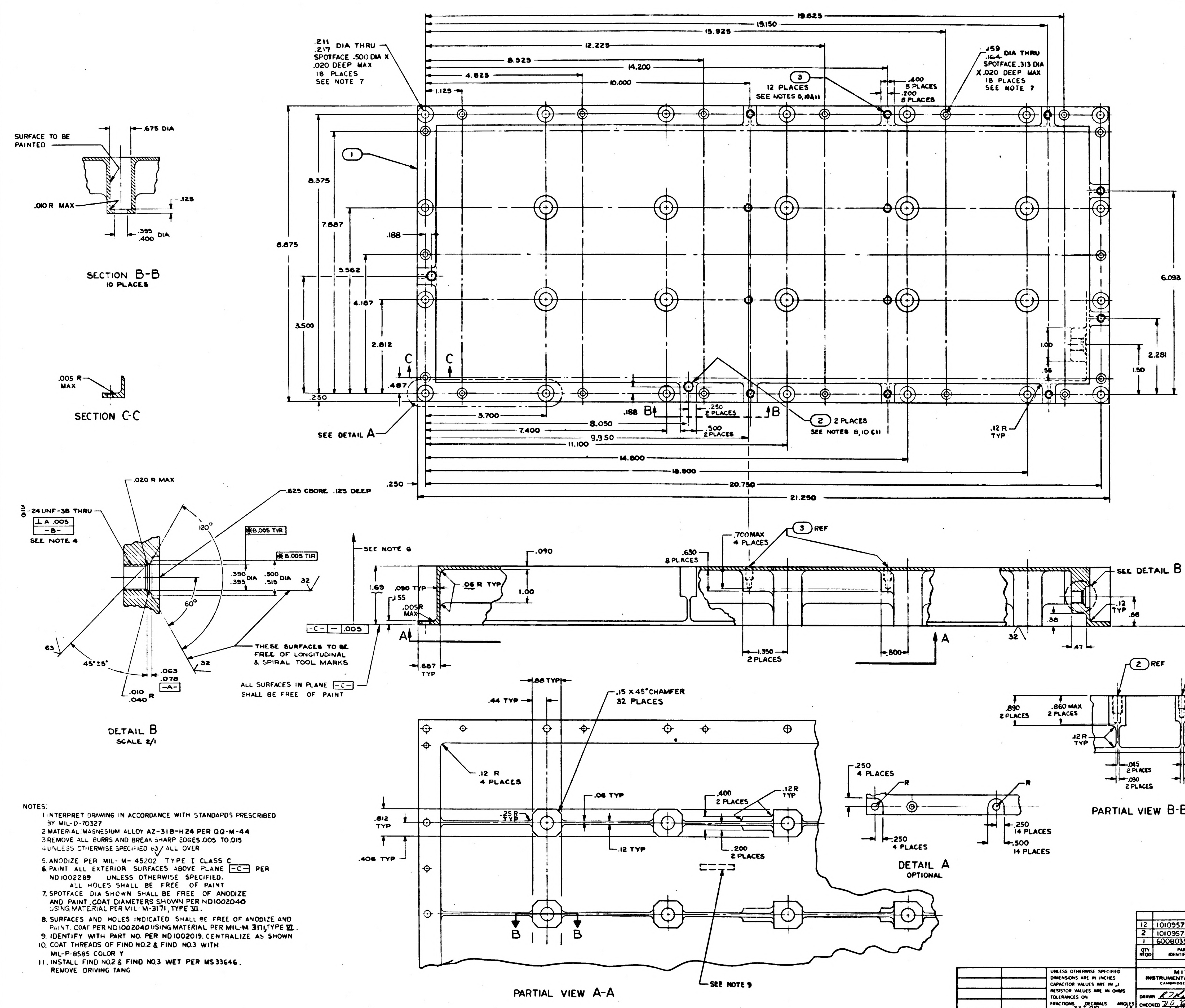
CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6008035

SCALE 1/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 24774

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25119	SGD		11 Jun '65	WK
B		REVISED PER TDRR 27797	DKD			


19.625
19.150
15.925
12.225
8.525
14.200
4.825
10.000
1.125
.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
③ 12 PLACES
SEE NOTES 8,10&11
.400 8 PLACES
.200 8 PLACES
.159 .164 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
①
8.375
8.875
7.887
.188
5.562
4.187
3.500
2.812
.487
.250
6.098
2.281
1.50
1.00
.56
C C
SEE DETAIL A
3.700
8.050
7.400
9.950
11.100
14.800
18.500
20.750
21.250
.188 B B
.250 2 PLACES
.500 2 PLACES
② 2 PLACES
SEE NOTES 8,10 & 11
.12 R TYP
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION B-B
10 PLACES
.005 R MAX
SECTION C-C
.020 R MAX
.625 CBORE .125 DEEP
.010-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
120°
B .005 TIR
B .005 TIR
.390 .395 DIA
.500 .515 DIA
32
60°
63
45° ±5°
.063 .078
-A-
.010 .040 R
32
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
DETAIL B
SCALE 2/1
SEE NOTE 6
.090
1.69
.090 TYP
.155
.005 R MAX
.06 R TYP
1.00
-C- ⏥ .005
A
.687 TYP
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
.630 8 PLACES
.700 MAX 4 PLACES
③ REF
1.350 2 PLACES
.800
A
32
SEE DETAIL B
.12 TYP
.38
.88
.47
.88 TYP
.44 TYP
.15 X 45° CHAMFER 32 PLACES
.12 R 4 PLACES
.06 TYP
.400 2 PLACES
.12 R TYP
.812 TYP
.25 R TYP
.12 TYP
.200 2 PLACES
.406 TYP
B B
SEE NOTE 9
PARTIAL VIEW A-A
.250 4 PLACES
R
R
.250 14 PLACES
.500 14 PLACES
.250 4 PLACES
DETAIL A
OPTIONAL
② REF
③ REF
.890 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.12 R TYP
.12 R TYP
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES
PARTIAL VIEW B-B

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND1002289 UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. COAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI.
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. COAT PER ND1002040 USING MATERIAL PER MIL-M 3171, TYPE VI.
9. IDENTIFY WITH PART NO. PER ND1002019. CENTRALIZE AS SHOWN
10. COAT THREADS OF FIND NO.2 & FIND NO.3 WITH MIL-P-8585 COLOR Y
11. INSTALL FIND NO.2 & FIND NO.3 WET PER MS33646. REMOVE DRIVING TANG

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
12	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.010 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL

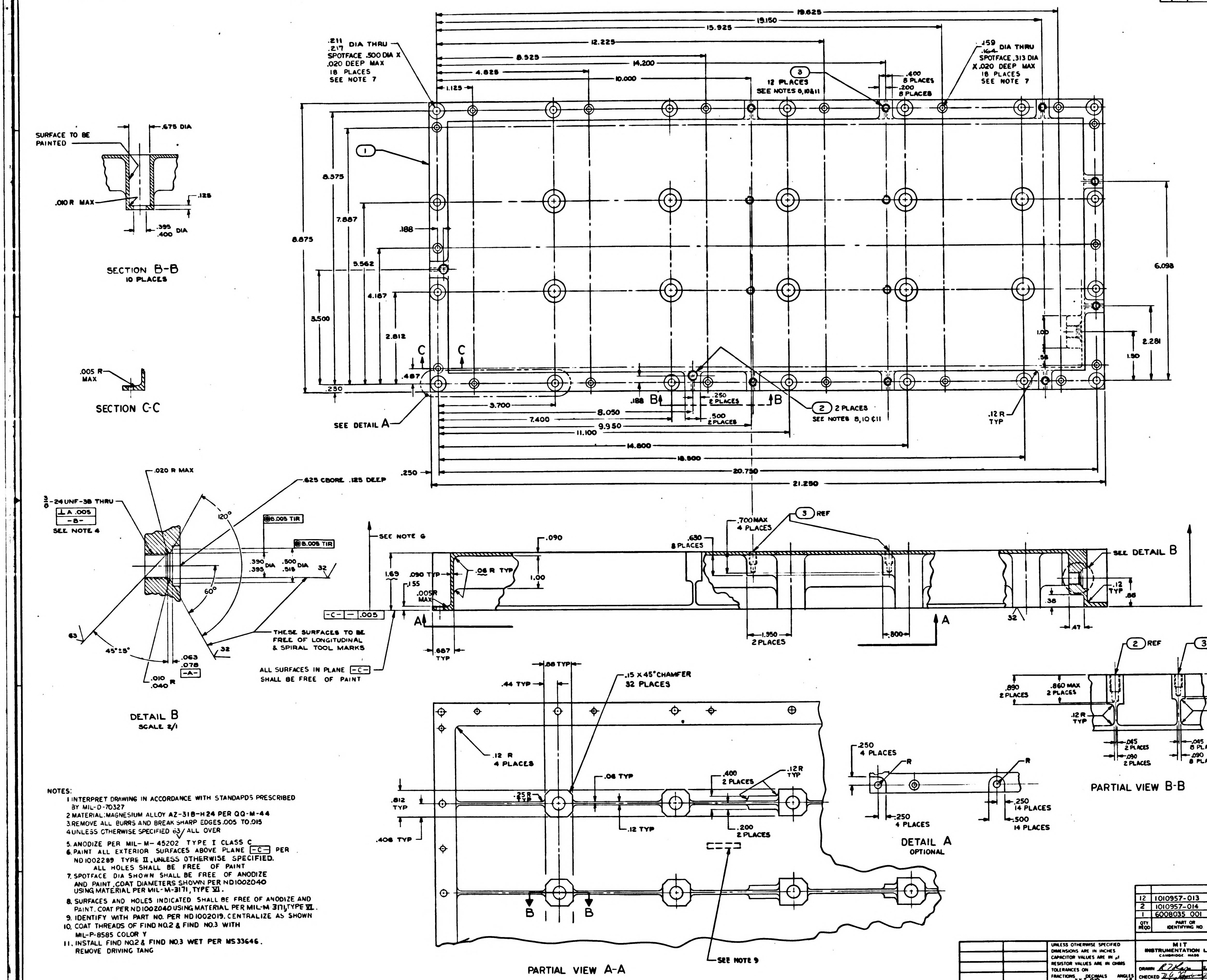
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. J. Kaye 27 DEC 65
CHECKED 28 DEC 65
APPROVED
APPROVED
APPROVED MIT W. Klaypfer
MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, INSEP
LEM PSA

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6008035
SCALE 1/1
SHEET 1 OF 1
DATE


SECTION B-B
10 PLACES
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION C-C
.005 R MAX
DETAIL B
SCALE 2/1
3/8-24UNF-3B THRU
SEE NOTE 4
.020 R MAX
.625 CBORE .125 DEEP
120°
60°
45°±5°
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
.159 .164 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
12 PLACES
SEE NOTES 8,10&11
.400 8 PLACES
.200 8 PLACES
2 PLACES
SEE NOTES 8,10&11
SEE DETAIL A
.12 R TYP
19.625
19.150
15.925
12.225
14.200
8.525
10.000
4.825
1.125
8.375
7.887
8.875
5.562
4.187
3.500
2.812
.188
.230
.487
6.098
2.281
1.90
3.700
8.050
7.400
9.950
11.100
14.800
18.900
20.750
21.250
.250
SEE NOTE 6
.090
1.00
1.69
.630 8 PLACES
.700 MAX 4 PLACES
REF
SEE DETAIL B
1.550 2 PLACES
.800
.687 TYP
.47
.38
.88
PARTIAL VIEW A-A
.15 X 45° CHAMFER 32 PLACES
.12 R 4 PLACES
.812 TYP
.406 TYP
.400 2 PLACES
.200 2 PLACES
SEE NOTE 9
DETAIL A
OPTIONAL
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES
PARTIAL VIEW B-B
.890 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES

REVISIONS 24974						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25119	SJD		11 Jun 65	
B		REVISED PER TDRR 27797	DKD			
C	B·6	REVISED PER TDRR 31192	ME	BW	9 SEP 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDAPDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63√ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND1002289 TYRE II, UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. COAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI.
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. COAT PER ND1002040 USING MATERIAL PER MIL-M 3171, TYPE VI.
9. IDENTIFY WITH PART NO. PER ND1002019. CENTRALIZE AS SHOWN
10. COAT THREADS OF FIND NO.2 & FIND NO.3 WITH MIL-P-8585 COLOR Y
11. INSTALL FIND NO.2 & FIND NO.3 WET PER MS33646. REMOVE DRIVING TANG

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
12	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.010 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R Z Kap 27 DEC 63
CHECKED 24 DEC 63
APPROVED
APPROVED

APPROVED MIT 28 Dec 63
MSC A. G. METZGER

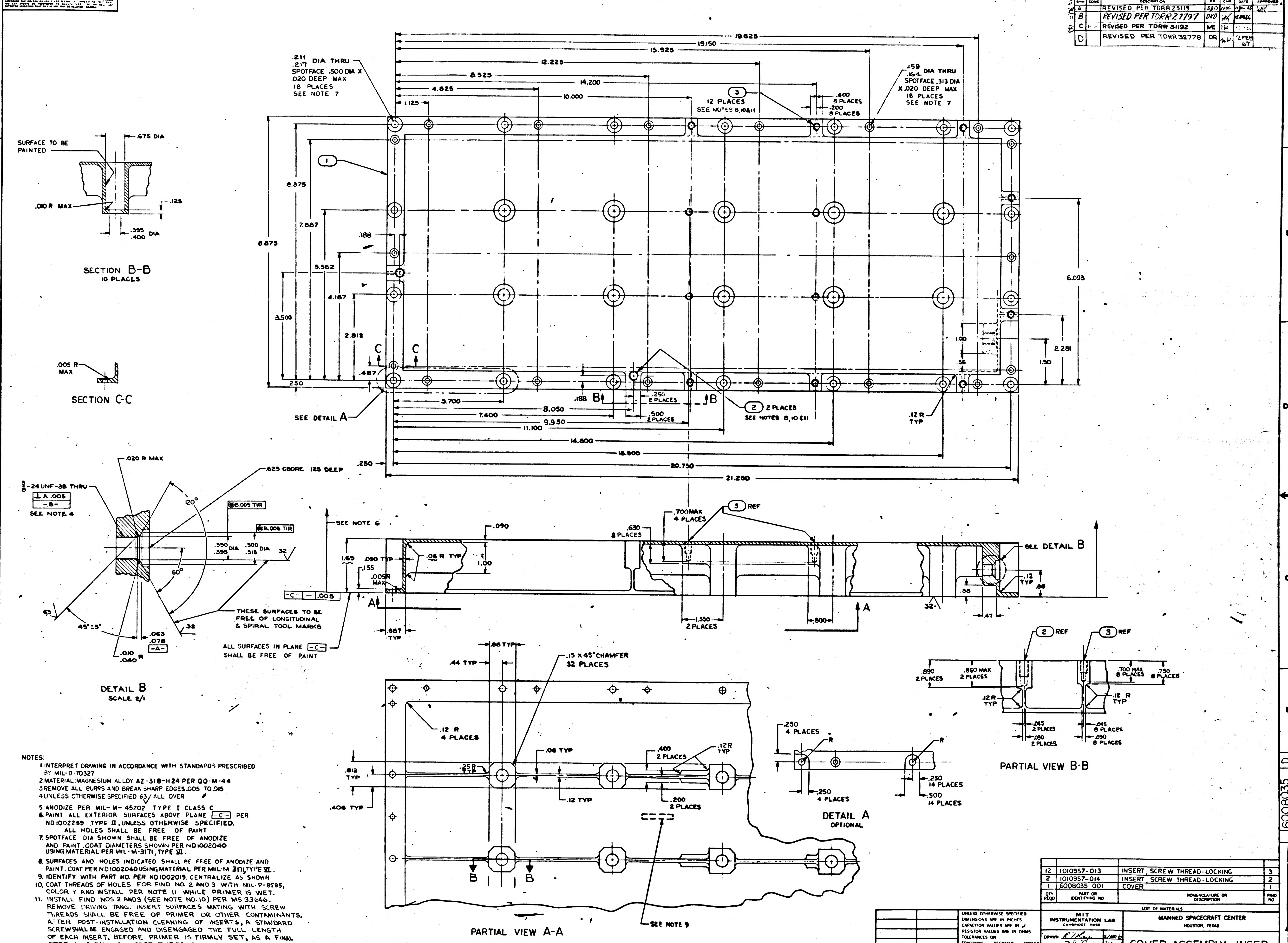
COVER ASSEMBLY, INSEP
LEM PSA

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6008035
SCALE 1/1
SHEET 1 OF 1
DATE

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 24774

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25119	SGD		11 Jun '65	WK
B		REVISED PER TDRR 27797	DKD			
C		REVISED PER TDRR 31192	ME	IW		
D		REVISED PER TDRR 32778	DR	M.W.	2 FEB 67	


19.625
19.150
15.925
12.225
14.200
8.525
10.000
4.825
1.125
.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
③ 12 PLACES SEE NOTES 8,10&11
.400 8 PLACES
.200 8 PLACES
.159 .164 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
①
8.375
7.887
8.875
5.562
4.187
3.500
2.812
.188
.230
.487
C
C
6.093
2.281
1.50
1.00
.56
.12 R TYP
SEE DETAIL A
3.700
8.050
7.400
9.950
11.100
14.800
18.800
20.750
21.250
.250
.188
B
B
.250 2 PLACES
.500 2 PLACES
② 2 PLACES SEE NOTES 8,10&11
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION B-B
10 PLACES
.005 R MAX
SECTION C-C
.020 R MAX
.625 CBORE .125 DEEP
.190-24UNF-3B THRU
⊥ A .005 -B-
SEE NOTE 4
120°
60°
B .005 TIR
.390 .395 DIA
.500 .515 DIA
32
63
45°±5°
.063 .078
-A-
.010 .040 R
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
DETAIL B
SCALE 2/1
SEE NOTE 6
.090
.700 MAX 4 PLACES
③ REF
.630 8 PLACES
.06 R TYP
1.69
.090 TYP
1.55
.005 R MAX
1.00
-C- .005
A
.687 TYP
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
1.350 2 PLACES
.800
A
32
SEE DETAIL B
.12 TYP
.38
.47
.86
② REF
③ REF
.890 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.12 R TYP
.12 R TYP
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES
PARTIAL VIEW B-B
.68 TYP
.44 TYP
.15 X 45° CHAMFER 32 PLACES
.12 R 4 PLACES
.06 TYP
.400 2 PLACES
.12 R TYP
.812 TYP
.25 R TYP
.12 TYP
.200 2 PLACES
.406 TYP
B
B
SEE NOTE 9
PARTIAL VIEW A-A
.250 4 PLACES
R
R
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES
DETAIL A
OPTIONAL

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDAPDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63/ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND1002289 TYPE II, UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. COAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI.
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. COAT PER ND1002040 USING MATERIAL PER MIL-M 3171, TYPE VI.
9. IDENTIFY WITH PART NO. PER ND1002019. CENTRALIZE AS SHOWN
10. COAT THREADS OF HOLES FOR FIND NO. 2 AND 3 WITH MIL-P-8585, COLOR Y AND INSTALL PER NOTE 11 WHILE PRIMER IS WET.
11. INSTALL FIND NOS. 2 AND 3 (SEE NOTE NO. 10) PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW THREADS SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.010 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

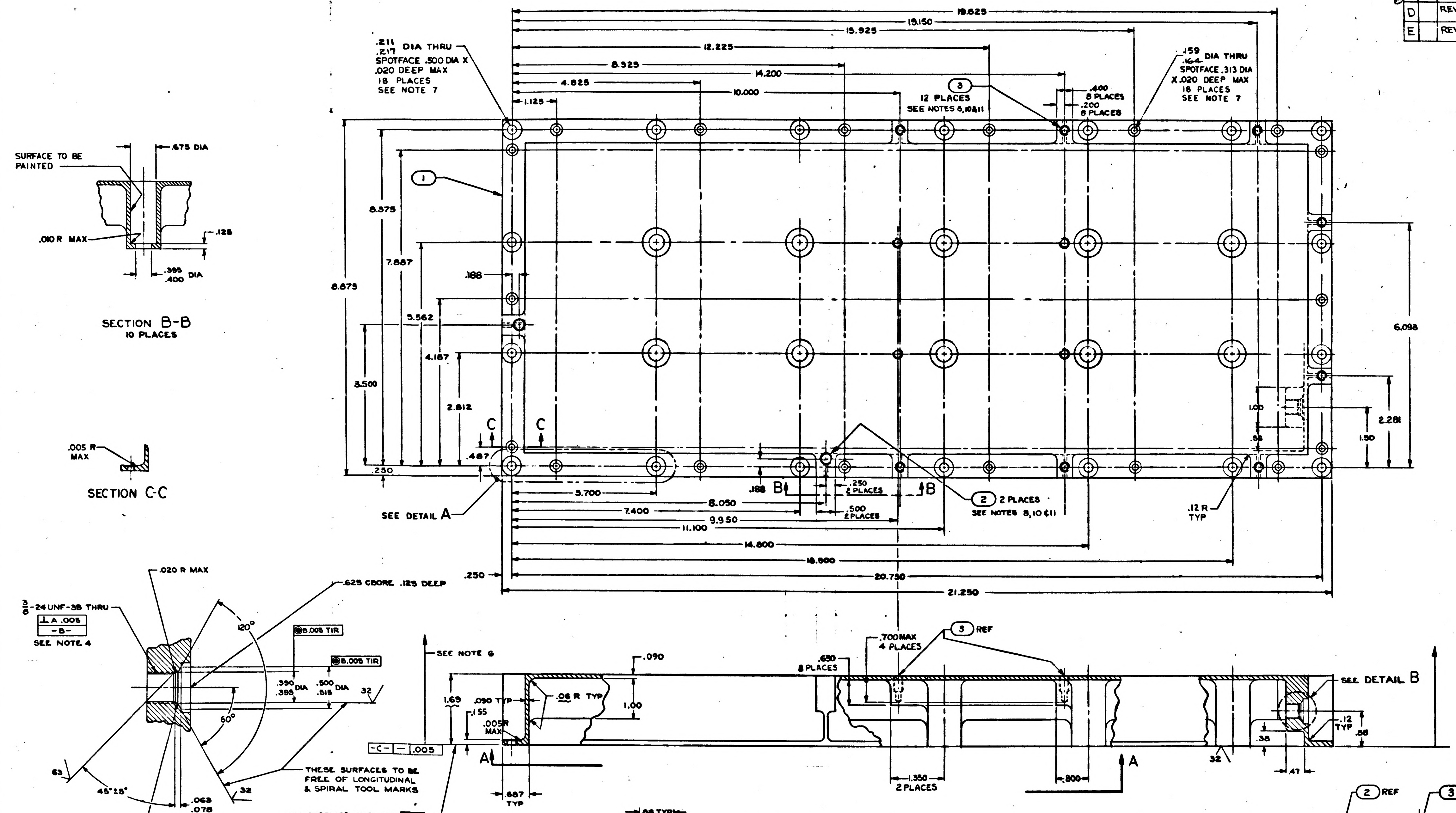
DRAWN R. J. Kay 27 DEC '65
CHECKED
APPROVED
APPROVED
APPROVED MIT W. Kapp
MSC

COVER ASSEMBLY, INSEP
LEM PSA

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6008035
SCALE 1/1
SHEET 1 OF 1
DATE

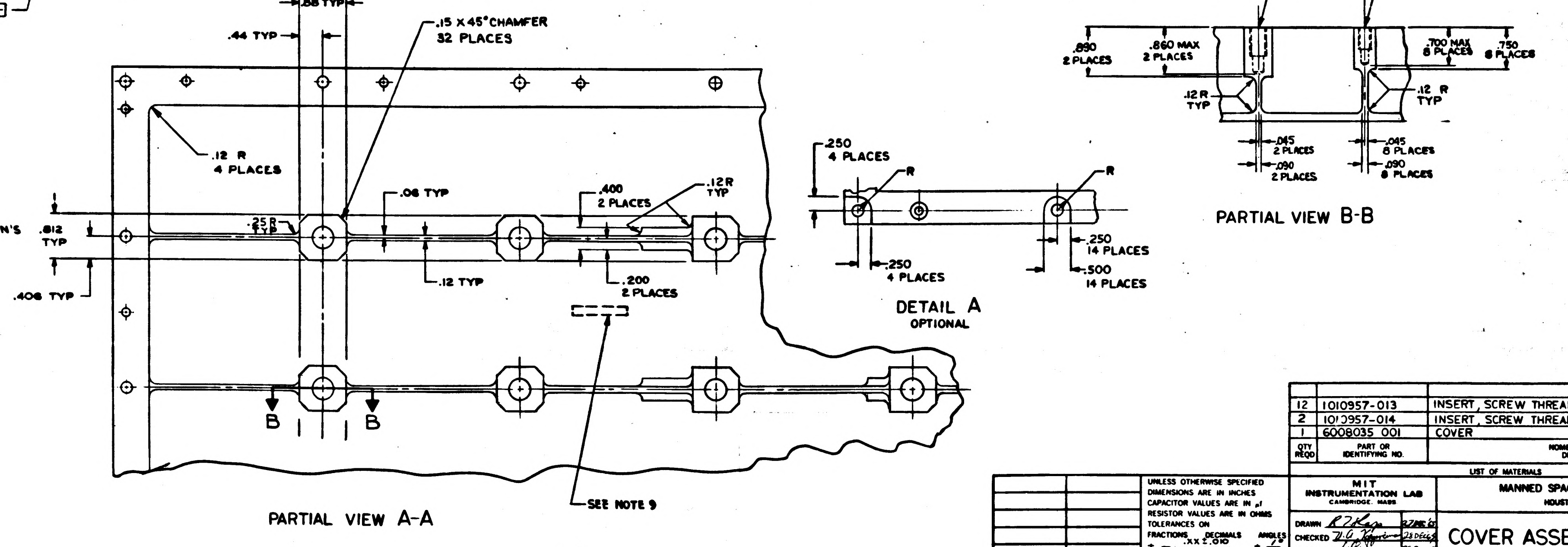
6008035 D

REVISIONS 24974						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25119	SGD		11 Jun '65	WK
B		REVISED PER TDRR 27797	DKD			
C	B-6	REVISED PER TDRR 31192	ME		9 SEP 66	
D		REVISED PER TDRR 32778	DR	n.W.	2 FEB 67	
E		REVISED PER TDRR 32796	DR	n.W.	2 FEB 67	



19.625
19.150
15.925
12.225
8.525
14.200
4.825
10.000
1.125
.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
3
12 PLACES
SEE NOTES 8,10 & 11
.400 8 PLACES
.200 8 PLACES
.159 .164 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
1
8.375
8.875
7.887
.188
5.562
4.187
3.500
2.812
.487
.250
C
C
6.098
2.281
1.50
1.00
.56
3.700
7.400
8.050
9.950
11.100
14.800
18.800
20.750
21.250
.250
.188
B
B
.250 2 PLACES
.500 2 PLACES
2
2 PLACES
SEE NOTES 8,10 & 11
.12 R TYP
SEE DETAIL A
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION B-B
10 PLACES
.005 R MAX
SECTION C-C
.020 R MAX
.625 CBORE .125 DEEP
3/8-24 UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
⊚ .005 TIR
⊚ .005 TIR
120°
.390 .395 DIA
.500 .515 DIA
32
60°
63
45° ± 5°
.010 .040 R
.063 .078
-A-
32
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
SEE NOTE 6
.090
1.69
.090 TYP
.155
.06 R TYP
1.00
.005 R MAX
-C- .005
A
.687 TYP
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
.630 8 PLACES
.700 MAX 4 PLACES
3 REF
1.350 2 PLACES
.800
A
32
.47
.38
SEE DETAIL B
.12 TYP
.88

DETAIL B
SCALE 2/1



.88 TYP
.44 TYP
.15 X 45° CHAMFER
32 PLACES
.12 R
4 PLACES
.06 TYP
.25 R TYP
.812 TYP
.400 2 PLACES
.12 R TYP
.12 TYP
.200 2 PLACES
.406 TYP
B
B
SEE NOTE 9
.250 4 PLACES
R
R
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES
2 REF
3 REF
.880 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.12 R TYP
.12 R TYP
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES

PARTIAL VIEW A-A

DETAIL A
OPTIONAL

PARTIAL VIEW B-B

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44 AND MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S ULTRASONIC STANDARD FOR PLATE, EXTRUSIONS AND FORGINGS.
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63✓ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C. TOUCH-UP, EXCLUDING CORROSION, PER ND1002040.
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND1002289 TYPE II, UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. COAT DIAMETERS SHOWN PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI.
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. COAT PER ND1002040 USING MATERIAL PER MIL-M-3171, TYPE VI.
9. IDENTIFY WITH PART NO. PER ND1002019. CENTRALIZE AS SHOWN
10. COAT THREADS OF HOLES FOR FIND NO. 2 AND 3 WITH MIL-P-8585, COLOR Y AND INSTALL PER NOTE 11 WHILE PRIMER IS WET.
11. INSTALL FIND NOS. 2 AND 3 (SEE NOTE NO. 10) PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW THREADS SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
12	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .010 .XXX ± .005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL

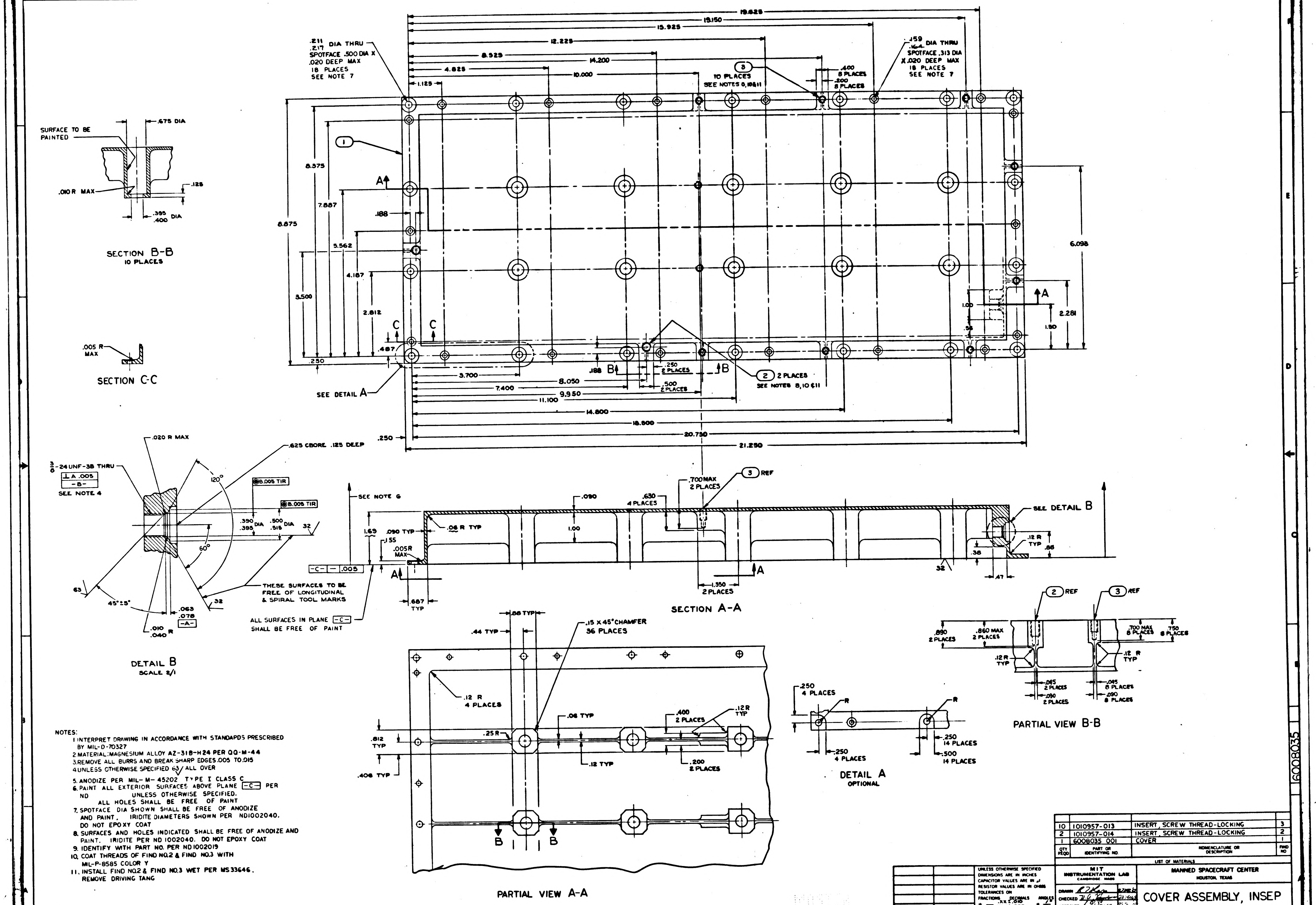
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. J. Kap 27 DEC 65
CHECKED D. G. 28 DEC 65
APPROVED 28 Dec 65
APPROVED
APPROVED MIT W. Wynyfer 28 Dec 65
MSC A. G. METZGER

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, INSEP
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6008035
SCALE 1/1
SHEET 1 OF 1


19.625
19.150
15.925
12.225
8.925
14.200
4.825
10.000
1.125
.211 .217 DIA THRU
SPOTFACE .500 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
③ 10 PLACES
SEE NOTES 6,10&11
.400 8 PLACES
.200 8 PLACES
.159 DIA THRU
SPOTFACE .313 DIA X .020 DEEP MAX
18 PLACES
SEE NOTE 7
①
8.375
7.887
8.875
5.562
4.187
3.500
2.812
.188
.250
.487
A
C
C
6.098
2.281
1.50
1.00
.94
3.700
8.050
7.400
9.950
11.100
14.800
18.800
20.750
21.250
.250
.188
B
B
.250 2 PLACES
.500 2 PLACES
② 2 PLACES
SEE NOTES 8,10&11
SEE DETAIL A
SURFACE TO BE PAINTED
.675 DIA
.010 R MAX
.125
.395 .400 DIA
SECTION B-B
10 PLACES
.005 R MAX
SECTION C-C
.020 R MAX
3/8-24UNF-3B THRU
⊥ A .005
-B-
SEE NOTE 4
.625 CBORE .125 DEEP
120°
◎ B .005 TIR
◎ B .005 TIR
.390 .395 DIA
.500 .515 DIA
32
60°
63
45°±5°
.063 .078
-A-
.010 .040 R
32
THESE SURFACES TO BE FREE OF LONGITUDINAL & SPIRAL TOOL MARKS
DETAIL B
SCALE 2/1
SEE NOTE 6
.090
.630 4 PLACES
.700 MAX 2 PLACES
③ REF
SEE DETAIL B
1.69
.090 TYP
.06 R TYP
1.00
.155
.005R MAX
-C- ⏥ .005
A
A
.687 TYP
1.350 2 PLACES
32
.12 R TYP
.38
.86
.47
ALL SURFACES IN PLANE -C- SHALL BE FREE OF PAINT
SECTION A-A
② REF
③ REF
.890 2 PLACES
.860 MAX 2 PLACES
.700 MAX 8 PLACES
.750 8 PLACES
.12 R TYP
.12 R TYP
.045 2 PLACES
.090 2 PLACES
.045 8 PLACES
.090 8 PLACES
PARTIAL VIEW B-B
.88 TYP
.44 TYP
.15 X 45° CHAMFER 36 PLACES
.12 R 4 PLACES
.06 TYP
.400 2 PLACES
.12 R TYP
.812 TYP
.25 R
.12 TYP
.200 2 PLACES
.406 TYP
B
B
PARTIAL VIEW A-A
.250 4 PLACES
R
R
.250 4 PLACES
.250 14 PLACES
.500 14 PLACES
DETAIL A
OPTIONAL
REVISIONS
SYM
ZONE
DESCRIPTION
DR
CHK
DATE
APPROVED
24974
6008035

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDAPDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY AZ-31B-H24 PER QQ-M-44
3. REMOVE ALL BURRS AND BREAK SHARP EDGES .005 TO .015
4. UNLESS OTHERWISE SPECIFIED 63/ ALL OVER
5. ANODIZE PER MIL-M-45202 TYPE I CLASS C
6. PAINT ALL EXTERIOR SURFACES ABOVE PLANE -C- PER ND UNLESS OTHERWISE SPECIFIED. ALL HOLES SHALL BE FREE OF PAINT
7. SPOTFACE DIA SHOWN SHALL BE FREE OF ANODIZE AND PAINT. IRIDITE DIAMETERS SHOWN PER ND1002040. DO NOT EPOXY COAT
8. SURFACES AND HOLES INDICATED SHALL BE FREE OF ANODIZE AND PAINT. IRIDITE PER ND 1002040. DO NOT EPOXY COAT
9. IDENTIFY WITH PART NO. PER ND1002019
10. COAT THREADS OF FIND NO.2 & FIND NO.3 WITH MIL-P-8585 COLOR Y
11. INSTALL FIND NO.2 & FIND NO.3 WET PER MS33646. REMOVE DRIVING TANG

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
10	1010957-013	INSERT, SCREW THREAD-LOCKING	3
2	1010957-014	INSERT, SCREW THREAD-LOCKING	2
1	6008035 001	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007200	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ±.010 .XXX ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R Z Kaye 27 MAR 65
CHECKED T. G. [illegible] 28 MAR 65
APPROVED [illegible] [illegible]
APPROVED
APPROVED MIT W Kupfer [illegible]
MSC A. G. METZGER

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY, INSEP
LEM PSA

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6008035
SCALE 1/1
SHEET 1 OF 1

REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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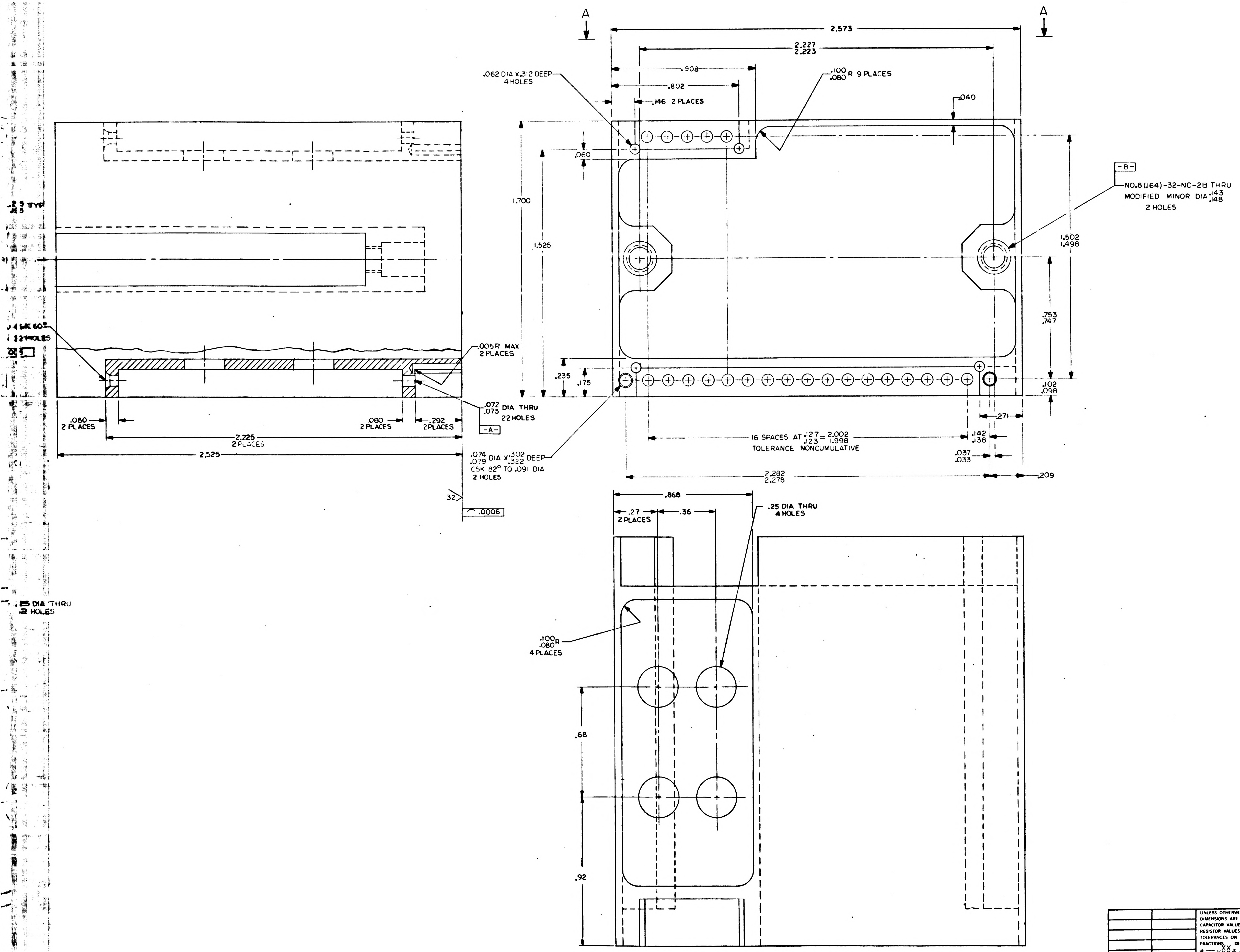


A
A
2.573
2.227
2.223
.908
.802
.146 2 PLACES
.062 DIA X .312 DEEP 4 HOLES
.100 .080 R 9 PLACES
.040
.060
1.700
1.525
-B-
NO.8 (.164)-32-NC-2B THRU MODIFIED MINOR DIA .143 .148 2 HOLES
1.502 1.498
.753 .747
.235
.175
.102 .098
.271
16 SPACES AT .127 .123 = 2.002 1.998 TOLERANCE NONCUMULATIVE
.142 .138
.037 .033
2.282 2.278
.209
.074 .079 DIA X .302 .322 DEEP CSK 82° TO .091 DIA 2 HOLES
.005R MAX 2 PLACES
.072 .073 DIA THRU 22 HOLES
-A-
.080 2 PLACES
.080 2 PLACES
.292 2 PLACES
2.225 2 PLACES
2.525
32
.0006
.868
.27 2 PLACES
.36
.25 DIA THRU 4 HOLES
.100 .080 R 4 PLACES
.68
.92
.25 DIA THRU .2 HOLES

QTY REQD	PART OR IDENTIFYING NO	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007011	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ed Mahoney 12 JAN 66
CHECKED
APPROVED 6 FEB 66
APPROVED
APPROVED MIT A.C. [illegible]
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME
CDU FINE ERRORS SIGNAL CONDITIONER

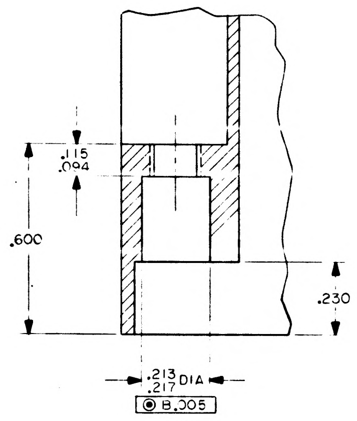
CODE IDENT NO 80230
SIZE J
DRAWING NO. 6008036
SCALE 1/1
SHEET 1 OF 1

6008036A

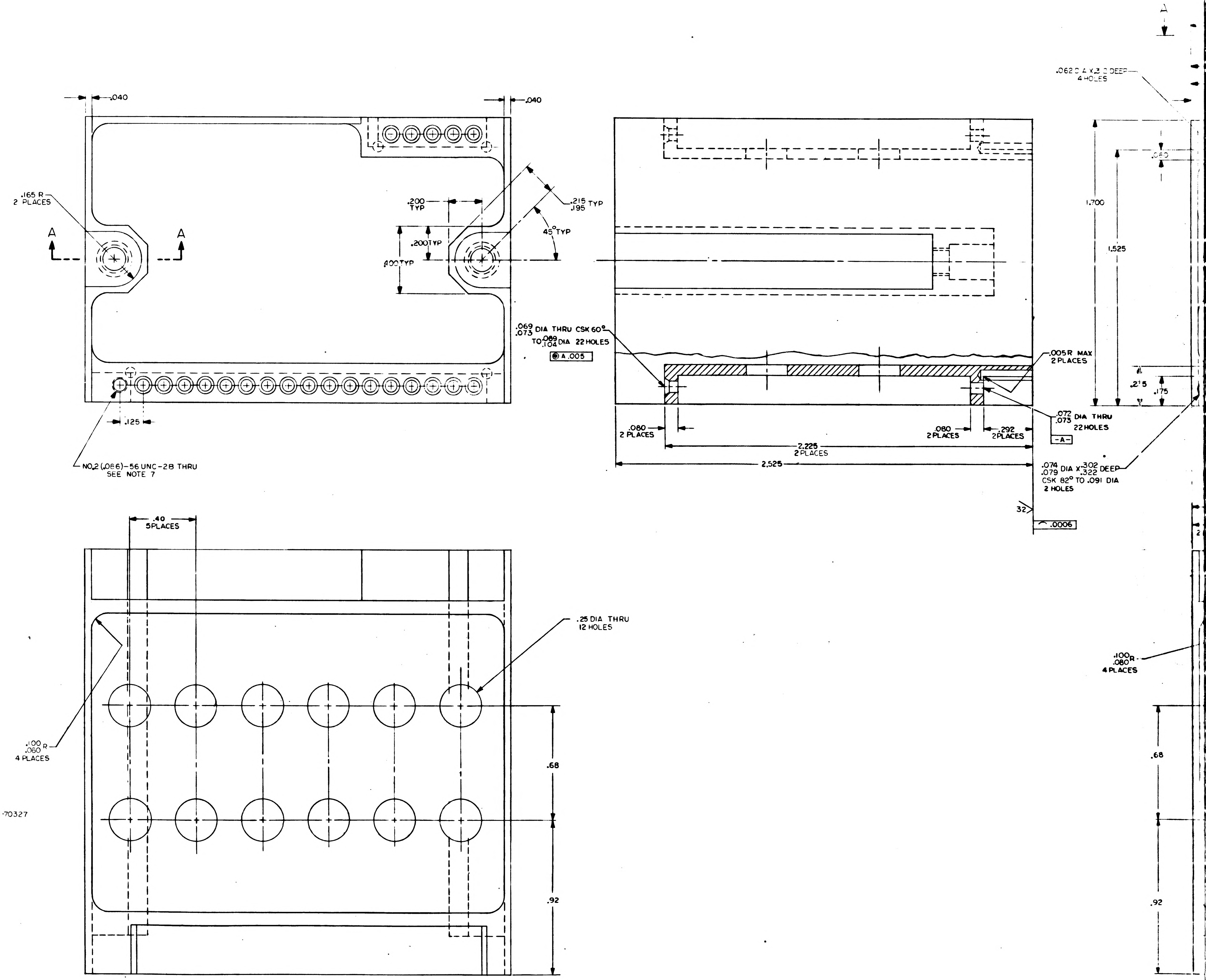
6008036 A

2/6008036

NOTICE - WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


.115
.094
.600
.230
.213
.217 DIA
⊚ B .005

PARTIAL SECTION A-A

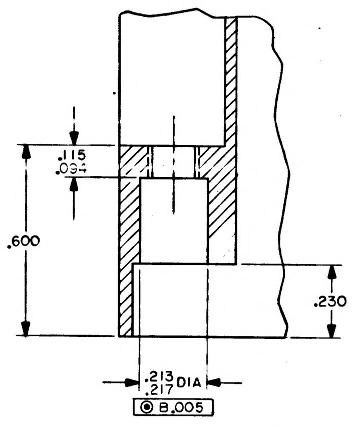

.040
.040
.165 R
2 PLACES
A
A
.200
TYP
.200 TYP
.400 TYP
.215
.195 TYP
45° TYP
.069
.073 DIA THRU CSK 60°
TO .089
.104 DIA 22 HOLES
⊚ A .005
.125
NO.2 (.086)-56 UNC-2B THRU
SEE NOTE 7
A
.062 DIA X.3?2 DEEP
4 HOLES
.060
1.700
1.525
.005R MAX
2 PLACES
.215
.175
.072
.073 DIA THRU
22 HOLES
-A-
.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
2.225
2 PLACES
2.525
.074
.079 DIA X .302
.322 DEEP
CSK 82° TO .091 DIA
2 HOLES
32
⌒ .0006
.40
5 PLACES
.25 DIA THRU
12 HOLES
.100
.080 R
4 PLACES
.68
.92
.100
.080 R
4 PLACES
.68
.92

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED $\sqrt{125}$ ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040 DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. ND1002019

6008036	A

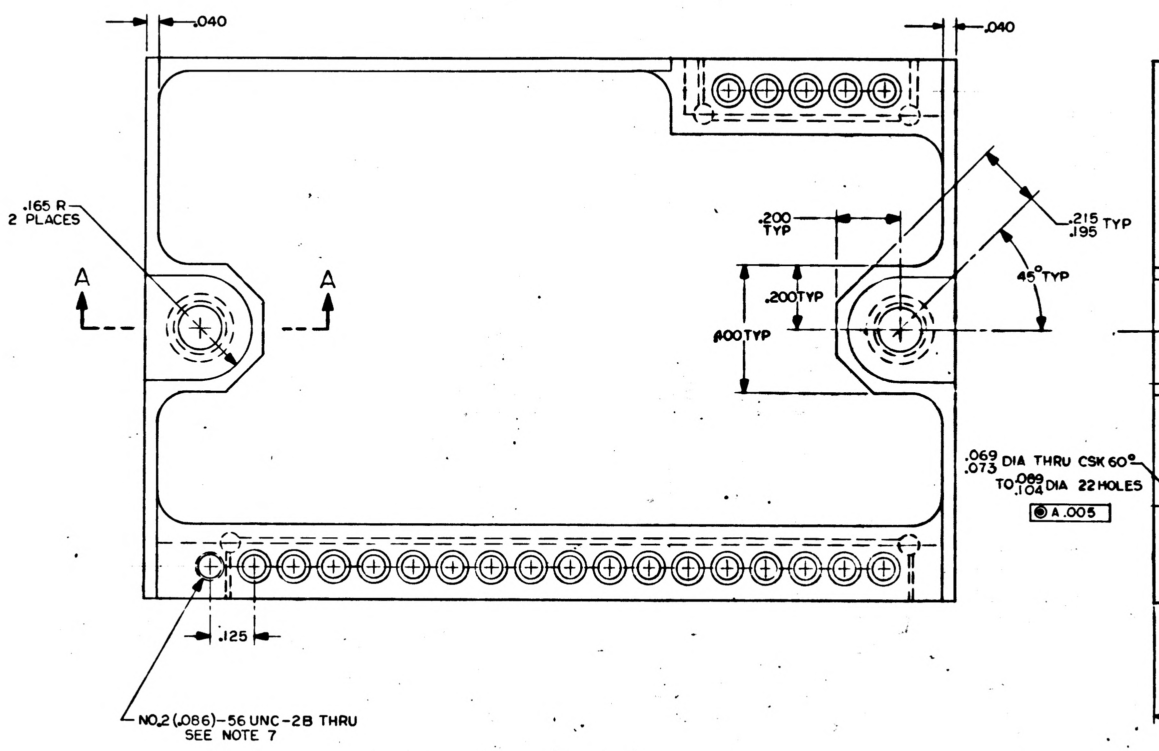
1/6008036

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

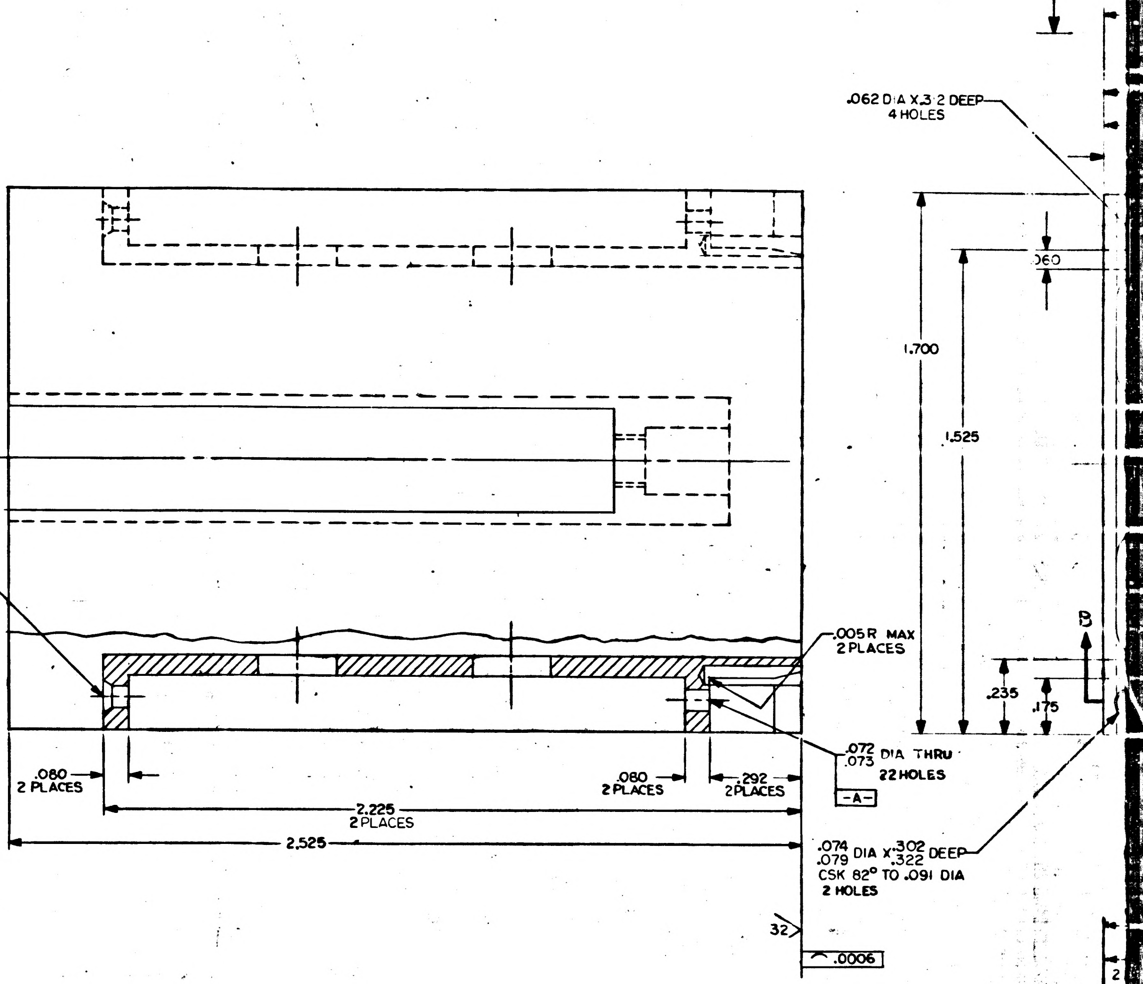


.115
.094
.600
.230
.213
.217 DIA
◎ B.005

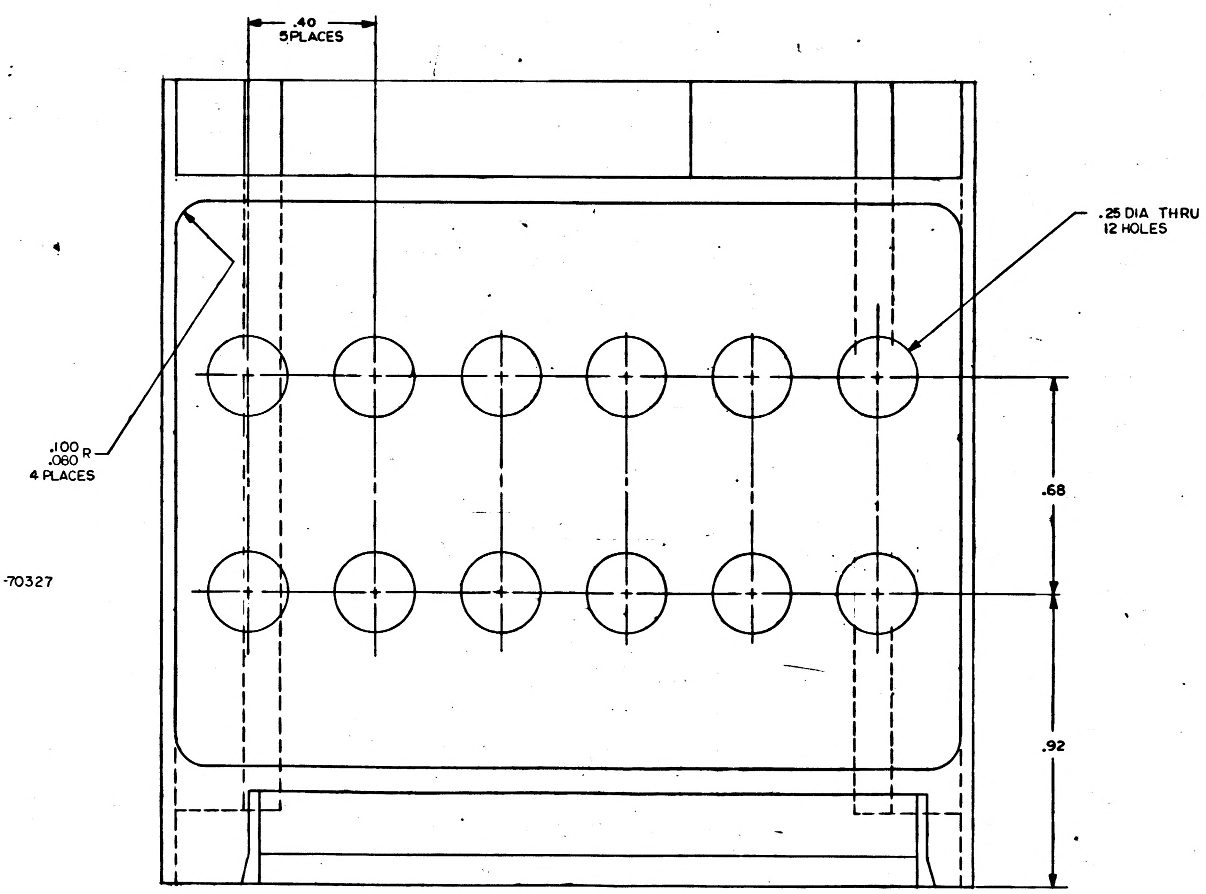
PARTIAL SECTION A-A



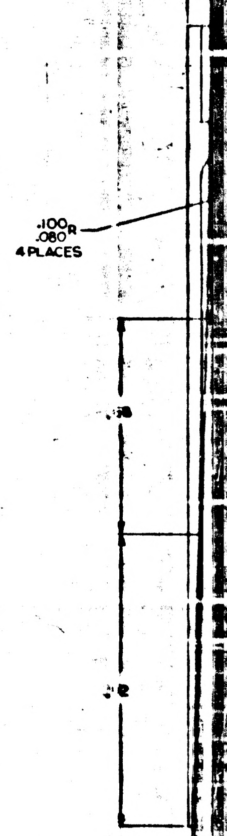
.040
.040
.165 R
2 PLACES
A
A
.200 TYP
.215
.195 TYP
45° TYP
.200 TYP
.400 TYP
.069
.073 DIA THRU CSK 60°
TO .089
.104 DIA 22 HOLES
◎ A .005
.125
NO.2 (.086)-56 UNC-2B THRU
SEE NOTE 7



A
.062 DIA X.312 DEEP
4 HOLES
.060
1.700
1.525
.005 R MAX
2 PLACES
B
.235
.175
.072
.073 DIA THRU
22 HOLES
-A-
.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
2.225
2 PLACES
2.525
.074
.079 DIA X .302
.322 DEEP
CSK 82° TO .091 DIA
2 HOLES
32
⌒ .0006



.40
5 PLACES
.25 DIA THRU
12 HOLES
.100
.080 R
4 PLACES
.68
.92



.100
.080 R
4 PLACES

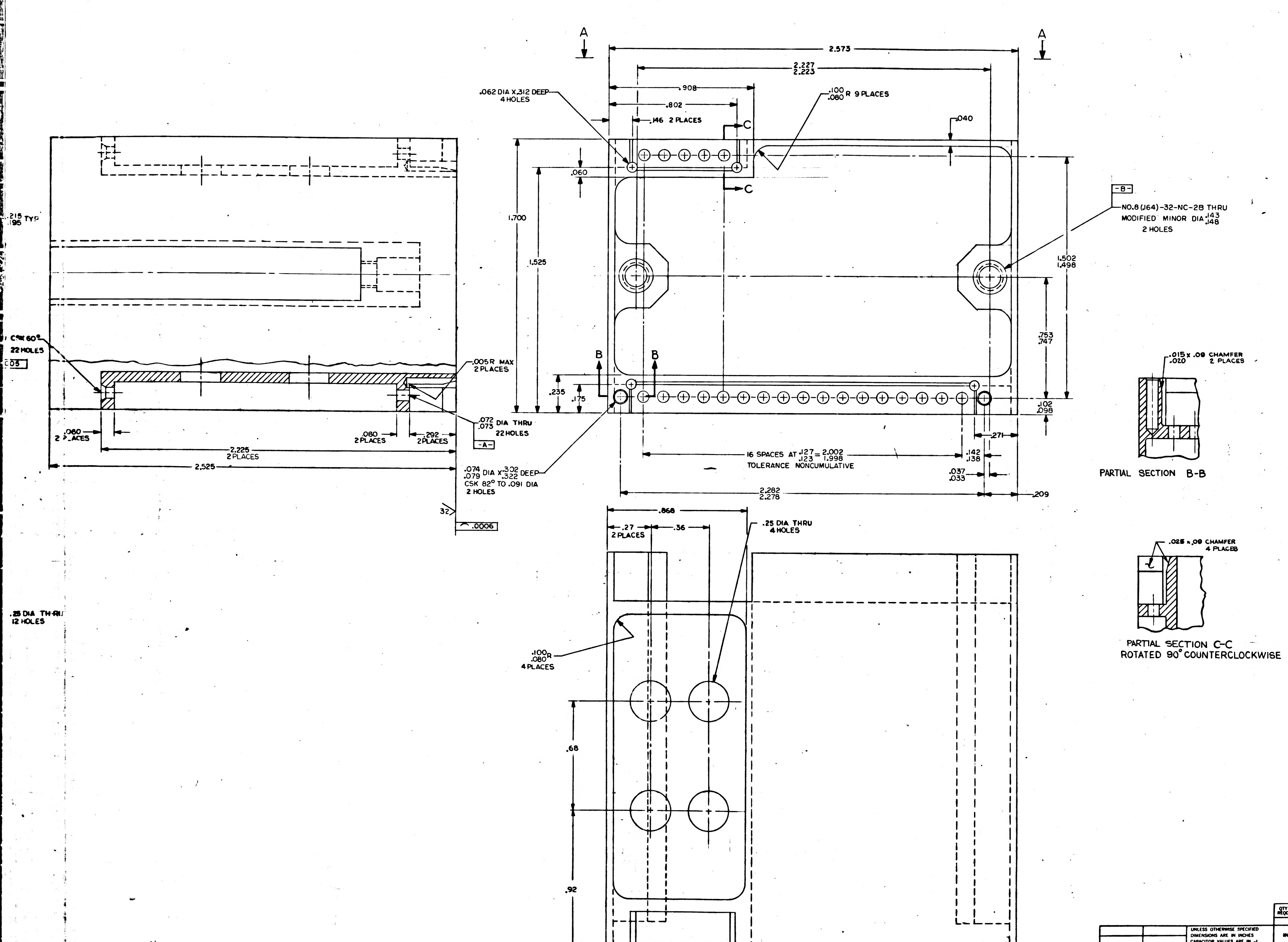
2H

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED √125 ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040 DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. ND1002019

6008036	B

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
(14) A		REVISED PER TDRR 29252		CW	13 JUNE 66	
B		REVISED PER TDRR 32427	REP	N.W.	10 JAN 67	



A
A
2.573
2.227
2.223
.908
.802
.146 2 PLACES
.062 DIA X .312 DEEP
4 HOLES
.100
.080 R 9 PLACES
.040
C
C
.060
1.700
1.525
-B-
NO.8 (.164)-32-NC-2B THRU
MODIFIED MINOR DIA .143 .148
2 HOLES
1.502
1.498
.753
.747
.102
.098
B
B
.235
.175
.271
16 SPACES AT .127 .123 = 2.002 1.998
TOLERANCE NONCUMULATIVE
.142
.136
.037
.033
2.282
2.278
.209
.074
.079 DIA X .302 .322 DEEP
CSK 82° TO .091 DIA
2 HOLES
.072
.073 DIA THRU
22 HOLES
-A-
.005R MAX
2 PLACES
CSK 60°
22 HOLES
.005
.215
.195 TYP
.060
2 PLACES
.080
2 PLACES
.292
2 PLACES
2.225
2 PLACES
2.525
32
.0006
.25 DIA THRU
12 HOLES
.868
.27
2 PLACES
.36
.25 DIA THRU
4 HOLES
.100
.080 R
4 PLACES
.68
.92
.015 x .09 CHAMFER
.020 2 PLACES
PARTIAL SECTION B-B
.025 x .09 CHAMFER
4 PLACES
PARTIAL SECTION C-C
ROTATED 90° COUNTERCLOCKWISE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007011	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ed Mahoney
CHECKED 4 FEB 66
APPROVED 6 FEB 66
APPROVED
APPROVED MIT W Kupfer
A.C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

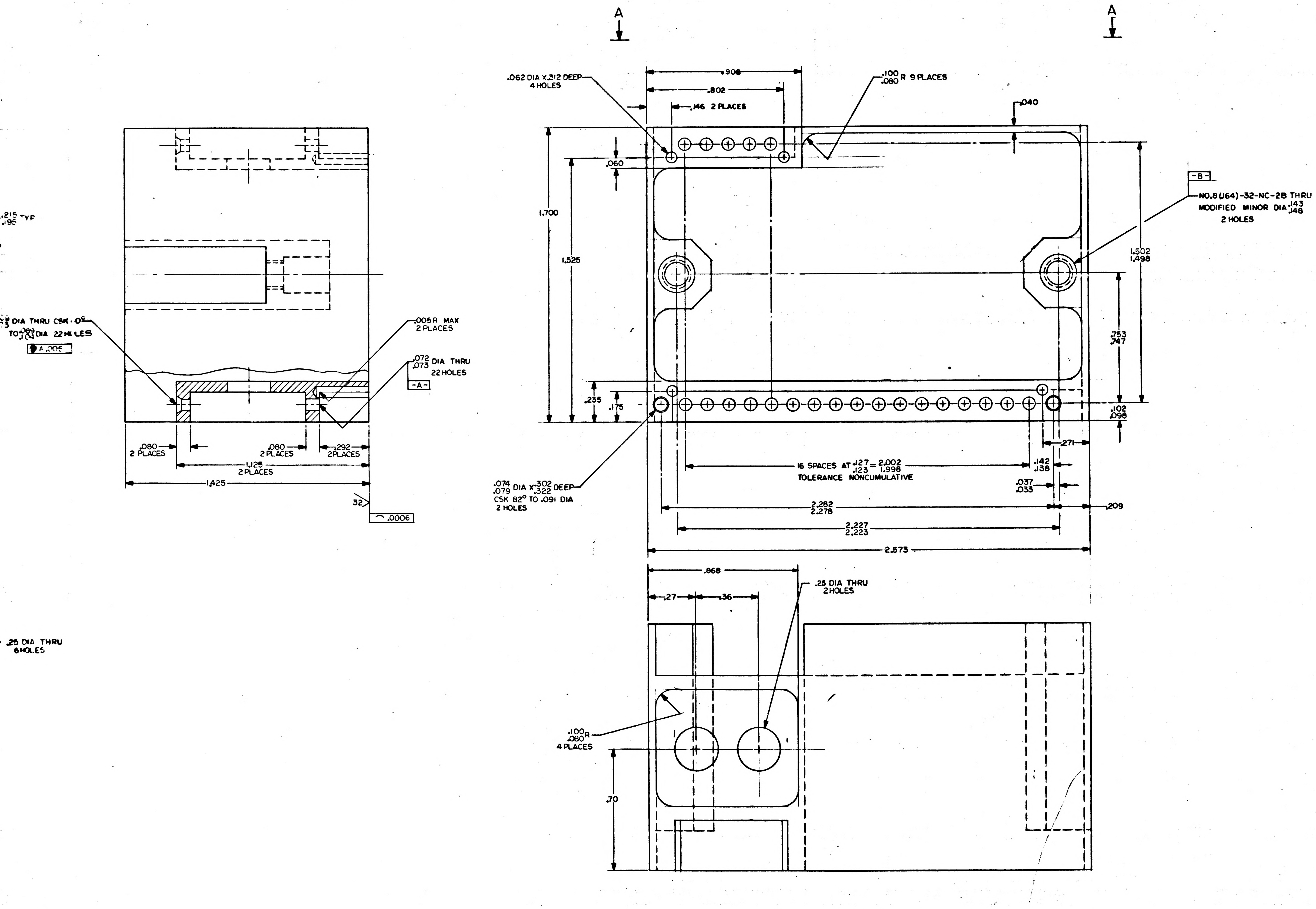
FRAME
CDU FINE ERRORS
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008036
SCALE 5/1
SHEET 1 OF 1

6008036 B

2/6008036

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



A
A
.908
.802
.146 2 PLACES
.062 DIA X .312 DEEP 4 HOLES
.100/.080 R 9 PLACES
.040
.060
1.700
1.525
-B-
NO.8(.164)-32-NC-2B THRU MODIFIED MINOR DIA .143/.148 2 HOLES
1.502/1.498
.753/.747
.235
.175
.102/.098
.271
16 SPACES AT .127/.123 = 2.002/1.998 TOLERANCE NONCUMULATIVE
.142/.138
.037/.033
.074/.079 DIA X .302/.322 DEEP CSK 82° TO .091 DIA 2 HOLES
2.282/2.278
2.227/2.223
.209
2.573
.868
.27
.36
.25 DIA THRU 2 HOLES
.100/.080 R 4 PLACES
.70
.215/.195 TYP
DIA THRU CSK 0° TO .09 DIA 22 HOLES
A .005
.005 R MAX 2 PLACES
.072/.075 DIA THRU 22 HOLES
-A-
.080 2 PLACES
.080 2 PLACES
.292 2 PLACES
1.125 2 PLACES
1.425
32
.0006
.25 DIA THRU 6 HOLES
A
B
C
D
1
2
3
4

VIEW A-A

F-2

MASTER

6007011	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ed Mahoney
CHECKED
APPROVED 6 FEB 66
APPROVED
APPROVED MIT A.C. METZGER
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME
CDU FINE ERRORS
SIGNAL CONDITIONER

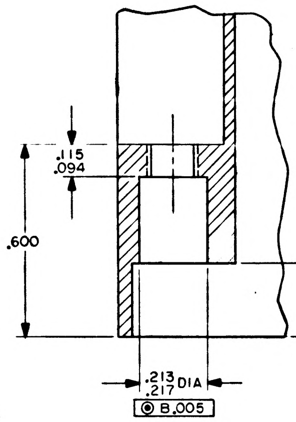
CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008036

SCALE 1/1 SHEET 1 OF 1

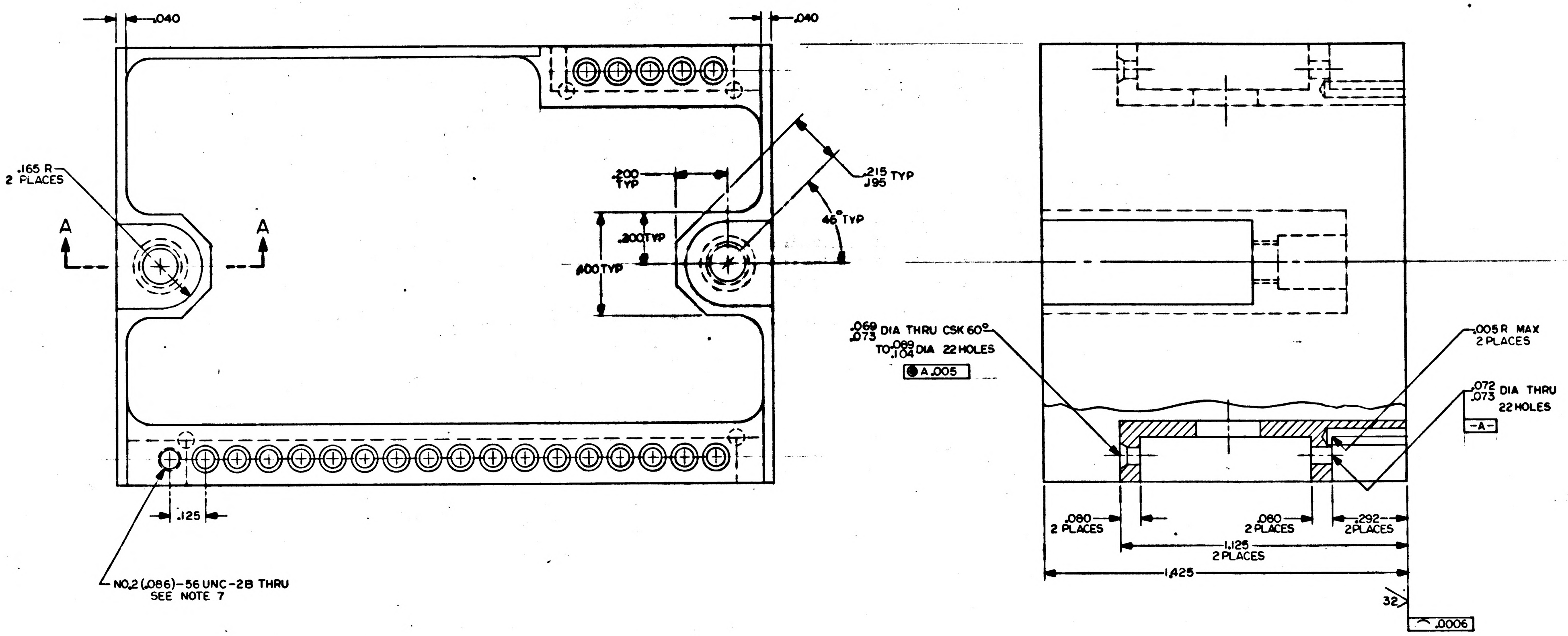
6008036

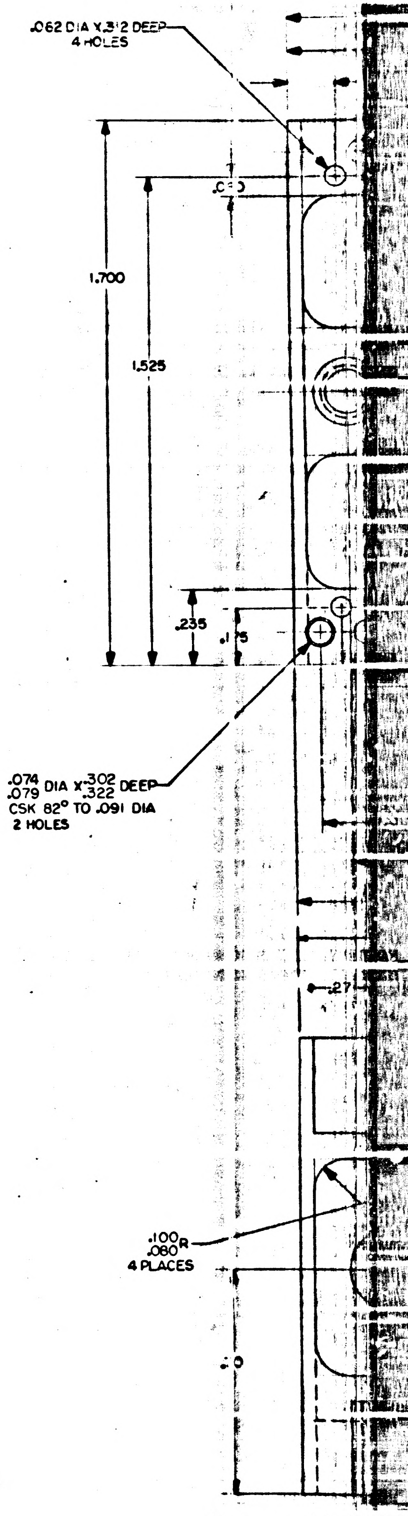
2H

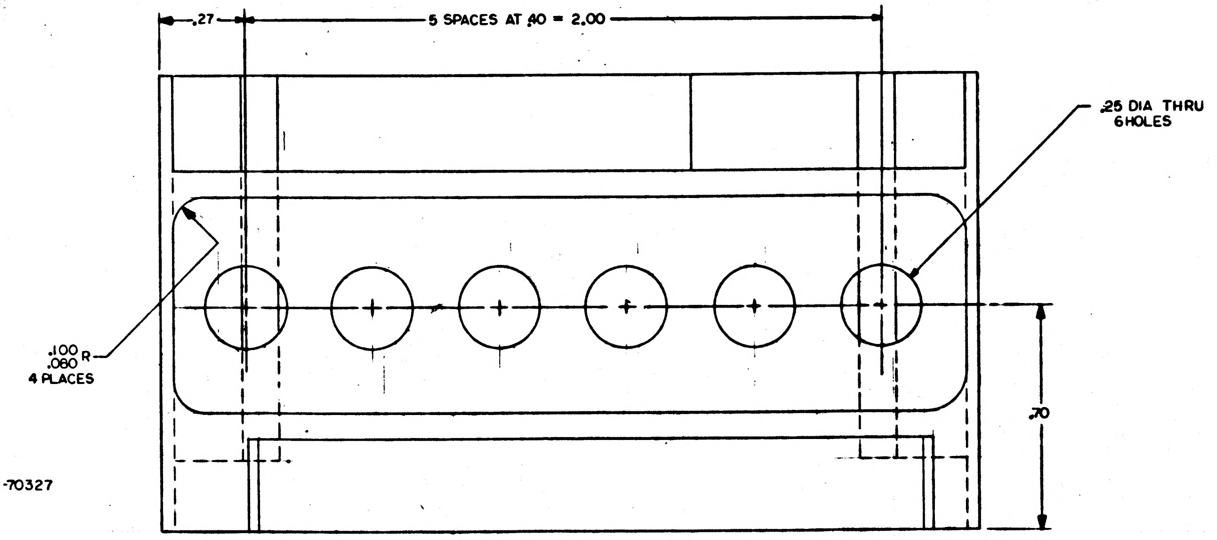
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


.115
.094
.600
.230
.213
.217 DIA
◎ B .005

PARTIAL SECTION A-A


.040
.040
.165 R
2 PLACES
A
A
.200
TYP
.215
.195 TYP
.200 TYP
.400 TYP
45° TYP
.125
NO.2 (.086)-56 UNC-2B THRU
SEE NOTE 7
.069
.073 DIA THRU CSK 60°
TO .089
.104 DIA 22 HOLES
● A .005
.005 R MAX
2 PLACES
.072
.073 DIA THRU
22 HOLES
-A-
.080
2 PLACES
.080
2 PLACES
.292
2 PLACES
1.125
2 PLACES
1.425
32
⌒ .0006


.062 DIA X .312 DEEP
4 HOLES
1.700
1.525
.235
.175
.074
.079 DIA X .302
.322 DEEP
CSK 82° TO .091 DIA
2 HOLES
.27
.100
.080 R
4 PLACES

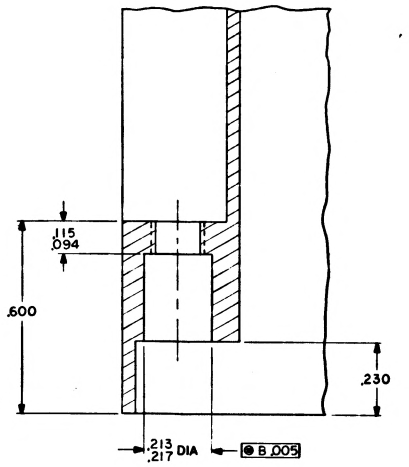

.27
5 SPACES AT .40 = 2.00
.25 DIA THRU
6 HOLES
.100
.080 R
4 PLACES
.70

NOTES:

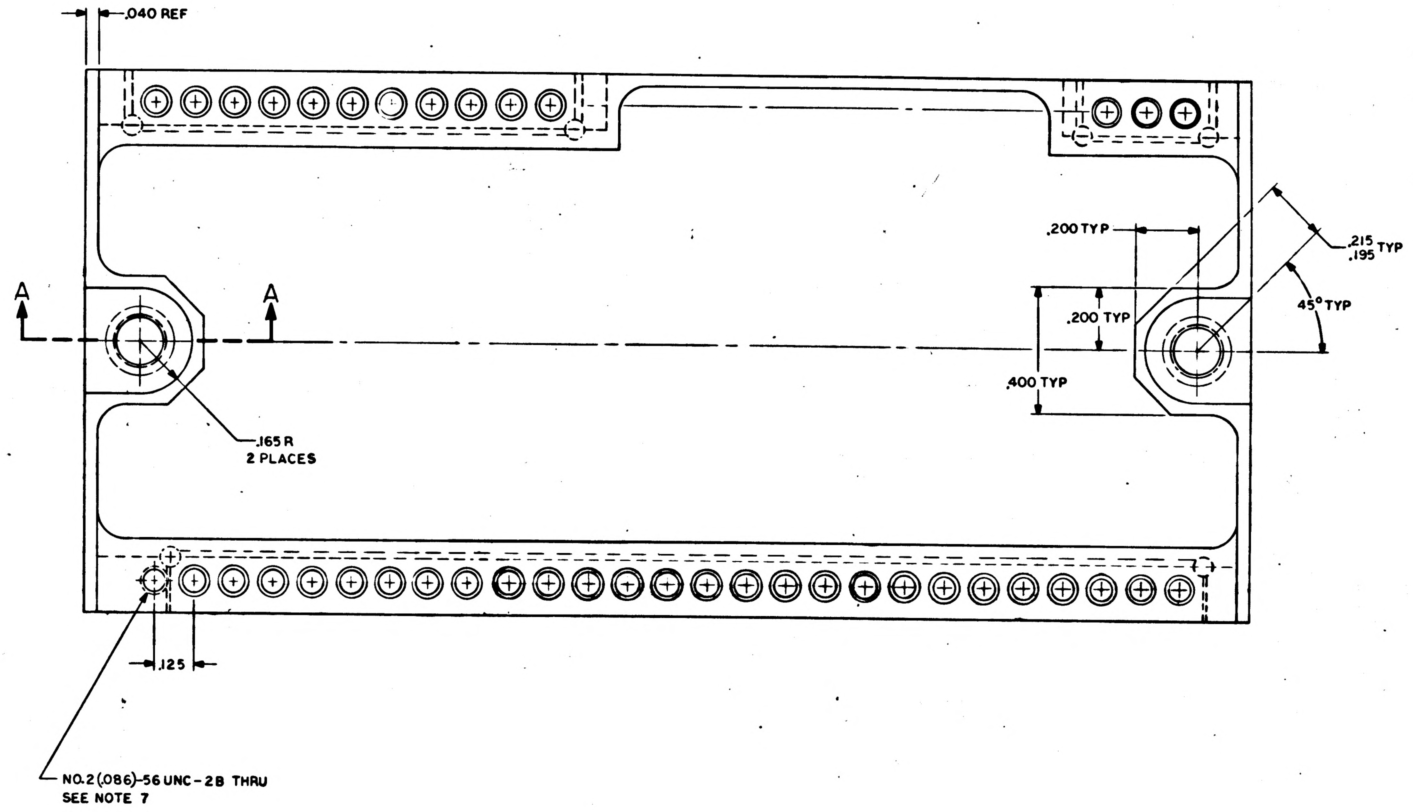
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED √125 ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040 DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. ND1002019

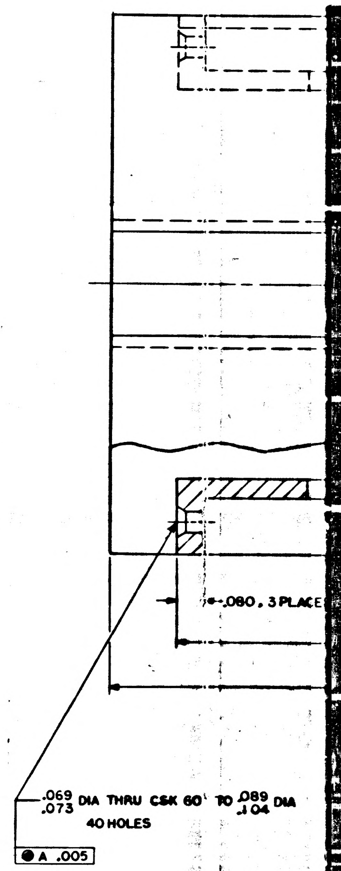
F-1

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


.115
.094
.600
.230
.213
.217 DIA
● B .005

PARTIAL SECTION A-A

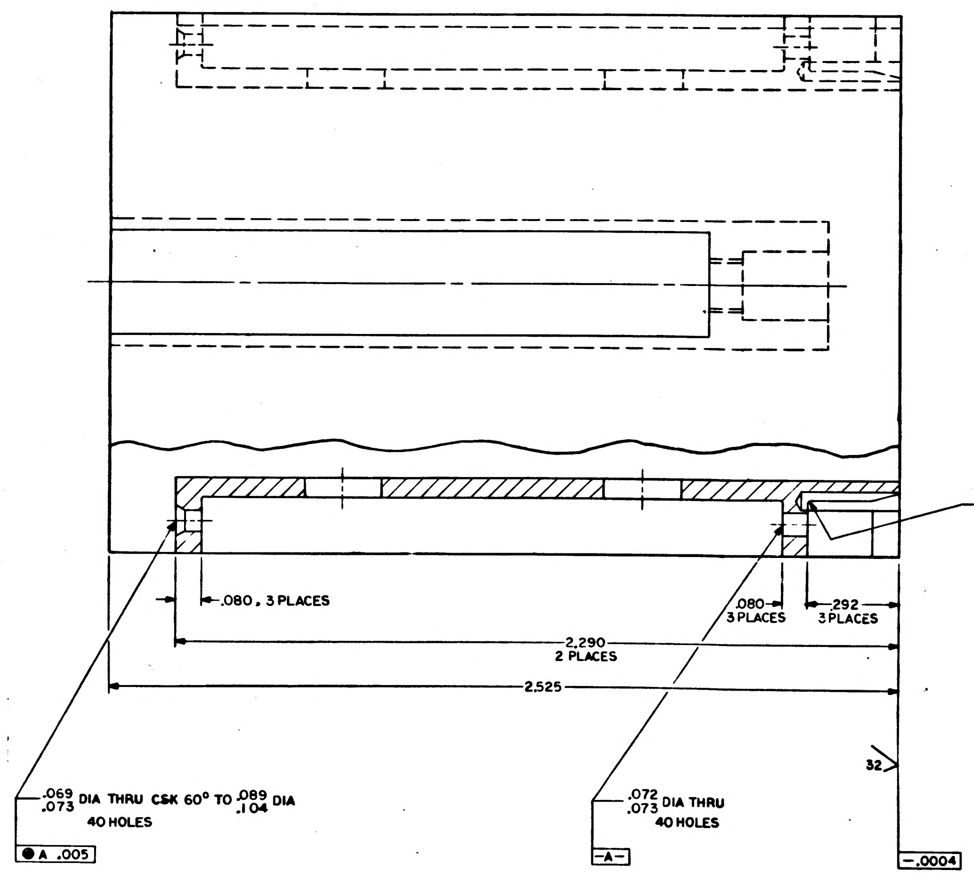

.040 REF
A
A
.200 TYP
.215
.195 TYP
.200 TYP
45° TYP
.400 TYP
.165 R
2 PLACES
.125
NO.2(.086)-56 UNC-2B THRU
SEE NOTE 7


.080, 3 PLACE
.069
.073 DIA THRU CSK 60° TO .089
.104 DIA
40 HOLES
● A .005

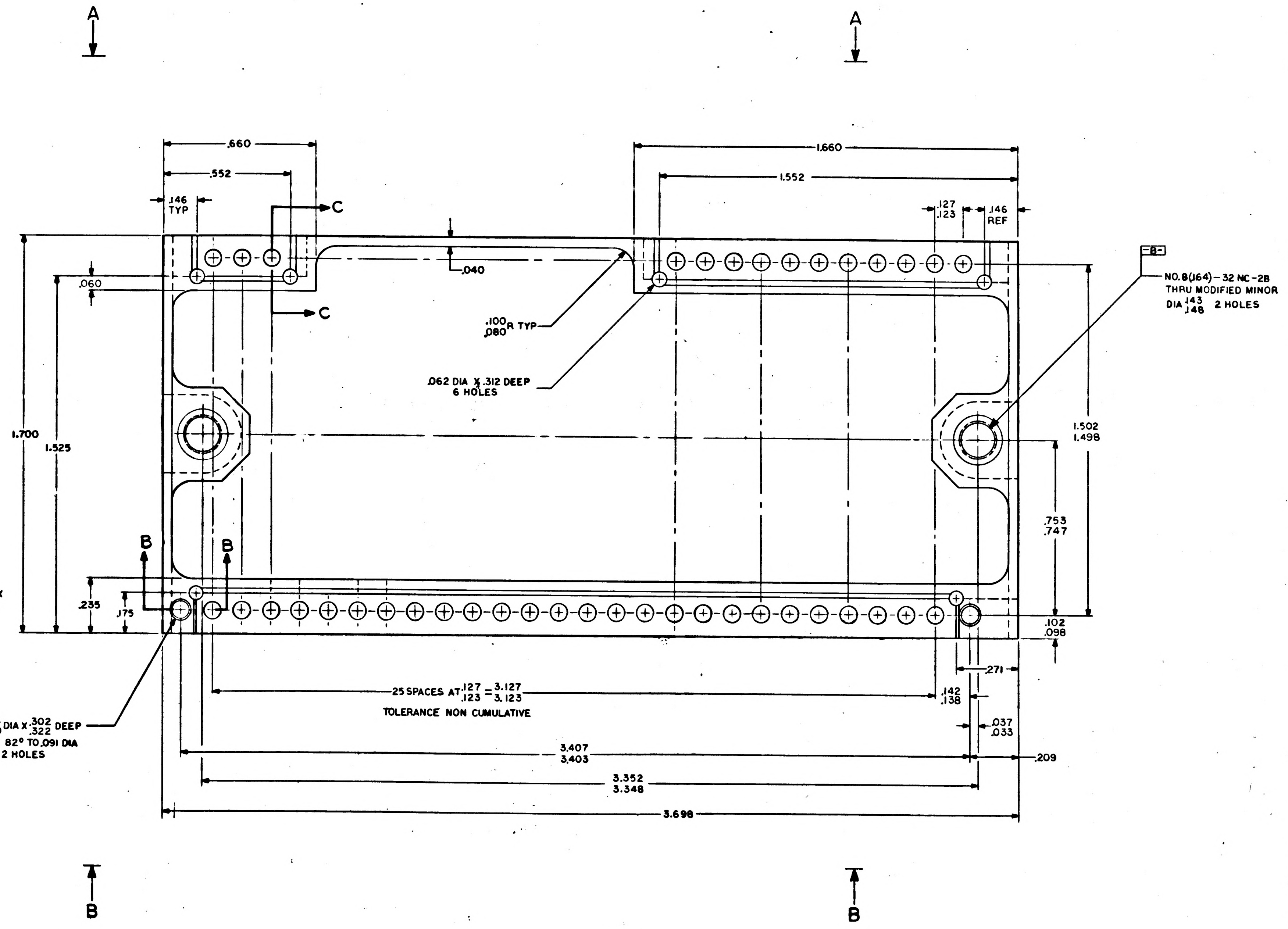
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED 125√ ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040, USING MIL-M-3171 TYPE VI
DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. PER ND1002019

6008037 A

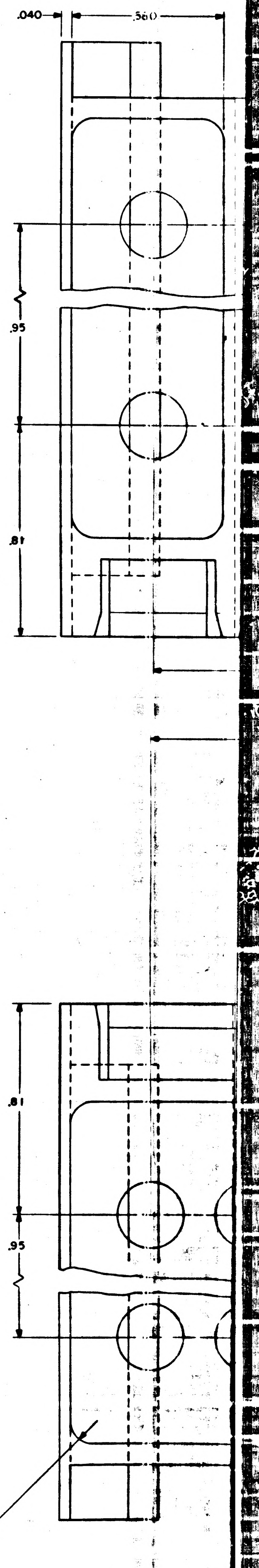
1/6008037



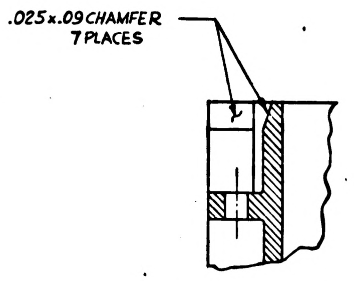
.215 .195 TYP
.005 R MAX 3 PLACES
.080, 3 PLACES
.080 3 PLACES
.292 3 PLACES
2.290 2 PLACES
2.525
32
.069 .073 DIA THRU CSK 60° TO .089 .104 DIA 40 HOLES
A .005
.072 .073 DIA THRU 40 HOLES
-A-
.0004



A
A
B
B
C
C
B
B
.660
.552
.146 TYP
.127 .123
.146 REF
1.660
1.552
.040
.060
1.700
1.525
.100 .080 R TYP
.062 DIA X .312 DEEP 6 HOLES
-B-
NO.8(.164)-32 NC-2B THRU MODIFIED MINOR DIA .143 .148 2 HOLES
1.502 1.498
.753 .747
.235
.175
.102 .098
.271
.074 .079 DIA X .302 .322 DEEP CSK 82° TO .091 DIA 2 HOLES
25 SPACES AT .127 .123 = 3.127 3.123
TOLERANCE NON CUMULATIVE
.142 .138
.037 .033
3.407 3.403
.209
3.352 3.348
3.698

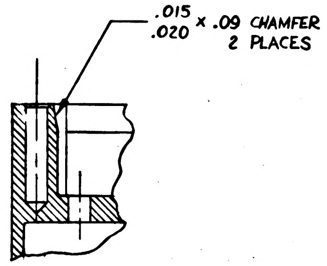


.040
.360
.95
.81
.81
.95
.100 .080 R 4 PLACES



.025 x .09 CHAMFER 7 PLACES

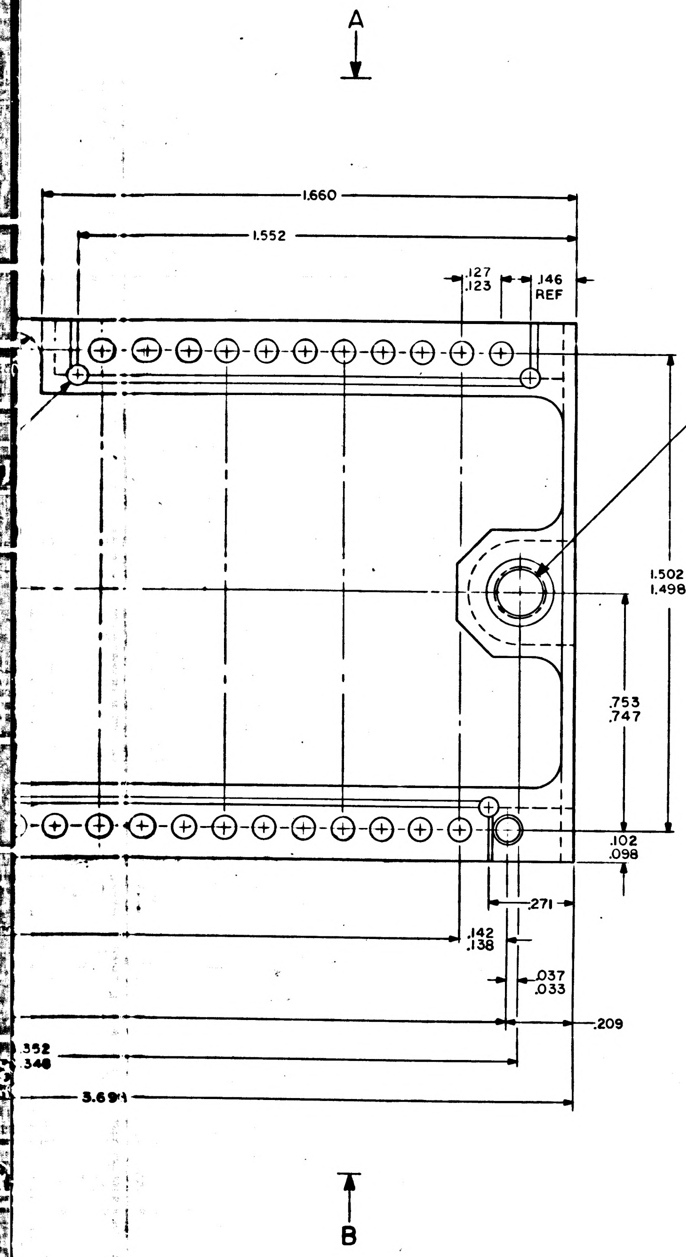
PARTIAL SECTION C-C
ROTATED 90° COUNTERCLOCKWISE



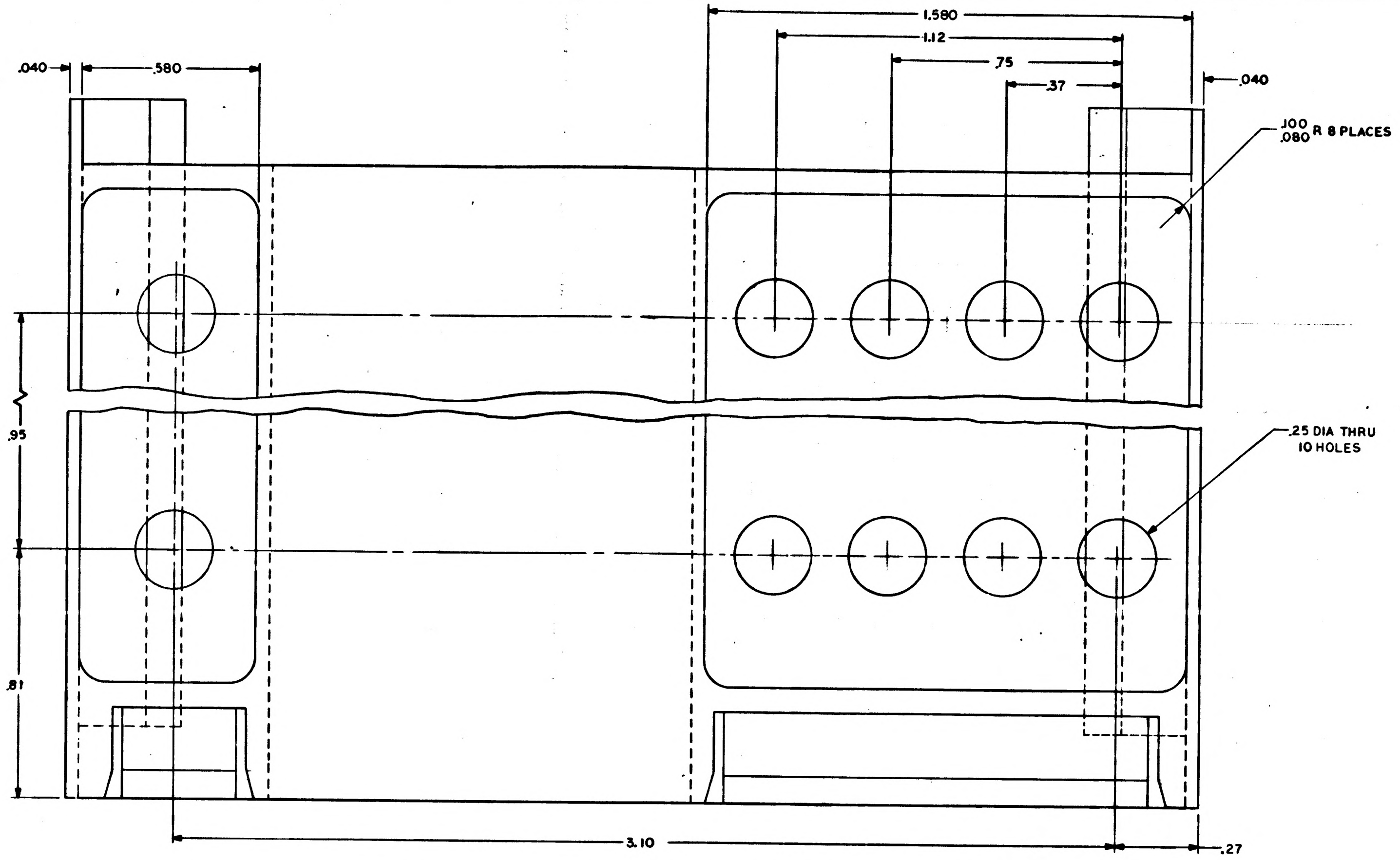
.015 .020 x .09 CHAMFER 2 PLACES

PARTIAL SECTION B-B

REVISIONS 27832						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 32431	AF	N.W.	9JAN67	

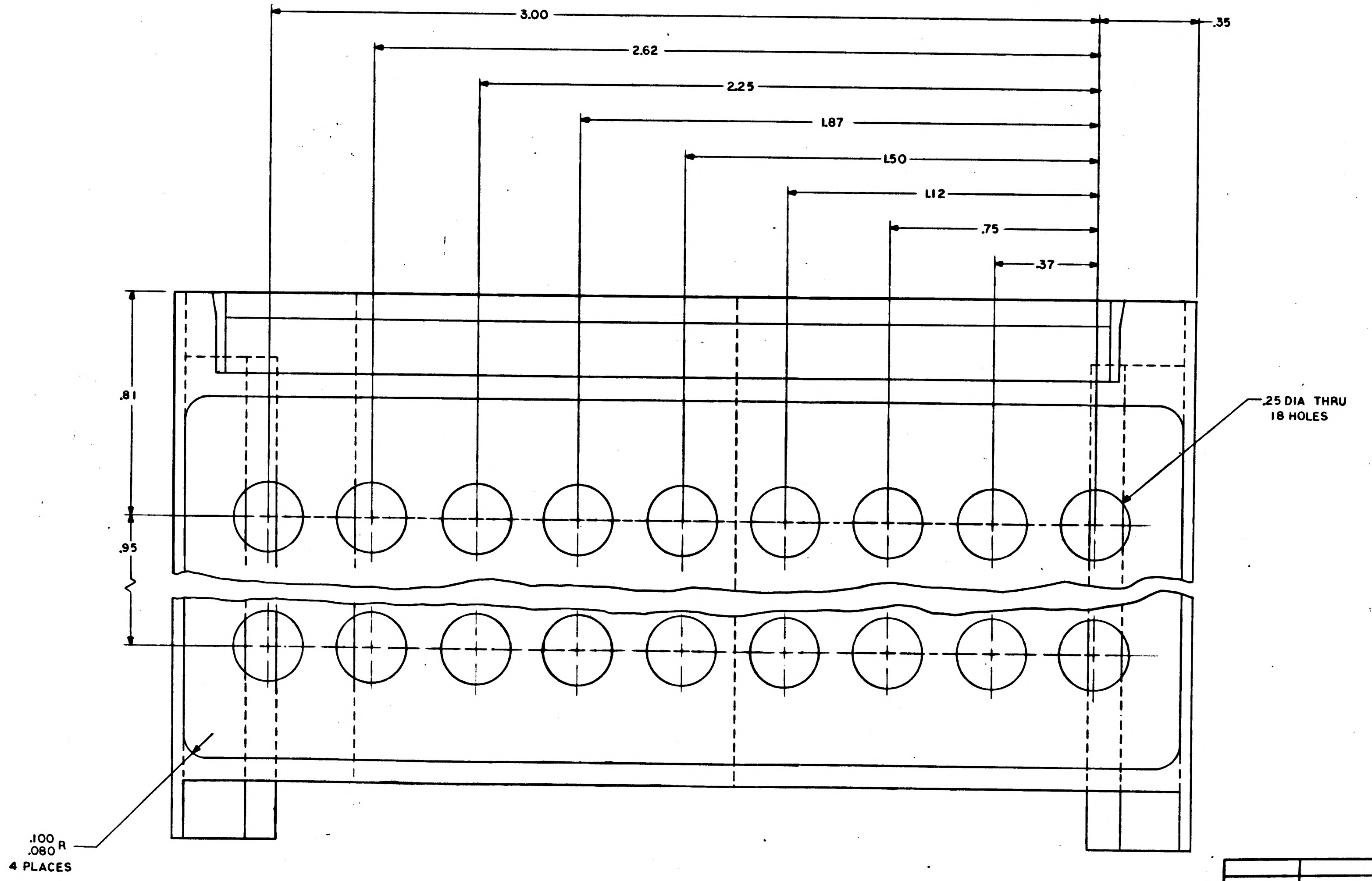


A
1.660
1.552
.127
.123
.146 REF
-B-
NO.8(.164)-32 NC-2B THRU MODIFIED MINOR DIA .143 .148 2 HOLES
1.502
1.498
.753
.747
.102
.098
.271
.142
.138
.037
.033
.209
.352
.348
3.691
B



1.580
1.12
.75
.37
.040
.580
.040
.100 .080 R 8 PLACES
.95
.81
.25 DIA THRU 10 HOLES
3.10
.27

VIEW A-A



3.00
2.62
2.25
1.87
1.50
1.12
.75
.37
.35
.81
.95
.25 DIA THRU 18 HOLES
.100 .080 R 4 PLACES

VIEW B-B

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007012	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. Addario Jr. 17Jan66
CHECKED 4Apr66
APPROVED 5Apr66
APPROVED
APPROVED MIT W. Kupfer Apr66
M. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

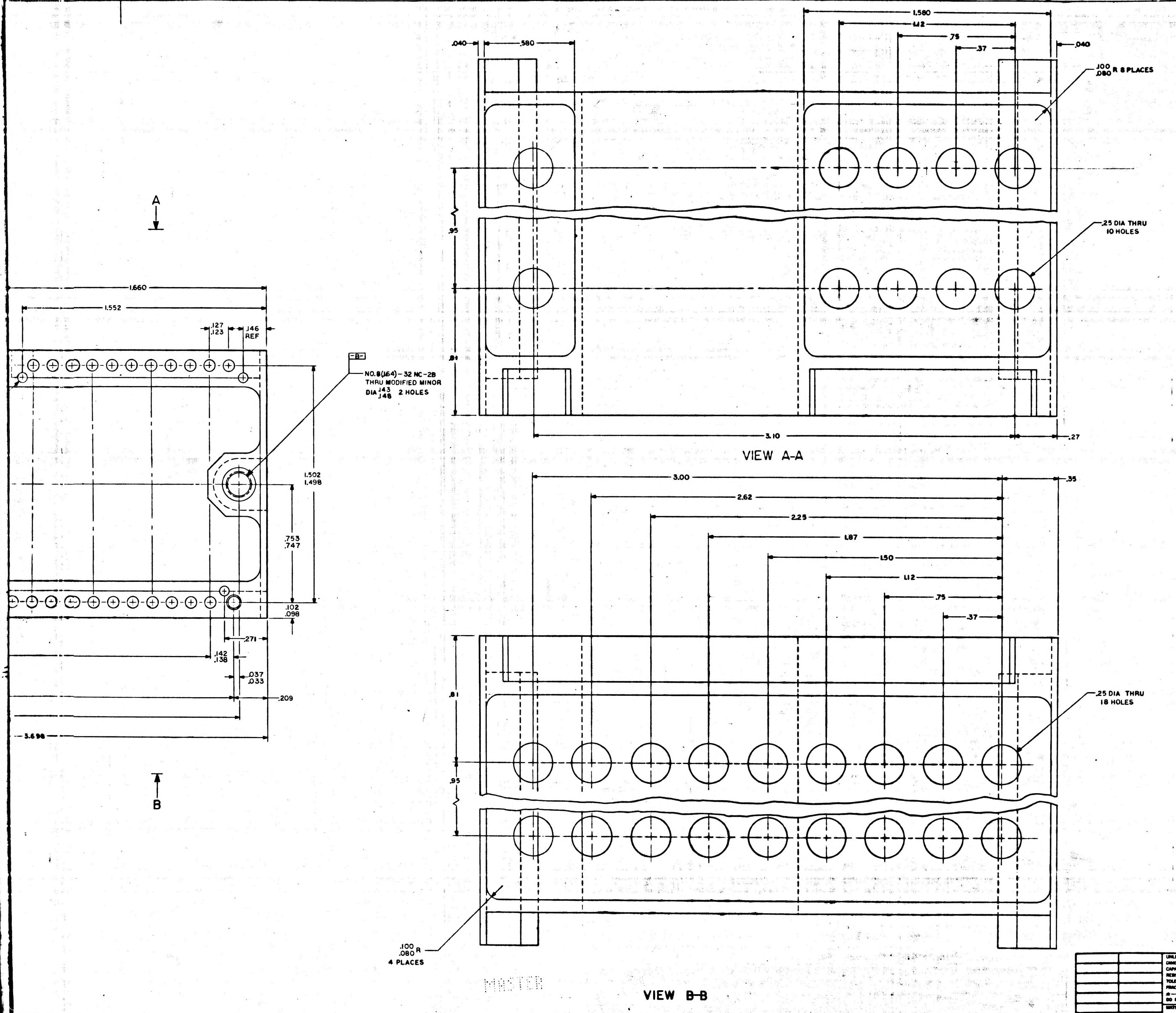
FRAME
RADAR RESOLVERS
SIGNAL CONDITIONER

CODE IDENT NO. 80230 SIZE J DRAWING NO. 6008037
SCALE 5/1 SHEET 1 OF 1

6008037 A

008037 A

3/6008037



A
B
1.660
1.552
.127
.123
.146 REF
-B-
NO.8(.164)-32 NC-2B THRU MODIFIED MINOR DIA .143 .148 2 HOLES
1.502
1.498
.753
.747
.102
.098
.271
.142
.138
.037
.033
.209
3.698
1.580
1.12
.75
.37
.040
.580
.040
.100 .080 R 8 PLACES
.25 DIA THRU 10 HOLES
.95
.81
3.10
.27
VIEW A-A
3.00
2.62
2.25
1.87
1.50
1.12
.75
.37
.35
.25 DIA THRU 18 HOLES
.81
.95
.100 .080 R 4 PLACES
VIEW B-B

REVISIONS 27832

SYM	ZONE	DESCRIPTION	BR	CHK	DATE	APPROVED

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ±— DECIMALS .XX ±.02 .XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

NEXT ASSY	USED ON
6007012	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. Alberico Jr. 17 Jan 66
CHECKED [illegible]
APPROVED [illegible] 5 Apr 66
APPROVED [illegible]
APPROVED MIT [illegible] — R. C. [illegible]
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME
RADAR RESOLVERS SIGNAL CONDITIONER

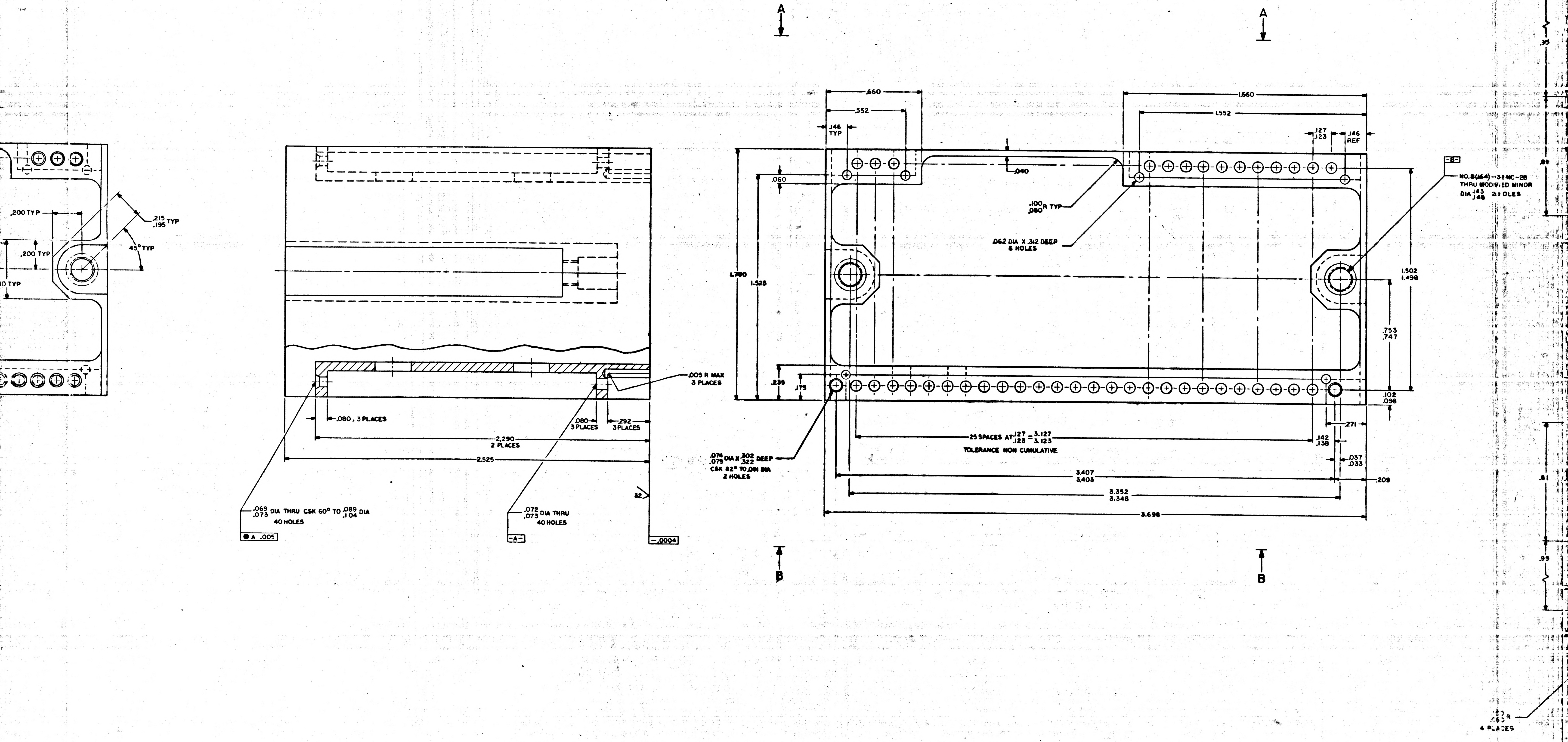
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008037
SCALE 5/1
SHEET 1 OF 1

6008037

3H

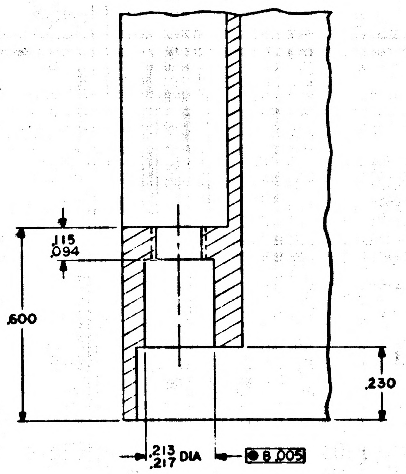
MASTER

6037

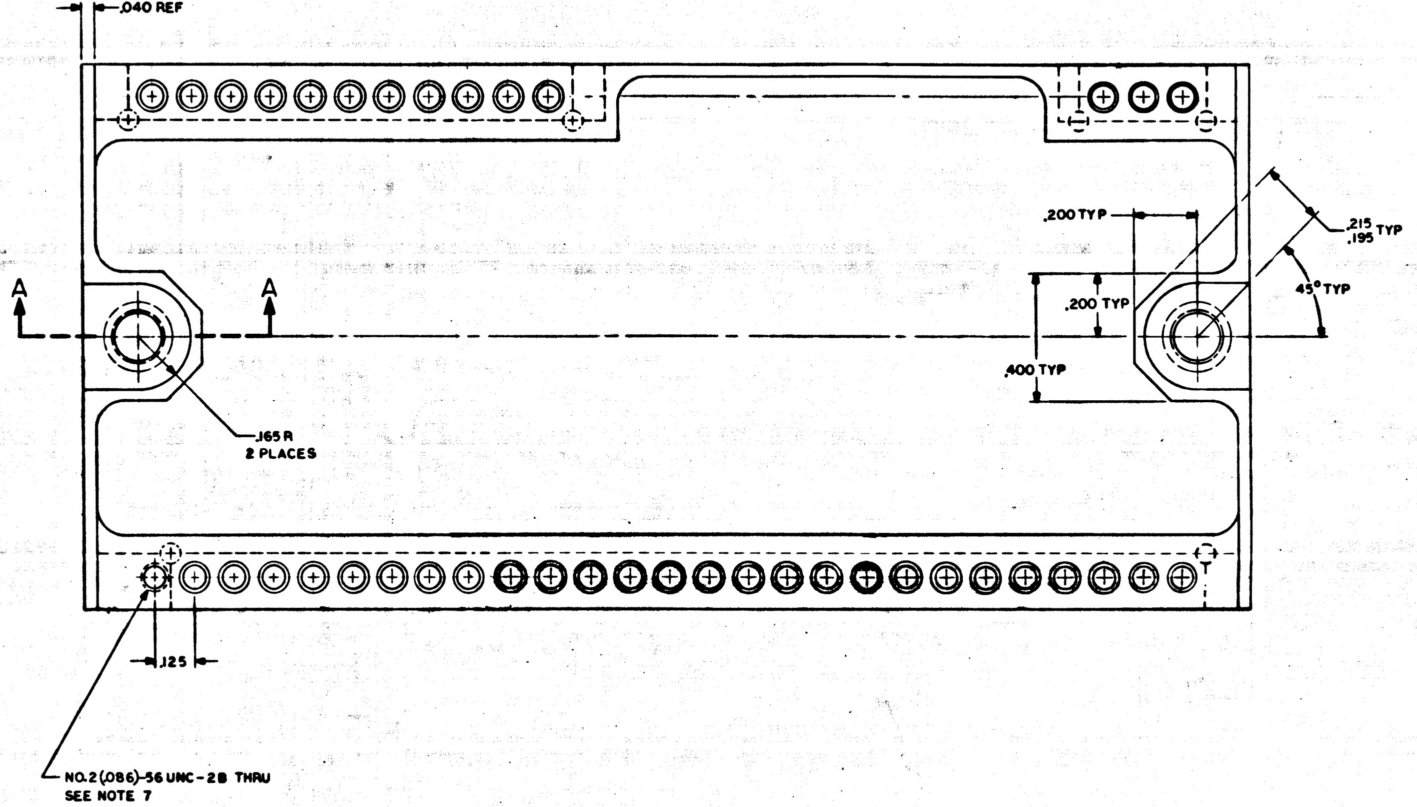

A
A
B
B
.200 TYP
.215
.195 TYP
45° TYP
.200 TYP
0 TYP
.005 R MAX
3 PLACES
.080, 3 PLACES
.080
3 PLACES
.292
3 PLACES
2.290
2 PLACES
2.525
32
.069
.073 DIA THRU CSK 60° TO .089
.104 DIA
40 HOLES
● A .005
.072
.073 DIA THRU
40 HOLES
-A-
—.0004
.660
.552
.146
TYP
1.660
1.552
.127
.123
.146
REF
.040
.060
.100
.080 R TYP
.062 DIA X .312 DEEP
6 HOLES
1.780
1.525
.235
.175
-B-
NO.8(.164)-32 NC-2B
THRU MODIFIED MINOR
DIA .143
.148 2 HOLES
1.502
1.498
.753
.747
.102
.098
.271
25 SPACES AT .127
.123 = 3.127
3.123
TOLERANCE NON CUMULATIVE
.142
.138
.037
.033
.209
.074
.079 DIA X .302
.322 DEEP
CSK 82° TO .091 DIA
2 HOLES
3.407
3.403
3.352
3.348
3.698
.95
.81
.81
.95
4 PLACES

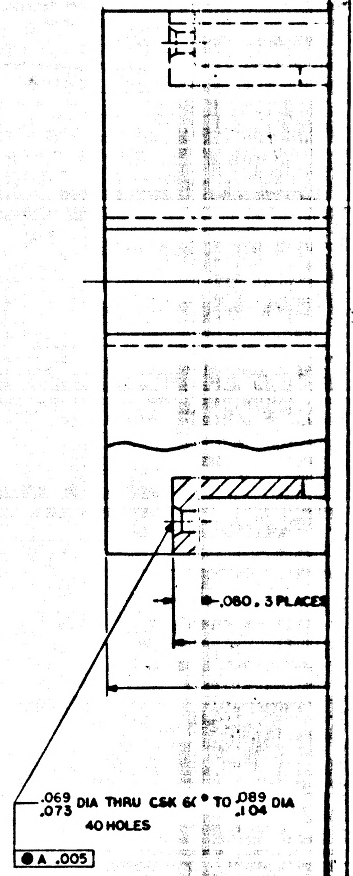
6008037

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


.115
.094
.600
.230
.213
.217 DIA
● B .005

PARTIAL SECTION A-A


.040 REF
A
A
.200 TYP
.215
.195 TYP
.200 TYP
45° TYP
.400 TYP
.165 R
2 PLACES
.125
NO.2(.086)-56 UNC-2B THRU
SEE NOTE 7


.080, 3 PLACES
.069
.073 DIA THRU CSK 60° TO .089
.104 DIA
40 HOLES
● A .005

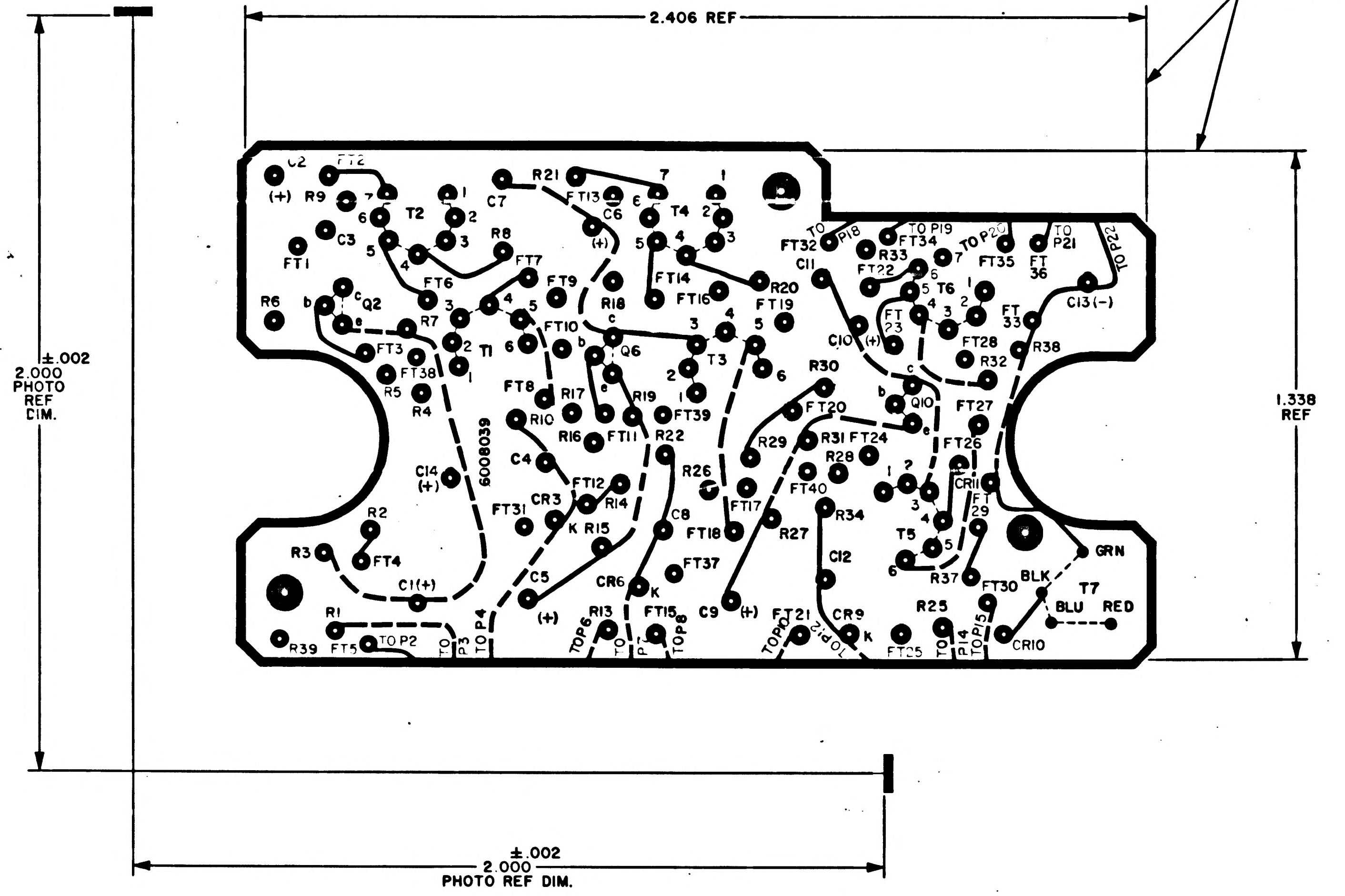
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ZK60A-T5 PER QQ-M-31, TEMP 5
3. UNLESS OTHERWISE SPECIFIED, ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED 125√ ALL OVER
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
7. TAP HOLE AFTER ANODIZE. COAT PER ND1002040, USING MIL-M-3171 TYPE VI DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. PER ND1002019

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A. N.	CW	13 JUN 66	



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±.002
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6008039
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TO P18
C11
FT34
R33
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FT6
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FT9
FT10
R18
Q6
FT14
FT16
R20
FT19
C10 (+)
FT 23
FT 33
C13(-)
FT3
FT38
R5
R4
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C14 (+)
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R27
R34
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FT 29
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R37
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C12
GRN
C1(+)
C5
CR6
K
(+)
R13
FT15
C9
(+)
FT21
CR9
K
R25
FT30
BLK
T7
BLU
RED
R1
R39
FT5
TO P2
TO P3
TO P4
TO P6
TO P7
TO P8
TO P12
TO P13
FT25
TO P14
TO P15
CR10

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIM LINE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	KCH	31 Jan 66
CHECKED		4 Feb 66
APPROVED		6 Feb 66
APPROVED		
APPROVED MIT		
APPROVED MSC		DATE

PHOTOGRAPHIC MASTER
WIRING BOARD, TOP
SIGNAL CONDITIONER
CDU FINE ERRORS & IRIG TEMP

CODE IDENT NO	SIZE	DRAWING NO
80230	D	6008038

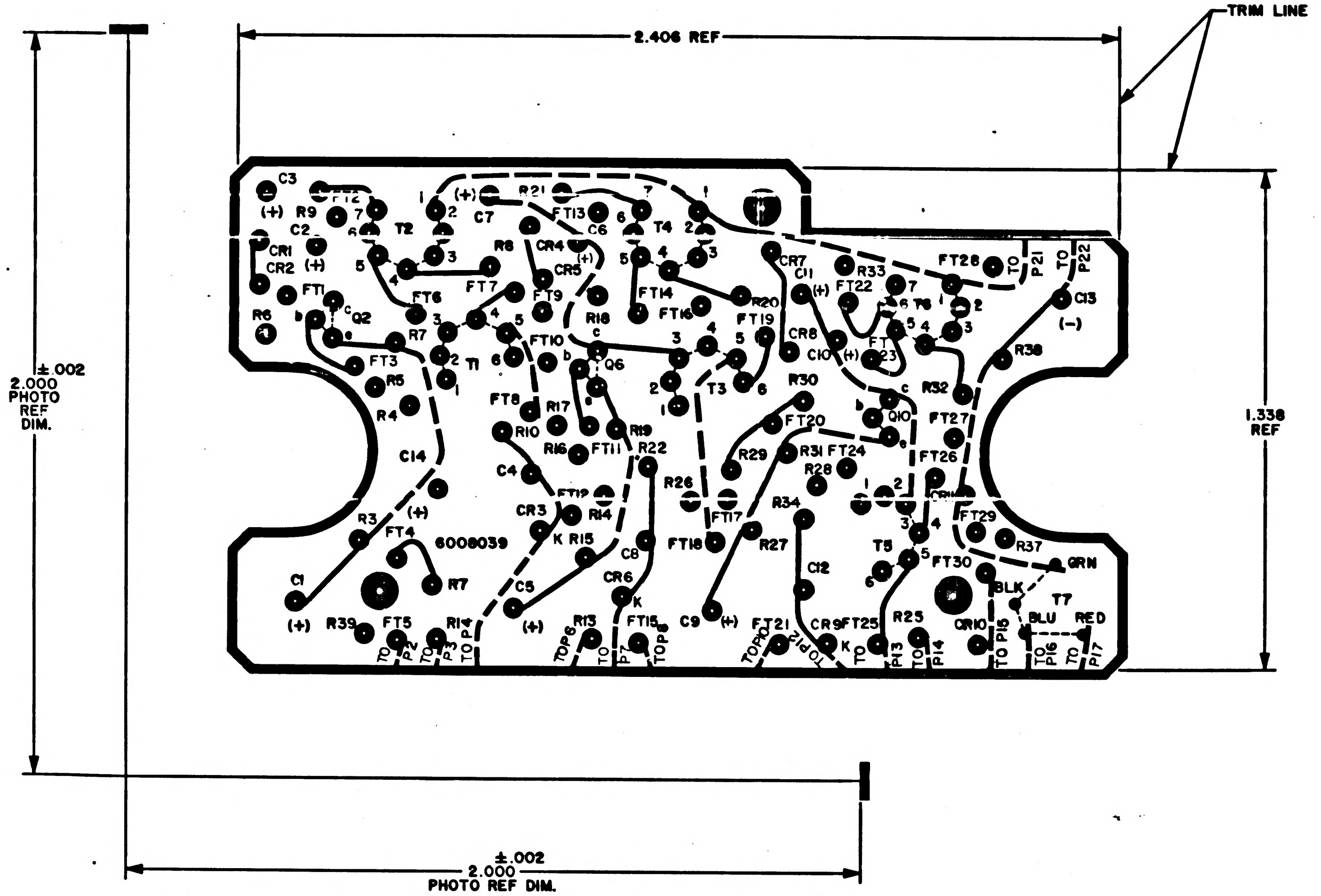
SCALE 5/1 SHEET 1 OF 1

6008038 A

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED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2.406 REF
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PHOTO
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DIM.
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REF
±.002
2.000
PHOTO REF DIM.
6008039
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C14
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C1
R39
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R14
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TO P3
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R21
C7
R8
CR4
CR5
FT13
C6
FT6
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FT9
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FT10
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Q6
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R10
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FT11
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C4
FT12
CR3
R14
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CR6
TO P6
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FT19
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CR7
C11
R33
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TO P21
TO P22
C13
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R34
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C9
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TO P12
CR9
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R25
TO P13
TO P14
T5
FT29
R37
FT30
GRN
BLK
T7
BLU
RED
CR10
TO P15
TO P16
TO P17

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIM LINE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN KCH 3 Feb 66
CHECKED 4 Feb 66
APPROVED 6 Feb 66
APPROVED 7 Feb 66
APPROVED MIT W Kupfer 9 Feb 66
A. C. METZGER
APPROVED MSC
DATE

PHOTOGRAPHIC MASTER
WIRING BOARD, TOP
SIGNAL CONDITIONER
CDU FINE ERRORS

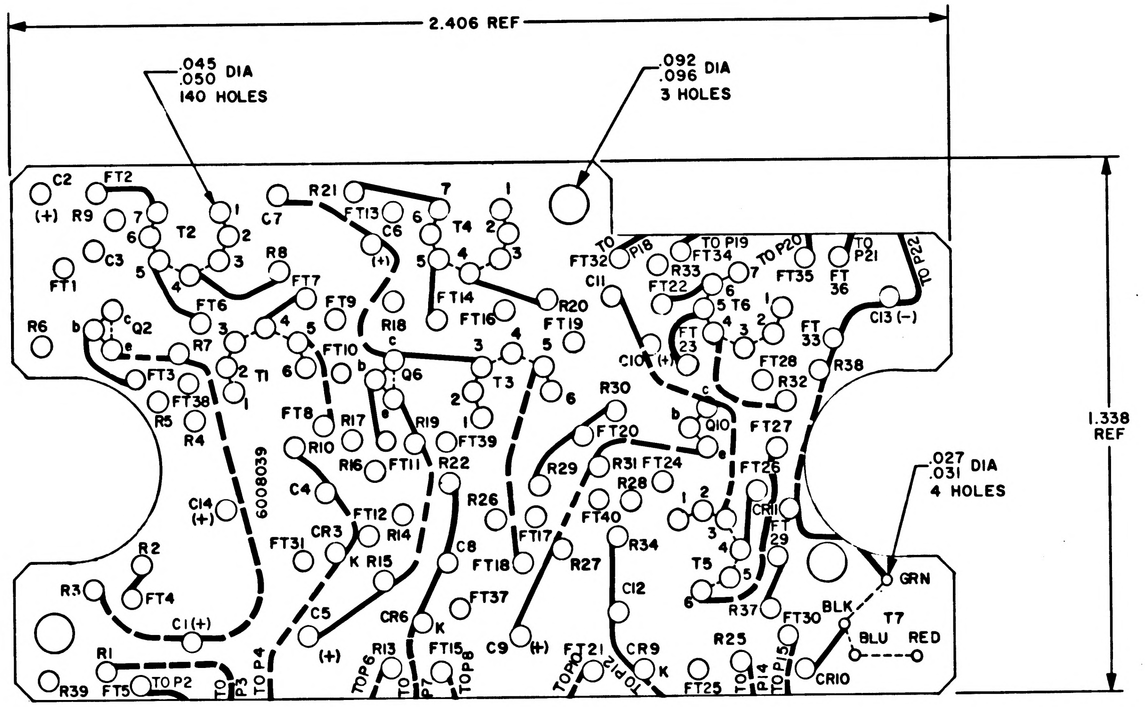
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008038
SCALE 5/1
SHEET 1 OF 1

6008038

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26:26

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A N.	CW	3 JUN 66	



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.045
.050 DIA
140 HOLES
.092
.096 DIA
3 HOLES
.027
.031 DIA
4 HOLES
1.338
REF
6008039
C2 (+) FT2 R9 T2 C3 FT1 R6 Q2 b c e R7 FT3 FT38 R5 R4 FT6 T1 R8 FT7 C7 R21 FT13 C6 (+) T4 FT14 FT16 R20 FT19 FT9 R18 FT10 Q6 b c e T3 FT8 R17 R10 R16 FT11 R19 FT39 R22 C4 FT12 C14 (+) CR3 K R14 R15 FT31 R2 R3 FT4 C1(+) R1 R39 FT5 TO P2 TO P3 TO P4 C5 (+) R13 TO P6 TO P7 FT15 TO P8 CR6 K C8 FT18 FT37 R26 FT17 R27 C9 (+) FT21 TO P10 TO P12 CR9 K C12 R34 FT40 R28 R29 R30 FT20 R31 FT24
FT32 TO P18 TO P19 FT34 R33 FT22 TO P20 FT35 TO P21 FT 36 TO P22 C11 C10 (+) FT 23 T6 FT28 R32 FT 33 R38 C13 (−) Q10 b c e FT27 FT26 CR11 FT 29 T5 R37 FT30 R25 FT25 TO P14 TO P15 CR10 T7 GRN BLK BLU RED

REF: DRAWING NO. 6008038 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

6008039 A

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

6007011	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN KCH 31 JAN 66
CHECKED 4 FEB 66
APPROVED Elmer 4 FEB 66
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD, TOP
SIGNAL CONDITIONER
CDU FINE ERRORS & IRIG TEMP

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008039
SCALE 5/1
SHEET 1 OF 1

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REVISIONS 26.26

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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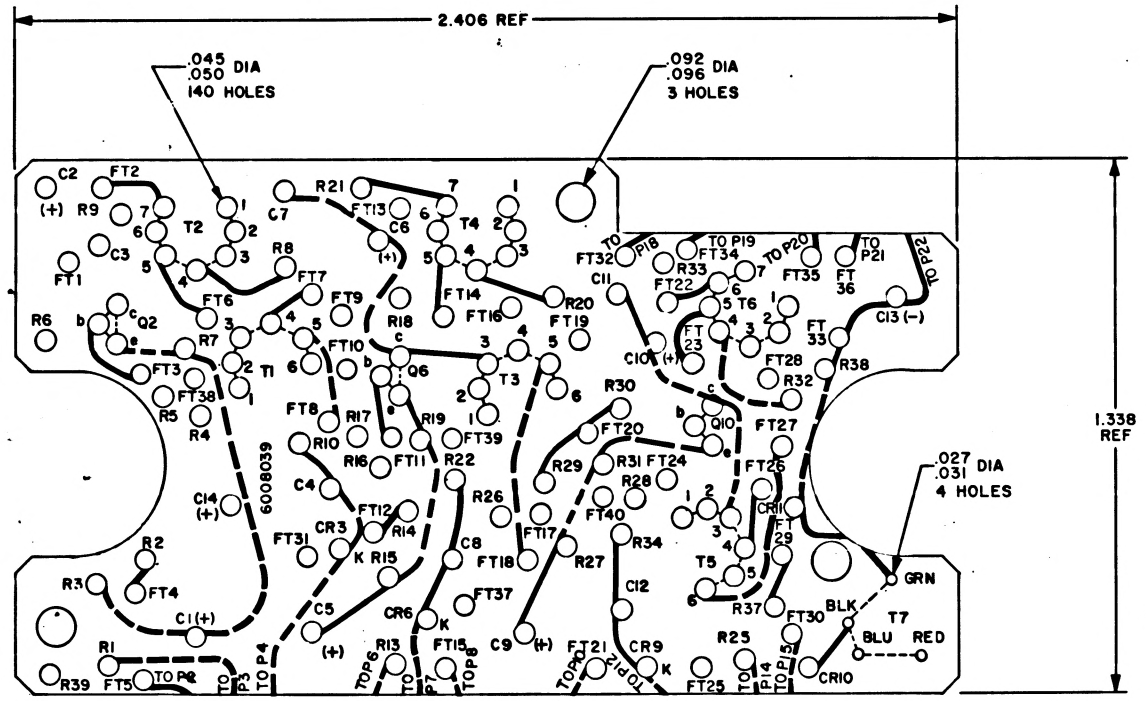
B		REVISED PER TDRR 30253	RW	CW	22 AUG 66	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.045 .050 DIA 140 HOLES
.092 .096 DIA 3 HOLES
.027 .031 DIA 4 HOLES
1.338 REF
6008039
C2 (+) FT2 R9 T2 C3 FT1 R6 Q2 b c e R7 FT3 FT38 R5 R4 C14 (+) R2 R3 FT4 C1(+) R1 R39 FT5 TO P2 TO P3 TO P4
C7 R21 R8 FT7 FT6 T1 FT9 FT10 FT8 R17 R10 R16 FT11 C4 FT12 CR3 R14 FT31 K R15 C5 (+) R13 TO P6 TO P7 TO P8 FT15
FT13 C6 (+) T4 R18 Q6 R19 FT39 R22 R26 C8 FT18 CR6 K FT37 C9 (+) FT14 FT16 R20 FT19 T3 FT17
FT32 TO P18 TO P19 FT34 R33 TO P20 TO P21 TO P22 C11 FT22 T6 FT35 FT 36 FT 23 C10 (+) FT28 FT 33 C13 (−) R32 R38
R30 FT20 Q10 FT27 R29 R31 FT24 R28 FT26 FT40 CR11 FT 29 R34 R27 T5 R37 FT30 C12 BLK T7 GRN BLU RED
FT21 CR9 K TO P10 TO P12 R25 FT25 TO P14 TO P15 CR10

REF: DRAWING NO. 6008038 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
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3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007011	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN KCH 31 JAN 66
CHECKED 4 FEB 66
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD, TOP
SIGNAL CONDITIONER
CDU FINE ERRORS & IRIG TEMP

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008039
SCALE 5/1
SHEET 1 OF 1

6008039 B

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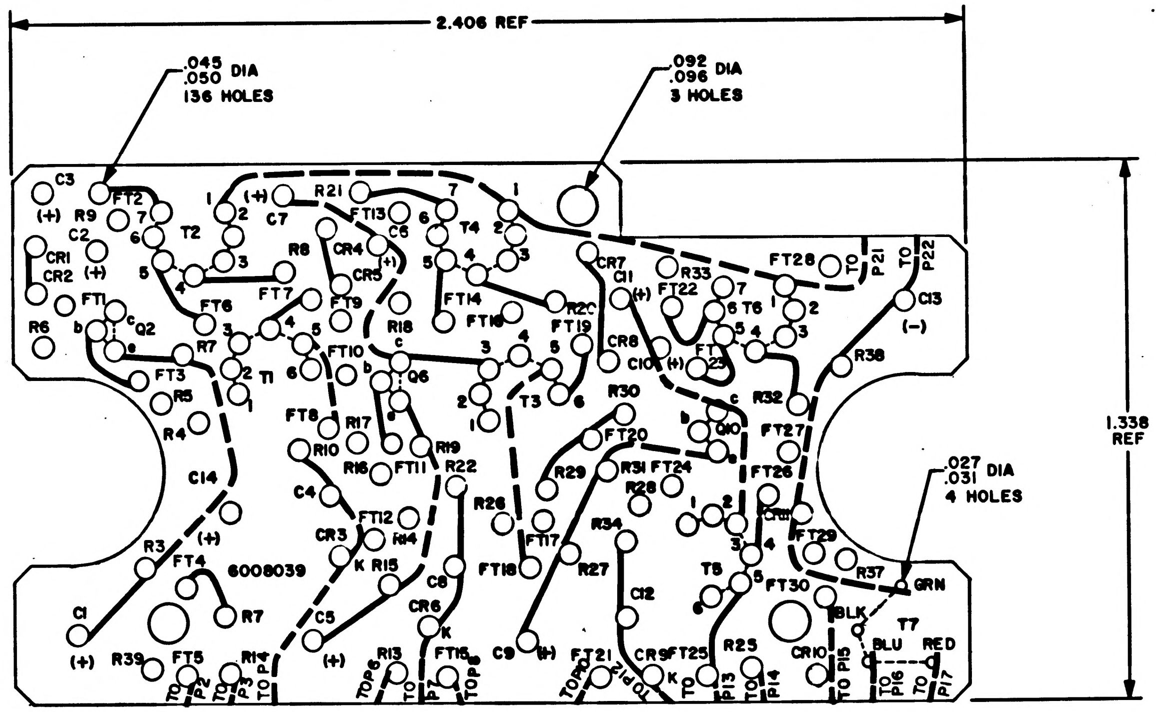
REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED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136 HOLES
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.031 DIA
4 HOLES
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REF
6008039
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14
CR1 CR2 CR3 CR4 CR5 CR6 CR7 CR8 CR9 CR10
R3 R4 R5 R6 R7 R8 R9 R10 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R37 R38 R39
FT1 FT2 FT3 FT4 FT5 FT6 FT7 FT8 FT9 FT10 FT11 FT12 FT13 FT14 FT15 FT16 FT17 FT18 FT19 FT20 FT21 FT22 FT23 FT24 FT25 FT26 FT27 FT28 FT29 FT30
Q2 Q6 Q10
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(+) (−)
TO P2 TO P3 TO P4 TO P6 TO P7 TO P8 TO P10 TO P12 TO P13 TO P14 TO P15 TO P16 TO P17 TO P21 TO P22
GRN BLK BLU RED

REF: DRAWING NO. 6008038 FOR PHOTOGRAPHIC MASTER

NOTES:
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2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007011	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN KEN 31 JAN 66
CHECKED R.P. Kingsbury 4 Feb 66
APPROVED 6 Feb 66
APPROVED 7 Feb 66
APPROVED MIT 9 Feb 66 A. C. METZGER
APPROVED MSC
DATE

WIRING BOARD, TOP
SIGNAL CONDITIONER
CDU FINE ERRORS

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008039
SCALE 5/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26026

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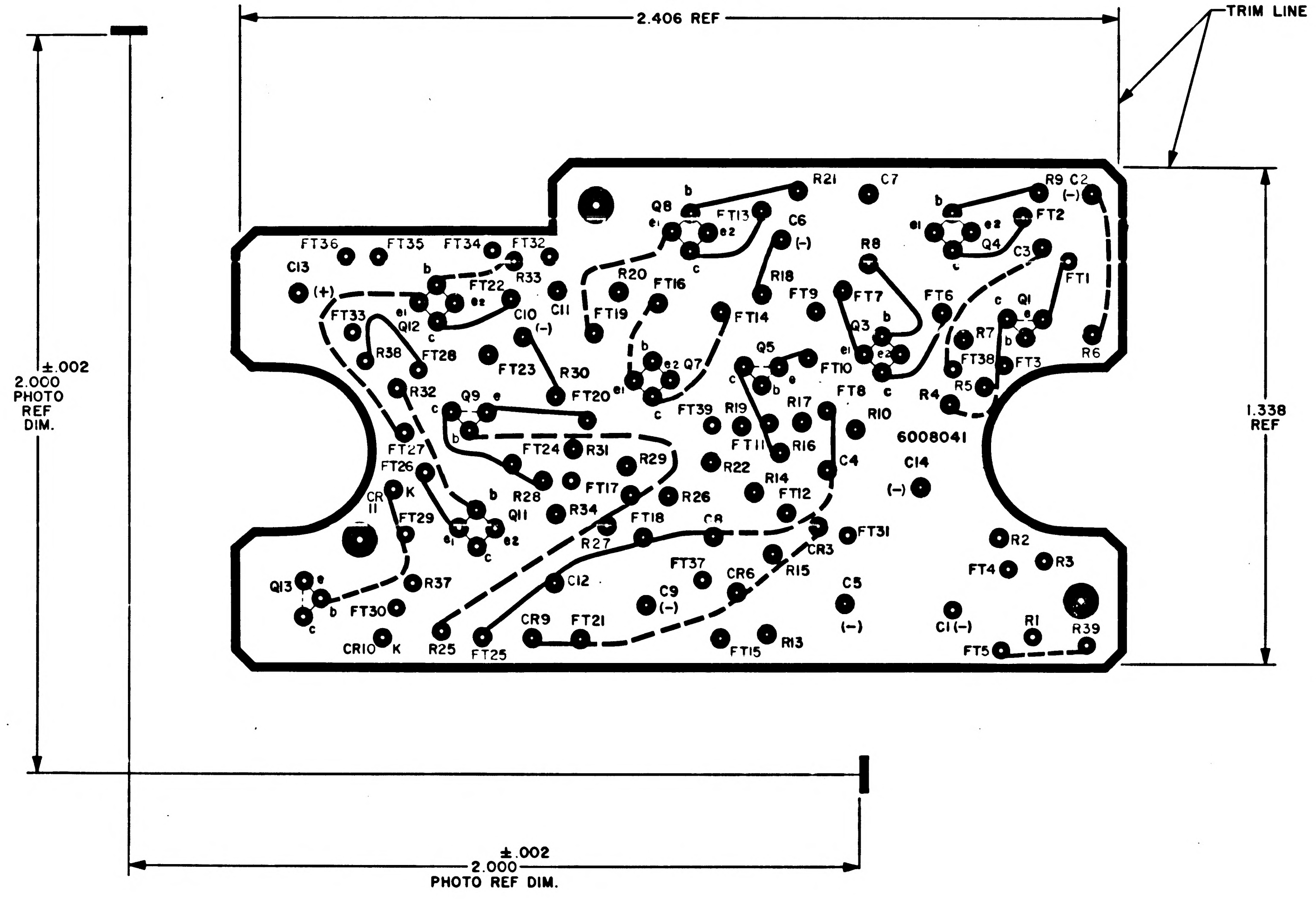
A		REVISED PER TDRR 29252	A.N.	CW	13JUN 66	



2.406 REF
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PHOTO REF DIM.
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(−)
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FT30
CR10
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R25
FT25
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FT21
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FT5

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIM LINE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN KCH 31 JAN 66
CHECKED
APPROVED
APPROVED
APPROVED MIT Wilmyth
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD, MIDDLE
SIGNAL CONDITIONER
CDU FINE ERRORS & IRIG TEMP

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008040
SCALE 5/1
SHEET 1 OF 1

6008040 A

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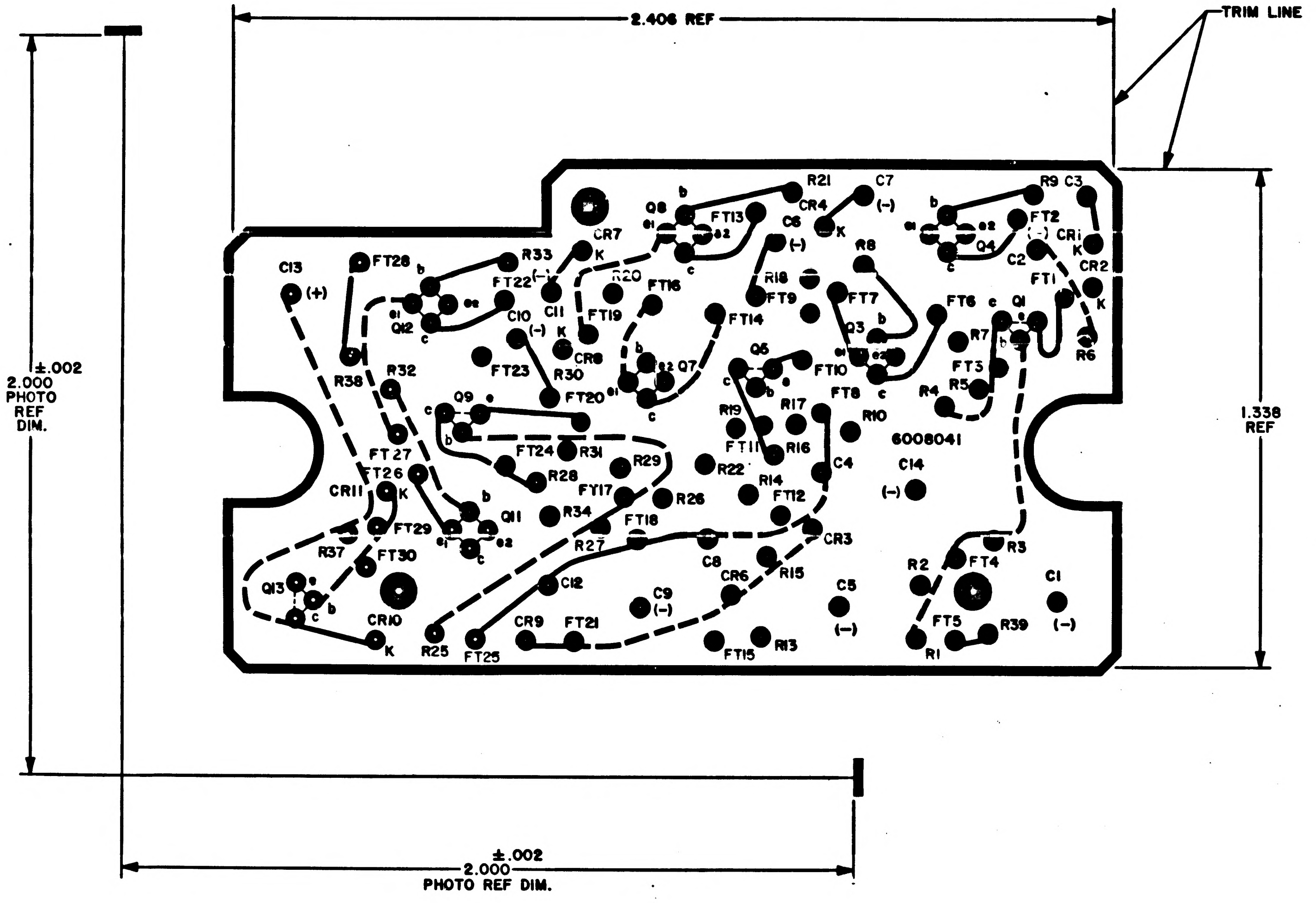
REVISIONS 26026

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



TRIM LINE
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PHOTO
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±.002
2.000
PHOTO REF DIM.
6008041
C13 (+)
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FT22
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C10 (-)
C11
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C6 (-)
R21
CR4
C7 (-)
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C8
CR6
R15
CR3
R2
FT4
R3
C1
Q13
C12
C9 (-)
C5 (-)
CR10
R25
FT25
CR9
FT21
FT15
R13
R1
FT5
R39
C1 (-)

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILM TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIM LINE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN KCH 31 Jan 66
CHECKED R.P. Kingsbury 4 Feb 66
APPROVED 6 Feb 66
APPROVED 7 Feb 66
APPROVED MIT W. Kupfer A. C. METZGER 9 Feb 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD, BOTTOM
SIGNAL CONDITIONER
CDU FINE ERRORS

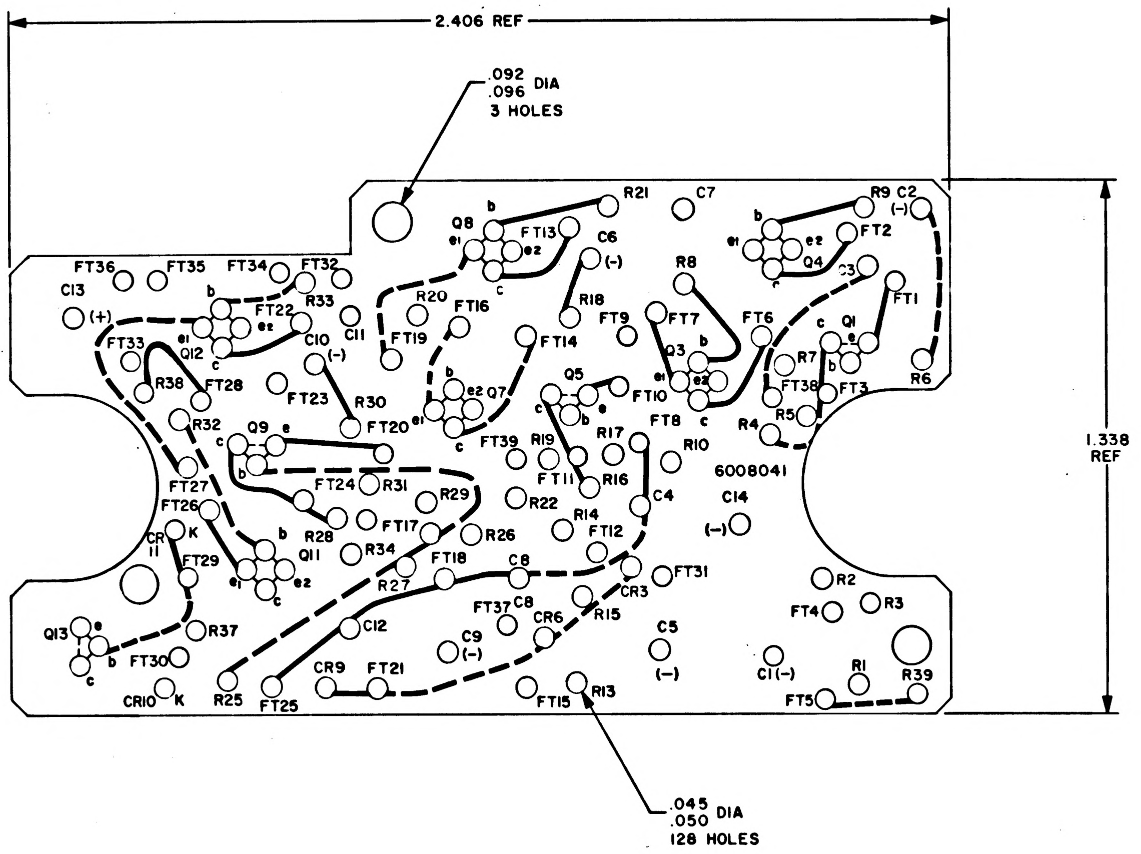
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008040
SCALE 5/1
SHEET 1 OF 1

6008040

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26-76

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29252	A. N.	CW	3 JUN 66	



2.406 REF
.092
.096 DIA
3 HOLES
1.338
REF
.045
.050 DIA
128 HOLES
6008041
FT36
FT35
FT34
FT32
C13
(+)
b
FT22
e2
e1
Q12
c
R33
C11
C10
(-)
FT33
R38
FT28
FT23
R30
FT20
R32
Q9
e
c
b
FT24
R31
R29
FT27
FT26
CR
11
K
FT29
R28
Q11
R34
FT17
R26
Q13
e
b
c
R37
FT30
CR10
K
R25
FT25
CR9
FT21
C12
R27
FT18
C8
FT37
C9
(-)
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R15
CR3
FT15
R13
Q8
e1
e2
FT13
R21
C6
(-)
R20
FT16
FT19
R18
FT9
FT14
Q7
e2
e1
Q5
FT10
FT39
R19
R17
FT11
R16
R22
R14
FT12
C4
C7
R8
FT7
Q3
e1
e2
FT8
R10
C14
(-)
FT31
C5
(-)
Q4
R9
C2
(-)
FT2
C3
FT1
FT6
Q1
R7
FT38
FT3
R5
R4
R6
R2
R3
FT4
C1(-)
R1
R39
FT5

REF: DRAWING NO. 6008040 FOR
PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

6008041 A

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007011	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN KCH 31 JAN 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

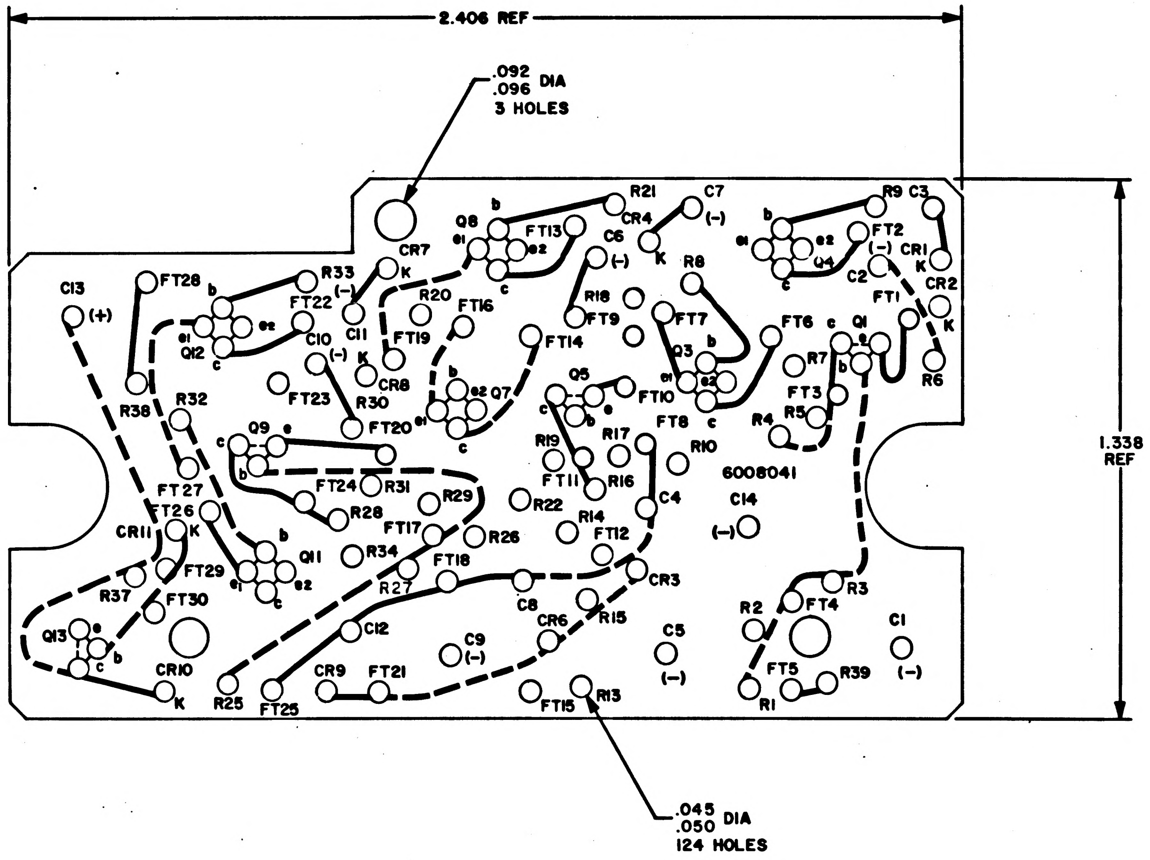
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD, MIDDLE
SIGNAL CONDITIONER
CDU FINE ERRORS & IRIG TEMP

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008041
SCALE 5/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 26026						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



2.406 REF
.092
.096 DIA
3 HOLES
1.338 REF
.045
.050 DIA
124 HOLES
6008041
C13 (+)
FT28
R38
Q12 b e1 e2 c
R33 (–)
FT22
C10 (–)
C11
CR7 K
CR8 K
R20
FT19
FT16
FT23
R30
FT20
Q7 b e1 e2 c
Q8 b e1 e2 c
FT13
R21
CR4 K
C7 (–)
C6 (–)
R18
FT9
FT14
FT7
R8
Q3 b e1 e2 c
Q5 c e b
FT10
FT8
R19
FT11
R17
R16
R10
R22
R14
FT12
C4
C14 (–)
CR3
R15
C5 (–)
R13
FT15
CR6
C8
C9 (–)
FT18
R26
R27
C12
CR9
FT21
FT25
R25
R9
C3
Q4 b e1 e2 c
FT2 (–)
CR1 K
C2
CR2 K
FT1
R6
FT6
Q1 c e b
R7
FT3
R5
R4
R3
FT4
R2
FT5
R39
R1
C1 (–)
R32
Q9 c e b
FT24
R31
R28
R29
FT17
R34
FT27
FT26
CR11 K
Q11 b e1 e2 c
FT29
R37
FT30
Q13 e b c
CR10 K

REF: DRAWING NO. 6008040 FOR
PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

6007011	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN KCH 31 Jan 66
CHECKED R.P. Kriegsman 4 Feb 66
APPROVED 5 Feb 66
APPROVED 7 Feb 66
APPROVED MIT W Kupfer 9 Feb 66
A. C. METZGER
APPROVED MSC
DATE

WIRING BOARD, BOTTOM
SIGNAL CONDITIONER
CDU FINE ERRORS

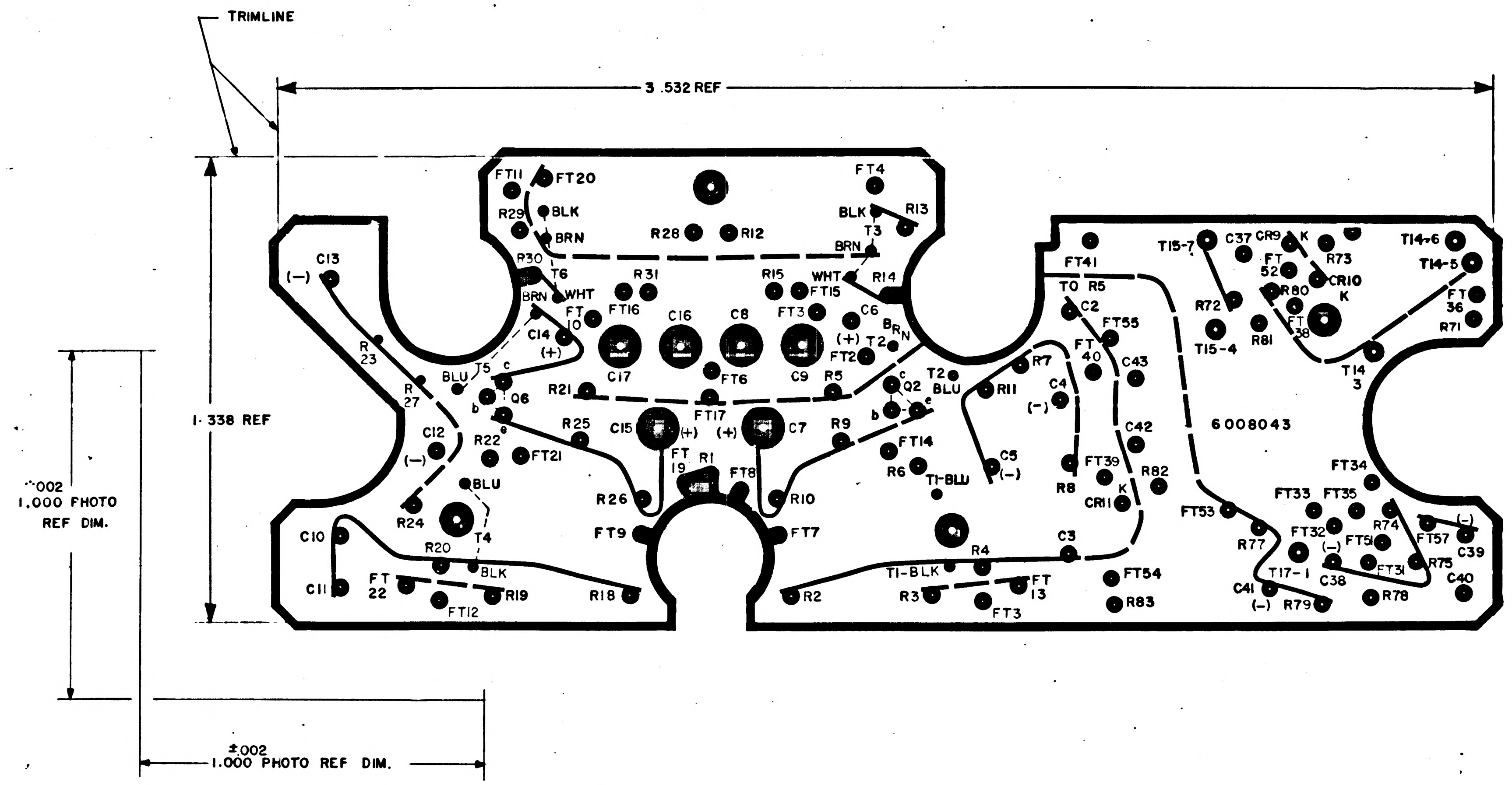
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008041
SCALE 5/1
SHEET 1 OF 1

6008041

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	


TRIMLINE
3 .532 REF
1. 338 REF
±.002
1.000 PHOTO
REF DIM.
±.002
1.000 PHOTO REF DIM.
FT11
FT20
BLK
R29
BRN
R28
R12
FT4
BLK
R13
T3
BRN
C13
(—)
R30
T6
BRN
WHT
R31
R15
WHT
FT15
R14
FT
10
FT16
C16
C8
FT3
C6
C14
(+)
(+)
T2
BRN
FT2
R
23
BLU
T5
c
b
Q6
C17
FT6
C9
R5
c
Q2
b
e
T2
BLU
R
27
R21
R25
FT17
R9
C12
(—)
R22
e
FT21
C15
(+)
(+)
C7
FT14
R6
T1-BLU
BLU
FT
19
R1
FT8
R26
R10
R24
T4
FT9
FT7
C10
R20
BLK
T1-BLK
R4
C11
FT
22
FT12
R19
R18
R2
R3
FT
13
FT3
FT41
TO R5
C2
FT55
FT
40
R7
R11
C4
(—)
C43
C42
C5
(—)
FT39
R8
K
CR11
R82
C3
FT54
R83
T15-7
C37
CR9
K
R73
FT
52
CR10
R80
K
R72
R81
FT
38
T15-4
T14-6
T14-5
FT
36
R71
T14
3
6008043
FT34
FT33
FT35
FT53
R77
FT32
(—)
R74
FT51
FT57
(—)
C39
R75
FT31
T17-1
C38
C40
C41
(—)
R79
R78

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAW. Lois A. Lowe 11 MAR 66
CHECKED 4 Apr 66
APPROVED 4 Apr 66
APPROVED
APPROVED MIT Sep 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD B
RADAR RESOLVER

CODE IDENT NO	SIZE	DRAWING NO
80230	D	6008042

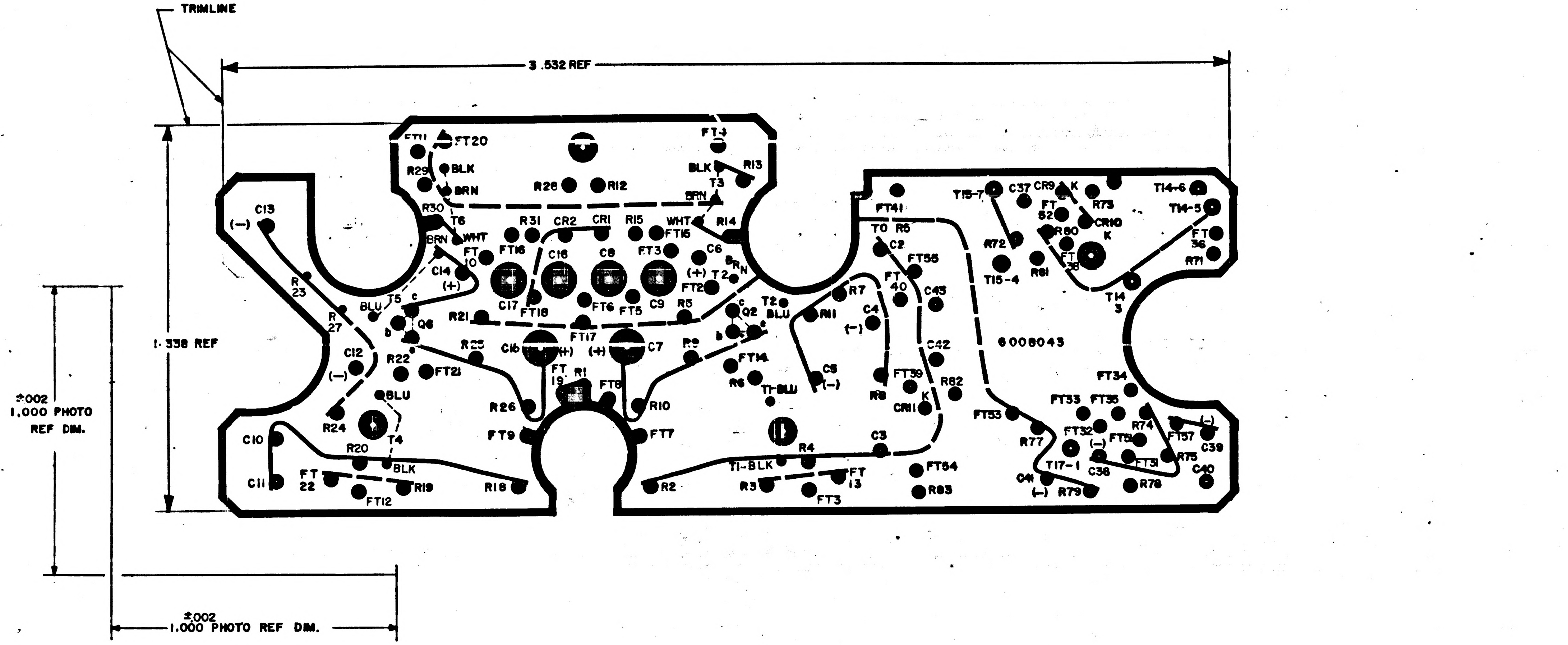
SCALE 5/1 SHEET 1 OF 1

6008042 A

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


TRIMLINE
3.532 REF
1.338 REF
±.002
1.000 PHOTO
REF DIM.
±.002
1.000 PHOTO REF DIM.
6008043
FT11
FT20
R29
BLK
BRN
R28
R12
FT4
BLK
R13
T3
BRN
R30
T6
BRN
WHT
C13
(−)
R31
CR2
CR1
R15
WHT
FT15
R14
FT
10
FT16
C16
C8
FT3
C6
BRN
C14
(+)
(+)
T2
FT2
R
23
BLU
T5
c
C17
FT18
FT6
FT5
C9
R5
R21
c
Q2
T2
BLU
R
27
Q6
b
e
FT17
R25
C16
(+)
(+)
C7
R9
b
e
FT14
C12
(−)
R22
FT21
FT
19
R1
FT8
R6
T1-BLU
BLU
R26
R10
R24
T4
C10
R20
FT9
FT7
R4
BLK
T1-BLK
C11
FT
22
FT12
R19
R18
R2
R3
FT
13
FT3
FT41
TO R5
C2
FT55
FT
40
C43
R7
R11
C4
(−)
C5
(−)
C42
R8
FT39
K
CR11
R82
C3
FT54
R83
T15-7
C37
CR9
K
R73
FT
52
R80
CR10
K
R72
FT
38
R81
T15-4
T14-6
T14-5
FT
36
R71
T14
3
FT34
FT53
FT33
FT35
R77
FT32
(−)
FT51
R74
FT57
(−)
C39
T17-1
C38
FT31
R75
C40
C41
(−)
R79
R78

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Lois A. Lowe 11 MAR 66
CHECKED 1 Apr 66
APPROVED 5 Apr 66
APPROVED 5 Apr '66
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

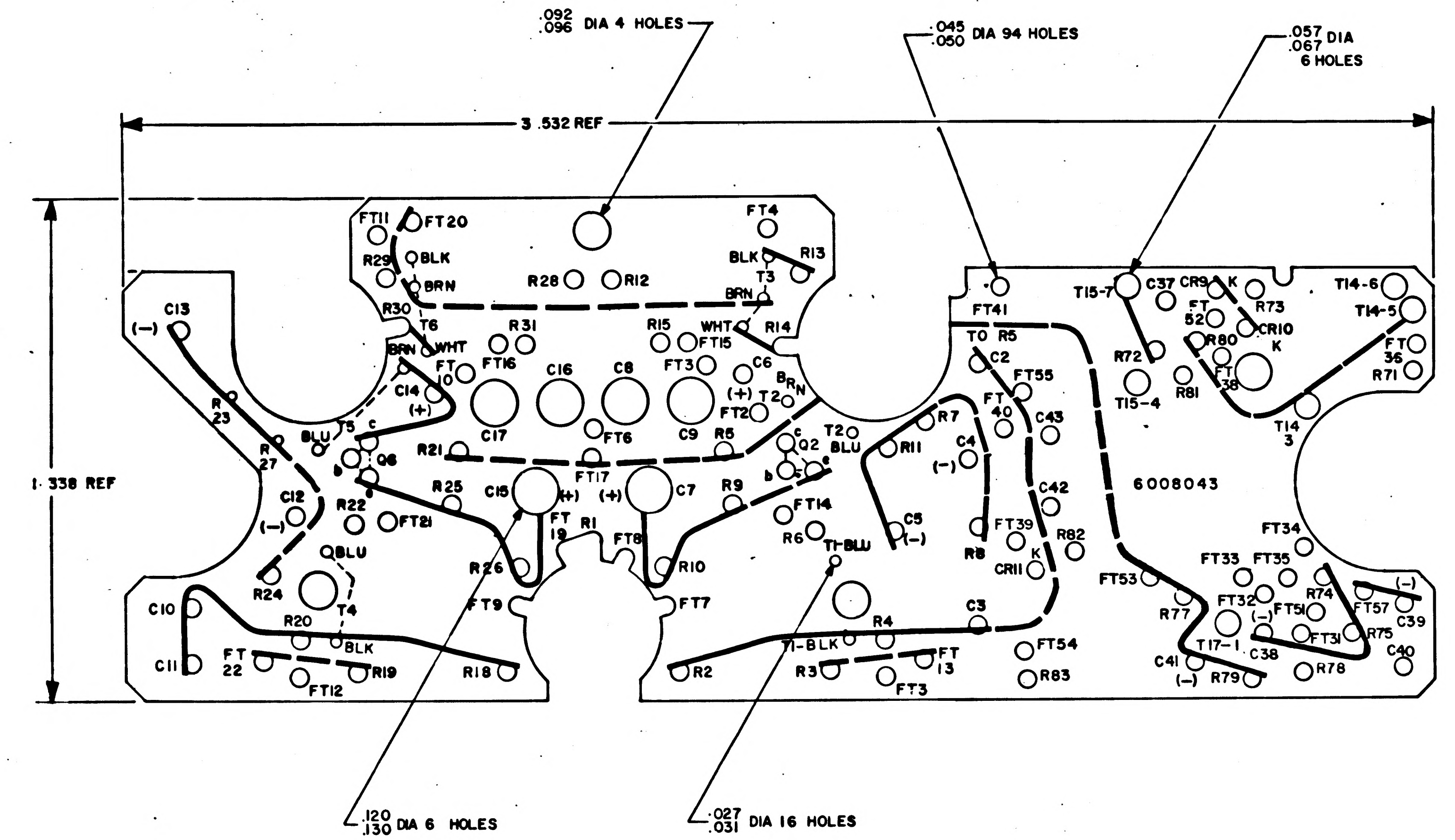
PHOTOGRAPHIC MASTER WIRING BOARD B
RADAR RESOLVER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008042
SCALE 5/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27532

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	


.092
.096 DIA 4 HOLES
.045
.050 DIA 94 HOLES
.057
.067 DIA
6 HOLES
3.532 REF
1.338 REF
.120
.130 DIA 6 HOLES
.027
.031 DIA 16 HOLES
6008043
FT11
FT20
R29
BLK
BRN
R30
T6
BRN
WHT
C13
(−)
R
23
R
27
FT
10
C14
(+)
FT16
R31
C16
C8
R15
FT15
FT3
C6
(+)
T2
BRN
FT2
FT4
BLK
R13
T3
BRN
WHT
R14
R28
R12
BLU
T5
c
b
Q6
e
C17
FT6
C9
R5
R21
FT17
C12
(−)
R22
FT21
R25
C15
(+)
(+)
C7
R9
c
Q2
b
e
T2
BLU
FT14
R6
T1-BLU
FT
19
R1
FT8
R26
R10
BLU
R24
T4
C10
R20
BLK
C11
FT
22
R19
FT12
R18
FT9
FT7
R2
T1-BLK
R4
R3
FT
13
FT3
C3
FT41
TO R5
C2
FT55
R7
FT
40
C4
(−)
C43
R11
C5
(−)
C42
FT39
R8
K
CR11
R82
FT54
R83
FT53
T15-7
C37
CR9
K
R73
FT
52
CR10
K
R80
R72
FT
38
R81
T15-4
T14-6
T14-5
FT
36
R71
T14
3
FT34
FT33
FT35
R77
FT32
(−)
FT51
R74
FT57
(−)
C39
FT31
R75
C40
C41
(−)
T17-1
C38
R79
R78

REF
DRAWING NO. 6008042 FOR
PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE.
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

6007012	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Lois A Lane 11 APR 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

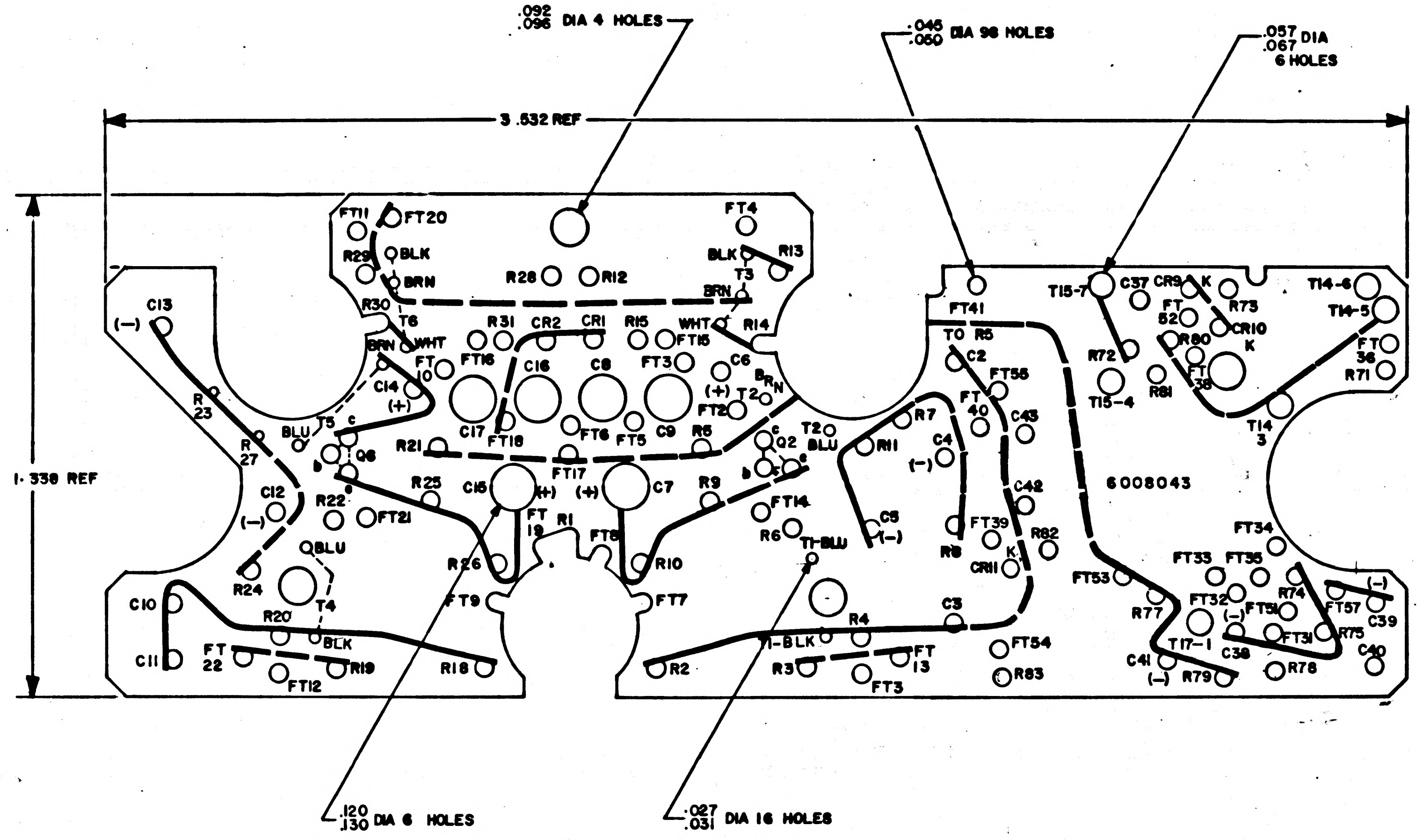
WIRING BOARD B
RADAR RESOLVER

CODE IDENT NO	SIZE	DRAWING NO.
80230	D	6008043
SCALE 5/1		SHEET 1 OF 1

A 6008043

NOTICE WHEN GOVERNMENT DRAWINGS SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


.092
.096 DIA 4 HOLES
.045
.050 DIA 96 HOLES
.057
.067 DIA
6 HOLES
3.532 REF
1.338 REF
.120
.130 DIA 6 HOLES
.027
.031 DIA 16 HOLES
6008043
FT11
FT20
R29
BLK
BRN
R30
T6
BRN
WHT
C13
(–)
R 23
R 27
BLU
T5
c
b
e
Q6
C14
(+)
FT 10
FT16
R31
CR2
CR1
R15
WHT
FT15
R14
C16
C8
FT3
C6
(+)
BRN
T2
FT2
C17
FT18
FT6
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C9
R5
R21
R28
R12
FT4
BLK
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T3
BRN
C12
(–)
R22
FT21
BLU
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C7
FT8
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T2
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R6
T1-BLU
R26
FT9
R10
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C10
C11
FT 22
R20
BLK
R19
FT12
R18
R2
T1-BLK
R4
R3
FT 13
FT3
C3
FT54
R83
FT41
TO R5
C2
FT55
R7
R11
C4
(–)
FT 40
C43
C42
C5
(–)
FT39
R8
K
CR11
R82
T15-7
C37
CR9
K
FT 52
R73
CR10
R80
K
FT 38
R72
T15-4
R81
T14-6
T14-5
FT 36
R71
T14 3
FT34
FT33
FT35
FT53
R77
FT32
(–)
FT51
R74
FT57
(–)
C39
FT31
R75
C40
T17-1
C38
C41
(–)
R79
R78

REF
DRAWING NO. 6008042 FOR
PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE.
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND1002019
5. BROKEN LINE DENOTES SLEEVING

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	Lois A Lane	1 Apr 66
CHECKED	[illegible]	4 Apr 66
APPROVED	[illegible]	5 Apr 66
APPROVED	[illegible]	5 Apr 66
APPROVED MIT	[illegible] A.C. METZGER	[illegible]
APPROVED MSC		DATE

WIRING BOARD B
RADAR RESOLVER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008043

SCALE 5/1
SHEET 1 OF 1

6008043

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REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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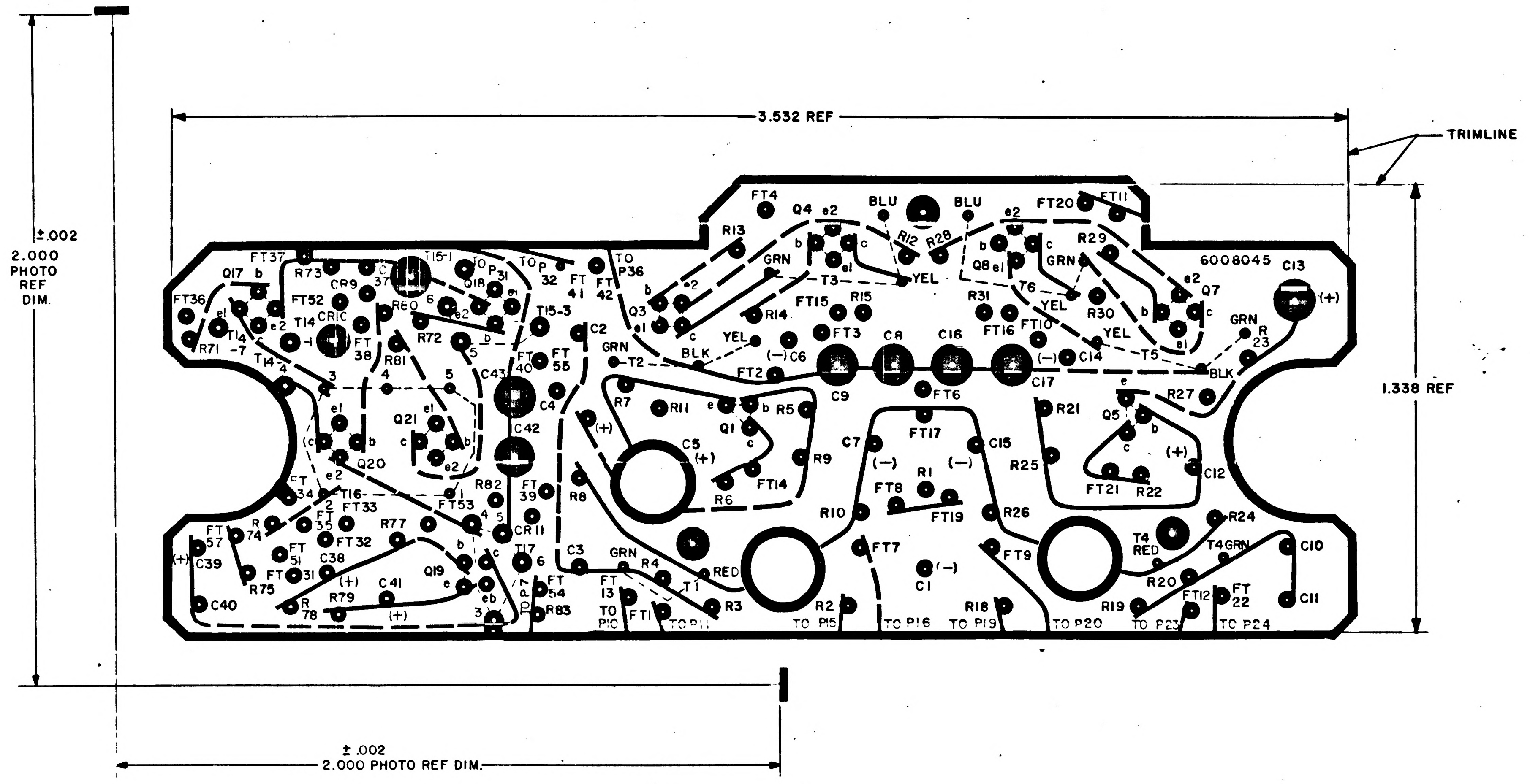
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1.338 REF
±.002
2.000
PHOTO
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DIM.
±.002
2.000 PHOTO REF DIM.
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FT4
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FT20
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R28
b
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Q8
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GRN
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C11
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TO P15
TO P16
R18
TO P19
TO P20
R19
TO P23
TO P24
C40
(+)
3

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Bonarrigo 15 MAR 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

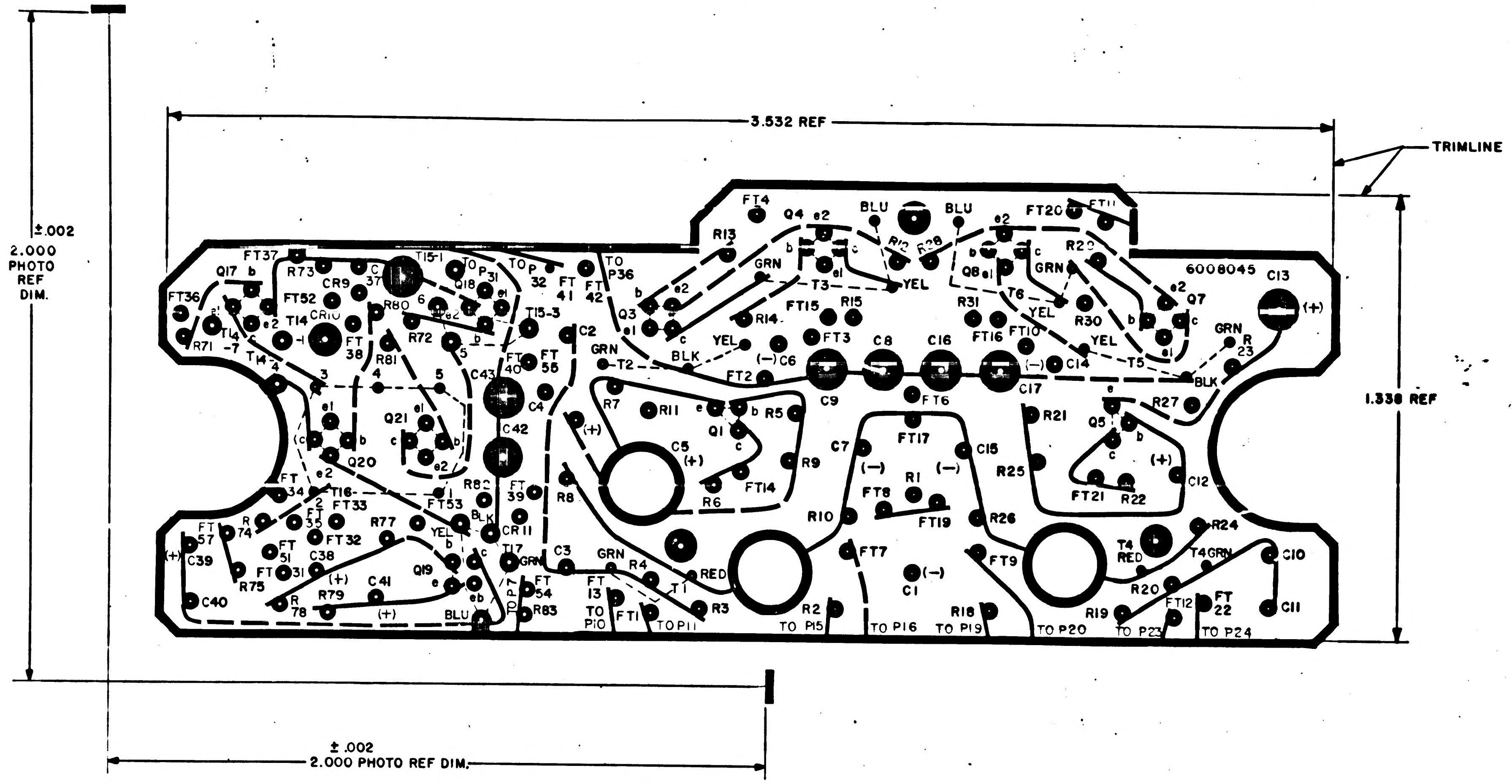
PHOTOGRAPHIC MASTER
WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008044
SCALE 5/1
SHEET 1 OF 1

6008044 A

REVISIONS 27832						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	
B		REVISED PER TDRR 33007	KES		8 MAR 67	

7-5-66



3.532 REF
TRIMLINE
1.338 REF
±.002
2.000
PHOTO
REF
DIM.
±.002
2.000 PHOTO REF DIM.
6008045
FT4 Q4 e2 BLU BLU FT20 FT11
R13 R12 R28 Q8 R22 Q7 C13 (+)
FT37 Q17 R73 CR9 FT52 CR10 T14 FT38 R80 R72 R81
FT36 R71 T14 Q21 Q20 FT34 T16 FT33 FT35 FT32
FT57 R74 C39 C40 R75 FT51 C38 R79 C41 Q19 R78 BLU
T15-1 Q18 TO P31 TO P32 FT41 FT42 TO P36 T15-3 C2 Q3
FT40 FT55 C43 C42 C4 R7 R11 C5 Q1 R5 R9 R6 FT14 R8 FT39 R82 CR11 BLK YEL
GRN T2 BLK YEL FT2 C6 R14 FT15 R15 T3 YEL FT3 C8 C9 C16 FT6 C17 R31 FT16 FT10 T6 YEL C14 R30 T5 R23 GRN BLK
FT17 C7 (−) R1 (−) C15 R25 FT8 FT19 R10 R26 R21 Q5 (+) R27 FT21 R22 C12
C3 GRN R4 RED T17 GRN FT54 R83 FT13 TO P10 FT1 TO P11 T1 R3 R2 TO P15
FT7 C1 (−) TO P16 R18 TO P19 FT9 TO P20 R19 TO P23 T4 RED T4 GRN R24 R20 FT12 FT22 TO P24 C10 C11
TO P7

NOTES:

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4. CUT TO WITHIN .010 OF TRIMLINE

6008044 B

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
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CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Bongarrigo
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

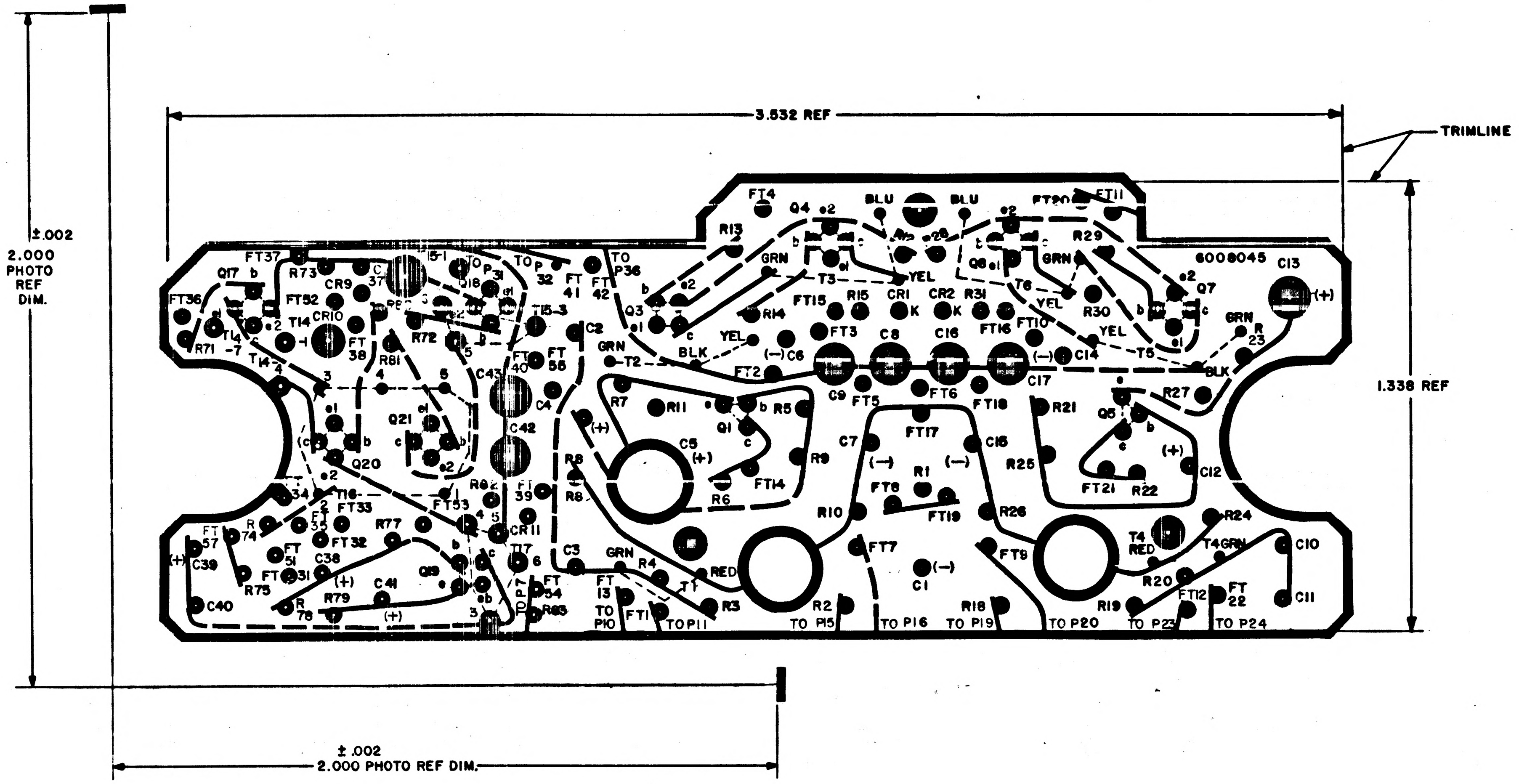
PHOTOGRAPHIC MASTER
WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO 80230
SIZE D
DRAWING NO 6008044
SCALE 5/1
SHEET 1 OF 1

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


3.532 REF
TRIMLINE
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±.002
2.000 PHOTO REF DIM.
6008045
FT4
Q4
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R29
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Q18
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FT 41
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T4 RED
T4GRN
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C3
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RED
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TO P7
R83
TO P10
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TO P15
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TO P19
TO P20
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NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
———

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	Bongarrigo	18 MAR 66
CHECKED		4 APR 66
APPROVED	Rubsert	5 APR 66
APPROVED		5 Apr 66
APPROVED MIT		6 April
APPROVED MSC	A. C. METZGER	
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008044
SCALE 5/1		SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27F72

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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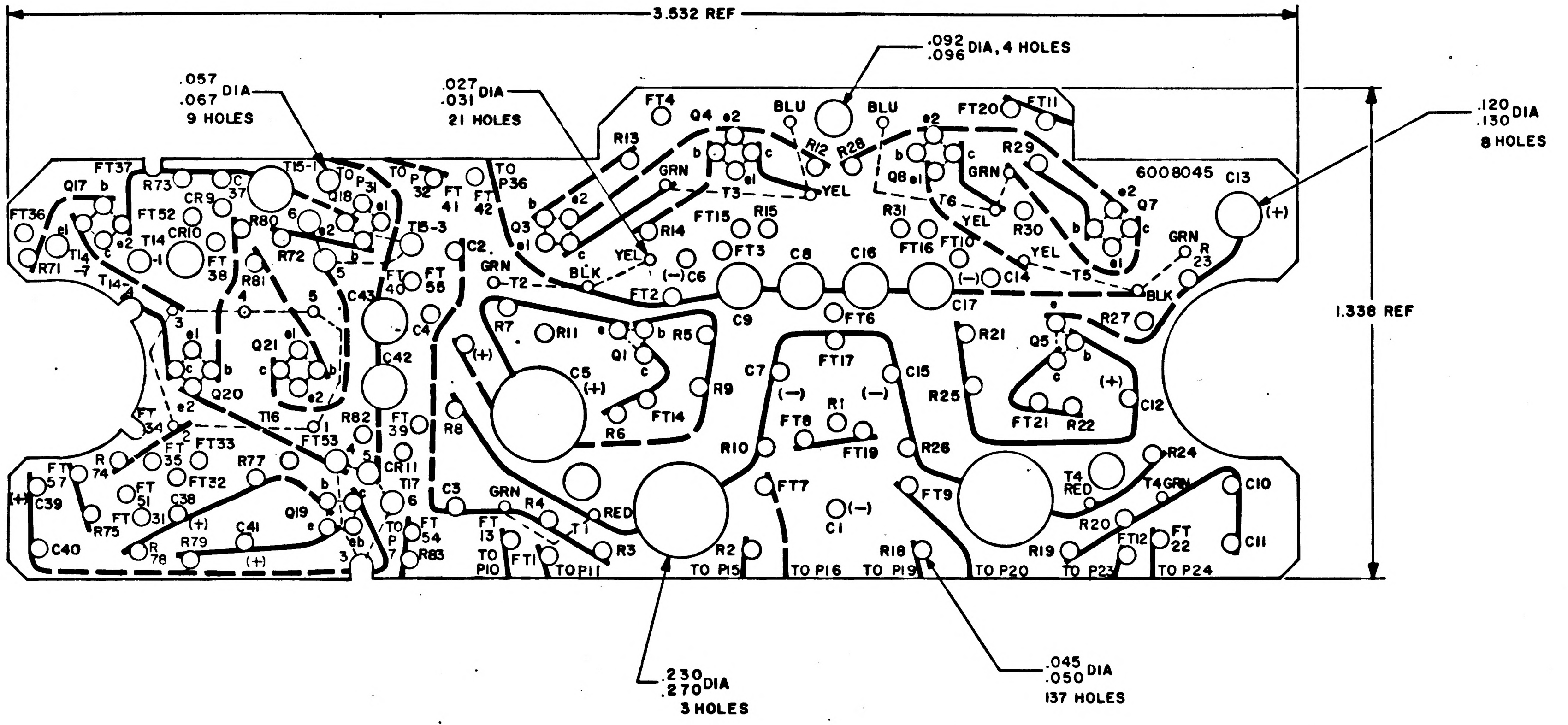

3.532 REF
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.057 .067 DIA 9 HOLES
.027 .031 DIA 21 HOLES
.120 .130 DIA 8 HOLES
1.338 REF
.230 .270 DIA 3 HOLES
.045 .050 DIA 137 HOLES
6008045
FT4 Q4 BLU BLU FT20 FT11
R13 GRN R12 R28 Q8 GRN R29
FT37 R73 CR9 T15-1 TO P31 TO P32 FT41 FT42 TO P36
Q17 FT52 CR10 T14 FT36 R71 FT38 R80 R72 R81 Q18 T15-3 C2
Q3 T3 YEL FT15 R15 R31 T6 YEL R30 Q7 C13 (+)
R14 FT3 C8 C16 FT16 FT10 YEL GRN R23
BLK (−)C6 FT2 T2 GRN C14 T5 BLK
FT40 FT55 C43 C4 C42 C9 FT6 C17
R7 R11 R5 R21 R27 Q5
Q21 Q20 Q1 C5 (+) R9 C7 FT17 C15 R25 C12
T16 R82 FT39 R8 R6 FT14 R1 FT21 R22
FT34 FT35 FT33 FT53 FT8 FT19 R10 R26
FT57 R74 C39 FT51 FT32 R77 CR11 T17 C3 GRN FT7 FT9 T4 RED R24 C10 T4GRN
R75 FT31 C38 Q19 R4 RED T1 C1 R20 FT12 FT22 C11
C40 R78 R79 C41 (+) TO P7 FT54 R83 FT13 TO P10 FT1 TO P11 R3 R2 TO P15 TO P16 R18 TO P19 TO P20 R19 TO P23 TO P24

REF
DWG NO. 6008044 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
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QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

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DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Bonarrigo 15 MAR 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO	SIZE	DRAWING NO.
80230	D	6008045

SCALE 5/1
SHEET 1 OF 1

6008045 A

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REVISIONS

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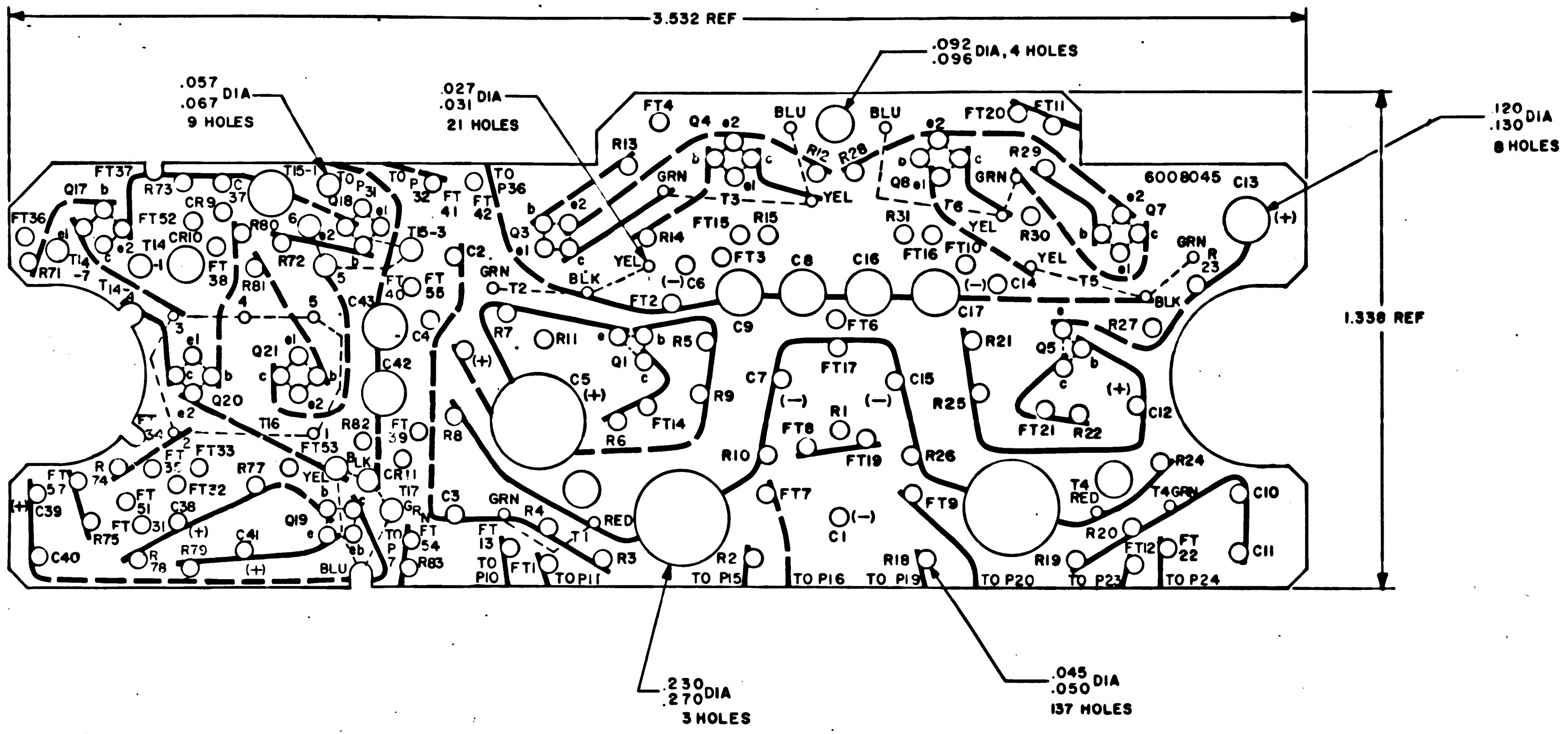
B		REVISED PER TDRR 33007	KES		8 MAR 67	


3.532 REF
.057
.067 DIA
9 HOLES
.027
.031 DIA
21 HOLES
.092
.096 DIA, 4 HOLES
.120
.130 DIA
8 HOLES
1.338 REF
.230
.270 DIA
3 HOLES
.045
.050 DIA
137 HOLES
6008045
FT36
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FT 57
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R79
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RED
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C1
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TO P20
T4 RED
T4 GRN
R24
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C10
C11

REF
DWG NO. 6008044 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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TOLERANCES ON
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DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Benarrigo
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO	SIZE	DRAWING NO
80230	D	6008045

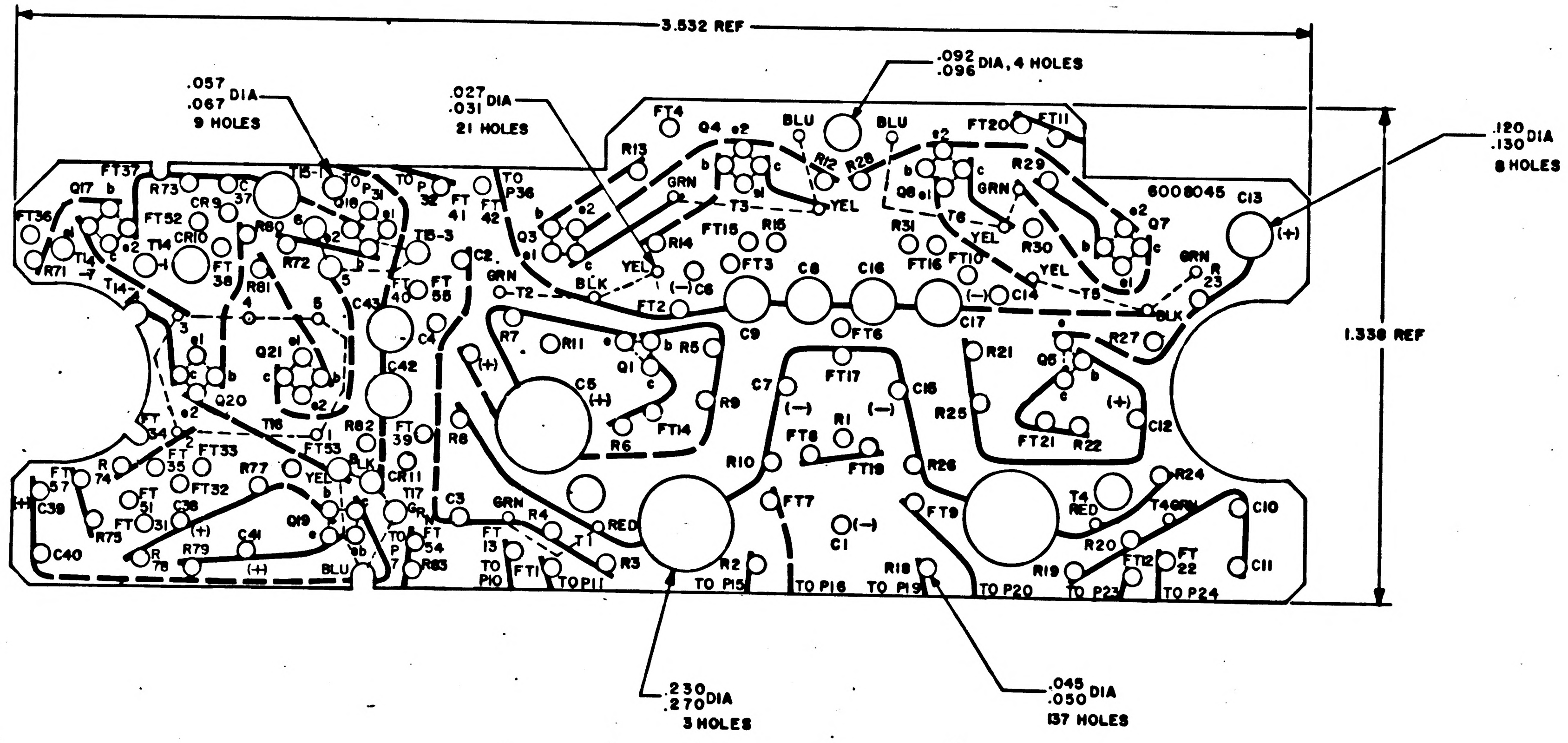
SCALE 5/1
SHEET 1 OF 1

6008045 B

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	
B		REVISED PER TDRR 33007	KES		8 MAR 67	
C		REVISED PER TDRR 35401	JRK		16 JAN 68	


3.532 REF
.092 .096 DIA, 4 HOLES
.057 .067 DIA 9 HOLES
.027 .031 DIA 21 HOLES
.120 .130 DIA 8 HOLES
1.338 REF
6008045
.230 .270 DIA 3 HOLES
.045 .050 DIA 137 HOLES
C13
TO P10
TO P11
TO P15
TO P16
TO P19
TO P20
TO P23
TO P24
BLU
YEL
GRN
BLK
RED

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

REF
DWG NO. 6008044 FOR PHOTOGRAPHIC MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

6007012	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN 15 MAR 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008045

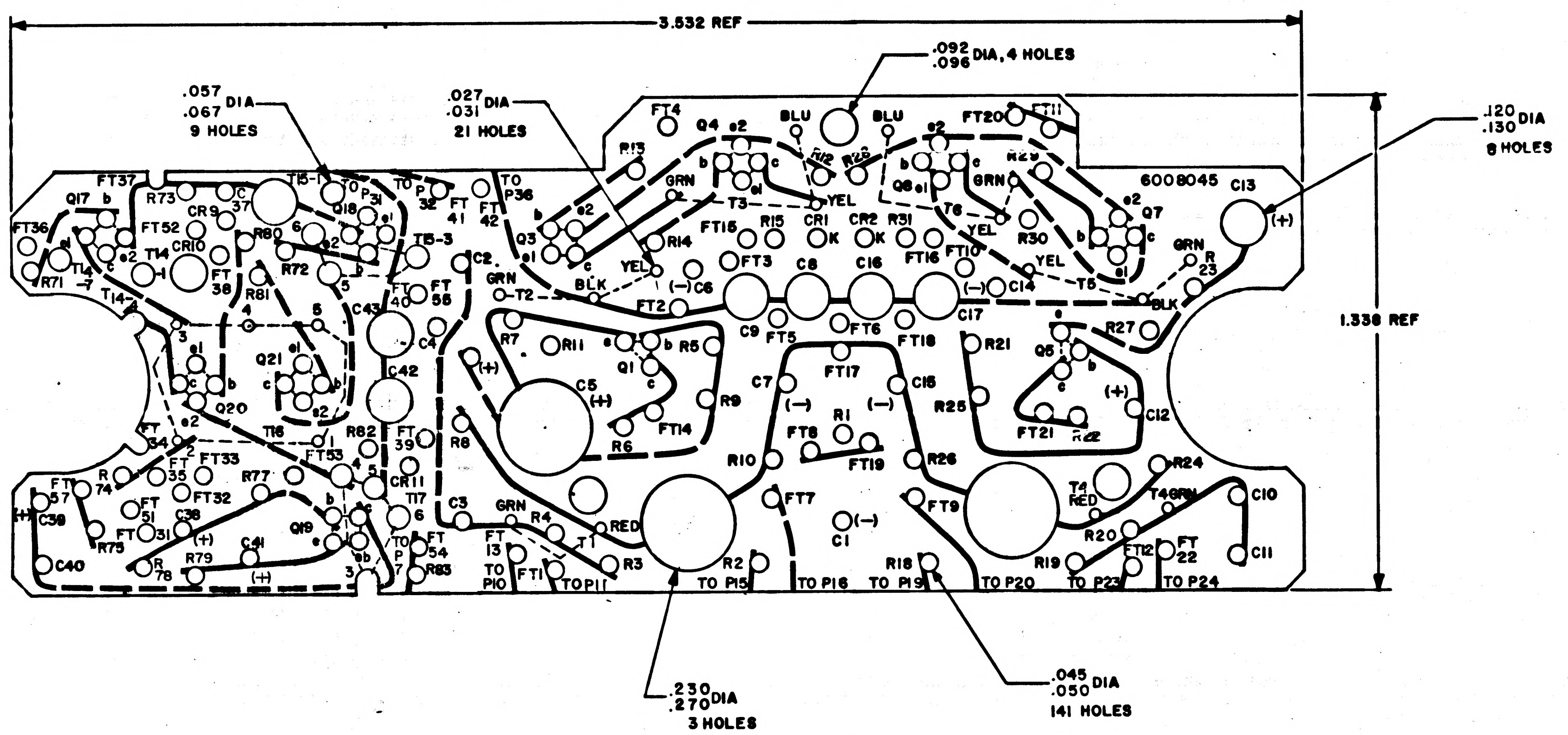
SCALE 5/1 SHEET 1 OF 1

6008045 C

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


3.532 REF
1.338 REF
.057 / .067 DIA 9 HOLES
.027 / .031 DIA 21 HOLES
.092 / .096 DIA, 4 HOLES
.120 / .130 DIA 8 HOLES
.230 / .270 DIA 3 HOLES
.045 / .050 DIA 141 HOLES
6008045
FT36 Q17 b FT37 R73 C37 CR9 FT52 CR10 T14 e1 e2 c R71 T14-7 T14-4 FT38
T15-1 TO P31 Q18 R80 R72 R81 T15-3 TO P32 FT41 FT42 TO P36
Q21 Q20 T16 R82 FT39 C43 C42 C4 FT40 FT56 C2
FT34 FT35 FT33 FT53 R74 FT57 C39 (+) R75 FT51 FT31 FT32 C38 R77 Q19 C41 R78 R79 (+) C40 CR11 T17 TO P7 FT54 R83
Q3 GRN T2 BLK YEL R13 R14 Q4 T3 GRN YEL BLU R12 R28 BLU FT4 FT15 R15 CR1 K CR2 K R31 FT3 C8 C16 FT16 FT10 (−) C6 (−) C14 FT2 C9 FT5 FT6 FT18 C17
Q6 e1 e2 T6 GRN YEL R29 FT20 FT11 R30 Q7 YEL T5 BLK GRN R23 C13 (+)
R7 R11 Q1 R5 R9 C5 (+) FT14 R6 R8 C3 GRN R4 T1 RED R3 FT13 TO P10 FT1 TO P11
C7 FT17 C15 R1 (−) FT8 FT19 R10 R26 FT7 C1 (−) FT9 R2 TO P15 TO P16 R18 TO P19 TO P20
R21 Q5 R27 R25 (+) C12 FT21 R22 R24 T4 RED T4 GRN C10 C11 R20 R19 FT12 FT22 TO P23 TO P24

REF
DWG NO. 6008044 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	Bengrrigo	15 MAR 66
CHECKED	[illegible]	4 APR 66
APPROVED	[illegible]	5 APR 66
APPROVED	[illegible]	5 Apr 66
APPROVED MIT	W. Kupfer	[illegible]
APPROVED MSC	A. C. [illegible]	DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD A
RADAR RESOLVER

CODE IDENT NO.	SIZE	DRAWING NO.
80230	D	6008045

SCALE 5/1 SHEET 1 OF 1

6008045

REVISIONS 27828					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR		11 MAR 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: MAGNESIUM ALLOY AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
   FINISHED SIZE: 11.250 X 8.875 X .600.

3. IDENTIFY USING DRAWING NUMBER PER ND1002019.

4. THIS IS AN INCOMPLETE DRAWING.

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	6008048-001	HEADER

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6007016-011	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± ___ 3 PLACE DECIMALS ± ___ ANGLES ± ___

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN A.J. Flaherty DATE 7-MAR-66
CHECKED G. GRIEB 8 MAR 66
APPROVAL 8 MAR 66
CONTRACT NAS 9-497
NASA APPROVAL A. C. METZGER
MIT APPROVAL

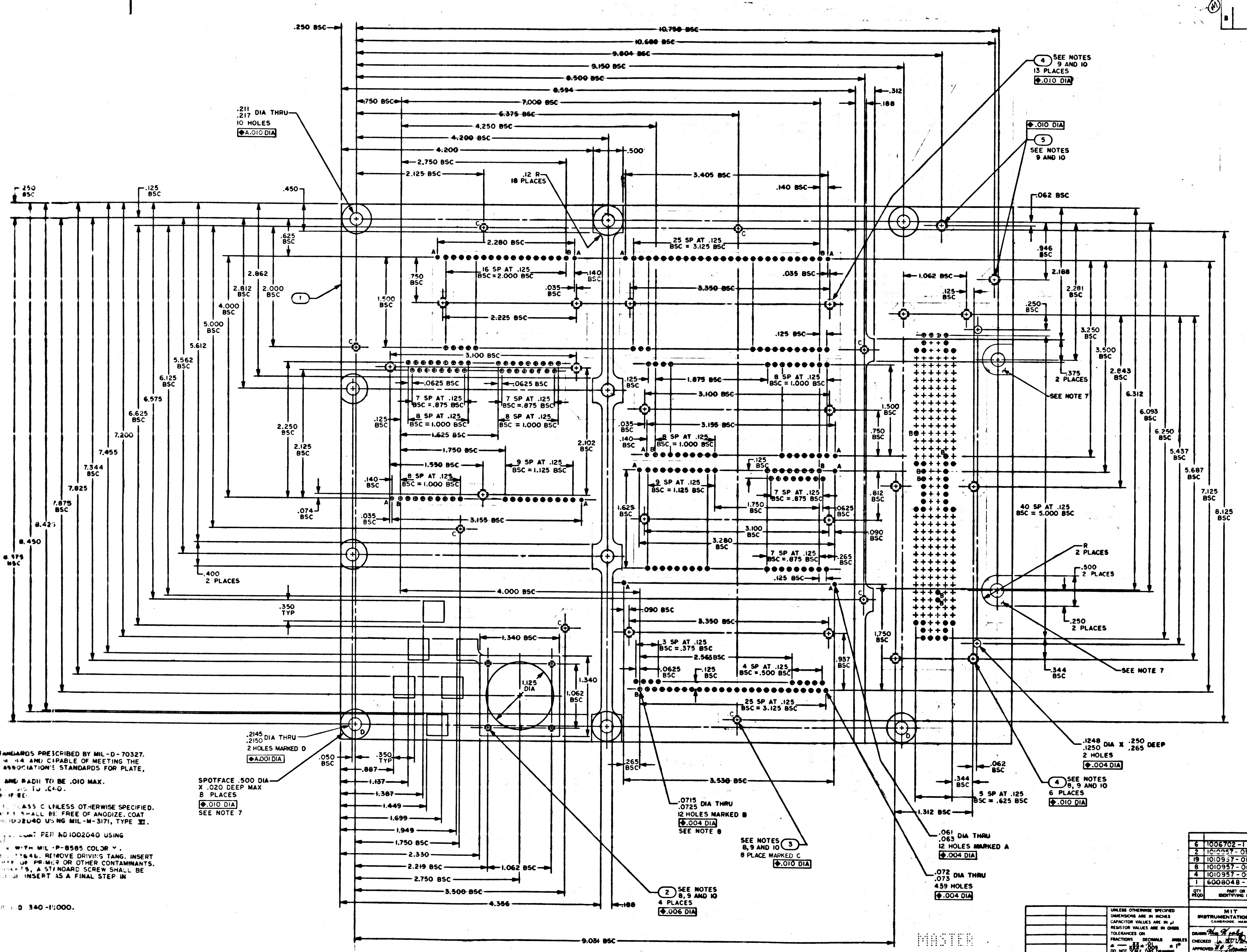
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
(INSEPARABLE ASSEMBLY)
SIGNAL CONDITIONER
LEM-FLIGHT QUALIFICATION

SIZE C CODE IDENT NO. 80230 6008048

SCALE — SHEET 1 OF 1

B	REPLACES WORD DWG REV A PER TDRR 28628				



.211 .217 DIA THRU 10 HOLES ⌖A.010 DIA
.12 R 18 PLACES
④ SEE NOTES 9 AND 10 13 PLACES ⌖.010 DIA
⌖.010 DIA ⑤ SEE NOTES 9 AND 10
①
.375 2 PLACES
SEE NOTE 7
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES ⌖.004 DIA
④ SEE NOTES 8, 9 AND 10 6 PLACES ⌖.010 DIA
5 SP AT .125 BSC = .625 BSC
.061 .063 DIA THRU 12 HOLES MARKED A ⌖.004 DIA
.072 .073 DIA THRU 439 HOLES ⌖.004 DIA
SEE NOTES 8, 9 AND 10 ③ 8 PLACE MARKED C ⌖.010 DIA
.0715 .0725 DIA THRU 12 HOLES MARKED B ⌖.004 DIA SEE NOTE 8
② SEE NOTES 8, 9 AND 10 4 PLACES ⌖.006 DIA
.2145 .2150 DIA THRU 2 HOLES MARKED D ⌖A.001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 8 PLACES ⌖.010 DIA SEE NOTE 7
1.125 DIA
10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
8.500 BSC
8.594
7.000 BSC
6.375 BSC
4.250 BSC
4.200 BSC
4.200
2.750 BSC
2.125 BSC
3.405 BSC
9.031 BSC
4.366
3.500 BSC
3.530 BSC
MASTER

STANDARDS PRESCRIBED BY MIL-D-70327.
44 AND CAPABLE OF MEETING THE
ASSOCIATION'S STANDARDS FOR PLATE,

AND RADII TO BE .010 MAX.
TO .040.
IED.

CLASS C UNLESS OTHERWISE SPECIFIED.
SHALL BE FREE OF ANODIZE. COAT
1002040 USING MIL-M-3171, TYPE VI.

COAT PER ND1002040 USING

WITH MIL-P-8585 COLOR Y.
33646. REMOVE DRIVING TANG. INSERT
FREE OF PRIMER OR OTHER CONTAMINANTS.
INSERTS, A STANDARD SCREW SHALL BE
INSERT AS A FINAL STEP IN

D 340-1000.

6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
19	1010957-010	INSERT, SCREW THREAD, LOCKING	4
8	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008048-001	HEADER	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007018	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

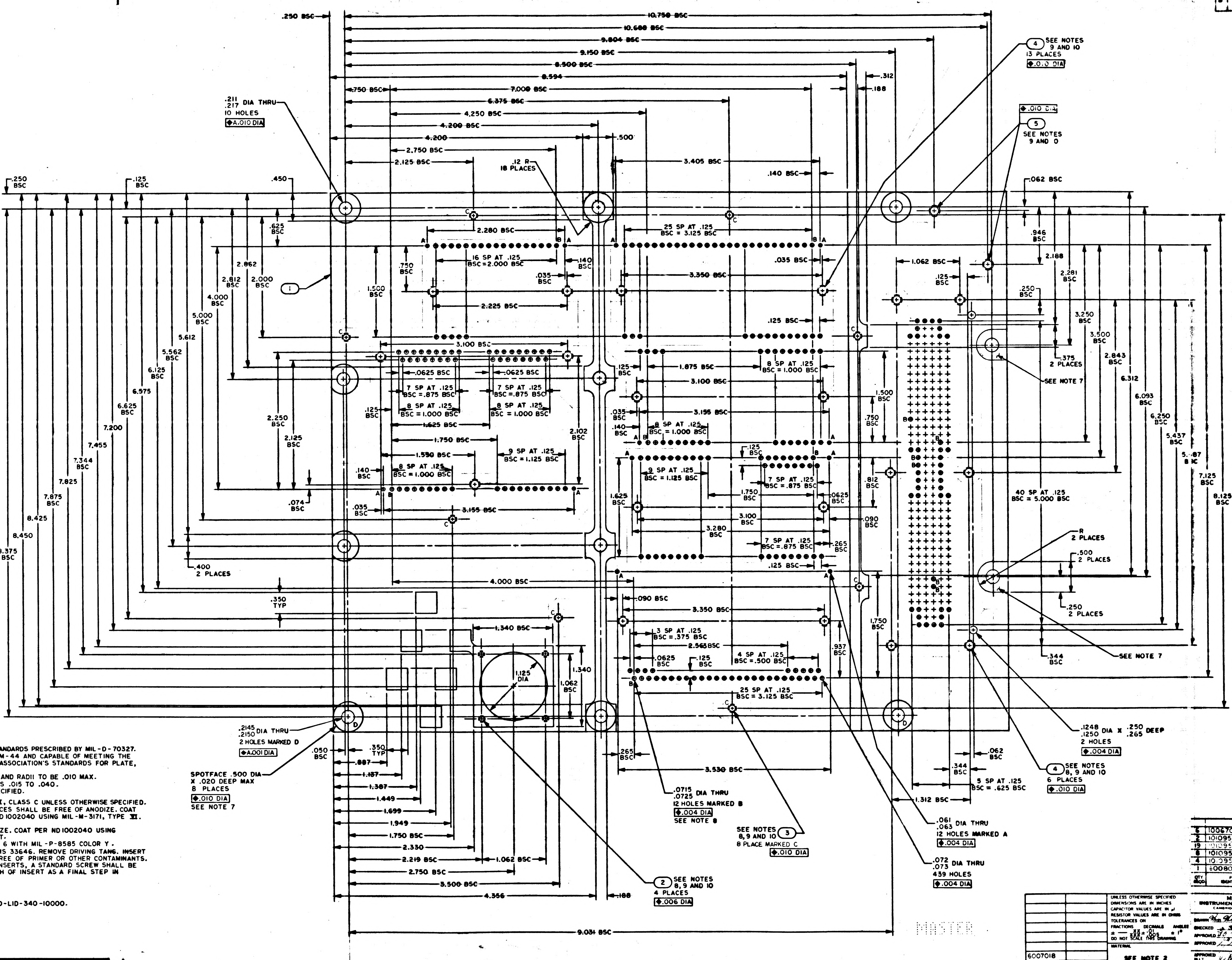
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT 5-10-66
APPROVED MSC A.C. METZGER

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008048
SCALE 2/1
SHEET 1 OF 2

6008048 B



.250 BSC
10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
8.500 BSC
8.594
.750 BSC
7.000 BSC
6.375 BSC
4.250 BSC
4.200 BSC
4.200
2.750 BSC
2.125 BSC
.312
.188
.500
.211 .217 DIA THRU 10 HOLES
◆A.010 DIA
.12 R 18 PLACES
3.405 BSC
.140 BSC
4 SEE NOTES 9 AND 10 13 PLACES
◆.010 DIA
5 SEE NOTES 9 AND 10
.062 BSC
2.280 BSC
25 SP AT .125 BSC = 3.125 BSC
16 SP AT .125 BSC=2.000 BSC
3.350 BSC
2.225 BSC
3.100 BSC
.0625 BSC
7 SP AT .125 BSC=.875 BSC
8 SP AT .125 BSC=1.000 BSC
1.625 BSC
1.750 BSC
1.550 BSC
9 SP AT .125 BSC=1.125 BSC
3.155 BSC
4.000 BSC
1.875 BSC
3.280 BSC
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.375 2 PLACES
SEE NOTE 7
.344 BSC
.090 BSC
1.340 BSC
1.125 DIA
1.062 BSC
3 SP AT .125 BSC=.375 BSC
2.565 BSC
4 SP AT .125 BSC=.500 BSC
3.530 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D
◆A.001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 8 PLACES
◆.010 DIA
SEE NOTE 7
.0715 .0725 DIA THRU 12 HOLES MARKED B
◆.004 DIA
SEE NOTE 8
SEE NOTES 8, 9 AND 10 3 8 PLACE MARKED C
◆.010 DIA
.061 .063 DIA THRU 12 HOLES MARKED A
◆.004 DIA
.072 .073 DIA THRU 439 HOLES
◆.004 DIA
2 SEE NOTES 8, 9 AND 10 4 PLACES
◆.006 DIA
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES
◆.004 DIA
4 SEE NOTES 8, 9 AND 10 6 PLACES
◆.010 DIA
5 SP AT .125 BSC = .625 BSC
1.312 BSC
.887
1.137
1.387
1.449
1.699
1.949
1.750 BSC
2.330
2.219 BSC
2.750 BSC
3.500 BSC
4.356
.188
9.031 BSC
8.375 BSC
8.450
8.425
7.875 BSC
7.825
7.344 BSC
7.455
7.200
6.625 BSC
6.575
6.125 BSC
5.562 BSC
5.612
5.000 BSC
4.000 BSC
2.812 BSC
2.862
2.000 BSC
8.125 BSC
7.125 BSC
6.250 BSC
6.093 BSC
6.312
2.843 BSC
3.500 BSC
3.250 BSC
2.281 BSC
2.188
.946 BSC
.400 2 PLACES
.350 TYP
MASTER

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX.
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040.
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED.
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED.
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
9. COAT THREADS OF FIND NO. 2, 3, 4, 5 AND 6 WITH MIL-P-8585 COLOR Y.
10. INSTALL FIND NO. 2, 3, 4 AND 5 WET PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR FULL LENGTH OF INSERT AS A FINAL STEP IN CLEANING INSERT THREADS.
11. INSTALL FIND NO. 6 WET PER ND1002121.
12. IDENTIFY WITH PART NO. PER ND1002019.
13. ▢ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000.

QTY REQD	PART OR IDENTIFYING NO.
6	1006702-1
2	1010957-013
19	1010957-010
8	1010957-00
4	1010957-008
1	6008048-0

NEXT ASSY	USED ON
6007018	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION
CAMBRIDGE, MASS

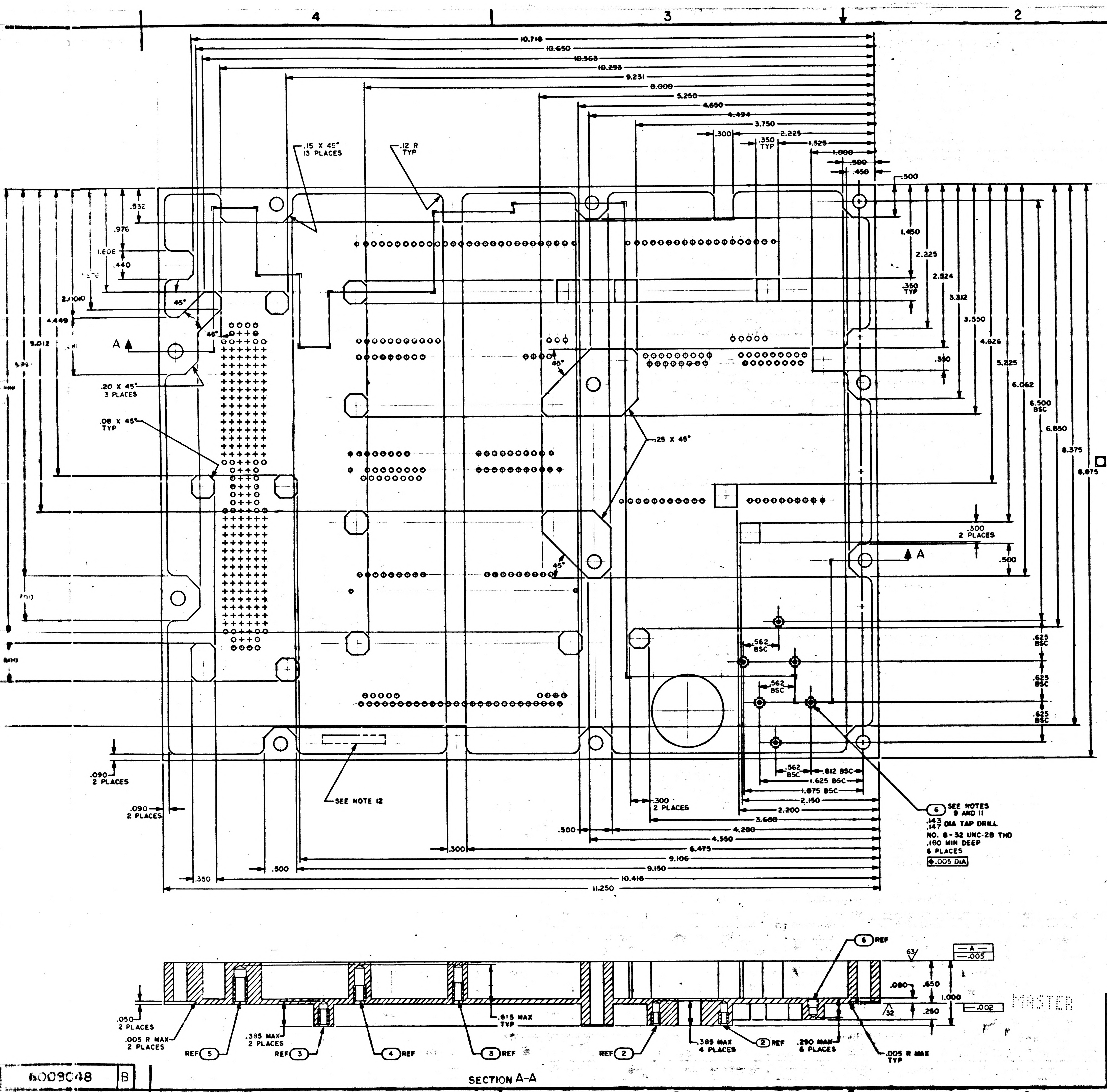
DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NSC A. C. ANDERSON

6008048 B

6008048

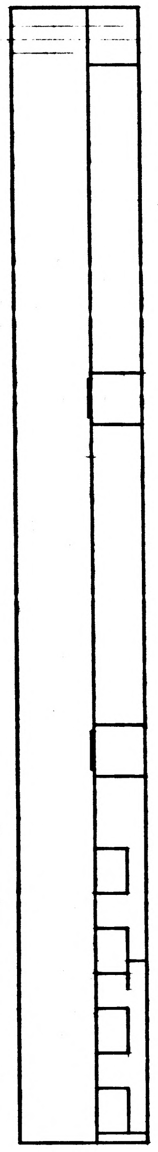
H2

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 28628	HCF		27 JUL 66	



10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
3.750
.300
2.225
.350 TYP
1.525
1.000
.500
.450
.500
.15 X 45° 13 PLACES
.12 R TYP
.532
.976
1.606
.440
2.100
4.449
5.012
45°
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.25 X 45°
1.450
2.225
2.524
.350 TYP
3.312
3.550
4.826
.350
5.225
6.062
6.500 BSC
6.850
8.375
8.875
.300 2 PLACES
.500
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.562 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
2.150
2.200
3.600
4.200
4.550
6.475
9.106
9.150
10.418
11.250
.500
.300
.350
.500
.090 2 PLACES
.090 2 PLACES
.300 2 PLACES
SEE NOTE 12
6 SEE NOTES 9 AND 11
.143 .147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
6 REF
63
A
.005
.080
.650
1.000
.250
.002
32
.050 2 PLACES
.005 R MAX 2 PLACES
.385 MAX 2 PLACES
.615 MAX TYP
.385 MAX 4 PLACES
.290 MAX 6 PLACES
.005 R MAX TYP
REF 5
REF 3
4 REF
3 REF
REF 2
2 REF

SECTION A-A



MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2
SHEET 1

NEXT ASSY	USED ON
6007018	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN
CHECKED
APPROVED 2 May 66
APPROVED 2 May 66
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

CODE IDENT NO.	SIZE	DRAWING NO
80230	J	6008048

SCALE 2/1
SHEET 2 OF 2

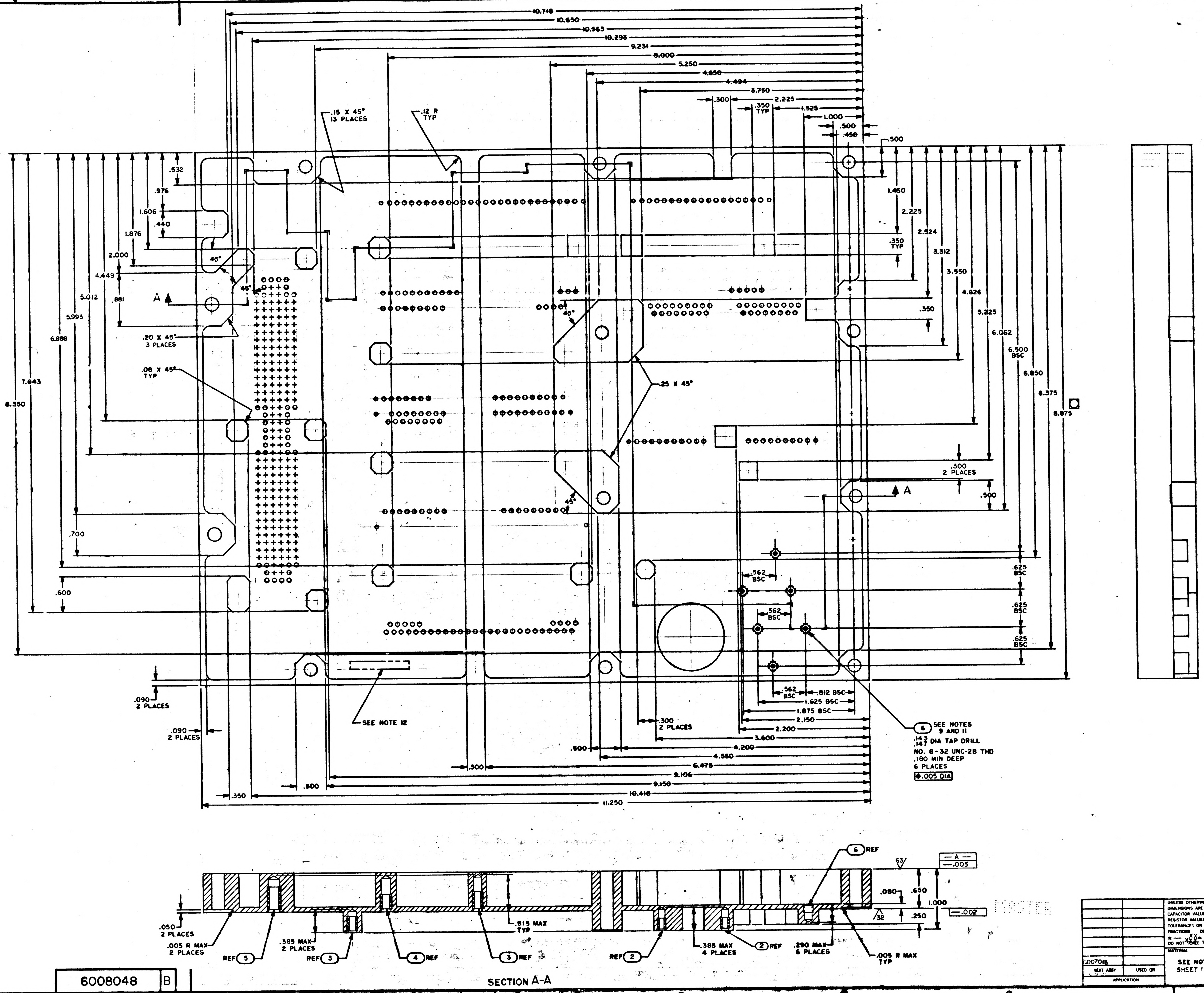
6008048 B

6008048 B

271

E-2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
3.750
.300
2.225
.350 TYP
1.525
1.000
.500
.450
.500
.15 X 45°
13 PLACES
.12 R
TYP
.532
.976
1.606
.440
1.876
2.000
4.449
.881
5.012
5.993
6.888
7.643
8.350
45°
A
.20 X 45°
3 PLACES
.08 X 45°
TYP
.25 X 45°
1.450
2.225
2.524
.350 TYP
3.312
3.550
4.826
.350
5.225
6.062
6.500 BSC
6.850
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2 PLACES
.500
A
.700
.600
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.562 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
2.150
2.200
3.600
4.200
4.550
6.475
9.106
9.150
10.418
11.250
.090
2 PLACES
.090
2 PLACES
SEE NOTE 12
.300
2 PLACES
.500
.300
.350
.500
6 SEE NOTES 9 AND 11
.143/.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
6 REF
63
A
.005
.080
.650
1.000
.290
.002
32
.050
2 PLACES
.005 R MAX
2 PLACES
REF 5
.385 MAX
2 PLACES
REF 3
4 REF
.615 MAX
TYP
3 REF
REF 2
.385 MAX
4 PLACES
2 REF
.290 MAX
6 PLACES
.005 R MAX
TYP
SECTION A-A
D
C
B
A
5
4
3
2

6008048 B

.007018	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — .XX ± / .XXX ± .005 ± °
DO NOT SCALE THIS DRAWING

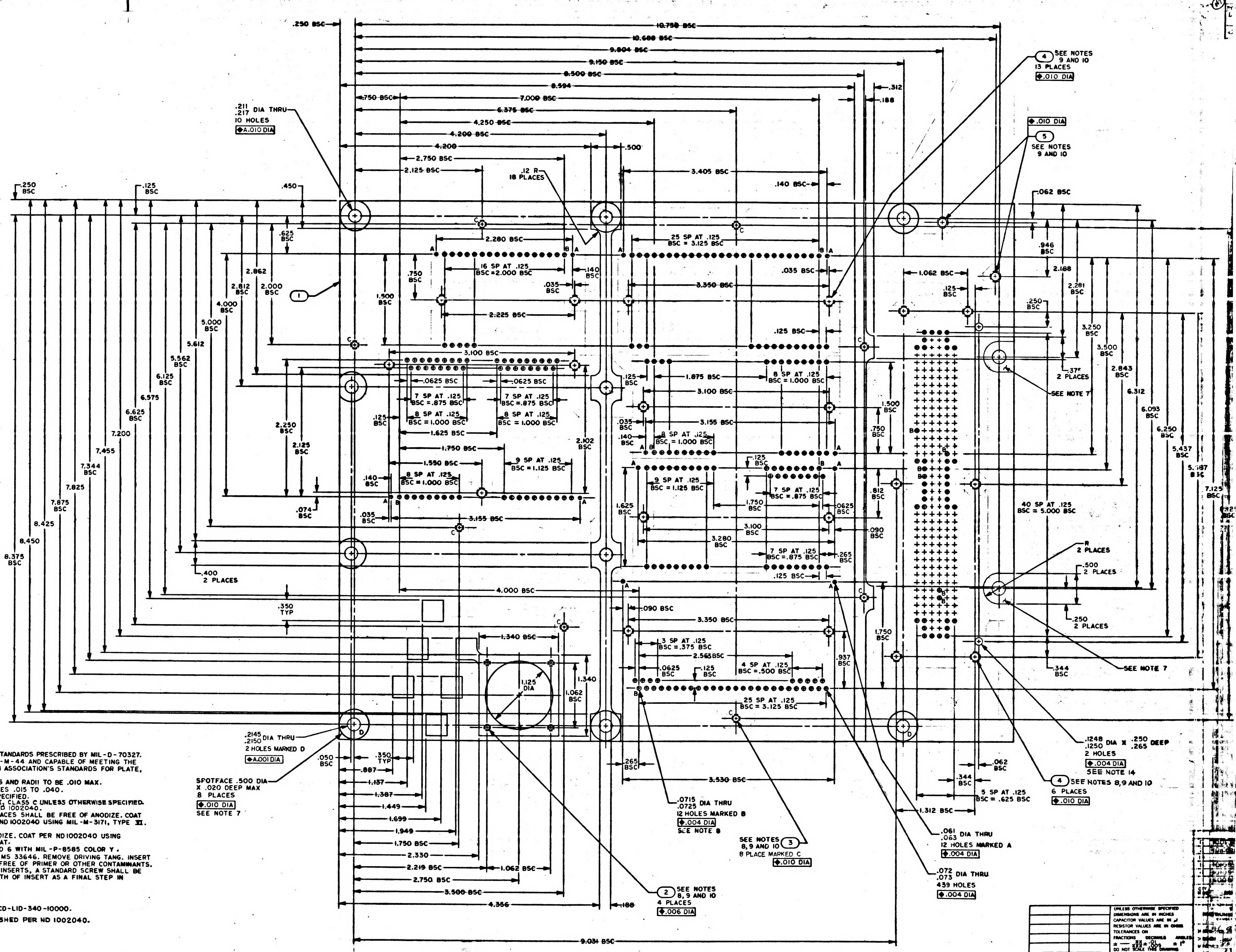
MATERIAL
SEE NOTE 2
SHEET 1

QTY REQD
PART OR IDENTIFYING NO.

MIT
INSTRUMENTATION LA
CAMBRIDGE MASS

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED NSC

MASTER


10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
8.500 BSC
8.594
.250 BSC
.750 BSC
7.000 BSC
6.375 BSC
4.250 BSC
4.200 BSC
4.208
2.750 BSC
2.125 BSC
.500
.312
.188
3.405 BSC
.140 BSC
.211
.217 DIA THRU
10 HOLES
◆A.010 DIA
.12 R
18 PLACES
4 SEE NOTES 9 AND 10
13 PLACES
◆.010 DIA
◆.010 DIA
5 SEE NOTES 9 AND 10
.062 BSC
25 SP AT .125 BSC = 3.125 BSC
2.280 BSC
16 SP AT .125 BSC = 2.000 BSC
3.350 BSC
2.225 BSC
3.100 BSC
1.062 BSC
.946 BSC
2.188
2.281 BSC
3.250 BSC
3.500 BSC
2.843 BSC
6.312
6.093 BSC
6.250 BSC
5.437 BSC
5.187 BSC
7.125 BSC
.37° 2 PLACES
SEE NOTE 7
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
SEE NOTE 7
.344 BSC
.0625 BSC
7 SP AT .125 BSC = .875 BSC
8 SP AT .125 BSC = 1.000 BSC
1.625 BSC
1.750 BSC
1.550 BSC
9 SP AT .125 BSC = 1.125 BSC
2.102 BSC
3.155 BSC
1.875 BSC
3.100 BSC
3.155 BSC
3.280 BSC
4.000 BSC
.400 2 PLACES
.350 TYP
1.340 BSC
1.125 DIA
1.340
1.062 BSC
3 SP AT .125 BSC = .375 BSC
2.565 BSC
4 SP AT .125 BSC = .500 BSC
25 SP AT .125 BSC = 3.125 BSC
.090 BSC
.937 BSC
1.750 BSC
.250 BSC
.450
.625 BSC
2.862
2.812 BSC
2.000 BSC
4.000 BSC
5.000 BSC
5.612
5.562 BSC
6.125 BSC
6.575
6.625 BSC
7.200
7.455
7.344 BSC
7.825
7.875 BSC
8.425
8.450
8.375 BSC
1.500 BSC
2.250 BSC
2.125 BSC
.074 BSC
.2145
.2150 DIA THRU
2 HOLES MARKED D
◆A.001 DIA
SPOTFACE .500 DIA
X .020 DEEP MAX
8 PLACES
◆.010 DIA
SEE NOTE 7
.050 BSC
.350 TYP
.887
1.137
1.387
1.449
1.699
1.949
1.750 BSC
2.330
2.219 BSC
1.062 BSC
2.750 BSC
3.500 BSC
4.356
.188
9.031 BSC
.265 BSC
3.530 BSC
.0715
.0725 DIA THRU
12 HOLES MARKED B
◆.004 DIA
SEE NOTE 8
SEE NOTES 3 8, 9 AND 10
8 PLACE MARKED C
◆.010 DIA
2 SEE NOTES 8, 9 AND 10
4 PLACES
◆.006 DIA
.061
.063 DIA THRU
12 HOLES MARKED A
◆.004 DIA
.072
.073 DIA THRU
439 HOLES
◆.004 DIA
.344 BSC
.062 BSC
5 SP AT .125 BSC = .625 BSC
1.312 BSC
.1248
.1250 DIA X .250 .265 DEEP
2 HOLES
◆.004 DIA
SEE NOTE 14
4 SEE NOTES 8,9 AND 10
6 PLACES
◆.010 DIA
1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX.
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040.
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED.
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED. TOUCH-UP, EXCLUDING CORROSION, PER ND 1002040.
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND 1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND 1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
9. COAT THREADS OF FIND NO. 2, 3, 4, 5 AND 6 WITH MIL-P-8585 COLOR Y.
10. INSTALL FIND NO. 2, 3, 4 AND 5 WET PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR FULL LENGTH OF INSERT AS A FINAL STEP IN CLEANING INSERT THREADS.
11. INSTALL FIND NO. 6 WET PER ND 1002121.
12. IDENTIFY WITH PART NO. PER ND 1002019.
13. ☐ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000.
14. BLIND HOLES ARE PERMITTED TO BE FINISHED PER ND 1002040.

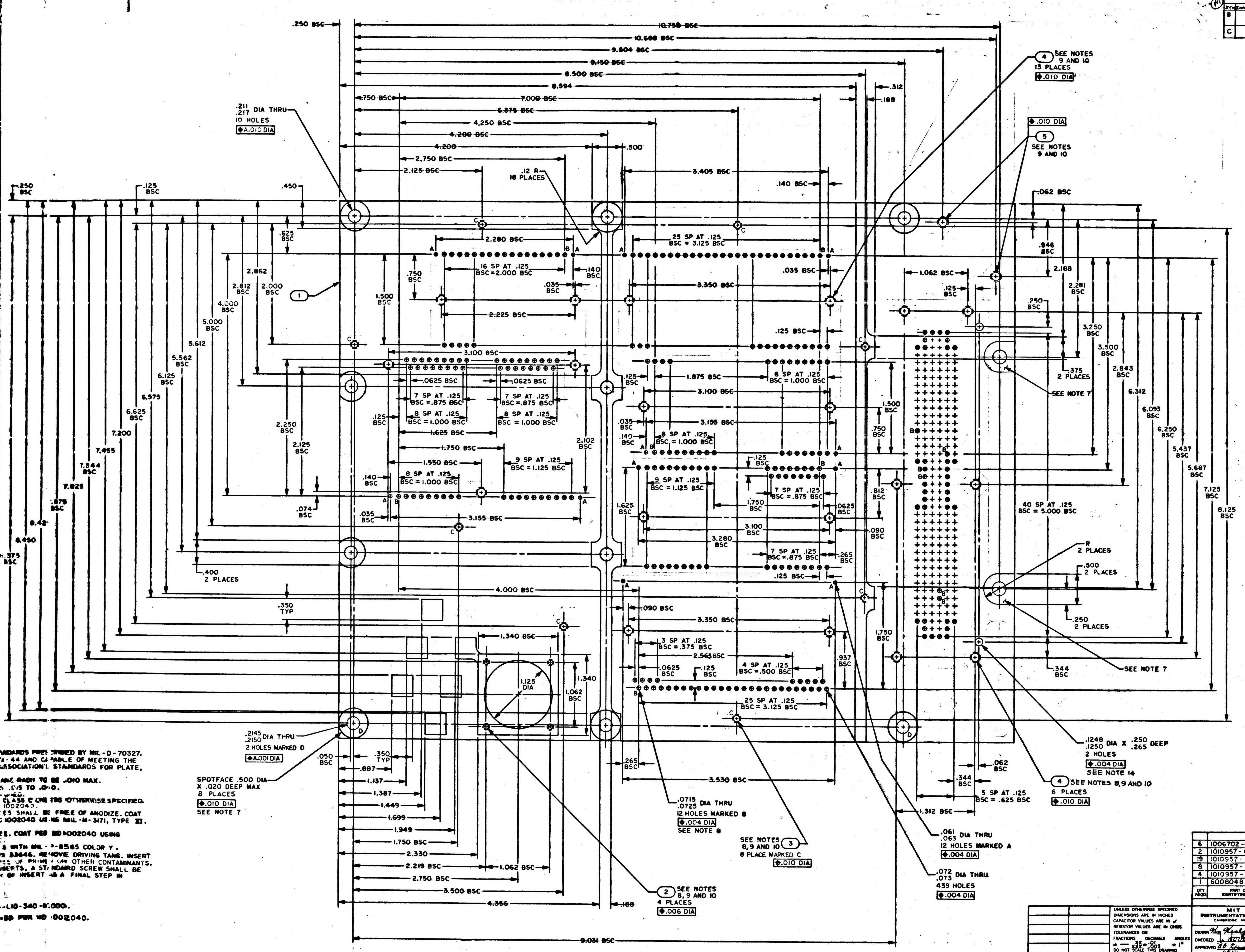
6007018		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS ± — DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1° DO NOT SCALE THIS DRAWING
NEXT ASSY	USED ON	MATERIAL SEE NOTE 2
APPLICATION		

6008048 C

1/6008048

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVAL
B		REPLACES WORD DWG REV A PER TDRR 28628			27 66	
C		REVISED PER TDRR 32783	ME		3 FEB 67	



10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
8.500 BSC
8.594
7.000 BSC
6.375 BSC
4.250 BSC
4.200 BSC
4.200
2.750 BSC
2.125 BSC
.250 BSC
.750 BSC
.312
.188
.500
3.405 BSC
.140 BSC
.211 .217 DIA THRU 10 HOLES ◆A.010 DIA
.12 R 18 PLACES
4 SEE NOTES 9 AND 10 13 PLACES ◆.010 DIA
5 SEE NOTES 9 AND 10 ◆.010 DIA
.062 BSC
2.280 BSC
25 SP AT .125 BSC = 3.125 BSC
16 SP AT .125 BSC = 2.000 BSC
2.225 BSC
3.350 BSC
3.100 BSC
1.062 BSC
40 SP AT .125 BSC = 5.000 BSC
SEE NOTE 7
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.375 2 PLACES
.344 BSC
4.000 BSC
1.340 BSC
1.125 DIA
1.062 BSC
1.340
.350 TYP
.400 2 PLACES
.2145 .2150 DIA THRU 2 HOLES MARKED D ◆A.001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 8 PLACES ◆.010 DIA SEE NOTE 7
.0715 .0725 DIA THRU 12 HOLES MARKED B ◆.004 DIA SEE NOTE 8
SEE NOTES 8, 9 AND 10 3 8 PLACE MARKED C ◆.010 DIA
2 SEE NOTES 8, 9 AND 10 4 PLACES ◆.006 DIA
.061 .063 DIA THRU 12 HOLES MARKED A ◆.004 DIA
.072 .073 DIA THRU 439 HOLES ◆.004 DIA
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES ◆.004 DIA SEE NOTE 14
4 SEE NOTES 8,9 AND 10 6 PLACES ◆.010 DIA
5 SP AT .125 BSC = .625 BSC
3.530 BSC
1.312 BSC
4.356
9.031 BSC
3.500 BSC
2.750 BSC
2.219 BSC
1.062 BSC
2.330
1.750 BSC
.188

ANDARDS PRESCRIBED BY MIL-D-70327.
-44 AND CAPABLE OF MEETING THE
ASSOCIATION'L STANDARDS FOR PLATE,

AND RADII TO BE .010 MAX.
S .015 TO .040.

CLASS C UNLESS OTHERWISE SPECIFIED.
1002040.
ES SHALL BE FREE OF ANODIZE. COAT
D 1002040 USING MIL-M-3171, TYPE VI.

ZE. COAT PER ND1002040 USING

WITH MIL-P-8585 COLOR Y.
MS 33646. REMOVE DRIVING TANG. INSERT
OF PRIMER OR OTHER CONTAMINANTS.
NSERTS, A STANDARD SCREW SHALL BE
OF INSERT AS A FINAL STEP IN

-LIB-340-01000.

NED PER ND 1002040.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
19	1010957-010	INSERT, SCREW THREAD, LOCKING	4
8	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008048-001	HEADER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007018	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 5 Apr 66
CHECKED 27 Apr 66
APPROVED 2 May 66
APPROVED 2 May 66
APPROVED MIT 5-10-66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

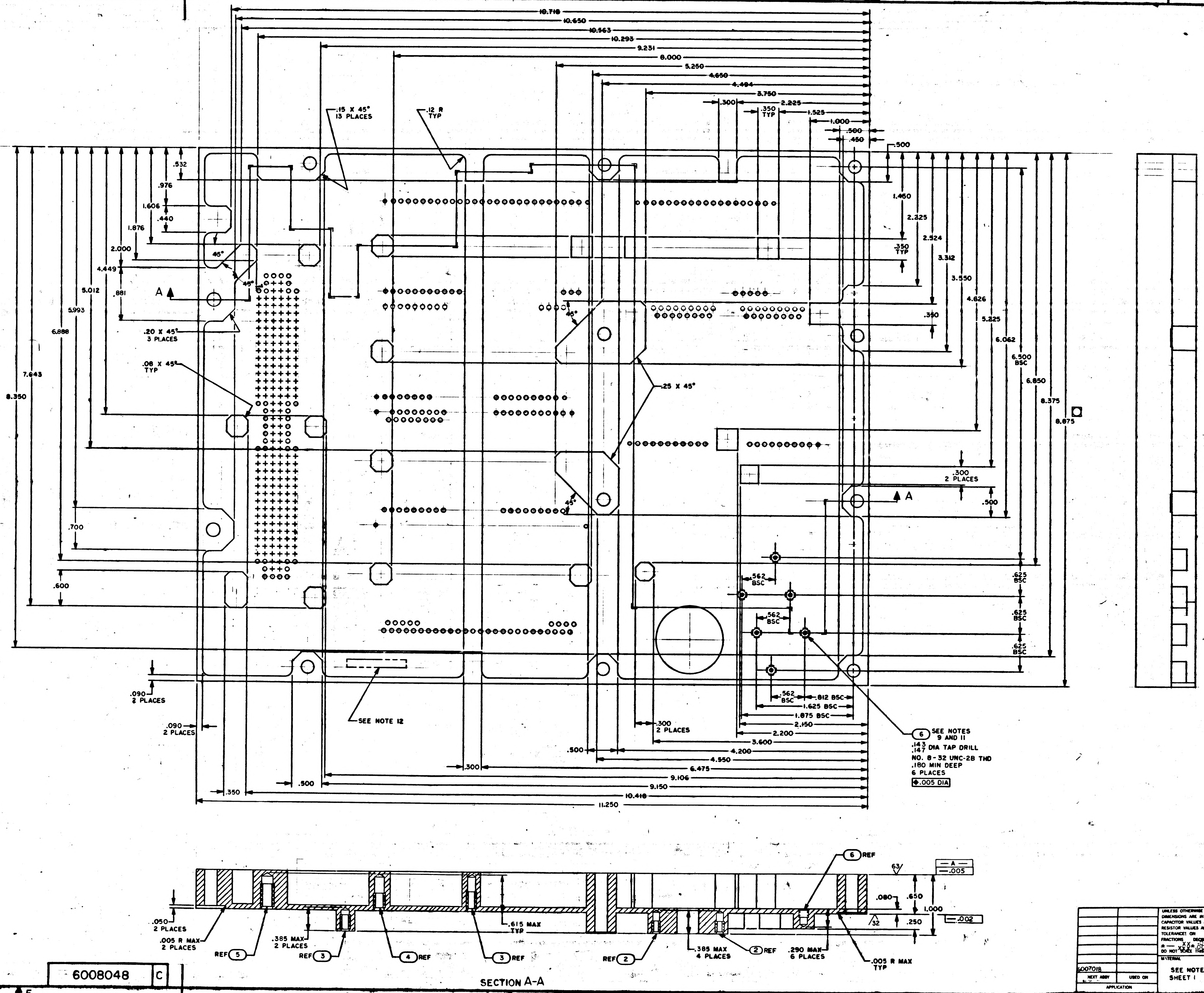
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008048
SCALE 2/1
SHEET 1 OF 2

6008048 C

6008048 C

2/6008048

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
3.750
.300
.350 TYP
2.225
1.525
1.000
.500
.450
.500
.15 X 45° 13 PLACES
.12 R TYP
.532
.976
1.606
.440
1.876
2.000
4.449
.881
5.012
5.993
6.888
7.643
8.350
45°
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.700
.600
.25 X 45°
1.450
2.225
.350 TYP
2.524
3.312
3.550
.340
4.626
5.225
6.062
6.500 BSC
6.850
8.375
8.875
.300 2 PLACES
.500
.562 BSC
.562 BSC
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
2.150
2.200
3.600
4.200
4.550
6.475
9.106
9.150
10.418
11.250
.090 2 PLACES
.090 2 PLACES
SEE NOTE 12
.300 2 PLACES
.500
.300
.350
.500
6 SEE NOTES 9 AND 11
.143/.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
.005 DIA
6 REF
63
A
.005
.080
.650
1.000
.250
32
.002
.050 2 PLACES
.005 R MAX 2 PLACES
REF 5
.385 MAX 2 PLACES
REF 3
4 REF
.615 MAX TYP
3 REF
REF 2
.385 MAX 4 PLACES
2 REF
.290 MAX 6 PLACES
.005 R MAX TYP
SECTION A-A
5
4
3
2
D
C
B
A

6008048 C

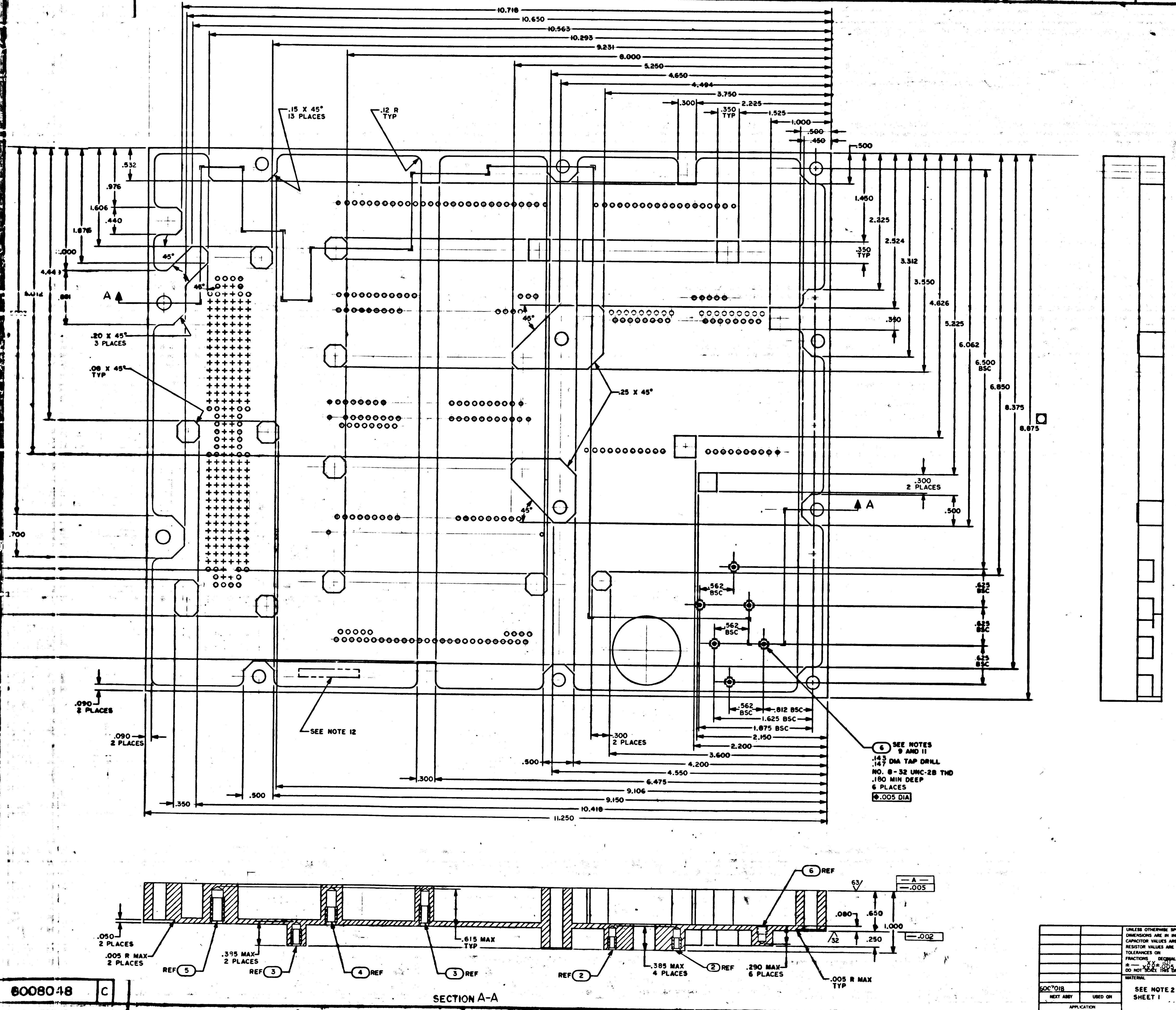
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — XX ± .01 XXX ± .005 ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2
SHEET 1

6007018	
NEXT ASSY	USED ON
APPLICATION	

INSTRU

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TORR 28628	ICF	LH	27 JUL 66	
C		REVISION STATUS CHANGED	MF	J.L	3 FEB 67	


10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
3.750
.300
2.225
.350 TYP
1.525
1.000
.500
.450
.500
.15 X 45° 13 PLACES
.12 R TYP
.532
.976
1.606
.440
1.876
.000
4.441
5.012
.881
A
45°
.20 X 45° 3 PLACES
.08 X 45° TYP
.25 X 45°
1.450
2.225
2.524
3.312
3.550
4.626
5.225
6.062
6.500 BSC
6.850
8.375
8.875
.350 TYP
.350
.300 2 PLACES
.500
.700
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.562 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
2.150
2.200
3.600
4.200
4.550
6.475
9.106
9.150
10.418
11.250
.500
.300
.350
.500
.300 2 PLACES
.090 2 PLACES
.090 2 PLACES
SEE NOTE 12
6 SEE NOTES 9 AND 11
.143 .147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
6 REF
63
A
.005
.080
.650
1.000
.250
32
.002
.050 2 PLACES
.005 R MAX 2 PLACES
REF 5
.395 MAX 2 PLACES
REF 3
4 REF
.615 MAX TYP
3 REF
REF 2
.385 MAX 4 PLACES
2 REF
.290 MAX 6 PLACES
.005 R MAX TYP
SECTION A-A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
60C7018	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2
SHEET 1

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Don Healy 18 Apr 66
CHECKED W. Haas 27 Apr 66
APPROVED 2 May 66
APPROVED 2 May 66
APPROVED MIT 5 May 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM FLIGHT QUAL

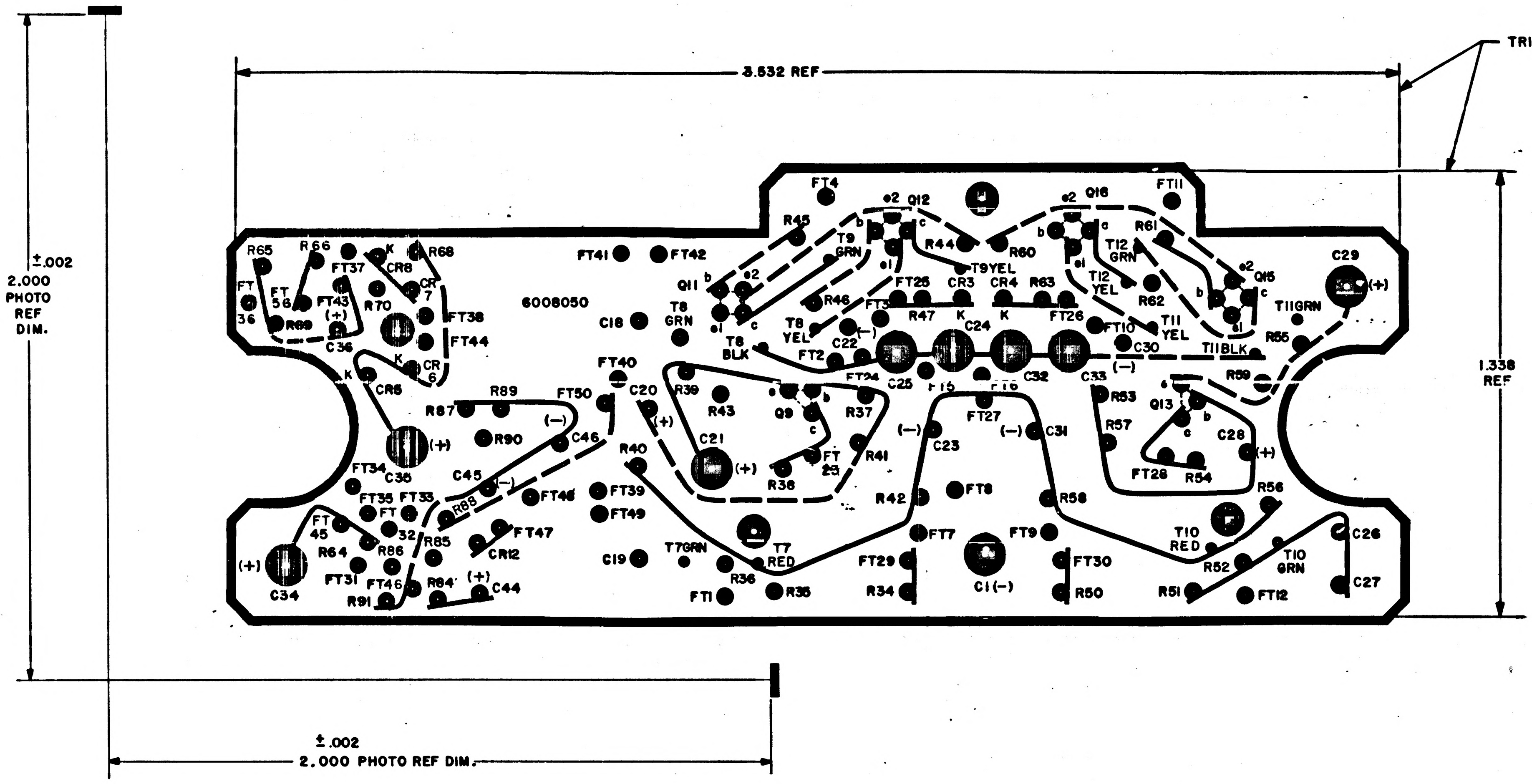
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008048
SCALE 2/1
SHEET 2 OF 2

6008048 C

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


TRIM LINE
3.532 REF
±.002
2.000 PHOTO REF DIM.
±.002
2.000 PHOTO REF DIM.
1.338 REF
6008050
FT4
e2 Q12
FT11
e2 Q16
R45
T9 GRN
R44
T9YEL
R60
T12 GRN
R61
C29
(+)
R65
R66
FT37
K
CR8
R68
FT41
FT42
Q11
b
e2
e1
c
R46
FT25
CR3
CR4
R63
T12 YEL
R62
e2
Q15
T11GRN
FT 36
FT 56
FT43
(+)
R69
R70
CR 7
FT38
C18
T8 GRN
T8 YEL
R47
K
C24
K
FT26
FT10
T11 YEL
R55
C36
K
CR 6
FT44
T8 BLK
FT2
C22
(-)
C30
T11BLK
K
CR5
R89
FT50
FT40
C20
R39
e
FT24
C25
FT6
FT8
C32
C33
R53
R59
R87
(+)
(-)
C46
(+)
R43
Q9
b
c
R37
FT27
(-)
C31
R57
Q13
b
C28
FT34
C35
R90
C45
(-)
R40
C21
(+)
FT 23
R41
(-)
C23
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c
(+)
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FT33
R88
FT48
FT39
R38
R42
FT8
R58
FT28
R54
R56
FT 45
FT
32
R85
FT47
FT49
T7GRN
T7 RED
FT7
FT9
T10 RED
C26
(+)
R64
R86
CR12
C19
FT29
FT30
R52
T10 GRN
C34
FT31
FT46
R84
(+)
C44
R36
R35
R34
C1(-)
R50
R51
FT12
C27
R91
FT1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Bonarrigo 16 MAR 66
CHECKED R.P. Kingsbury 4 Apr 66
APPROVED Runser 5 Apr 66
APPROVED D. Yvers 5 Apr 66
APPROVED MIT W. Kupfer 6 Apr 66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

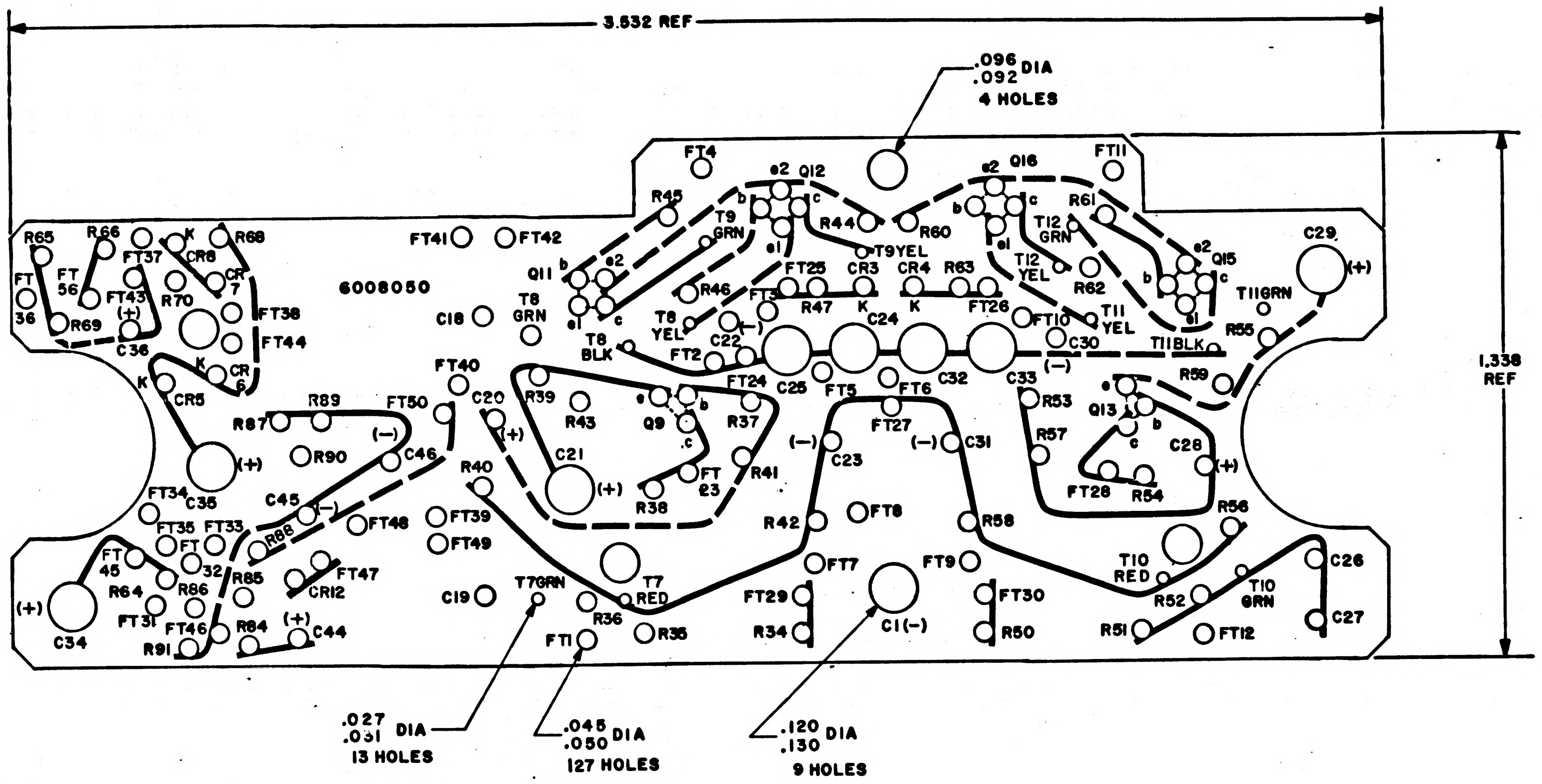
PHOTOGRAPHIC MASTER
WIRING BOARD C
RADAR RESOLVER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008049
SCALE 5/1
SHEET 1 OF 1

6008049

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


3.532 REF
.096
.092 DIA
4 HOLES
1.338
REF
6008050
FT4
R45
e2 Q12
b
c
e1
R44
R60
e2 Q16
FT11
T9
GRN
T9YEL
Q11
T8
GRN
T8
YEL
T8
BLK
R46
FT3
FT25
R47
CR3
CR4
K
R63
FT26
FT10
C30
C22
(–)
FT2
C24
C25
C32
C33
FT5
FT6
FT24
T12
GRN
T12
YEL
R61
R62
T11
YEL
T11BLK
T11GRN
Q15
R55
R59
C29
(+)
R65
R66
FT37
K
CR8
R68
CR
7
FT
36
FT
56
FT43
R70
(+)
R69
C36
FT38
FT44
CR
6
CR5
FT41
FT42
C18
FT40
C20
R39
R43
Q9
R37
C21
R41
FT
23
R38
R87
R89
FT50
(–)
C46
R90
C35
FT34
C45
FT48
FT39
FT49
R40
R88
FT35
FT33
FT
32
FT
45
R64
R86
R85
CR12
FT47
C34
FT31
FT46
R91
R84
C44
C19
T7GRN
T7
RED
R36
FT1
R35
C23
FT27
C31
FT8
R42
R58
FT7
FT9
FT29
FT30
R34
R50
C1(–)
R53
R57
Q13
C28
FT28
R54
R56
T10
RED
T10
GRN
R52
R51
FT12
C26
C27
.027
.031 DIA
13 HOLES
.045
.050 DIA
127 HOLES
.120
.130 DIA
9 HOLES

REF
DWG NO. 6008049 FOR PHOTOGRAPHIC MASTER

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND 1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007012	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Bonarrigo 16 APR 66
CHECKED R.B. [illegible] 4 APR 66
APPROVED Reinhard 5 APR 66
APPROVED [illegible] 5 Apr 66
APPROVED MIT W. Kupfer 6 Apr 66
A.A. [illegible]
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

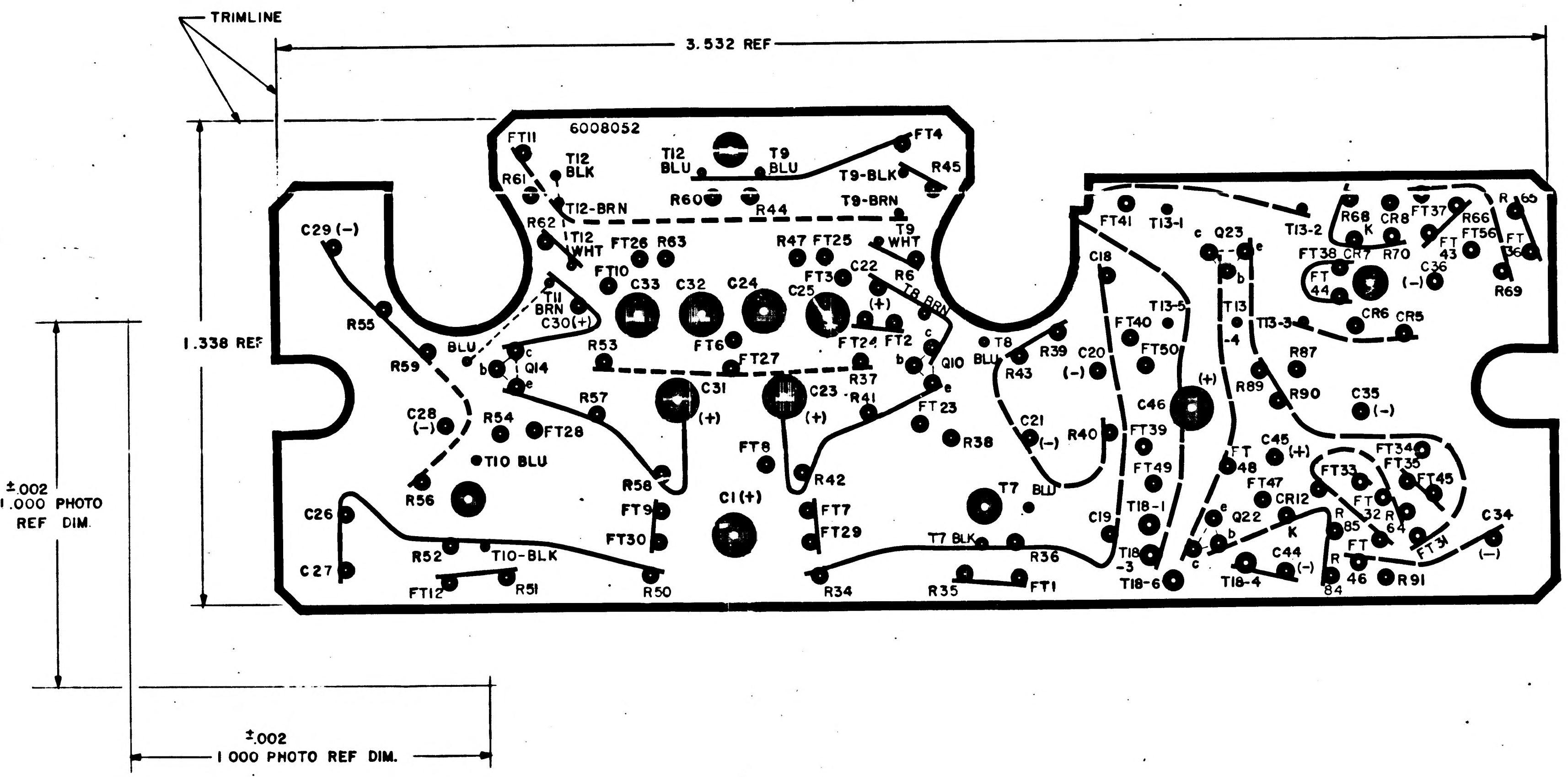
WIRING BOARD C
RADAR RESOLVER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008050
SCALE 8/1
SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	


TRIMLINE
3.532 REF
1.338 REF
±.002
1.000 PHOTO
REF DIM.
±.002
1.000 PHOTO REF DIM.
6008052
FT11
T12 BLK
R61
T12-BRN
R62
T12 WHT
T12 BLU
T9 BLU
FT4
T9-BLK
R45
R60
R44
T9-BRN
T9 WHT
FT26
R63
FT10
R47
FT25
C33
C32
C24
C25
FT3
C22
R6
T8 BRN
(+)
T11 BRN
C30(+)
C29 (−)
R55
R59
BLU
c
b
e
Q14
R53
FT6
FT27
FT24
FT2
c
b
Q10
e
R37
R41
C31
(+)
C23
(+)
FT23
R38
C28 (−)
R54
FT28
T10 BLU
R57
R58
R56
FT8
R42
C26
FT9
FT30
C1(+)
FT7
FT29
T7
BLU
T7 BLK
C27
R52
T10-BLK
FT12
R51
R50
R34
R35
R36
FT1
T8 BLU
R43
R39
C20 (−)
C21 (−)
R40
C18
C19
FT41
T13-1
c
Q23
e
b
T13-2
R68
K
CR8
FT37
R66
R65
FT56
FT43
FT36
R69
FT38
CR7
R70
FT44
C36 (−)
T13-5
T13-4
T13-3
CR6
CR5
FT40
FT50
C46
(+)
R87
R89
R90
C35 (−)
FT39
FT49
FT48
C45 (+)
FT34
FT35
FT33
FT45
FT47
CR12
FT32
R85
R64
T18-1
Q22
e
b
c
K
FT31
C34 (−)
T18-3
T18-6
T18-4
C44 (−)
R84
R46
R91

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 16 MAR 66
CHECKED 4 APR 66
APPROVED 5 APR 66
APPROVED
APPROVED MIT 6 Sep 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PHOTOGRAPHIC MASTER
WIRING BOARD D
RADAR RESOLVER

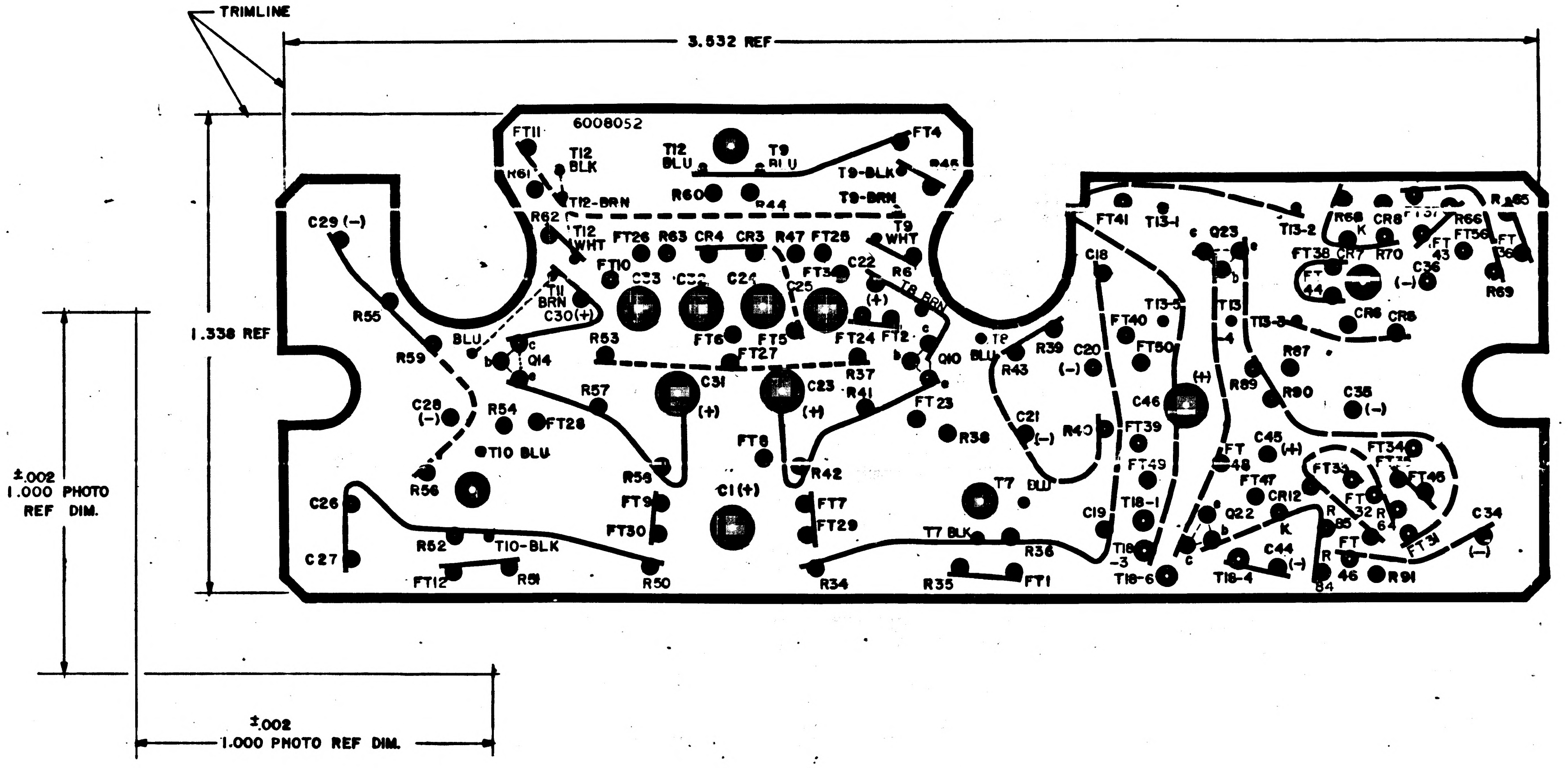
CODE IDENT NO 80230
SIZE D
DRAWING NO. 6008051
SCALE 5/1
SHEET 1 OF 1

6008051 A

NOTICE WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



TRIMLINE
3.532 REF
1.338 REF
±.002
1.000 PHOTO
REF DIM.
±.002
1.000 PHOTO REF DIM.
6008052
FT11
T12 BLK
T12 BLU
T9 BLU
FT4
R61
T9-BLK
R45
T12-BRN
R60
R44
T9-BRN
R62
T12 WHT
T9 WHT
FT26
R63
CR4
CR3
R47
FT25
C22
R6
FT10
C33
C32
C24
C25
FT34
(+)
T8 BRN
T11 BRN
C30(+)
C29 (−)
R55
BLU
R59
Q14
b
c
e
R53
FT6
FT5
FT27
FT24
FT2
Q10
T8 BLU
R43
R39
C20 (−)
R37
R41
C31 (+)
C23 (+)
FT23
C28 (−)
R54
R57
FT28
T10 BLU
FT8
R58
R42
C1 (+)
R38
C21 (−)
R40
R56
C26
C27
R52
T10-BLK
FT12
R51
FT9
FT30
R50
FT7
FT29
R34
T7 BLK
T7 BLU
R36
R35
FT1
FT41
T13-1
Q23
T13-2
R68
K
CR8
FT37
R66
R65
FT56
FT 43
FT 36
FT38
CR7
R70
FT 44
C36 (−)
R69
C18
T13-5
T13
T13-3
T13-4
CR6
CR5
FT40
FT50
C46 (+)
R87
R89
R90
C35 (−)
FT39
FT49
FT 48
C45 (+)
FT34
FT35
FT33
FT45
FT47
CR12
Q22
K
FT 32
R 85
R 64
FT31
C34 (−)
C19
T18-1
T18 -3
T18-6
T18-4
C44 (−)
R 84
FT 46
R91

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ORIGINAL OF THIS DRAWING OR REPRODUCTION MADE BY A PROCESS OR METHOD SHALL INSURE DIMENSIONAL STABILITY
3. MAKE MASTER PATTERN POSITIVE FILMS TO DIMENSIONS SHOWN
4. CUT TO WITHIN .010 OF TRIMLINE

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN Louis [illegible] [illegible]
CHECKED [illegible] [illegible]
APPROVED [illegible] 5 Apr 66
APPROVED [illegible] 5 Apr 66
APPROVED MIT [illegible] [illegible]
APPROVED MSC A. C. METZGER
DATE

PHOTOGRAPHIC MASTER.
WIRING BOARD D
RADAR RESOLVER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6008051
SCALE 5/1
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

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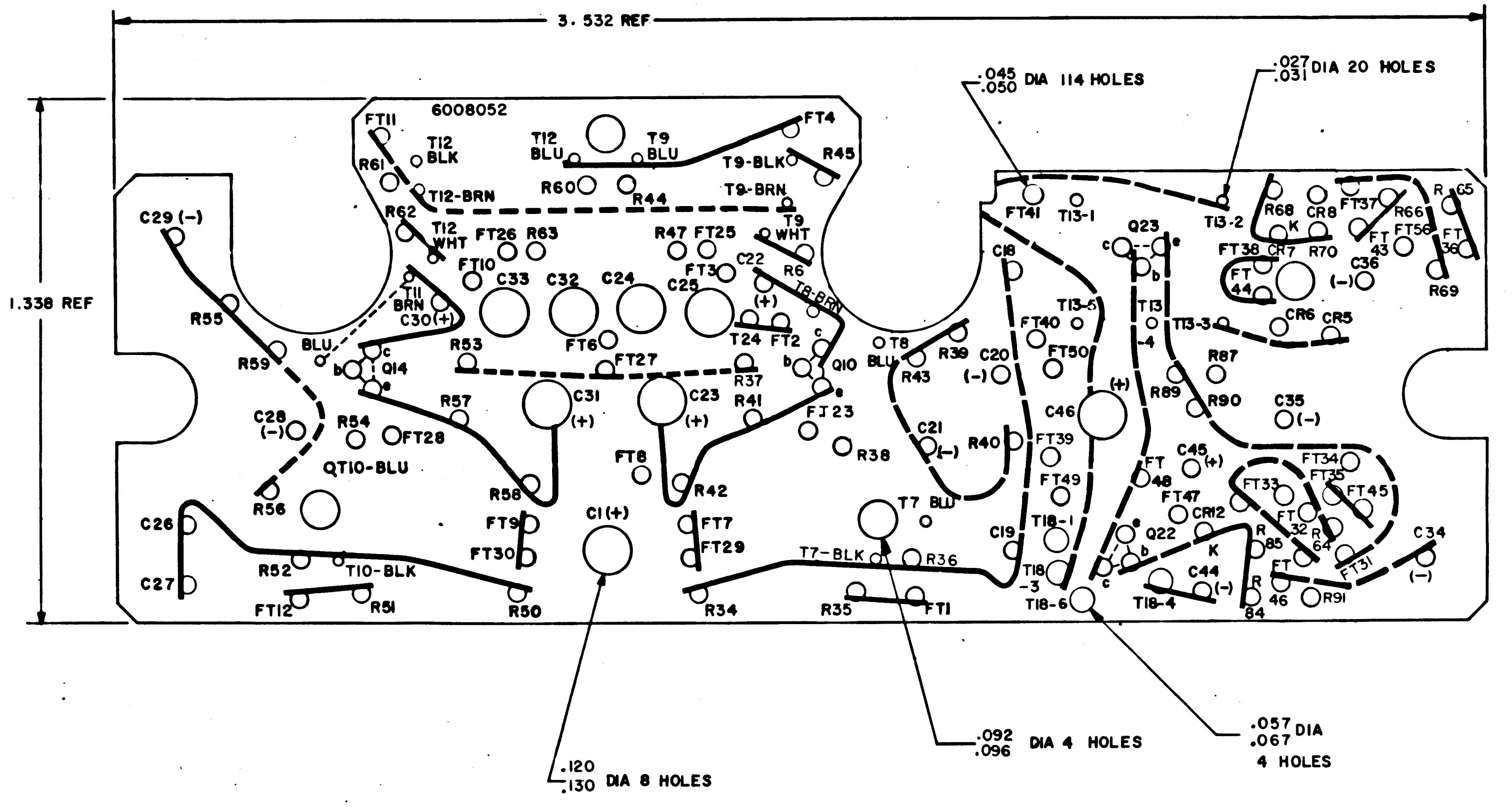
A		REVISED PER TDRR 30151	A.N.		20 JUL 66	


3. 532 REF
1.338 REF
6008052
FT11
T12 BLK
R61
T12-BRN
R62
T12 WHT
T12 BLU
T9 BLU
FT4
T9-BLK
R45
R60
R44
T9-BRN
T9 WHT
FT26
R63
R47
FT25
FT10
C33
C32
C24
FT3
C25
C22
R6
T8-BRN
(+)
T11 BRN
C30(+)
C29 (-)
R55
R59
BLU
Q14
c
b
e
R53
FT6
FT27
T24
FT2
R37
Q10
T8 BLU
R57
C31 (+)
C23 (+)
R41
FT23
R38
C28 (-)
R54
FT28
QT10-BLU
R56
R58
FT8
R42
FT9
FT30
C1(+)
FT7
FT29
T7 BLU
T7-BLK
R36
C26
C27
R52
T10-BLK
FT12
R51
R50
R34
R35
FT1
.045 .050 DIA 114 HOLES
.027 .031 DIA 20 HOLES
FT41
T13-1
T13-2
C18
Q23
R68
CR8
K
FT37
R66
R
C5
FT56
FT 43
FT 36
FT38
CR7
R70
C36 (-)
FT 44
R69
T13-5
FT40
T13
-4
T13-3
CR6
CR5
R39
R43
C20 (-)
FT50
R87
C46
(+)
R89
R90
C35 (-)
C21 (-)
R40
FT39
FT49
FT 48
C45 (+)
FT47
CR12
FT33
FT34
FT35
FT45
FT 32
R 64
R 85
Q22
C19
T18-1
T18 -3
T18-6
T18-4
C44 (-)
R 84
FT 46
R91
FT31
C34 (-)
.120 .130 DIA 8 HOLES
.092 .096 DIA 4 HOLES
.057 .067 DIA 4 HOLES

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

REF
DRAWING NO. 2008051 FOR PHOTOGRAPHIC MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Louis L. Cook 10 Mar 66
CHECKED R. Kingsbury 4 Apr 66
APPROVED 5 Apr 66
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD D
RADAR RESOLVER

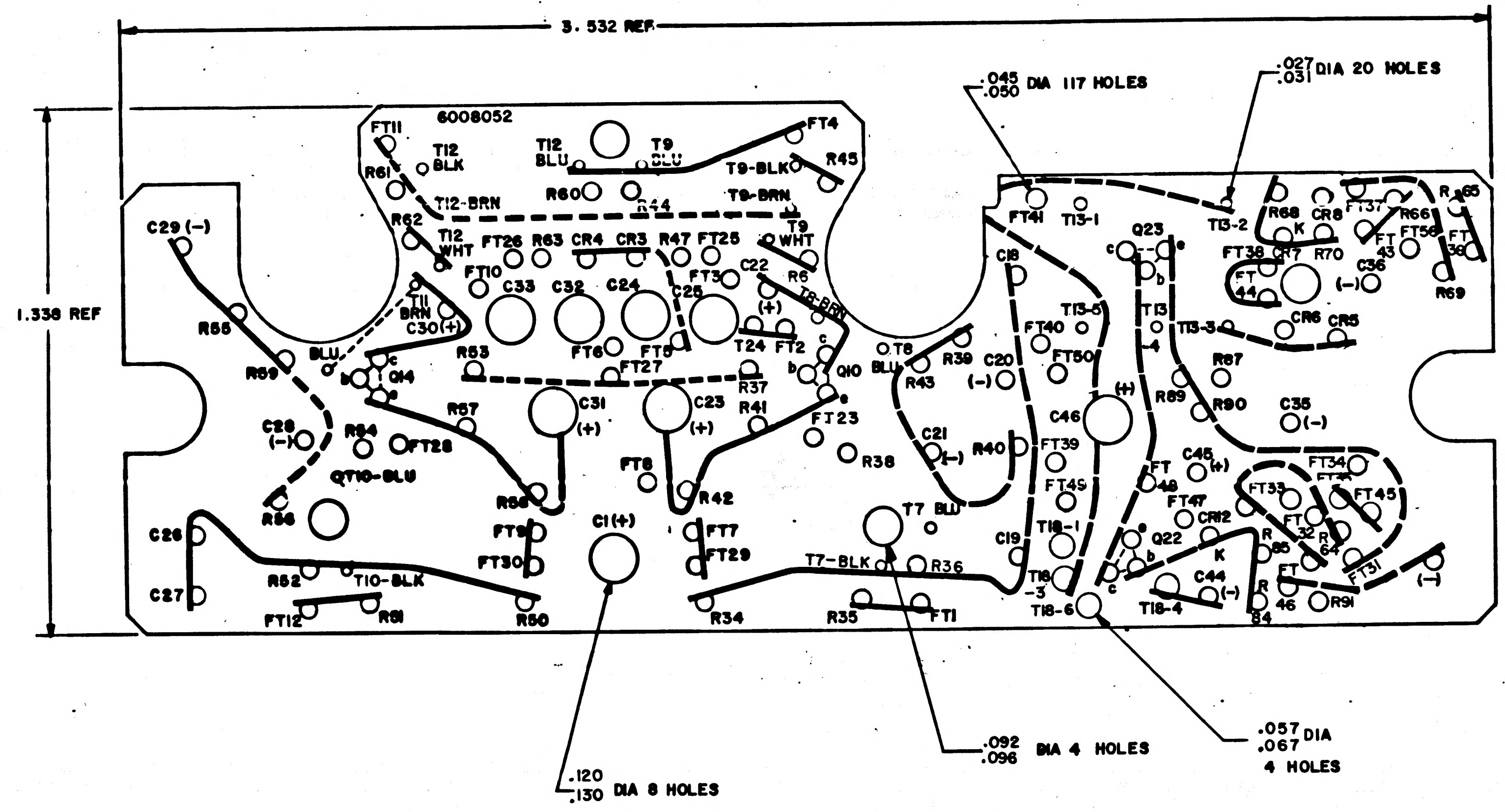
CODE IDENT NO 80230
SIZE D
DRAWING NO 6008052
SCALE 5/1
SHEET 1 OF 1

6008052 A

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 27832

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED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1.338 REF
6008052
.045 .050 DIA 117 HOLES
.027 .031 DIA 20 HOLES
.120 .130 DIA 8 HOLES
.092 .096 DIA 4 HOLES
.057 .067 DIA 4 HOLES
FT11
T12 BLK
T12 BLU
T9 BLU
FT4
T9-BLK
R45
R61
T12-BRN
R60
R44
T9-BRN
R62
T12 WHT
FT26
R63
CR4
CR3
R47
FT25
T9 WHT
C29 (−)
FT10
C33
C32
C24
C25
FT3
C22
R6
T8-BRN
T11 BRN
C30 (+)
(+)
R55
R59
BLU
Q14
R53
FT6
FT5
FT27
T24
FT2
R37
Q10
T8 BLU
R43
R39
C20 (−)
C31 (+)
C23 (+)
R41
FT23
C28 (−)
R54
FT28
R57
QT10-BLU
R38
FT8
R42
R58
R56
C1 (+)
FT9
FT30
FT7
FT29
C26
C27
R52
T10-BLK
FT12
R51
R50
R34
T7-BLK
R36
R35
FT1
T7 BLU
C21 (−)
R40
FT41
T13-1
T13-2
Q23
R68
CR8
FT37
R66
R65
FT38
CR7
R70
FT43
FT56
FT39
FT44
C36 (−)
R69
C18
T13-5
T13-4
T13-3
CR6
CR5
FT40
FT50
R67
C46 (+)
R89
R90
C35 (−)
FT39
C45 (+)
FT48
FT34
FT33
FT35
FT45
FT49
FT47
CR12
FT32
R64
R85
Q22
K
C19
T18-1
T18-3
T18-6
T18-4
C44 (−)
R84
FT46
R91
FT31
(−)
c
b
e

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL PLASTIC SHEET .031 THICK PER MIL-P-18177 TYPE GEE
3. PREPARE BOARD FOR PHOTOGRAPHY PER ND1002133
4. MARK BLACK CHARACTERS PER ND 1002019
5. BROKEN LINE DENOTES SLEEVING

REF
DRAWING NO. 2008051 FOR PHOTOGRAPHIC MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007012	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Louis [illegible]
CHECKED R.K. Kingsbury 4 APR 66
APPROVED 5 APR 66
APPROVED 5 Apr 66
APPROVED MIT 5 Apr 66
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING BOARD D
RADAR RESOLVER

CODE IDENT NO. 80230
SIZE D
DRAWING NO 6008052
SCALE 5/1
SHEET 1 OF 1

MASTER

6008052

6008056

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 29356		13 APRIL 66	
	—	REPLACED BY CONFIGURATION DWG REV B PER TDRR 29351			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: MAGNESIUM ALLOY AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
   FINISHED SIZE: 11.250 X 8.875 X .600.

3. IDENTIFY USING DRAWING NUMBER PER ND 1002019.

4. THIS IS AN INCOMPLETE DRAWING.

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	6008056-001	HEADER

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6007014-011	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — −
3 PLACE DECIMALS + — −
ANGLES + — −

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

APPROVAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DWG. NO. CONTRACT
DRAWN R. J. Linden DATE 31 MAR 66
CHECKED M. Manning 1 APR 66
APPROVAL 1 APR 66
CONTRACT NAS9-497
NASA APPROVAL K. C. METZGER
MIT APPROVAL 6-3-66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
(INSEPARABLE ASSEMBLY)
SIGNAL CONDITIONER
LEM-OPERATIONAL

SIZE C
CODE IDENT NO. 80230
6008056
SCALE —
SHEET 1 OF 1

MIL-1068D D

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
—	A	INITIAL RELEASE CLASS A PER TDRR 29356		13 APRIL 66	
	—	REPLACED WITH CHANGE BY REV. B. PER TDRR 29357		13 JUL 66	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM ALLOY AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
   FINISHED SIZE: 11.250 X 8.875 X .600.
3. IDENTIFY USING DRAWING NUMBER PER ND 1002019.
4. THIS IS AN INCOMPLETE DRAWING.

SUPERSEDED

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	6008056-001	HEADER

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6007014-011	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS + — − 3 PLACE DECIMALS + — − ANGLES + — −
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2
APPROVAL

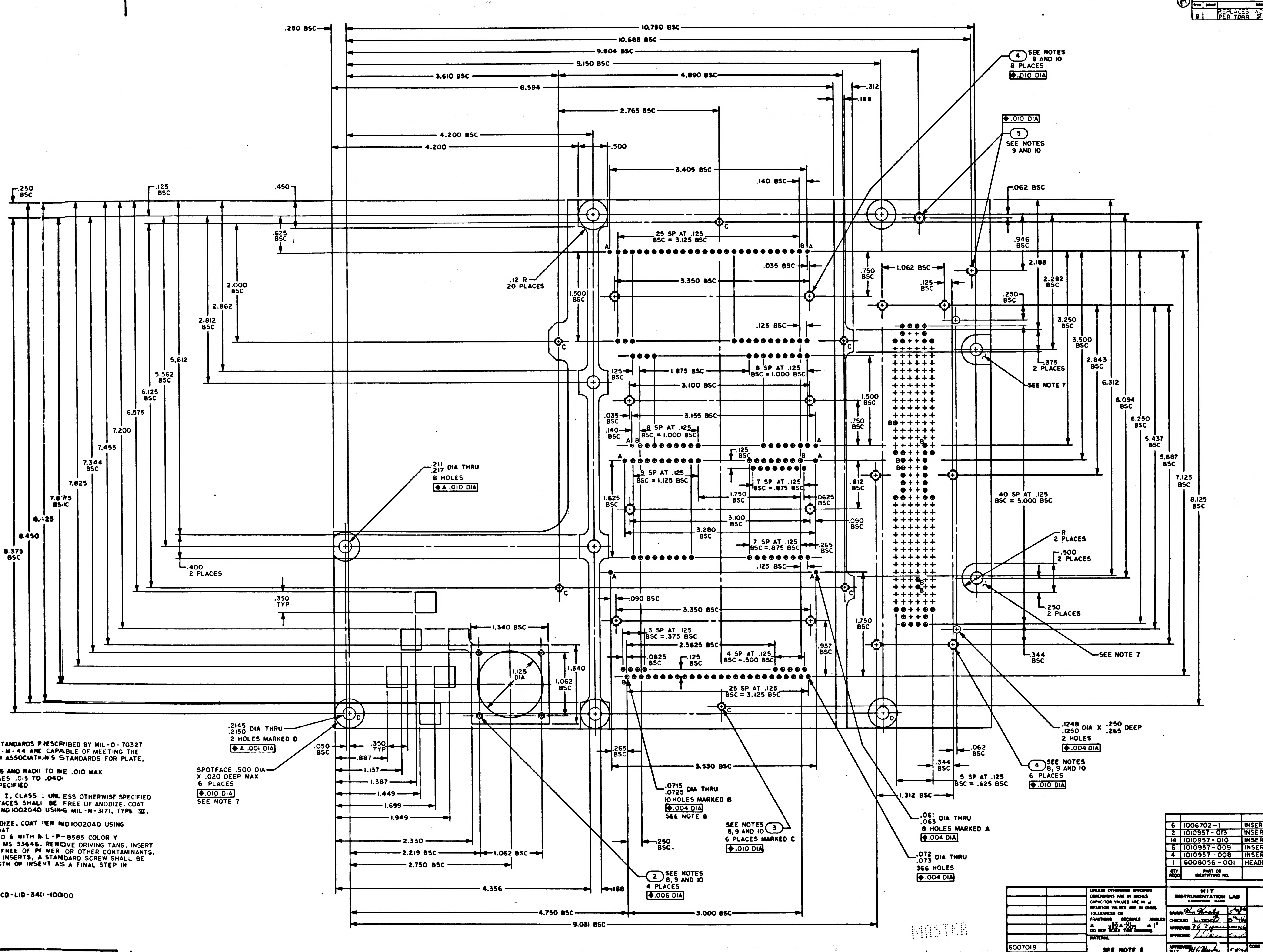
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN R. J. Under DATE 31-Mar-66
CHECKED
APPROVAL
CONTRACT NAS9-497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
(INSEPARABLE ASSEMBLY)
SIGNAL CONDITIONER
LEM-OPERATIONAL

SIZE C
CODE IDENT NO. 80230
6008056
SCALE —
SHEET 1 OF 1

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29357				6-3-66



10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
.312
.188
2.765 BSC
4.200 BSC
4.200
.500
3.405 BSC
.140 BSC
.250 BSC
.125 BSC
.450
.625 BSC
25 SP AT .125 BSC = 3.125 BSC
.12 R 20 PLACES
2.000 BSC
2.862
2.812 BSC
5.612
5.562 BSC
6.125 BSC
6.575
7.200
7.455
7.344 BSC
7.825
7.875 BSC
8.125
8.450
8.375 BSC
.035 BSC
3.350 BSC
1.500 BSC
.125 BSC
1.875 BSC
8 SP AT .125 BSC = 1.000 BSC
3.100 BSC
3.155 BSC
.140 BSC
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
1.750 BSC
.0625 BSC
3.100 BSC
3.280 BSC
.265 BSC
.090 BSC
1.625 BSC
.211 .217 DIA THRU 8 HOLES A .010 DIA
.400 2 PLACES
.350 TYP
1.340 BSC
1.340
1.125 DIA
1.062 BSC
3 SP AT .125 BSC = .375 BSC
2.5625 BSC
4 SP AT .125 BSC = .500 BSC
.937 BSC
1.750 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D A .001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES .010 DIA SEE NOTE 7
.050 BSC
.350 TYP
.887
1.137
1.387
1.449
1.699
1.949
2.330
2.219 BSC
2.750 BSC
1.062 BSC
4.356
.188
4.750 BSC
3.000 BSC
9.031 BSC
.265 BSC
3.530 BSC
.250 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B .004 DIA SEE NOTE 8
SEE NOTES 8, 9 AND 10 6 PLACES MARKED C .010 DIA ③
SEE NOTES 8, 9 AND 10 4 PLACES .006 DIA ②
.061 .063 DIA THRU 8 HOLES MARKED A .004 DIA
.072 .073 DIA THRU 366 HOLES .004 DIA
1.312 BSC
.344 BSC
5 SP AT .125 BSC = .625 BSC
.062 BSC
SEE NOTES 8, 9 AND 10 6 PLACES .010 DIA ④
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES .004 DIA
SEE NOTE 7
.344 BSC
.250 2 PLACES
.500 2 PLACES
R 2 PLACES
40 SP AT .125 BSC = 5.000 BSC
SEE NOTES 9 AND 10 8 PLACES .010 DIA ④
.010 DIA SEE NOTES 9 AND 10 ⑤
.062 BSC
.946 BSC
2.188
2.282 BSC
.750 BSC
1.062 BSC
.125 BSC
.250 BSC
3.250 BSC
3.500 BSC
.375 2 PLACES
SEE NOTE 7
2.843 BSC
6.312
6.094 BSC
6.250 BSC
5.437 BSC
5.687 BSC
7.125 BSC
8.125 BSC
1.500 BSC
.750 BSC
.812 BSC
.090 BSC
A
B
C
D
MASTER

ITH STANDARDS PRESCRIBED BY MIL-D-70327
R QQ-M-44 AND CAPABLE OF MEETING THE
MINUM ASSOCIATION'S STANDARDS FOR PLATE,

LLETS AND RADII TO BE .010 MAX
P EDGES .015 TO .040
SE SPECIFIED

TYPE I, CLASS 2 UNLESS OTHERWISE SPECIFIED
SURFACES SHALL BE FREE OF ANODIZE. COAT
PER ND1002040 USING MIL-M-3171, TYPE VI.

ANODIZE. COAT PER ND1002040 USING
XY COAT
5 AND 6 WITH MIL-P-8585 COLOR Y
PER MS 33646. REMOVE DRIVING TANG. INSERT
BE FREE OF PRIMER OR OTHER CONTAMINANTS.
G OF INSERTS, A STANDARD SCREW SHALL BE
LENGTH OF INSERT AS A FINAL STEP IN

2121
2019
BY ICD-LID-340-10000

6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
14	1010957-010	INSERT, SCREW THREAD, LOCKING	4
6	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008056-001	HEADER	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.01 XXX ±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

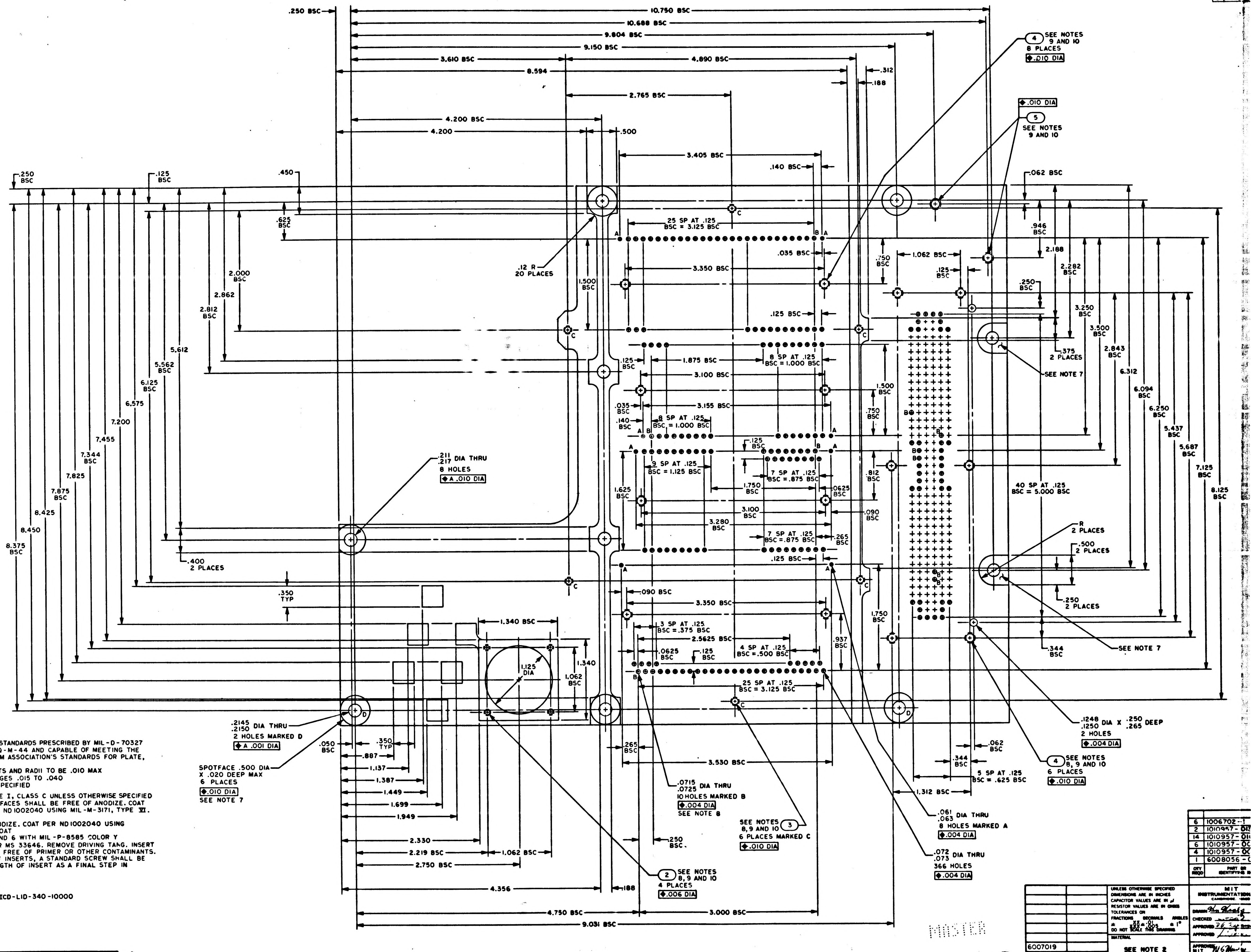
DRAWN Ken Healy 5 Apr 66
CHECKED 5 May 66
APPROVED 76 Kapan
APPROVED
APPROVED MIT M G Mushy 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 1 OF 2

6008056 B


10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
2.765 BSC
4.200 BSC
4.200
.500
.312
.188
.250 BSC
3.405 BSC
.140 BSC
25 SP AT .125 BSC = 3.125 BSC
3.350 BSC
.035 BSC
.125 BSC
1.062 BSC
.12 R 20 PLACES
1.500 BSC
8 SP AT .125 BSC = 1.000 BSC
1.875 BSC
3.100 BSC
3.155 BSC
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
1.750 BSC
3.280 BSC
.265 BSC
.090 BSC
40 SP AT .125 BSC = 5.000 BSC
.211 DIA THRU 8 HOLES ◆A .010 DIA
.400 2 PLACES
.350 TYP
1.340 BSC
1.125 DIA
1.062 BSC
1.340
3 SP AT .125 BSC = .375 BSC
2.5625 BSC
4 SP AT .125 BSC = .500 BSC
.0625 BSC
.937 BSC
1.750 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D ◆A .001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES ◆.010 DIA SEE NOTE 7
.050 BSC
.887
1.137
1.387
1.449
1.699
1.949
2.330
2.219 BSC
2.750 BSC
4.356
4.750 BSC
3.000 BSC
9.031 BSC
3.530 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B ◆.004 DIA SEE NOTE 8
② SEE NOTES 8, 9 AND 10 4 PLACES ◆.006 DIA
③ SEE NOTES 8, 9 AND 10 6 PLACES MARKED C ◆.010 DIA
.061 .063 DIA THRU 8 HOLES MARKED A ◆.004 DIA
.072 .073 DIA THRU 366 HOLES ◆.004 DIA
1.312 BSC
5 SP AT .125 BSC = .625 BSC
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES ◆.004 DIA
④ SEE NOTES 8, 9 AND 10 6 PLACES ◆.010 DIA
④ SEE NOTES 9 AND 10 8 PLACES ◆.010 DIA
⑤ SEE NOTES 9 AND 10 ◆.010 DIA
SEE NOTE 7
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.375 2 PLACES
.344 BSC
.062 BSC
.946 BSC
2.188
2.282 BSC
3.250 BSC
3.500 BSC
2.843 BSC
6.312
6.094 BSC
6.250 BSC
5.437 BSC
5.687 BSC
7.125 BSC
8.125 BSC
8.375 BSC
8.450
8.425
7.875 BSC
7.825
7.344 BSC
7.455
7.200
6.575
6.125 BSC
5.562 BSC
5.612
2.812 BSC
2.862
2.000 BSC
.625 BSC
.450
MASTER

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040
5. ALL SURFACES 125✓ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
9. COAT THREADS OF FIND NO. 2, 3, 4, 5 AND 6 WITH MIL-P-8585 COLOR Y
10. INSTALL FIND NO. 2, 3, 4 AND 5 WET PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR FULL LENGTH OF INSERT AS A FINAL STEP IN CLEANING INSERT THREADS
11. INSTALL FIND NO. 6 WET PER ND1002121
12. IDENTIFY WITH PART NO. PER ND1002019
13. ◯ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000

QTY REQD	PART OR IDENTIFYING N.
6	1006702-1
2	1010957-01
14	1010957-01
6	1010957-00
4	1010957-00
1	6008056-001

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

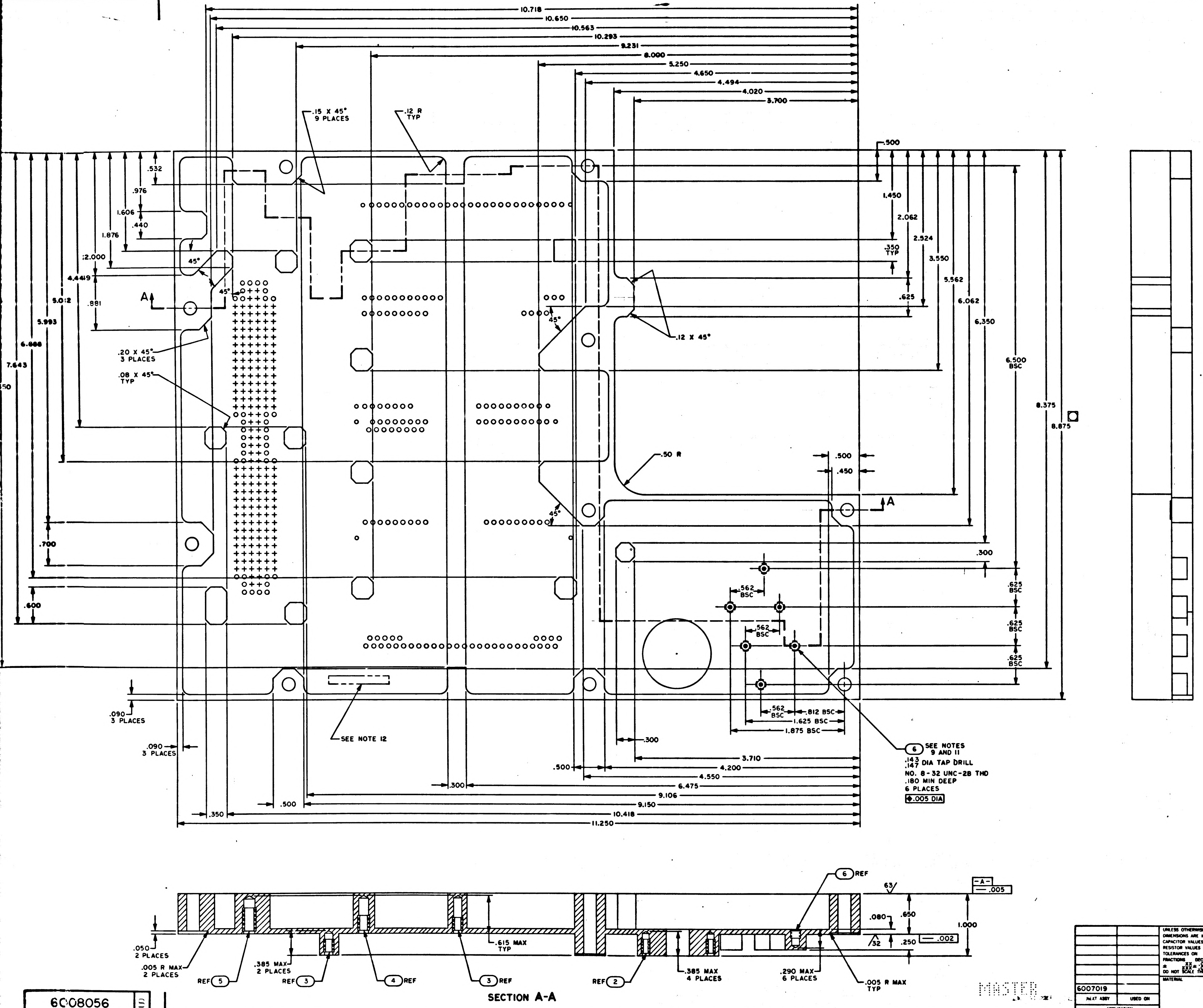
MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy
CHECKED
APPROVED
APPROVED
APPROVED MIT M G Murray
A. C. MIST
APPROVED MSC

6008056 B

REVISIONS							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
B		REPLACES WOBD DWG REV A PER TDRR 29357					6-3-66


10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45° 9 PLACES
.12 R TYP
.500
1.450
2.062
2.524
3.550
5.562
6.062
6.350
6.500 BSC
8.375
8.875
.350 TYP
.625
.12 X 45°
.532
.976
1.606
.440
1.876
2.000
4.4419
5.012
.881
5.993
6.886
7.643
45°
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.50 R
.500
.450
.700
.600
.300
.625 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
.090 3 PLACES
SEE NOTE 12
6 SEE NOTES 9 AND 11
.143 .147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
3.710
4.200
4.550
6.475
9.106
9.150
10.418
11.250
6 REF
63
-A-
.005
.080
.650
1.000
.615 MAX TYP
.250
.002
32
.050 2 PLACES
.005 R MAX 2 PLACES
.385 MAX 2 PLACES
.385 MAX 4 PLACES
.290 MAX 6 PLACES
.005 R MAX TYP
REF 5
REF 3
4 REF
3 REF
REF 2
SECTION A-A

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007019	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy
CHECKED
APPROVED V.A. Koppain
APPROVED
APPROVED MIT W.G. Marley 5-4-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

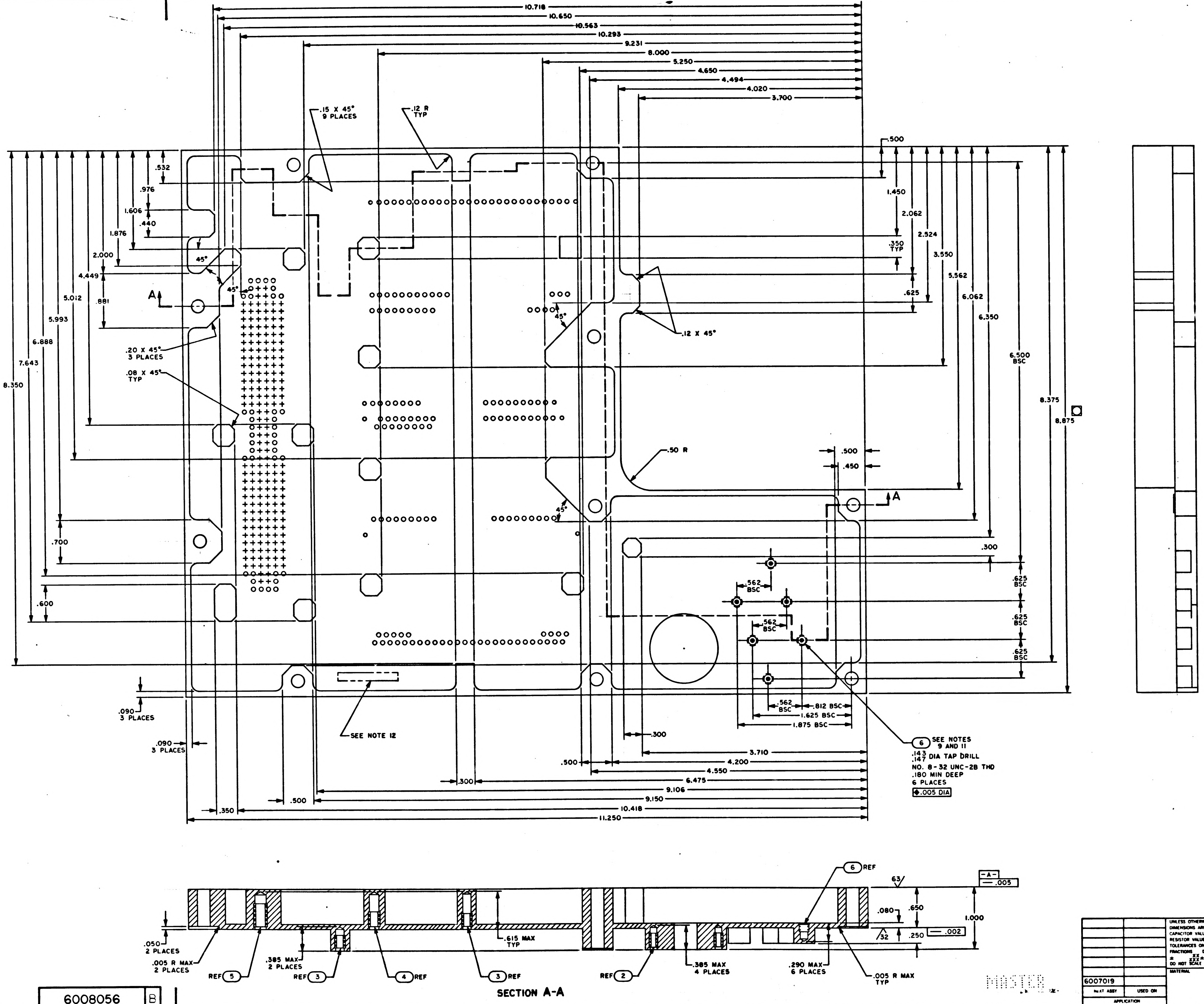
HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6008056
SCALE 2/1		SHEET 2 OF 2

6008056 B

F-2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.



5
4
3
2
D
C
B
A
10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45°
9 PLACES
.12 R
TYP
.532
.976
1.606
.440
1.876
2.000
4.449
5.012
.881
5.993
6.888
7.643
8.350
45°
A
.20 X 45°
3 PLACES
.08 X 45°
TYP
.700
.600
.090
3 PLACES
.090
3 PLACES
SEE NOTE 12
.500
1.450
2.062
2.524
.350
TYP
3.550
5.562
6.062
6.350
.625
6.500
BSC
8.375
8.875
.12 X 45°
.50 R
.500
.450
A
.300
.625
BSC
.562
BSC
.562
BSC
.562
BSC
.812 BSC
1.625 BSC
1.875 BSC
.300
6 SEE NOTES
9 AND 11
.143
.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
3.710
.500
4.200
4.550
.300
6.475
9.106
9.150
.350
.500
10.418
11.250
6 REF
63
-A-
⏥ .005
.080
.650
1.000
.250
⏥ .002
32
.615 MAX
TYP
.050
2 PLACES
.005 R MAX
2 PLACES
.385 MAX
2 PLACES
REF 5
REF 3
4 REF
3 REF
REF 2
.385 MAX
4 PLACES
.290 MAX
6 PLACES
.005 R MAX
TYP
SECTION A-A
MASTER

QTY REQD	PART OR IDENTIFYING NO.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

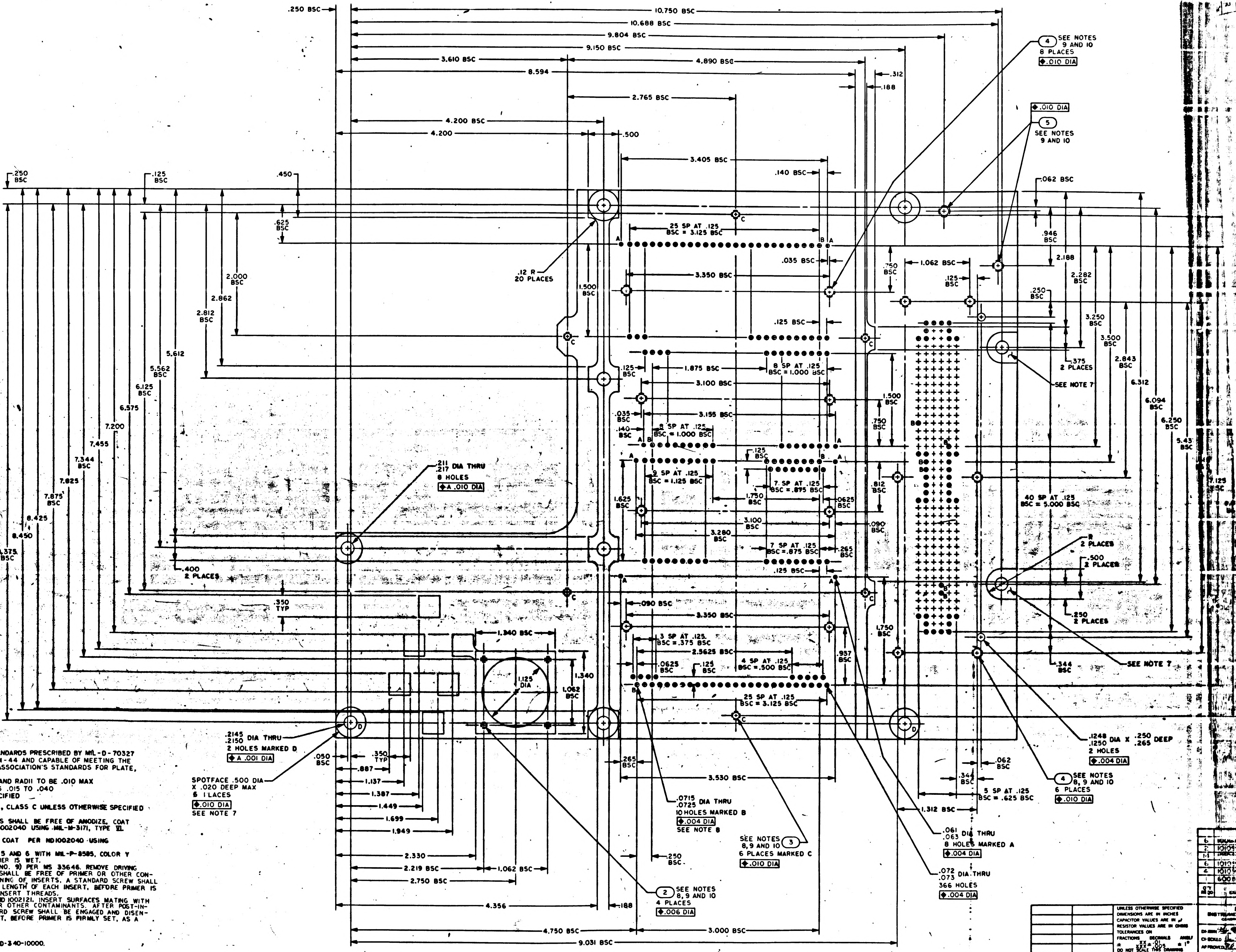
MATERIAL

6007019	
NEXT ASSY	USED ON
APPLICATION	

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN	Healy	
CHECKED		
APPROVE	V. Toppin	
APPROVE		
APPROVE MIT		
	C. METTGER	
APPROVE NSC		DATE

6008056 B


10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
.312
.188
2.765 BSC
4.200 BSC
4.200
.500
3.405 BSC
.140 BSC
.250 BSC
.125 BSC
.450
.625 BSC
25 SP AT .125 BSC = 3.125 BSC
.12 R 20 PLACES
1.500 BSC
3.350 BSC
.035 BSC
.125 BSC
1.875 BSC
8 SP AT .125 BSC = 1.000 BSC
3.100 BSC
3.155 BSC
.211 .217 DIA THRU 8 HOLES
A .010 DIA
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
1.750 BSC
3.280 BSC
.400 2 PLACES
.350 TYP
.090 BSC
3 SP AT .125 BSC = .375 BSC
2.5625 BSC
4 SP AT .125 BSC = .500 BSC
1.340 BSC
1.125 DIA
1.340
1.062 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D
A .001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES
.010 DIA
SEE NOTE 7
.0715 .0725 DIA THRU 10 HOLES MARKED B
.004 DIA
SEE NOTE 8
SEE NOTES 8, 9 AND 10 ③ 6 PLACES MARKED C
.010 DIA
② SEE NOTES 8, 9 AND 10 4 PLACES
.006 DIA
.061 .063 DIA THRU 8 HOLES MARKED A
.004 DIA
.072 .073 DIA THRU 366 HOLES
.004 DIA
④ SEE NOTES 9 AND 10 8 PLACES
.010 DIA
⑤ SEE NOTES 9 AND 10
.062 BSC
.946 BSC
2.188
2.282 BSC
3.250 BSC
3.500 BSC
2.843 BSC
6.312
6.094 BSC
6.250 BSC
.375 2 PLACES
SEE NOTE 7
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.344 BSC
SEE NOTE 7
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES
.004 DIA
④ SEE NOTES 8, 9 AND 10 6 PLACES
.010 DIA
5 SP AT .125 BSC = .625 BSC
1.312 BSC
3.530 BSC
.265 BSC
.887
1.137
1.387
1.449
1.699
1.949
2.330
2.219 BSC
1.062 BSC
2.750 BSC
4.356
.188
4.750 BSC
3.000 BSC
9.031 BSC
.050 BSC
.250 BSC
A
B
C
D

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
9. COAT THREADS OF HOLES FOR FIND NOS. 2, 3, 4, 5 AND 6 WITH MIL-P-8585, COLOR Y AND INSTALL PER NOTE 10 OR 11 WHILE PRIMER IS WET.
10. INSTALL FIND NOS. 2, 3, 4, AND 5 (SEE NOTE NO. 9) PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.
11. INSTALL FIND NO. 6 (SEE NOTE NO. 9) PER ND1002121. INSERT SURFACES MATING WITH SCREW THREAD SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.
12. IDENTIFY WITH PART NO. PER ND1002019
13. ☐ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000.

6	
2	1010957-
1	
6	1010957
4	1010955
1	600805
QTY REQD	PART IDENT

6007019	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

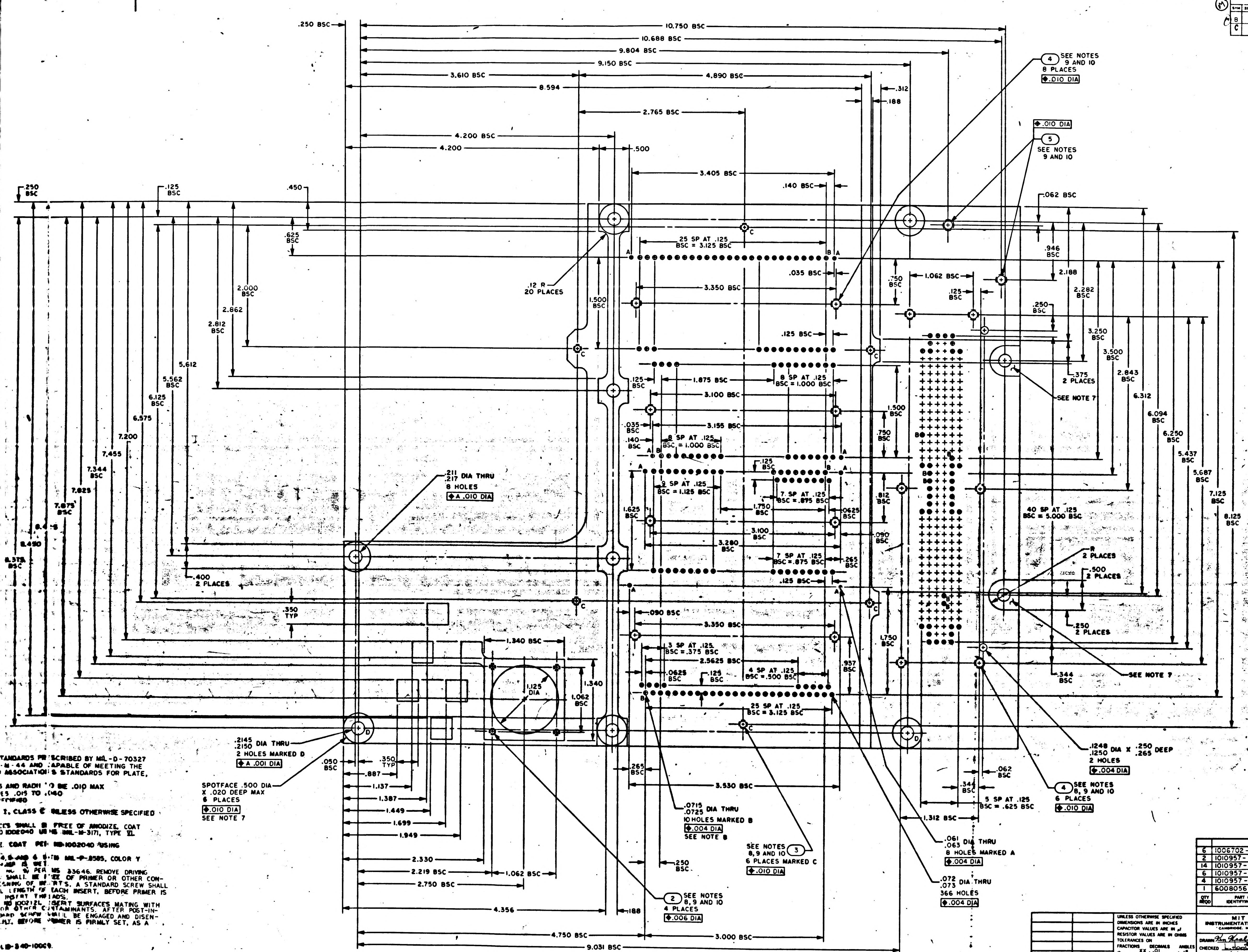
MIT
INSTRUMENTATION
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

6008056 C

1/6008056

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29357				
C		REVISED PER TDRR 32779	LL	WH	3 FEB 67	



10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
2.765 BSC
4.200 BSC
4.200
.500
3.405 BSC
.140 BSC
.250 BSC
.312
.188
4 SEE NOTES 9 AND 10 8 PLACES .010 DIA
5 SEE NOTES 9 AND 10
.010 DIA
.062 BSC
25 SP AT .125 BSC = 3.125 BSC
.12 R 20 PLACES
3.350 BSC
8 SP AT .125 BSC = 1.000 BSC
1.875 BSC
3.100 BSC
3.155 BSC
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
3.280 BSC
40 SP AT .125 BSC = 5.000 BSC
SEE NOTE 7
.375 2 PLACES
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.211 .217 DIA THRU 8 HOLES A .010 DIA
.400 2 PLACES
.350 TYP
1.340 BSC
1.125 DIA
1.062 BSC
1.340
3 SP AT .125 BSC = .375 BSC
2.5625 BSC
4 SP AT .125 BSC = .500 BSC
25 SP AT .125 BSC = 3.125 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D A .001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES .010 DIA SEE NOTE 7
.0715 .0725 DIA THRU 10 HOLES MARKED B .004 DIA SEE NOTE 8
SEE NOTES 8, 9 AND 10 6 PLACES MARKED C .010 DIA
2 SEE NOTES 8, 9 AND 10 4 PLACES .006 DIA
.061 .063 DIA THRU 8 HOLES MARKED A .004 DIA
.072 .073 DIA THRU 366 HOLES .004 DIA
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES .004 DIA
4 SEE NOTES 8, 9 AND 10 6 PLACES .010 DIA
5 SP AT .125 BSC = .625 BSC
1.312 BSC
3.530 BSC
4.356
4.750 BSC
3.000 BSC
9.031 BSC
2.330
2.219 BSC
2.750 BSC
1.062 BSC
.050 BSC
.887
1.137
1.387
1.449
1.699
1.949
8.125 BSC
7.125 BSC
6.312
6.094
6.250
5.437 BSC
5.687 BSC

TANDARDS PR SCRIBED BY MIL-D-70327
-M-44 AND APABLE OF MEETING THE
ASSOCIATIO S STANDARDS FOR PLATE,

AND RADII O BE .010 MAX
ES .015 TO .040
IFIED

2. CLASS C NLESS OTHERWISE SPECIFIED

ES SHALL B FREE OF ANODIZE. COAT
D 1002040 USING MIL-M-3171, TYPE VI.

E. COAT PEI ND1002040 USING

4, 5 AND 6 WITH MIL-P-8585, COLOR Y
ER IS WET.
PER MS 33646. REMOVE DRIVING
SHALL BE F EE OF PRIMER OR OTHER CON-
ANING OF INSERTS. A STANDARD SCREW SHALL
LENGTH OF EACH INSERT, BEFORE PRIMER IS
INSERT THREADS.
ND1002126 INSERT SURFACES MATING WITH
OR OTHER CONTAMINANTS. AFTER POST-IN-
AND SCREW SHALL BE ENGAGED AND DISEN-
AT, BEFORE PRIMER IS FIRMLY SET, AS A

LD-840-10009.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
14	1010957-010	INSERT, SCREW THREAD, LOCKING	4
6	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008056-001	HEADER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 5 Apr 66
CHECKED L. Hood 5 Apr 66
APPROVED D G Kapan
APPROVED
APPROVED MIT M G Mucha 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

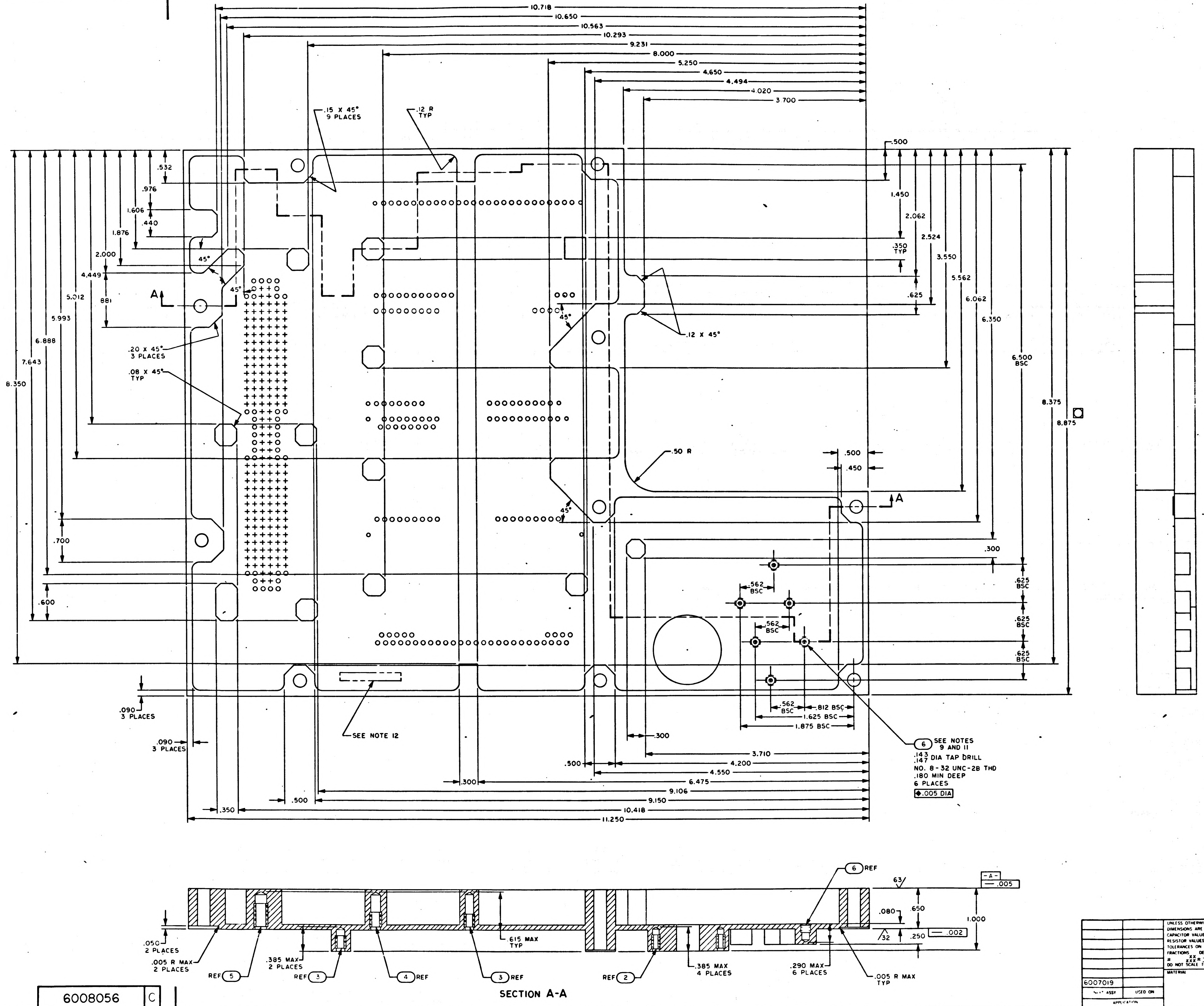
HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 1 OF 2

6008056	C

2760080056

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45°
9 PLACES
.12 R
TYP
.532
.976
1.606
.440
1.876
2.000
4.449
881
5.012
5.993
6.888
7.643
8.350
A
45°
45°
.20 X 45°
3 PLACES
.08 X 45°
TYP
.700
.600
.090
3 PLACES
.090
3 PLACES
SEE NOTE 12
.500
1.450
2.062
2.524
3.550
5.562
6.062
6.350
.350
TYP
.625
.12 X 45°
45°
45°
6.500
BSC
8.375
8.875
.50 R
.500
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A
.300
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.812 BSC
1.625 BSC
1.875 BSC
.300
3.710
.500
4.200
4.550
.300
6.475
9.106
9.150
.350
.500
10.418
11.250
6
SEE NOTES
9 AND 11
.143
.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
6 REF
63
-A-
⏥ .005
.080
.650
1.000
32
.250
⏥ .002
.050
2 PLACES
.005 R MAX
2 PLACES
.385 MAX
2 PLACES
REF 5
REF 3
4 REF
.615 MAX
TYP
3 REF
REF 2
.385 MAX
4 PLACES
.290 MAX
6 PLACES
.005 R MAX
TYP
SECTION A-A

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
±	XX ± .01 XXX ± .005	± 1°

DO NOT SCALE THIS DRAWING

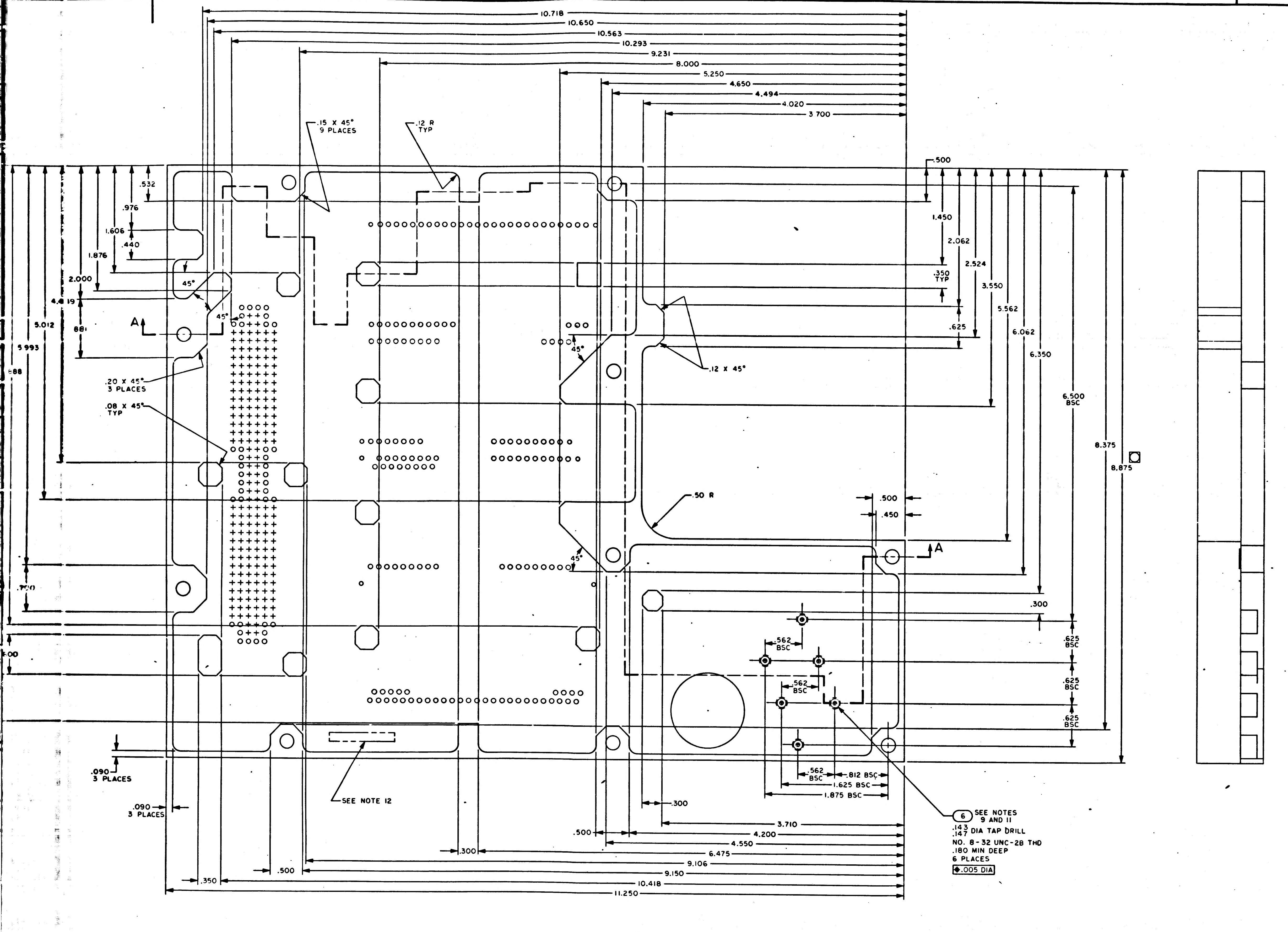
MATERIAL

6007019	
NEXT ASSY	USED ON
APPLICATION	

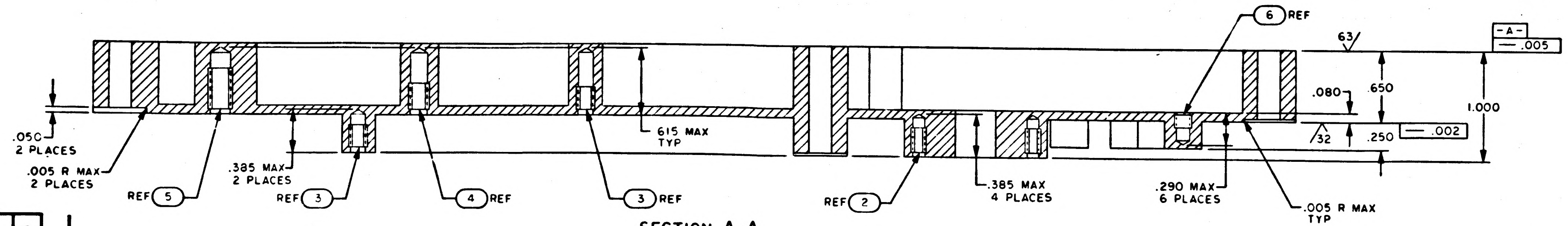
6008056 C

1/6008056

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		NS E/A 27 57				
C		REVISION STATUS CHANGED	LL	Wk	5 FEB 67	



10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45° 9 PLACES
.12 R TYP
.500
1.450
2.062
2.524
3.550
5.562
6.062
6.350
6.500 BSC
8.375
8.875
.350 TYP
.625
.12 X 45°
.532
.976
1.606
.440
1.876
2.000
4.819
5.012
5.993
.881
45°
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.50 R
.500
.450
.300
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.562 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
.090 3 PLACES
.090 3 PLACES
SEE NOTE 12
.300
3.710
4.200
4.550
6.475
9.106
9.150
10.418
11.250
.500
.300
.350
.500
6 SEE NOTES 9 AND 11
.143/.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
.005 DIA



6 REF
63
-A-
.005
.080
.650
1.000
.250
.002
1/32
.050 2 PLACES
.005 R MAX 2 PLACES
.385 MAX 2 PLACES
.615 MAX TYP
.385 MAX 4 PLACES
.290 MAX 6 PLACES
.005 R MAX TYP
REF 5
REF 3
4 REF
3 REF
REF 2

SECTION A-A

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

6007019	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ken Healy 1 Mar 66
CHECKED 3 Mar 66
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

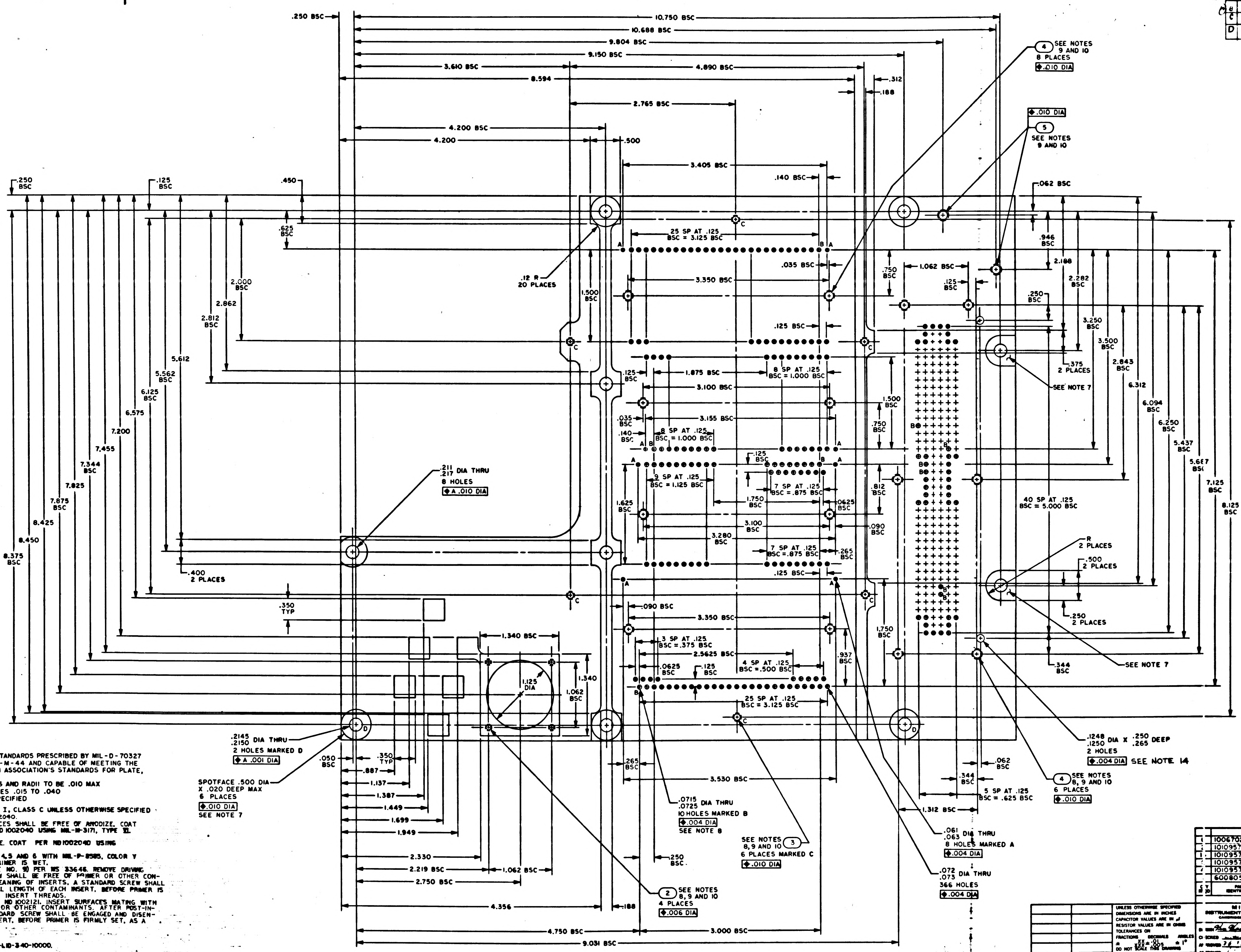
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE J
DRAWING NO 6008056
SCALE 2/1
SHEET 2 OF 2

6008056 C

2-46008056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10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
.312
.188
2.765 BSC
4.200 BSC
4.200
.500
3.405 BSC
.250 BSC
.140 BSC
.062 BSC
.125 BSC
.450
.625 BSC
25 SP AT .125 BSC = 3.125 BSC
.035 BSC
3.350 BSC
.12 R 20 PLACES
1.500 BSC
2.000 BSC
2.862
2.812 BSC
5.612
5.562 BSC
6.125 BSC
6.575
7.200
7.455
7.344 BSC
7.825
7.875 BSC
8.425
8.450
8.375 BSC
.211 .217 DIA THRU 8 HOLES
A .010 DIA
.400 2 PLACES
.350 TYP
1.875 BSC
8 SP AT .125 BSC = 1.000 BSC
3.100 BSC
3.155 BSC
2 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
1.750 BSC
.0625 BSC
3.280 BSC
.265 BSC
.090 BSC
3 SP AT .125 BSC = .375 BSC
2.5625 BSC
4 SP AT .125 BSC = .500 BSC
.937 BSC
1.340 BSC
1.125 DIA
1.062 BSC
1.340
.946 BSC
2.188
1.062 BSC
.750 BSC
2.282 BSC
3.250 BSC
3.500 BSC
2.843 BSC
6.312
6.094 BSC
6.250 BSC
5.437 BSC
5.687 BSC
7.125 BSC
8.125 BSC
.375 2 PLACES
SEE NOTE 7
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.344 BSC
.812 BSC
4 SEE NOTES 9 AND 10 8 PLACES .010 DIA
.010 DIA
5 SEE NOTES 9 AND 10
.2145 .2150 DIA THRU 2 HOLES MARKED D A .001 DIA
.050 BSC
.350 TYP
.887
1.137
1.387
1.449
1.699
1.949
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES .010 DIA SEE NOTE 7
2.330
2.219 BSC
2.750 BSC
1.062 BSC
4.356
.188
4.750 BSC
3.000 BSC
9.031 BSC
3.530 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B .004 DIA SEE NOTE 8
.250 BSC
2 SEE NOTES 8, 9 AND 10 4 PLACES .006 DIA
SEE NOTES 3 8, 9 AND 10 6 PLACES MARKED C .010 DIA
.061 .063 DIA THRU 8 HOLES MARKED A .004 DIA
.072 .073 DIA THRU 366 HOLES .004 DIA
1.312 BSC
.344 BSC
.062 BSC
5 SP AT .125 BSC = .625 BSC
4 SEE NOTES 8, 9 AND 10 6 PLACES .010 DIA
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES .004 DIA SEE NOTE 14
A
B
C
D

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED TOUCH UP, EXCLUDING CORROSION, PER ND 1002040.
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND 1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT.
9. COAT THREADS OF HOLES FOR FIND NOS. 2, 3, 4, 5 AND 6 WITH MIL-P-8585, COLOR Y AND INSTALL PER NOTE 10 OR 11 WHILE PRIMER IS WET.
10. INSTALL FIND NOS. 2, 3, 4, AND 5 (SEE NOTE NO. 9) PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.
11. INSTALL FIND NO. 6 (SEE NOTE NO. 9) PER ND 1002121. INSERT SURFACES MATING WITH SCREW THREAD SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.
12. IDENTIFY WITH PART NO. PER ND 1002019
13. ○ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000.
14. BLIND HOLES ARE PERMITTED TO BE FINISHED PER ND1002040.

1	1006702-1
2	1010957-0
3	1010957-0
4	1010957-0
5	1010957-0
	6008056
FIND NO	PART OR IDENTIFYING

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

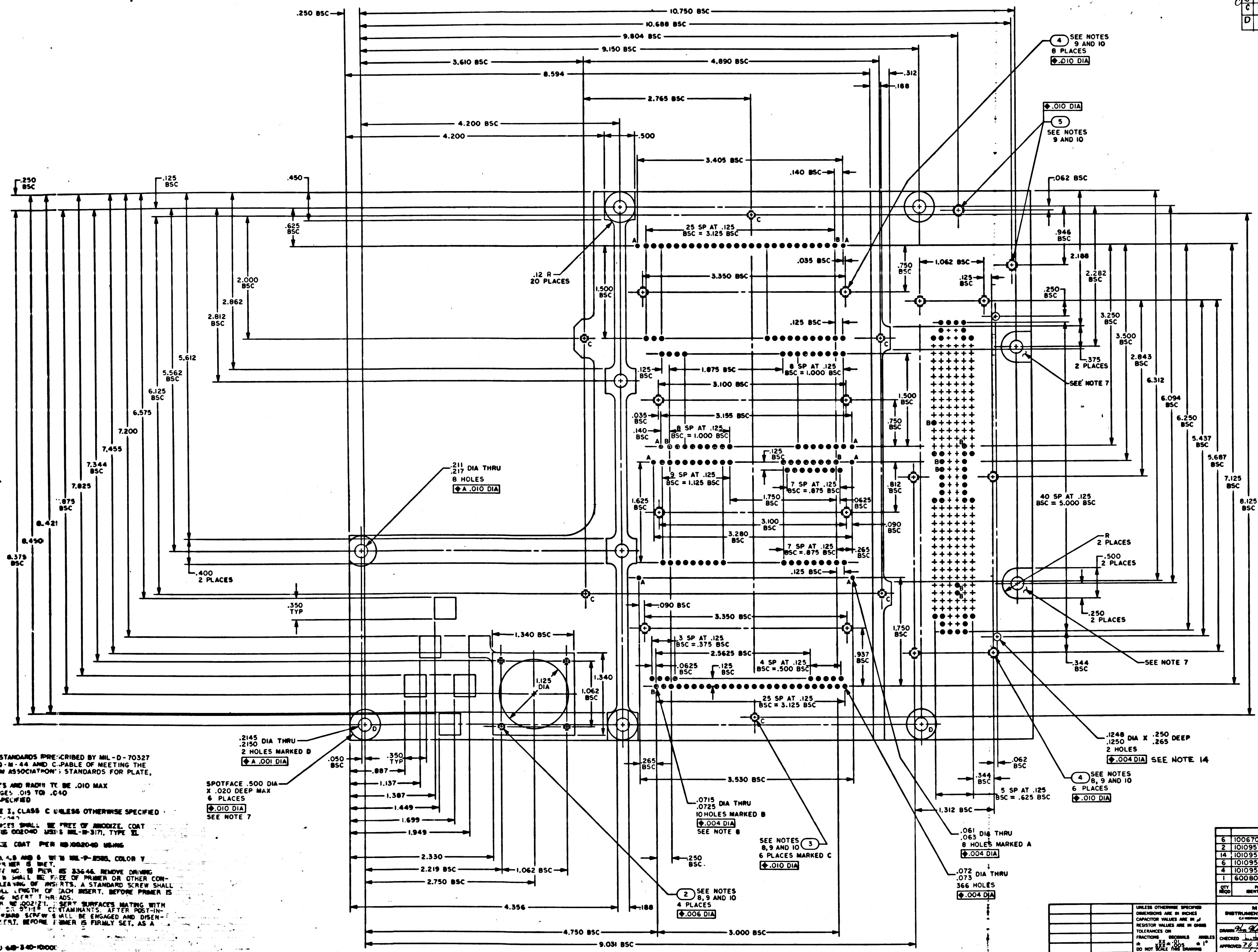
6007019	
NEXT ASSY	USED ON
APPLICATION	

MIT
INSTRUMENTATION
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED

A. C.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29357				6-3-6
C		REVISED PER TDRR 32779	LL	WH	3 FEB 67	
D		REVISED PER TDRR 32793	LL	WH	4 FEB 67	



10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
2.765 BSC
4.200 BSC
4.200
3.405 BSC
.12 R 20 PLACES
.211 .217 DIA THRU 8 HOLES ◆A .010 DIA
.2145 .2150 DIA THRU 2 HOLES MARKED D ◆A .001 DIA
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES ◆.010 DIA SEE NOTE 7
④ SEE NOTES 9 AND 10 8 PLACES ◆.010 DIA
◆.010 DIA ⑤ SEE NOTES 9 AND 10
SEE NOTE 7
40 SP AT .125 BSC = 5.000 BSC
25 SP AT .125 BSC = 3.125 BSC
1.125 DIA
1.340 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B ◆.004 DIA SEE NOTE 8
SEE NOTES ③ 8,9 AND 10 6 PLACES MARKED C ◆.010 DIA
② SEE NOTES 8,9 AND 10 4 PLACES ◆.006 DIA
.061 .063 DIA THRU 8 HOLES MARKED A ◆.004 DIA
.072 .073 DIA THRU 366 HOLES ◆.004 DIA
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES ◆.004 DIA SEE NOTE 14
④ SEE NOTES 8, 9 AND 10 6 PLACES ◆.010 DIA
4.750 BSC
3.000 BSC
9.031 BSC
4.356

H STANDARDS PRESCRIBED BY MIL-D-70327
QQ-M-44 AND CAPABLE OF MEETING THE
NUM ASSOCIATION'S STANDARDS FOR PLATE,

ETS AND RADII TO BE .010 MAX
EDGES .015 TO .040
SPECIFIED

YPE I, CLASS C UNLESS OTHERWISE SPECIFIED

FACES SHALL BE FREE OF ANODIZE. COAT
ND 002040 USING MIL-M-3171, TYPE VI

COAT PER ND1002040 USING

4,8 AND 6 WITH MIL-P-8585, COLOR Y
PRIMER IS WET.
NO. PER MS 33646. REMOVE DRIVING
SHALL BE FREE OF PRIMER OR OTHER CON-
CLEANING OF INSERTS. A STANDARD SCREW SHALL
FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS
ING INSERT THREADS.
ND 002121. INSERT SURFACES MATING WITH
OR OTHER CONTAMINANTS. AFTER POST-IN-
STANDARD SCREW SHALL BE ENGAGED AND DISEN-
INSERT, BEFORE PRIMER IS FIRMLY SET, AS A

U 6B-340-10001

STAMPED PER ND 002040.

6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
14	1010957-010	INSERT, SCREW THREAD, LOCKING	4
6	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008056-001	HEADER	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 5 Apr 66
CHECKED 5 Apr 66
APPROVED 5 Apr 66
APPROVED
APPROVED MIT 5-4-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 1 OF 2

6008056 D

2H

2/6008056

6008056

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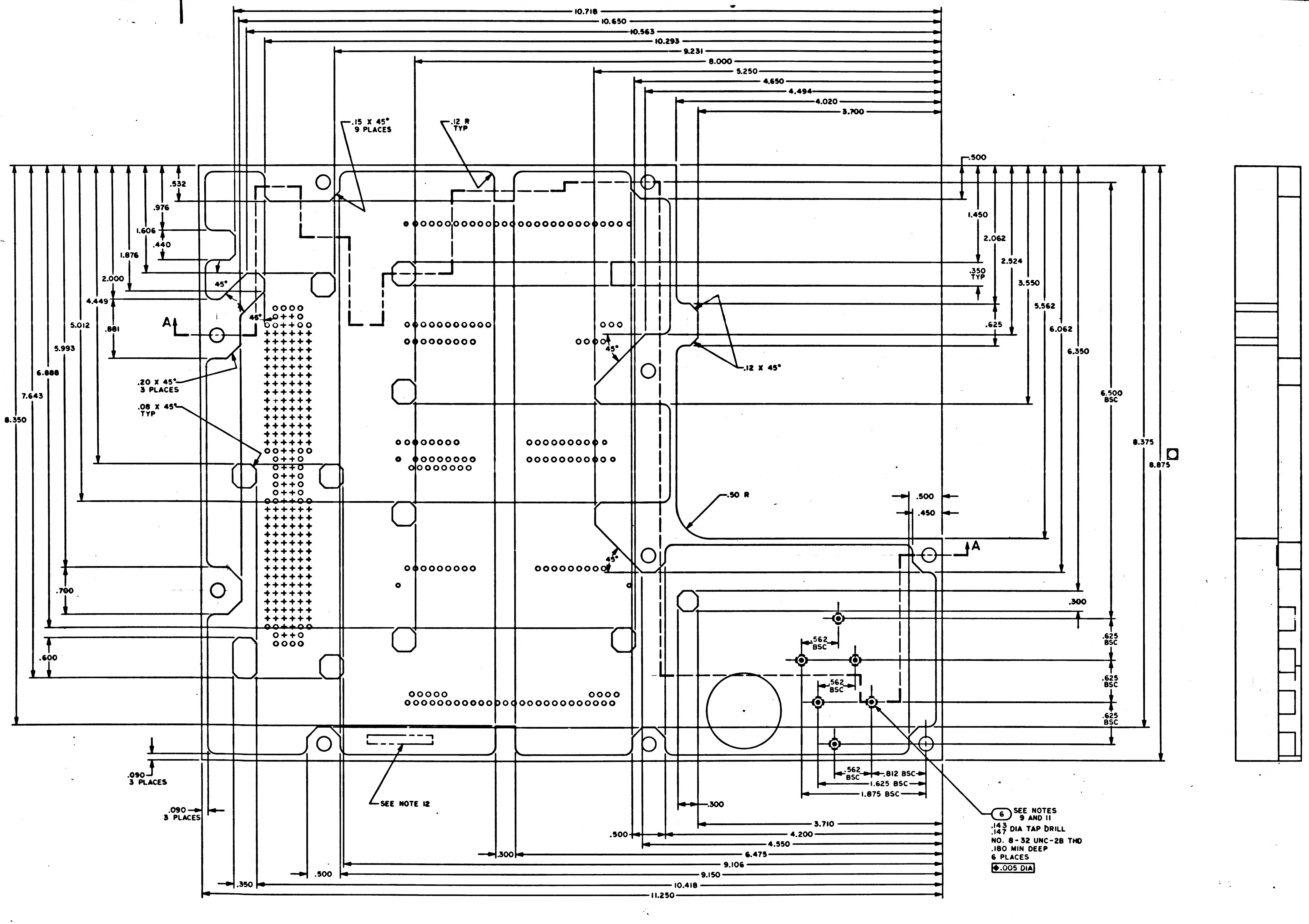
10.718
10.650
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9.231
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.15 X 45°
9 PLACES
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TYP
.532
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1.876
2.000
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5.012
5.993
6.888
7.643
8.350
45°
45°
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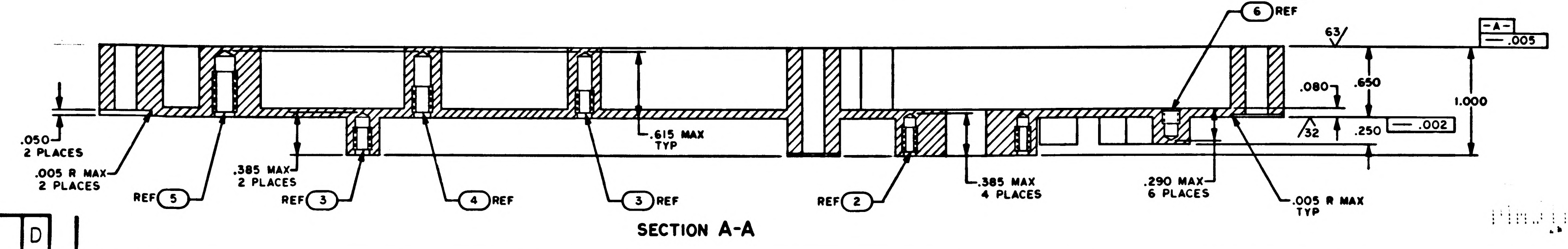
.20 X 45°
3 PLACES
.08 X 45°
TYP
.700
.600
.500
1.450
2.062
2.524
3.550
.350
TYP
.625
5.562
6.062
6.350
.12 X 45°
45°
6.500
BSC
8.375
8.875
.50 R
.500
.450
A
45°
.300
.625
BSC
.625
BSC
.625
BSC
.562
BSC
.562
BSC
.562
BSC
.812 BSC
1.625 BSC
1.875 BSC
.090
3 PLACES
.090
3 PLACES
SEE NOTE 12
.300
3.710
.500
4.200
4.550
6.475
.300
9.106
9.150
.350
.500
10.418
11.250
6
SEE NOTES
9 AND 11
.143
.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA


6 REF
63
-A-
⏥ .005
.080
.650
1.000
.250
⏥ .002
32
.050
2 PLACES
.005 R MAX
2 PLACES
REF 5
.385 MAX
2 PLACES
REF 3
4 REF
.615 MAX
TYP
3 REF
REF 2
.385 MAX
4 PLACES
.290 MAX
6 PLACES
.005 R MAX
TYP

SECTION A-A

SYM	ZONE
B	
C	
D	

6007019	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD | PART OR IDENTIFYING

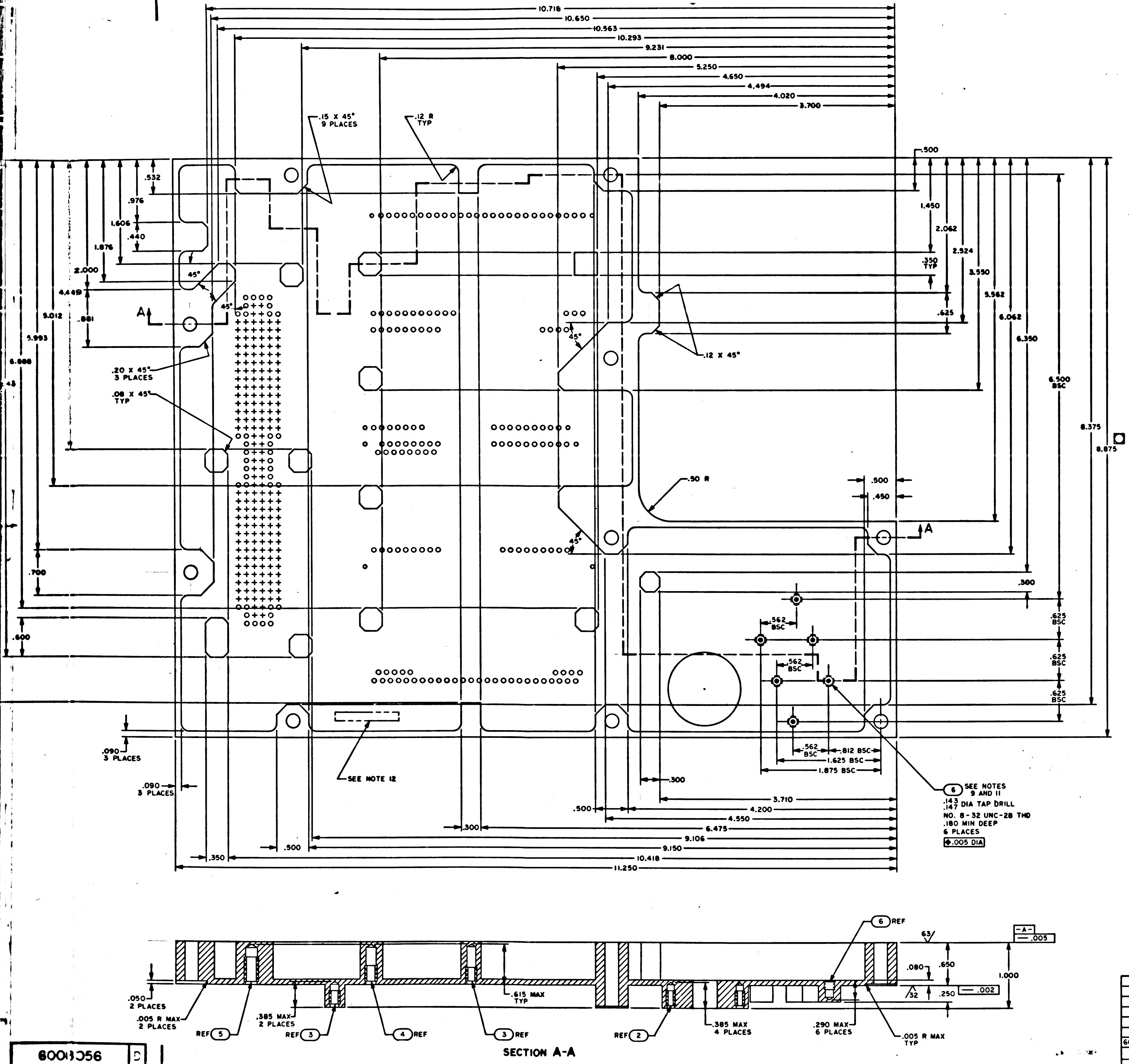
MIT
INSTRUMENTATION
CAMBRIDGE MA

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
A. C. METZ
APPROVED NAS

6008056 D

1/6008056

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
B		REPLACES WORD DWG REV A PER TDRR 29357				6-3-66
C		REVISION STATUS CHANGED.	LL	WH	3 FEB 67	
D		REVISION STATUS CHANGED	LL	WH	4 FEB 67	



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10.563
10.293
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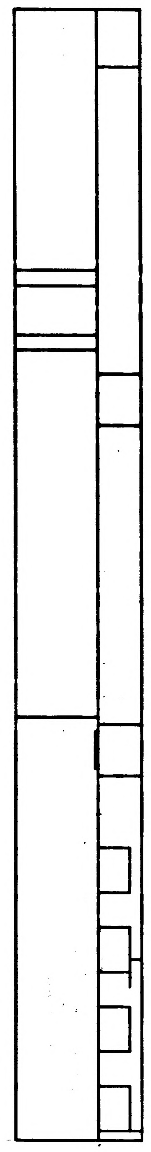
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45° 9 PLACES
.12 R TYP
.532
.976
1.606
.440
1.876
2.000
45°
4.449
5.012
.881
5.993
6.888
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.700
.600
.500
1.450
2.062
2.524
.350 TYP
3.550
.625
5.562
6.062
6.350
6.500 BSC
8.375
8.875
.12 X 45°
.50 R
.500
.450
A
.300
.625 BSC
.625 BSC
.625 BSC
.562 BSC
.562 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
6 SEE NOTES 9 AND 11
.143 .147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
.005 DIA
.090 3 PLACES
.090 3 PLACES
SEE NOTE 12
.300
3.710
4.200
4.550
.500
6.475
.300
9.106
9.150
10.418
11.250
.350
.500
6 REF
63
-A-
.005
.080
.650
1.000
.250
.002
32
.050 2 PLACES
.005 R MAX 2 PLACES
REF 5
.385 MAX 2 PLACES
REF 3
4 REF
.615 MAX TYP
3 REF
REF 2
.385 MAX 4 PLACES
.290 MAX 6 PLACES
.005 R MAX TYP
SECTION A-A



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007019	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 12-4-66
CHECKED 3-4-66
APPROVED V. A. Koppenin 10-19-66
APPROVED
APPROVED MIT 5-4-66
A. C. METZGER
APPROVED MSC
DATE

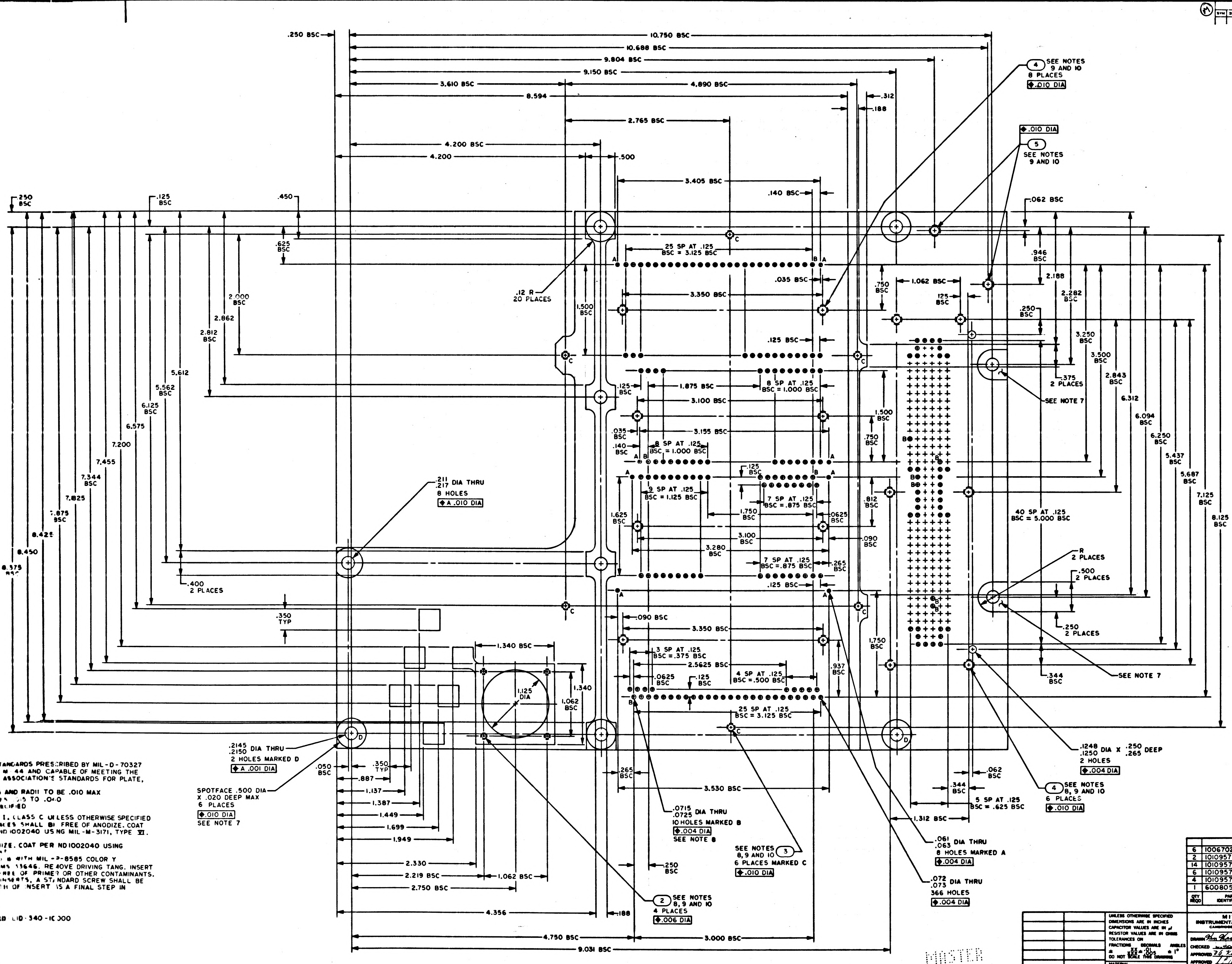
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 2 OF 2

6008056 D

2H



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10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
4.890 BSC
8.594
.312
.188
2.765 BSC
4.200 BSC
4.200
.500
3.405 BSC
.140 BSC
4 SEE NOTES 9 AND 10 8 PLACES
◆.010 DIA
◆.010 DIA
5 SEE NOTES 9 AND 10
.250 BSC
.125 BSC
.450
.625 BSC
25 SP AT .125 BSC = 3.125 BSC
.12 R 20 PLACES
.035 BSC
3.350 BSC
1.062 BSC
.750 BSC
.125 BSC
.062 BSC
.946 BSC
2.188
2.282 BSC
.250 BSC
3.250 BSC
3.500 BSC
.375 2 PLACES
SEE NOTE 7
2.843 BSC
6.312
6.094 BSC
6.250 BSC
5.437 BSC
5.687 BSC
7.125 BSC
8.125 BSC
2.000 BSC
2.862
2.812 BSC
5.612
5.562 BSC
6.125 BSC
6.575
7.200
7.455
7.344 BSC
7.825
7.875 BSC
8.425
8.450
8.375 BSC
1.500 BSC
.125 BSC
1.875 BSC
8 SP AT .125 BSC = 1.000 BSC
3.100 BSC
3.155 BSC
.035 BSC
.140 BSC
8 SP AT .125 BSC = 1.000 BSC
1.500 BSC
.750 BSC
.125 BSC
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
.812 BSC
1.750 BSC
.0625 BSC
1.625 BSC
3.100 BSC
3.280 BSC
.090 BSC
7 SP AT .125 BSC = .875 BSC
.265 BSC
.125 BSC
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.211 .217 DIA THRU 8 HOLES
◆ A .010 DIA
.400 2 PLACES
.350 TYP
.090 BSC
3.350 BSC
1.750 BSC
1.340 BSC
1.125 DIA
1.062 BSC
1.340
.3 SP AT .125 BSC = .375 BSC
2.5625 BSC
.0625 BSC
.125 BSC
4 SP AT .125 BSC = .500 BSC
.937 BSC
25 SP AT .125 BSC = 3.125 BSC
.344 BSC
SEE NOTE 7
.2145 .2150 DIA THRU 2 HOLES MARKED D
◆ A .001 DIA
.050 BSC
.350 TYP
.887
1.137
1.387
1.449
1.699
1.949
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES
◆.010 DIA
SEE NOTE 7
.265 BSC
3.530 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B
◆.004 DIA
SEE NOTE 8
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES
◆.004 DIA
4 SEE NOTES 8, 9 AND 10 6 PLACES
◆.010 DIA
.344 BSC
.062 BSC
5 SP AT .125 BSC = .625 BSC
1.312 BSC
.061 .063 DIA THRU 8 HOLES MARKED A
◆.004 DIA
SEE NOTES 8, 9 AND 10 3 6 PLACES MARKED C
◆.010 DIA
.072 .073 DIA THRU 366 HOLES
◆.004 DIA
2.330
2.219 BSC
1.062 BSC
.250 BSC
2.750 BSC
2 SEE NOTES 8, 9 AND 10 4 PLACES
◆.006 DIA
4.356
.188
4.750 BSC
3.000 BSC
9.031 BSC
A
B
C
D
4
3
2
1
D
C
B
A

…TANDARDS PRESCRIBED BY MIL-D-70327
…D M 44 AND CAPABLE OF MEETING THE
…M ASSOCIATION'S STANDARDS FOR PLATE,

…TS AND RADII TO BE .010 MAX
…HES .015 TO .040
…PECIFIED

…T I, CLASS C UNLESS OTHERWISE SPECIFIED
…FACES SHALL BE FREE OF ANODIZE. COAT
… ND1002040 USING MIL-M-3171, TYPE VI.

…DIZE. COAT PER ND1002040 USING

…WITH MIL-P-8585 COLOR Y
… MS 33646. REMOVE DRIVING TANG. INSERT
… FREE OF PRIMER OR OTHER CONTAMINANTS.
… INSERTS, A STANDARD SCREW SHALL BE
…TH OF INSERT IS A FINAL STEP IN

…TMD LID-340-10000

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

REVISIONS 2F59P

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	1006702-1	INSERT, THREADED, SELF LOCKING	6
2	1010957-013	INSERT, SCREW THREAD, LOCKING	5
14	1010957-010	INSERT, SCREW THREAD, LOCKING	4
6	1010957-009	INSERT, SCREW THREAD, LOCKING	3
4	1010957-008	INSERT, SCREW THREAD, LOCKING	2
1	6008056-001	HEADER	1

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 5 Apr 66
CHECKED 5-4-66
APPROVED D.G. Kaye 1 May 66
APPROVED
APPROVED MIT W G Mauley 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 1 OF 2

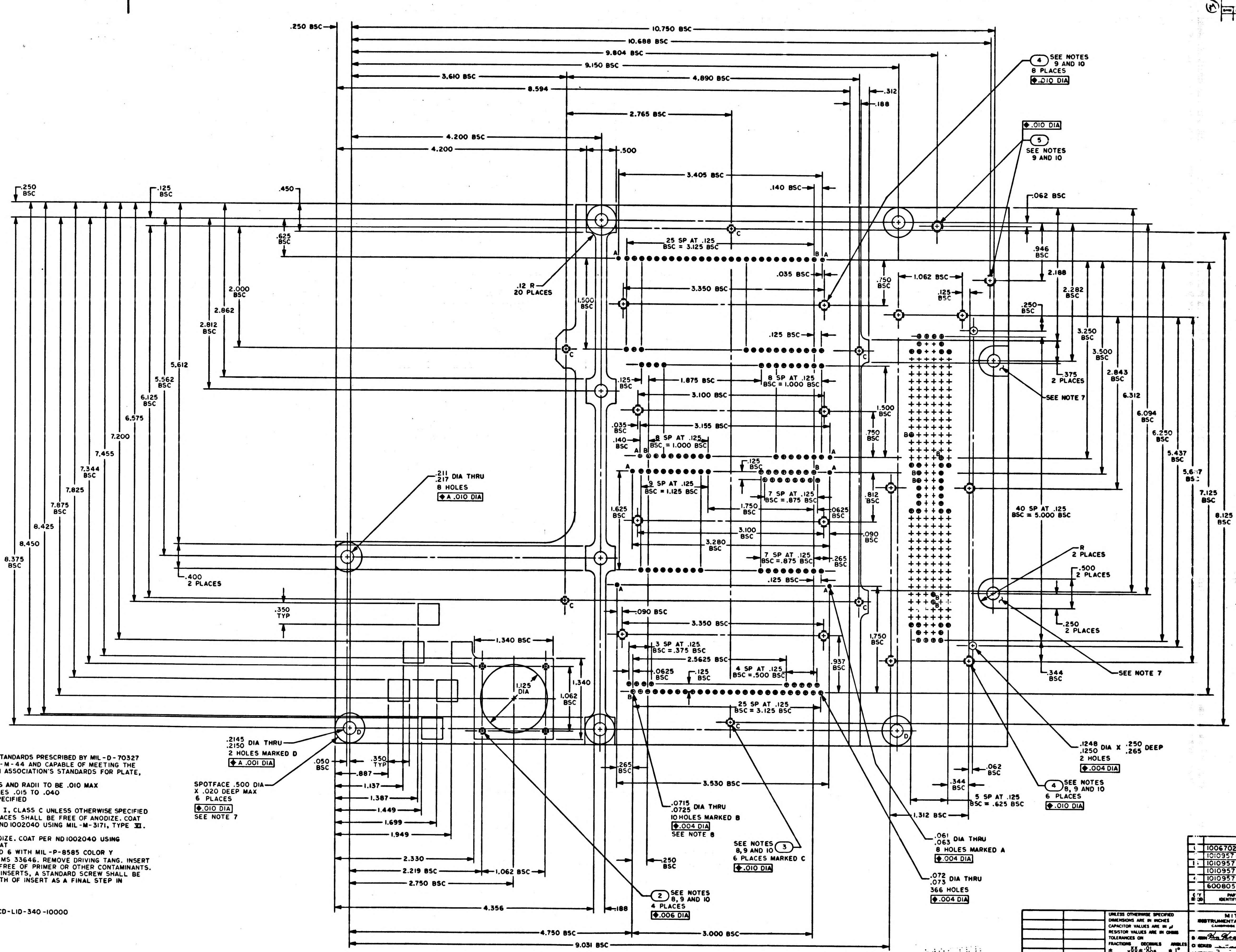
MASTER

6008056

6008056

E12

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


.250 BSC
10.750 BSC
10.688 BSC
9.804 BSC
9.150 BSC
3.610 BSC
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8.594
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2.765 BSC
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.125 BSC
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.625 BSC
25 SP AT .125 BSC = 3.125 BSC
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B
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D
.035 BSC
3.350 BSC
.12 R 20 PLACES
1.500 BSC
2.000 BSC
2.862
2.812 BSC
5.612
5.562 BSC
6.125 BSC
6.575
7.200
7.455
7.344 BSC
7.825
7.875 BSC
8.425
8.450
8.375 BSC
.125 BSC
1.875 BSC
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8 SP AT .125 BSC = 1.000 BSC
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.750 BSC
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.125 BSC
.946 BSC
2.188
2.282 BSC
.250 BSC
3.250 BSC
3.500 BSC
2.843 BSC
6.312
6.094 BSC
6.250 BSC
5.437 BSC
5.687 BSC
7.125 BSC
8.125 BSC
.375 2 PLACES
SEE NOTE 7
1.500 BSC
.750 BSC
.125 BSC
9 SP AT .125 BSC = 1.125 BSC
7 SP AT .125 BSC = .875 BSC
1.625 BSC
1.750 BSC
.0625 BSC
.812 BSC
3.100 BSC
3.280 BSC
.090 BSC
7 SP AT .125 BSC = .875 BSC
.265 BSC
.125 BSC
40 SP AT .125 BSC = 5.000 BSC
R 2 PLACES
.500 2 PLACES
.250 2 PLACES
.211 .217 DIA THRU 8 HOLES
◆ A .010 DIA
.400 2 PLACES
.350 TYP
.090 BSC
3.350 BSC
1.340 BSC
1.340
1.125 DIA
1.062 BSC
13 SP AT .125 BSC = .375 BSC
2.5625 BSC
.0625 BSC
.125 BSC
4 SP AT .125 BSC = .500 BSC
.937 BSC
1.750 BSC
.344 BSC
SEE NOTE 7
25 SP AT .125 BSC = 3.125 BSC
.2145 .2150 DIA THRU 2 HOLES MARKED D
◆ A .001 DIA
.050 BSC
.350 TYP
.887
1.137
1.387
1.449
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1.949
SPOTFACE .500 DIA X .020 DEEP MAX 6 PLACES
◆.010 DIA
SEE NOTE 7
.265 BSC
3.530 BSC
.0715 .0725 DIA THRU 10 HOLES MARKED B
◆.004 DIA
SEE NOTE 8
.062 BSC
.344 BSC
5 SP AT .125 BSC = .625 BSC
1.312 BSC
.1248 .1250 DIA X .250 .265 DEEP 2 HOLES
◆.004 DIA
④ SEE NOTES 8, 9 AND 10 6 PLACES
◆.010 DIA
④ SEE NOTES 9 AND 10 8 PLACES
◆.010 DIA
◆.010 DIA
⑤ SEE NOTES 9 AND 10
.061 .063 DIA THRU 8 HOLES MARKED A
◆.004 DIA
.072 .073 DIA THRU 366 HOLES
◆.004 DIA
SEE NOTES ③ 8, 9 AND 10 6 PLACES MARKED C
◆.010 DIA
.250 BSC
2.330
2.219 BSC
1.062 BSC
2.750 BSC
4.356
.188
② SEE NOTES 8, 9 AND 10 4 PLACES
◆.006 DIA
4.750 BSC
3.000 BSC
9.031 BSC

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATION'S STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE ALL BURRS AND BREAK SHARP EDGES .015 TO .040
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
7. SPOTFACE DIAMETERS AND INDICATED SURFACES SHALL BE FREE OF ANODIZE. COAT DIAMETERS AND SURFACES INDICATED PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
8. HOLES INDICATED SHALL BE FREE OF ANODIZE. COAT PER ND1002040 USING MIL-M-3171, TYPE VI. DO NOT EPOXY COAT
9. COAT THREADS OF FIND NO. 2, 3, 4, 5 AND 6 WITH MIL-P-8585 COLOR Y
10. INSTALL FIND NO. 2, 3, 4 AND 5 WET PER MS 33646. REMOVE DRIVING TANG. INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST-INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED FOR FULL LENGTH OF INSERT AS A FINAL STEP IN CLEANING INSERT THREADS
11. INSTALL FIND NO. 6 WET PER ND1002121
12. IDENTIFY WITH PART NO. PER ND1002019
13. ☐ THIS DIMENSION IS CONTROLLED BY ICD-LID-340-10000

QTY REQD	PART OR IDENTIFYING NO.
1	1006702-1
	1010957-013
1	1010957-010
	1010957-009
4	1010957-008
	6008056-001

NEXT ASSY	USED ON
6007019	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

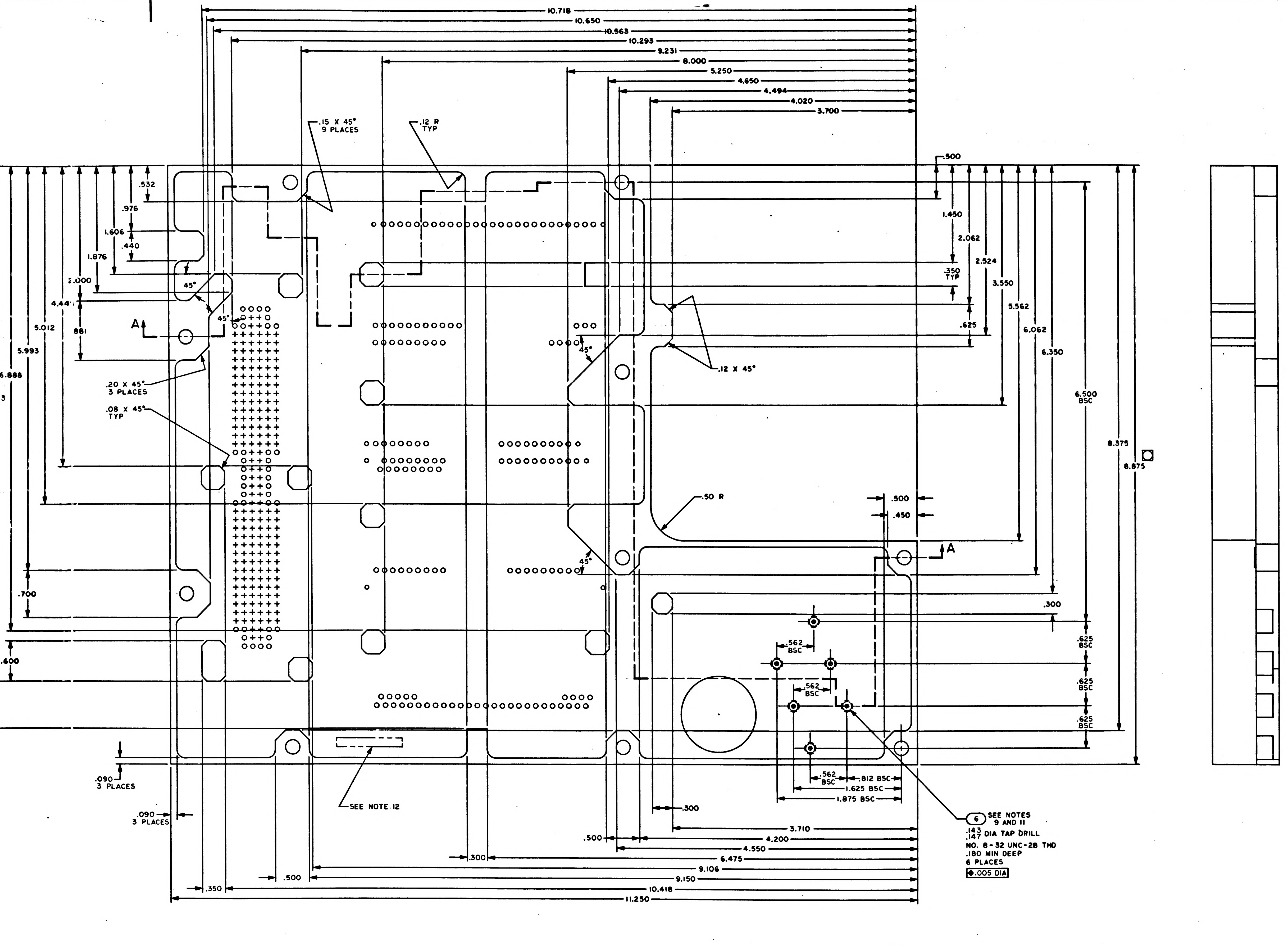
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Ken Healy
CHECKED
APPROVED
APPROVED
APPROVED
A. C. METZLAR

MASTER

6008056

REVISIONS 2H 6-?						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



10.718
10.650
10.563
10.293
9.231
8.000
5.250
4.650
4.494
4.020
3.700
.15 X 45° 9 PLACES
.12 R TYP
.500
1.450
2.062
2.524
3.550
5.562
6.062
6.350
.350 TYP
.625
6.500 BSC
8.375
8.875
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5.993
6.888
45°
A
.20 X 45° 3 PLACES
.08 X 45° TYP
.12 X 45°
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.450
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.300
.625 BSC
.562 BSC
.812 BSC
1.625 BSC
1.875 BSC
.090 3 PLACES
SEE NOTE 12
.300
6 SEE NOTES 9 AND 11
.143 .147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
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3.710
4.200
4.550
6.475
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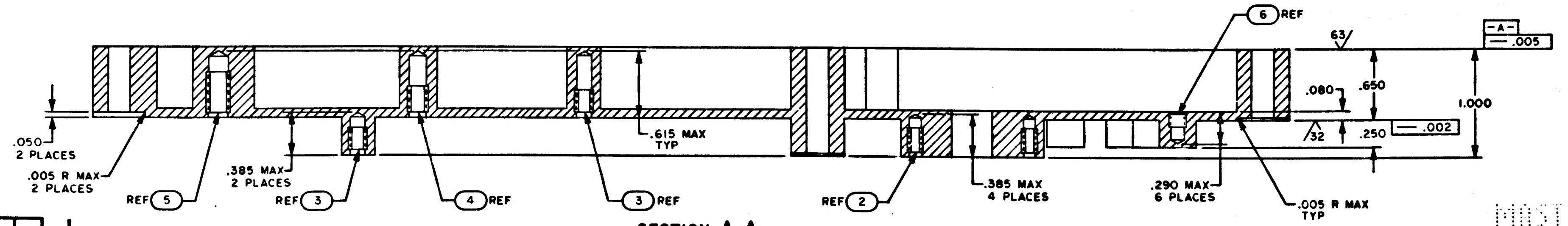

6 REF
63
-A-
.005
.080
.650
1.000
1/32
.250
.002
.050 2 PLACES
.005 R MAX 2 PLACES
.385 MAX 2 PLACES
REF 5
REF 3
4 REF
.615 MAX TYP
3 REF
REF 2
.385 MAX 4 PLACES
.290 MAX 6 PLACES
.005 R MAX TYP

SECTION A-A

MASTER

2H

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007019	
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS XX ± .01 XXX ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN Ken Healy 1Apr66
CHECKED 3Apr66
APPROVED V.O. Koppein 10May66
APPROVED 16May66
APPROVED MIT 5-11-66
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER INSEP ASSY
SIGNAL CONDITIONER
LEM OPERATIONAL

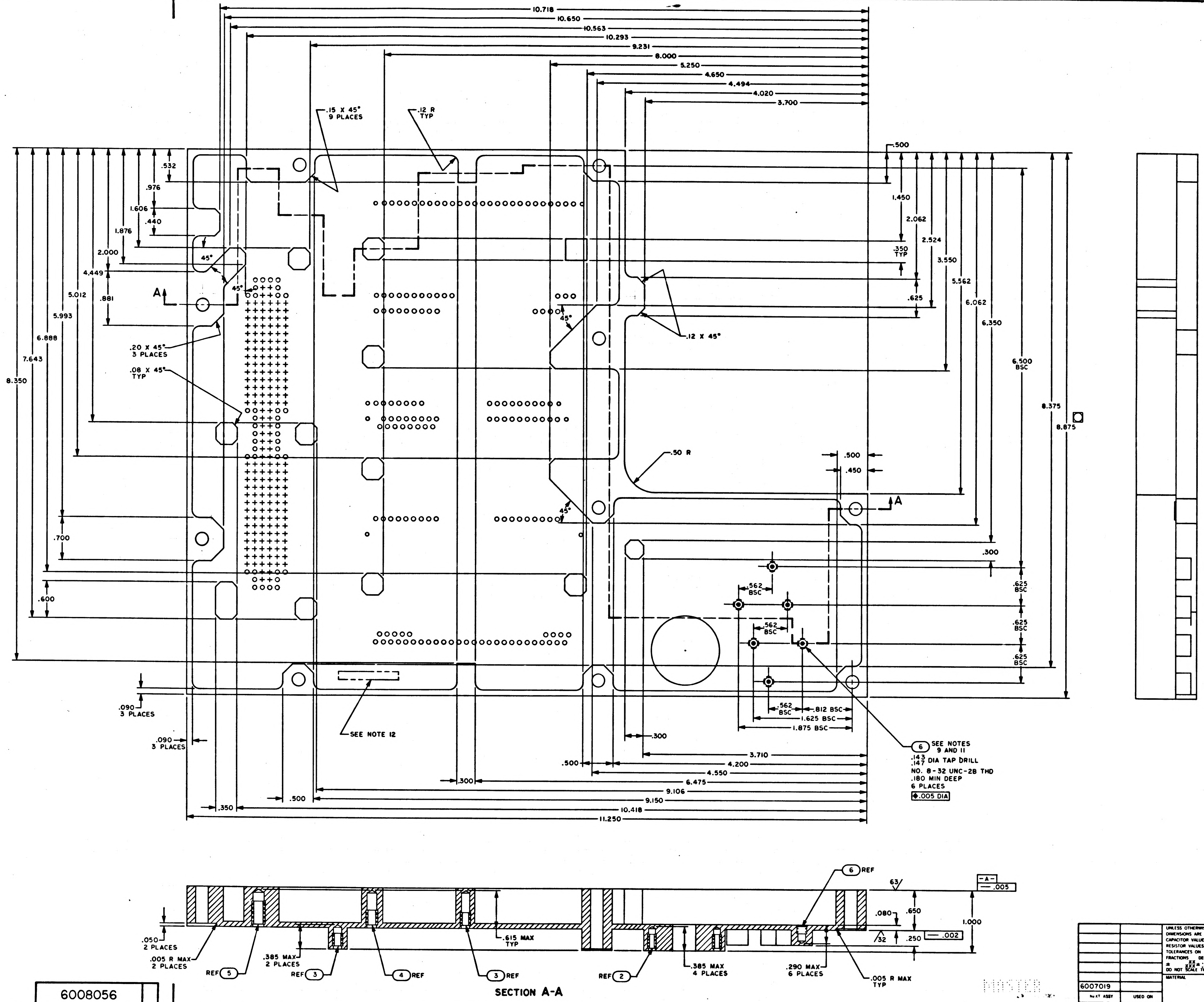
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008056
SCALE 2/1
SHEET 2 OF 2

6008056

6008056

F2

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


10.718
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.15 X 45°
9 PLACES
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7.643
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45°
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3 PLACES
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3 PLACES
SEE NOTE 12
.350
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6.475
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9.150
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3.550
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6.062
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TYP
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8.875
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BSC
.562
BSC
.562
BSC
.812 BSC
1.625 BSC
1.875 BSC
.300
3.710
4.200
4.550
6
SEE NOTES
9 AND 11
.143
.147 DIA TAP DRILL
NO. 8-32 UNC-2B THD
.180 MIN DEEP
6 PLACES
⌖ .005 DIA
6 REF
63
-A-
⏥ .005
.080
.650
1.000
32
.250
⏥ .002
.050
2 PLACES
.005 R MAX
2 PLACES
REF 5
.385 MAX
2 PLACES
REF 3
4 REF
.615 MAX
TYP
3 REF
REF 2
.385 MAX
4 PLACES
.290 MAX
6 PLACES
.005 R MAX
TYP
SECTION A-A

6008056

MASTER

6007019	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.01 XXX ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING

MATERIAL

QTY REQD | PART OR IDENTIFYING NO.

MIT
INSTRUMENTATION
CAMBRIDGE

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

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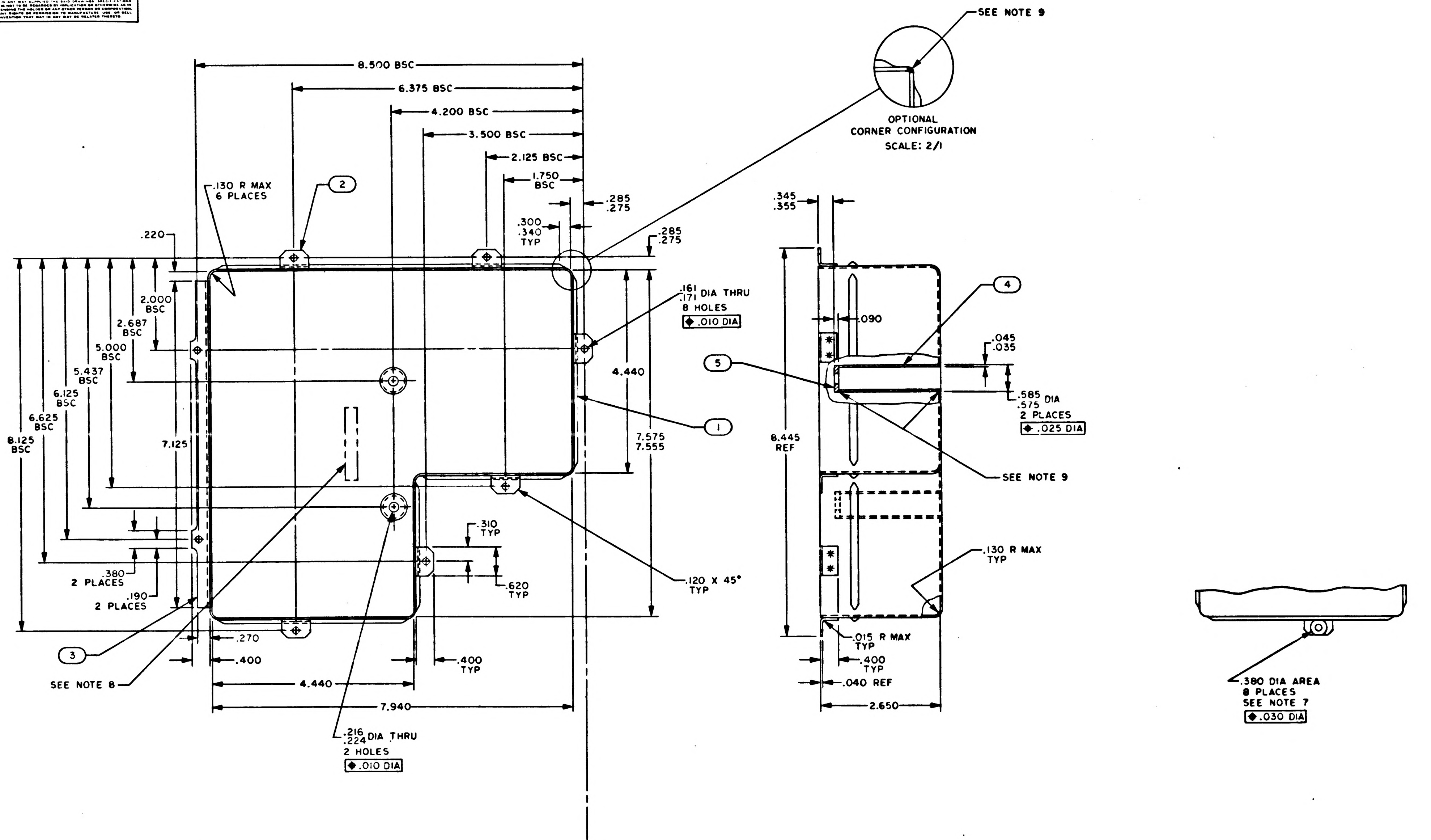
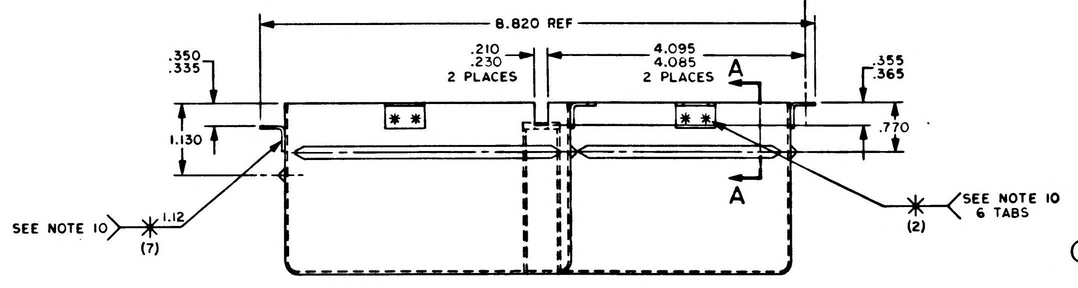
REVISIONS 29349

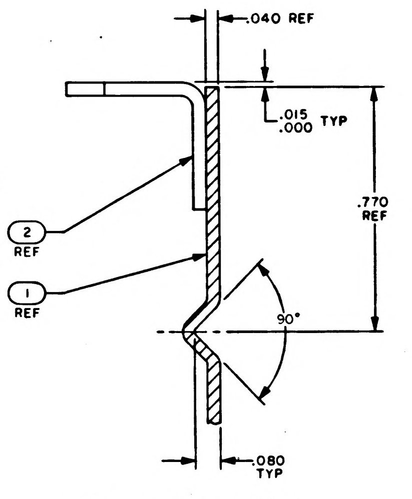
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29952	J.E.G.		5 July 66	



SEE NOTE 9
OPTIONAL CORNER CONFIGURATION SCALE: 2/1
8.500 BSC
6.375 BSC
4.200 BSC
3.500 BSC
2.125 BSC
1.750 BSC
.285 .275
.300 .340 TYP
.285 .275
.130 R MAX 6 PLACES
2
.220
2.000 BSC
2.687 BSC
5.000 BSC
5.437 BSC
6.125 BSC
6.625 BSC
8.125 BSC
7.125
.161 .171 DIA THRU 8 HOLES
◆ .010 DIA
4.440
7.575 7.555
1
.310 TYP
.620 TYP
.120 X 45° TYP
.380 2 PLACES
.190 2 PLACES
3
SEE NOTE 8
.270
.400
4.440
.400 TYP
7.940
.216 .224 DIA THRU 2 HOLES
◆ .010 DIA
.345 .355
.090
4
5
.045 .035
.585 .575 DIA 2 PLACES
◆ .025 DIA
8.445 REF
SEE NOTE 9
.130 R MAX TYP
.015 R MAX TYP
.400 TYP
.040 REF
2.650
.380 DIA AREA 8 PLACES SEE NOTE 7
◆ .030 DIA



8.820 REF
.350 .335
.210 .230 2 PLACES
4.095 4.085 2 PLACES
A
A
.355 .365
1.130
.770
SEE NOTE 10
1.12
(7)
SEE NOTE 10 6 TABS
(2)



.040 REF
.015 .000 TYP
.770 REF
2 REF
1 REF
90°
.080 TYP

PARTIAL SECTION A-A
SCALE: 5/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: ALUMINUM 5052-H32 PER QQ-A-250/8 .040 THICK
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
4. REMOVE BURRS AND SHARP EDGES .005 TO .015
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: UNLESS OTHERWISE SPECIFIED ANODIZE PER MIL-A-8625 TYPE I CLEAR. APPLY PAINT PER ND1002289
7. INDICATED AREAS SHALL BE FREE OF ANODIZE AND PAINT. COAT INDICATED AREAS PER ND 1002040. DO NOT EPOXY COAT
8. IDENTIFY WITH PART NO. PER ND1002019
9. WELDING PERMITTED. WELD PER MIL-W-8604
10. SPOTWELD PER MIL-W-6858, CLASS B
11. *MATERIAL: ALUMINUM 6061-T6 PER QQ-A-225/11*

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
SEE NOTE 11	2	6008057-5	DISK	5
SEE NOTE 11	2	6008057-4	TUBE	4
	1	6008057-3	TAB	3
	6	6008057-2	TAB	2
	1	6008057-1	COVER	1

LIST OF MATERIALS

6007010		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μf RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS ± DECIMALS ±.015 ANGLES ± 1° DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
NEXT ASSY	USED ON	MATERIAL SEE NOTE 2 *AND NOTE 11*	DRAWN Ken Haskey 18 Apr 66 CHECKED L. Haas 27 May 66 APPROVED V G Kapanius 31 MAY 66 APPROVED 3 Jun 66	COVER SIGNAL CONDITIONER LEM FLIGHT QUAL
APPLICATION			APPROVED MIT M G Hurley 6-3-66 APPROVED MSC A. C. METZGER DATE	CODE IDENT NO 80230 · SIZE E · DRAWING NO. 6008057 SCALE 1/1 · SHEET 1 OF 1

6008057 A

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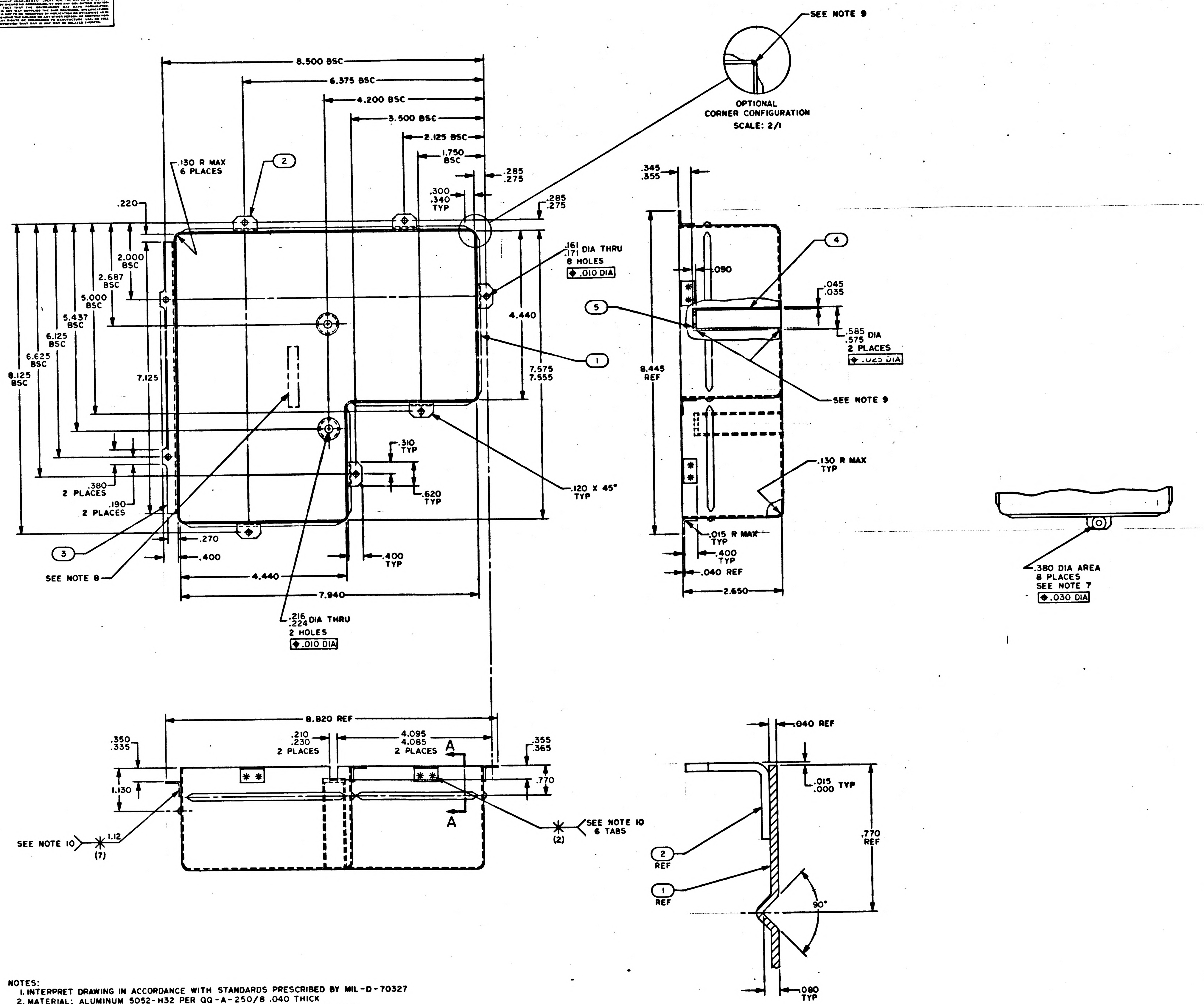
REVISIONS 29349						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



SEE NOTE 9
OPTIONAL CORNER CONFIGURATION
SCALE: 2/1
8.500 BSC
6.375 BSC
4.200 BSC
3.500 BSC
2.125 BSC
1.750 BSC
.285 .275
.300 .340 TYP
.285 .275
.130 R MAX 6 PLACES
2
.220
2.000 BSC
2.687 BSC
5.000 BSC
5.437 BSC
6.125 BSC
6.625 BSC
8.125 BSC
7.125
.161 .171 DIA THRU 8 HOLES
◆.010 DIA
4.440
1
7.575 7.555
.310 TYP
.620 TYP
.120 X 45° TYP
.380 2 PLACES
.190 2 PLACES
3
SEE NOTE 8
.270
.400
.400 TYP
4.440
7.940
.216 .224 DIA THRU 2 HOLES
◆.010 DIA
.345 .355
.090
4
.045 .035
5
.585 .575 DIA 2 PLACES
◆.025 DIA
8.445 REF
SEE NOTE 9
.130 R MAX TYP
.015 R MAX TYP
.400 TYP
.040 REF
2.650
.380 DIA AREA 8 PLACES SEE NOTE 7
◆.030 DIA
8.820 REF
.350 .335
.210 .230 2 PLACES
4.095 4.085 2 PLACES
A
.355 .365
1.130
.770
SEE NOTE 10
1.12
(7)
A
SEE NOTE 10 6 TABS
(2)
.040 REF
.015 .000 TYP
.770 REF
2 REF
1 REF
90°
.080 TYP

PARTIAL SECTION A-A
SCALE: 5/1

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: ALUMINUM 5052-H32 PER QQ-A-250/8 .040 THICK
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
4. REMOVE BURRS AND SHARP EDGES .005 TO .015
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: UNLESS OTHERWISE SPECIFIED ANODIZE PER MIL-A-8625 TYPE I CLEAR. APPLY PAINT PER ND1002289
7. INDICATED AREAS SHALL BE FREE OF ANODIZE AND PAINT. COAT INDICATED AREAS PER ND 1002040. DO NOT EPOXY COAT

8. IDENTIFY WITH PART NO. PER ND1002019
9. WELDING PERMITTED. WELD PER MIL-W-8604
10. SPOTWELD PER MIL-W-6858, CLASS B

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	6008057-5	DISK	5
2	6008057-4	TUBE	4
1	6008057-3	TAB	3
6	6008057-2	TAB	2
1	6008057-1	COVER	1

LIST OF MATERIALS

6007010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ANGLES ± 1°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Wm Hrabaj 10/3/66
CHECKED L. Hand 27 May 66
APPROVED V G Ragosine 31 May 66
APPROVED D Jones 3 Jun 66
APPROVED MIT W G Mosley 6-3-66
APPROVED MSC A. C. METZGER
DATE

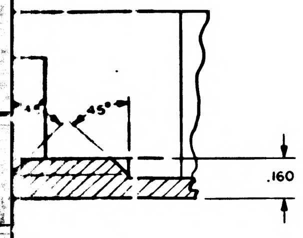
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER
SIGNAL CONDITIONER
LEM FLIGHT QUAL

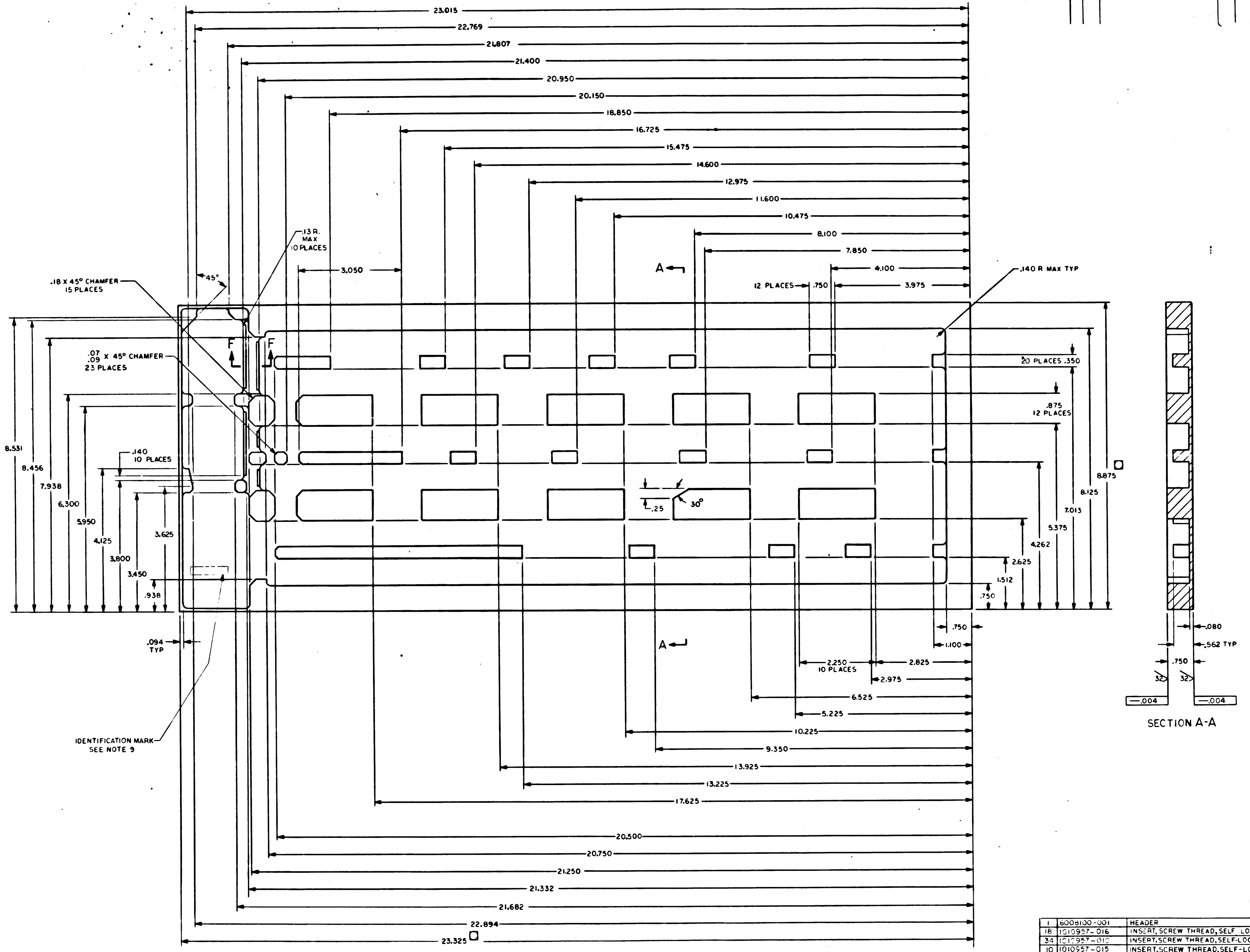
CODE IDENT NO.	SIZE	DRAWING NO.
80230	E	6008057
SCALE 1/1		SHEET 1 OF 1

6008057

REVISIONS	TCRR 27316					
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISION STATUS CHANGED	J.K.	PF	8 JUL 66	



TION F-F
CALE 4/1


23.015
22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES .750
A
3.050
.13 R. MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
.140 R MAX TYP
F
F
20 PLACES .350
.875 12 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
.938
3.625
.140 10 PLACES
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.750
1.100
.094 TYP
A
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
IDENTIFICATION MARK SEE NOTE 9
.080
.562 TYP
.750
32
32
.004
.004

SECTION A-A

TH STANDARDS PRESRIBED BY MIL-D-70327
TION H24 PER MIL-M-26075 AND
REMENTS OF THE ALUMINUM
PLATE, EXTRUSIONS AND FORGINGS.
ETS AND RADII TO BE .010 MAX
.040 UNLESS OTHERWISE

SPECIFIED
PE I, CLASS 2, UNLESS OTHERWISE SPECIFIED
TH MIL-P-8585, COLOR Y
. REMOVE DRIVING TANG.
ACES MATING WITH SCREW SHALL
TS. AFTER POST INSTALLATION
D SCREW SHALL BE ENGAGED AND
L INSERT AS FINAL STEP IN

AFTER ANODIZING, COAT
ER MIL-M-317 TYPE VI, DO NOT EPOXY COAT
ED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008100-001	HEADER	4
18	1010957-016	INSERT, SCREW THREAD, SELF LOCKING	3
34	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007006	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. GOGUEN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

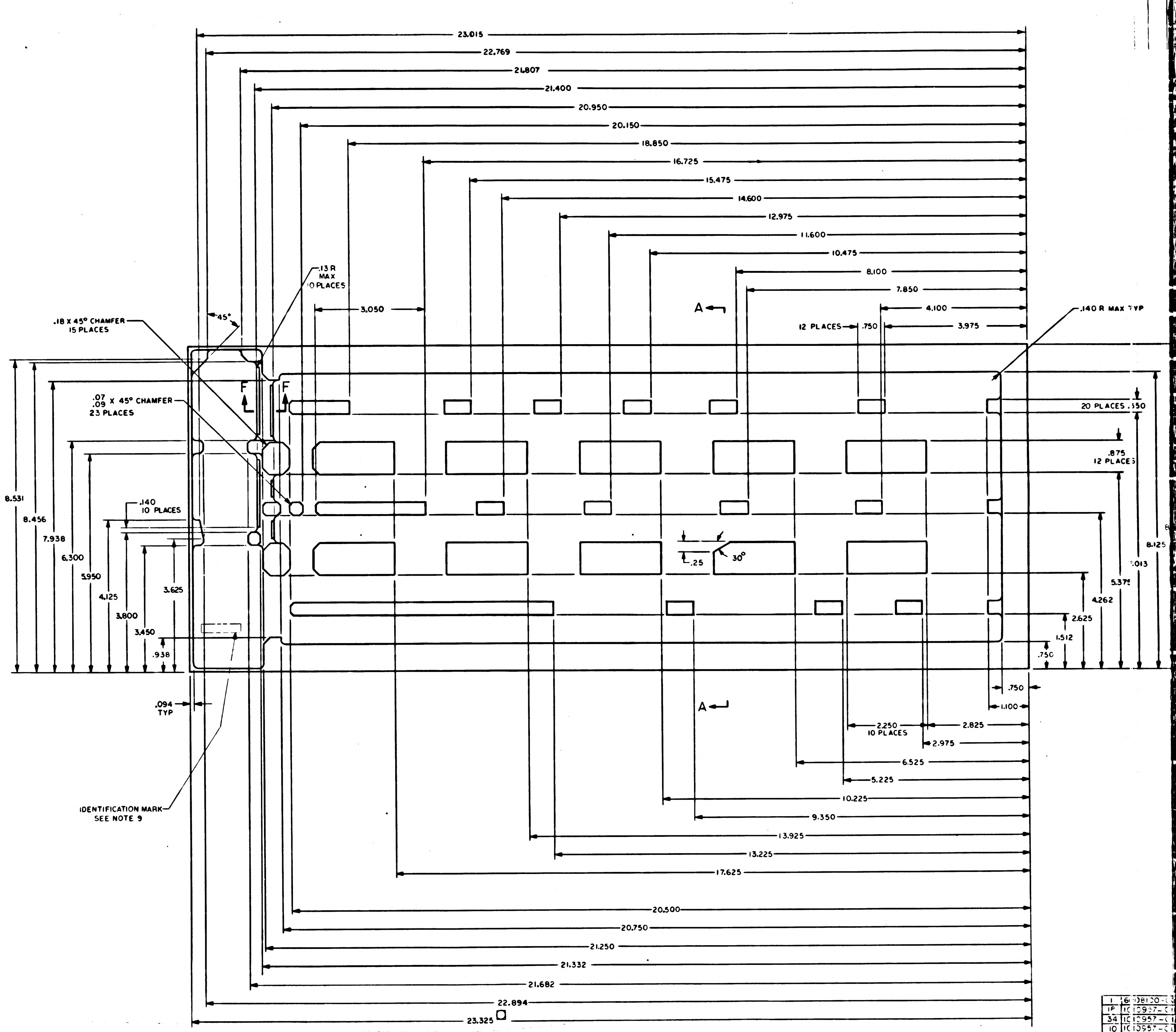
CODE IDENT NO 80230
SIZE J
DRAWING NO 6008100
SCALE 1/1
SHEET 1 OF 2

6008100 A

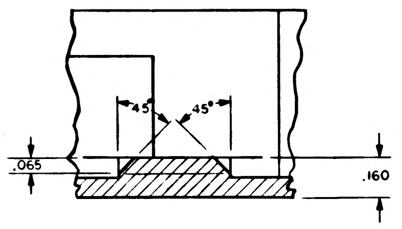
6008100 A

2/6008100

24



23.015
22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES .750
3.050
.13 R MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
.140 10 PLACES
.140 R MAX TYP
A
F
F
20 PLACES .550
.875 12 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
IDENTIFICATION MARK SEE NOTE 9



45°
45°
.065
.160

SECTION F-F
SCALE 4/1

NOTES.
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESRIBED BY MIL-D-70327
2. MATERIAL. MAGNESIUM ALLOY HK31A; CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES $\sqrt{125}$ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
▢ 8. INSTALL FIND 1, 2 & 3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, COAT HOLES PER ND1002040 USING MATERIAL PER MIL-M-3171 TYPE VI, DO NOT EPOXY COAT
11. ▢ THIS DIMENSION IS CONTROLLED BY ICD

1	6008100-(
1P	1010957-(
34	1010957-(
10	1010957-(
QTY REQD	PART OR IDENTIFYIN

6007006	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATIO
CAMBRIDGE MAS

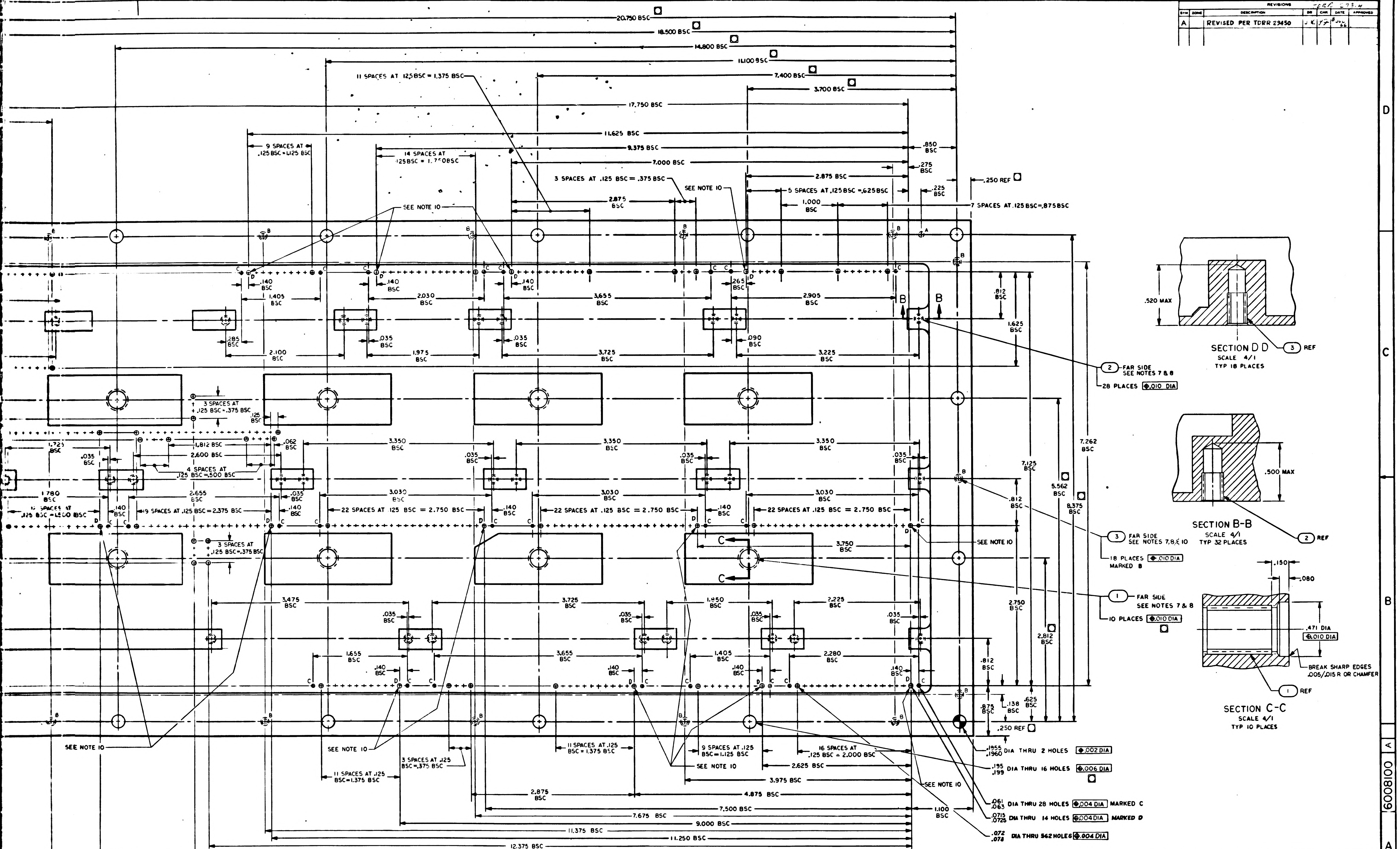
DRAWN F GOGUEN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

6008100 A

1 / 6008100

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29450	J K.	JJ	8 JUL 66	

TDRR 273.4



20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
9.375 BSC
7.000 BSC
.850 BSC
.275 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
.225 BSC
.250 REF
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
7 SPACES AT .125 BSC = .875 BSC
SEE NOTE 10
2.875 BSC
B
C
D
.140 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.812 BSC
1.625 BSC
.285 BSC
2.100 BSC
.035 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
2 FAR SIDE SEE NOTES 7 & 8
28 PLACES ⊕.010 DIA
3 SPACES AT .125 BSC = .375 BSC
.125 BSC
1.725 BSC
.035 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
.062 BSC
3.350 BSC
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC = 2.375 BSC
3.030 BSC
22 SPACES AT .125 BSC = 2.750 BSC
SEE NOTE 10
3 FAR SIDE SEE NOTES 7, 8, & 10
18 PLACES ⊕.010 DIA MARKED B
3.750 BSC
C
C
1 FAR SIDE SEE NOTES 7 & 8
10 PLACES ⊕.010 DIA
3.475 BSC
1.950 BSC
2.225 BSC
2.750 BSC
2.812 BSC
1.655 BSC
2.280 BSC
.812 BSC
.875 BSC
.138 BSC
.625 BSC
.250 REF
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
3 SPACES AT .125 BSC = .375 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC
.1955/.1960 DIA THRU 2 HOLES ⊕.002 DIA
.195/.199 DIA THRU 16 HOLES ⊕.006 DIA
.061/.063 DIA THRU 28 HOLES ⊕.004 DIA MARKED C
.0715/.0725 DIA THRU 14 HOLES ⊕.004 DIA MARKED D
.072/.078 DIA THRU 562 HOLES ⊕.004 DIA
.520 MAX
3 REF
SECTION D D
SCALE 4/1
TYP 18 PLACES
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
2 REF
.150
.080
.471 DIA
⊕.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
1 REF
SECTION C-C
SCALE 4/1
TYP 10 PLACES

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL ——

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN R. GOGUEN 3 Mar 66
CHECKED 6 Jan 66
APPROVED
APPROVED
APPROVED MIT 7-25-66
APPROVED MSC A. C. METZGER
DATE

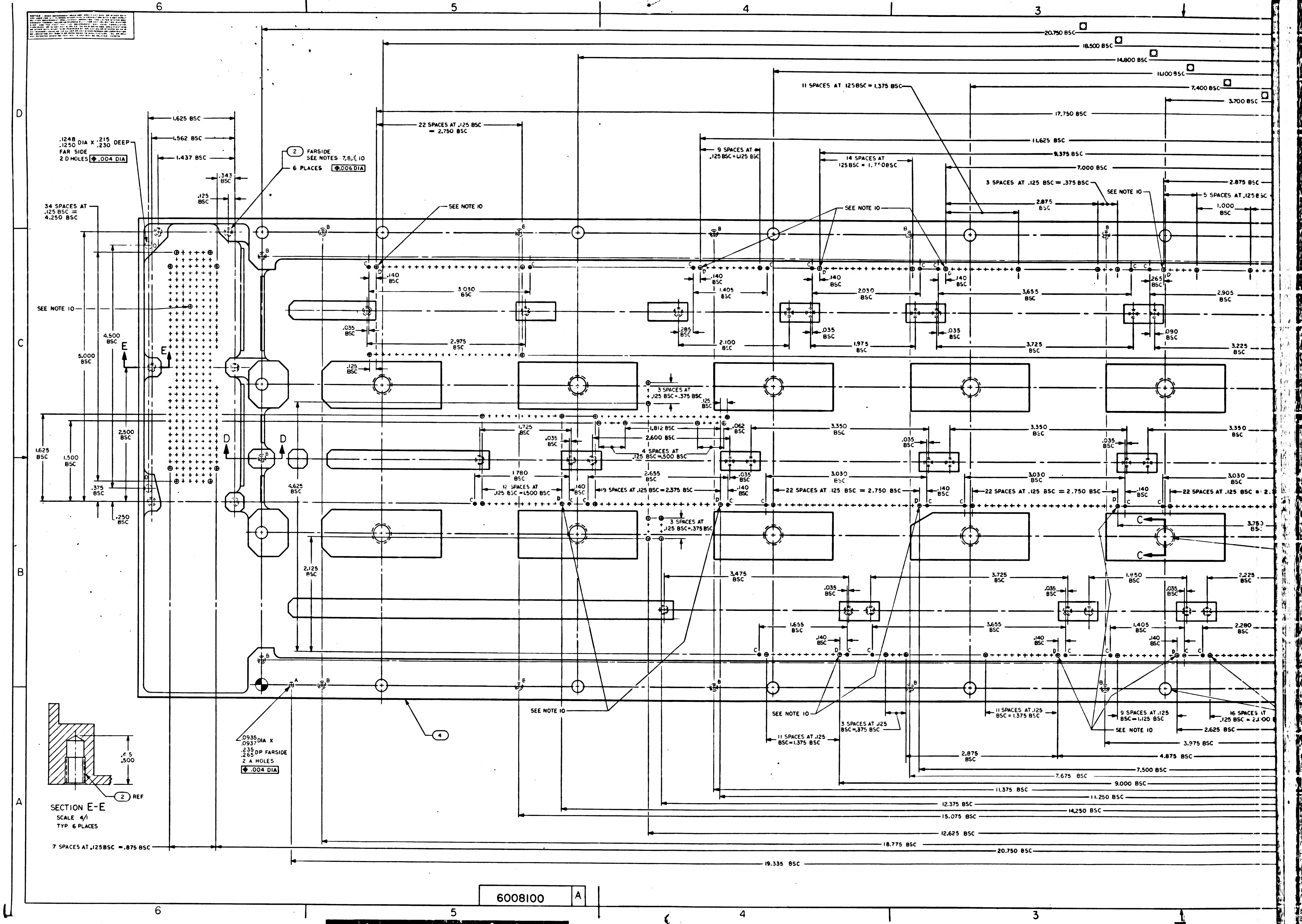
HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO 80230
SIZE J
DRAWING NO. 6008100
SCALE 2/1
SHEET 2 OF 2

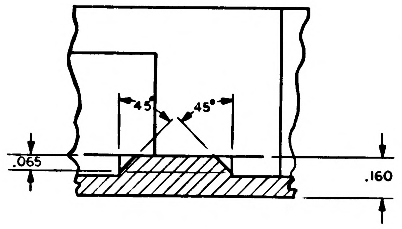
6008100 A

6008 00 A

2Y 6008100

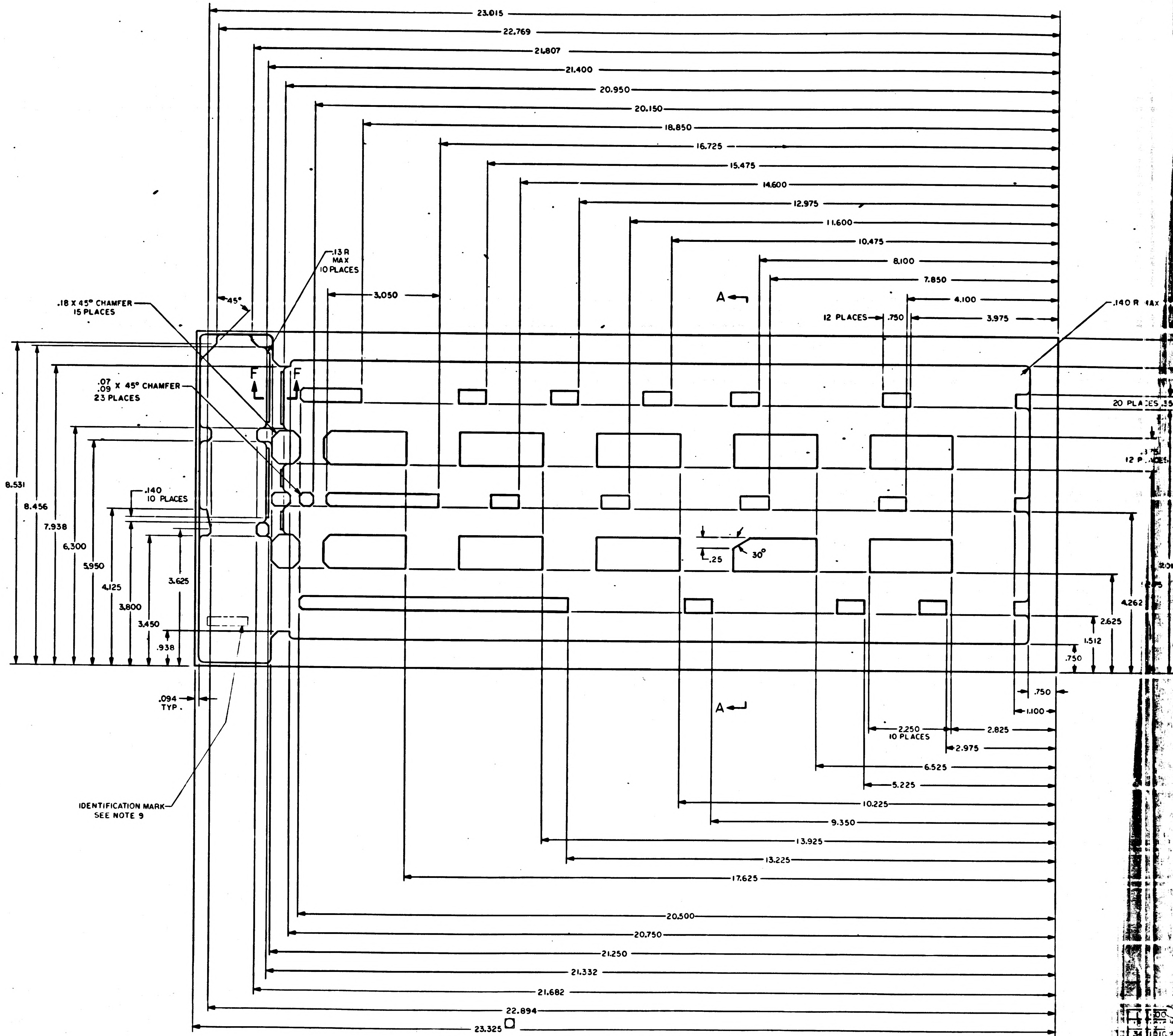


6
5
4
3
D
C
B
A
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
22 SPACES AT .125 BSC = 2.750 BSC
11.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
9.375 BSC
14 SPACES AT .125 BSC = 1.750 BSC
7.000 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
2.875 BSC
5 SPACES AT .125 BSC
1.000 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.1248 .1250 DIA X .215 .230 DEEP FAR SIDE
2 D HOLES ⌖ .004 DIA
2 FARSIDE SEE NOTES 7, 8, & 10
6 PLACES ⌖ .006 DIA
.343 BSC
.125 BSC
34 SPACES AT .125 BSC = 4.250 BSC
.140 BSC
3.030 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.035 BSC
.285 BSC
2.975 BSC
2.100 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
4.500 BSC
5.000 BSC
E
3 SPACES AT .125 BSC = .375 BSC
.062 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
3.350 BSC
2.500 BSC
1.625 BSC
1.500 BSC
D
4.625 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
2.655 BSC
19 SPACES AT .125 BSC = 2.375 BSC
22 SPACES AT .125 BSC = 2.750 BSC
.375 BSC
.250 BSC
3.750 BSC
2.125 BSC
3.475 BSC
1.950 BSC
2.225 BSC
1.655 BSC
2.280 BSC
A
B
C
SEE NOTE 10
4
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
16 SPACES AT .125 BSC = 2.000
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125 BSC = .875 BSC
.0935 .0937 DIA X .235 .265 DP FARSIDE
2 A HOLES
⌖ .004 DIA
.245 .500
2 REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6008100
A



.065
45°
45°
.160

SECTION F-F
SCALE 4/1



23.015
22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
45°
.18 X 45° CHAMFER
15 PLACES
.13 R
MAX
10 PLACES
.140 R MAX
A
F
F
.07
.09 X 45° CHAMFER
23 PLACES
.140
10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
20 PLACES .350
12 PLACES
8.125
8.013
4.262
2.625
1.512
.750
.094
TYP.
A
.750
1.100
2.250
10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
IDENTIFICATION MARK
SEE NOTE 9

NOTES.

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESRIBED BY MIL-D-70327
2. MATERIAL. MAGNESIUM ALLOY HK31A, CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED.
5. ALL SURFACES 125/ UNLESS OTHERWISE SPECIFIED.
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED.
7. COAT THREADS OF HOLES FOR FIND NOS. 1, 2, AND 3 WITH MIL-P-8585, COLOR Y AND INSTALL PER NOTE 8 WHILE PRIMER IS WET.

□8. INSTALL FIND 1,2&3 (SEE NOTE NO 7) PER MS 33646. REMOVE DRIVING TANG, INSERT SURFACES MATING WITH SCREW THREAD SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF INSERTS, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF EACH INSERT, BEFORE PRIMER IS FIRMLY SET, AS A FINAL STEP IN CLEANING INSERT THREADS.

9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, COAT HOLES PER ND1002040 USING MATERIAL PER MIL-M-3171 TYPE VI, DO NOT EPOXY COAT
11. □ THIS DIMENSION IS CONTROLLED BY ICD

6007006	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

6008100 B

1/6008100

REVISIONS TDRR 27314						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
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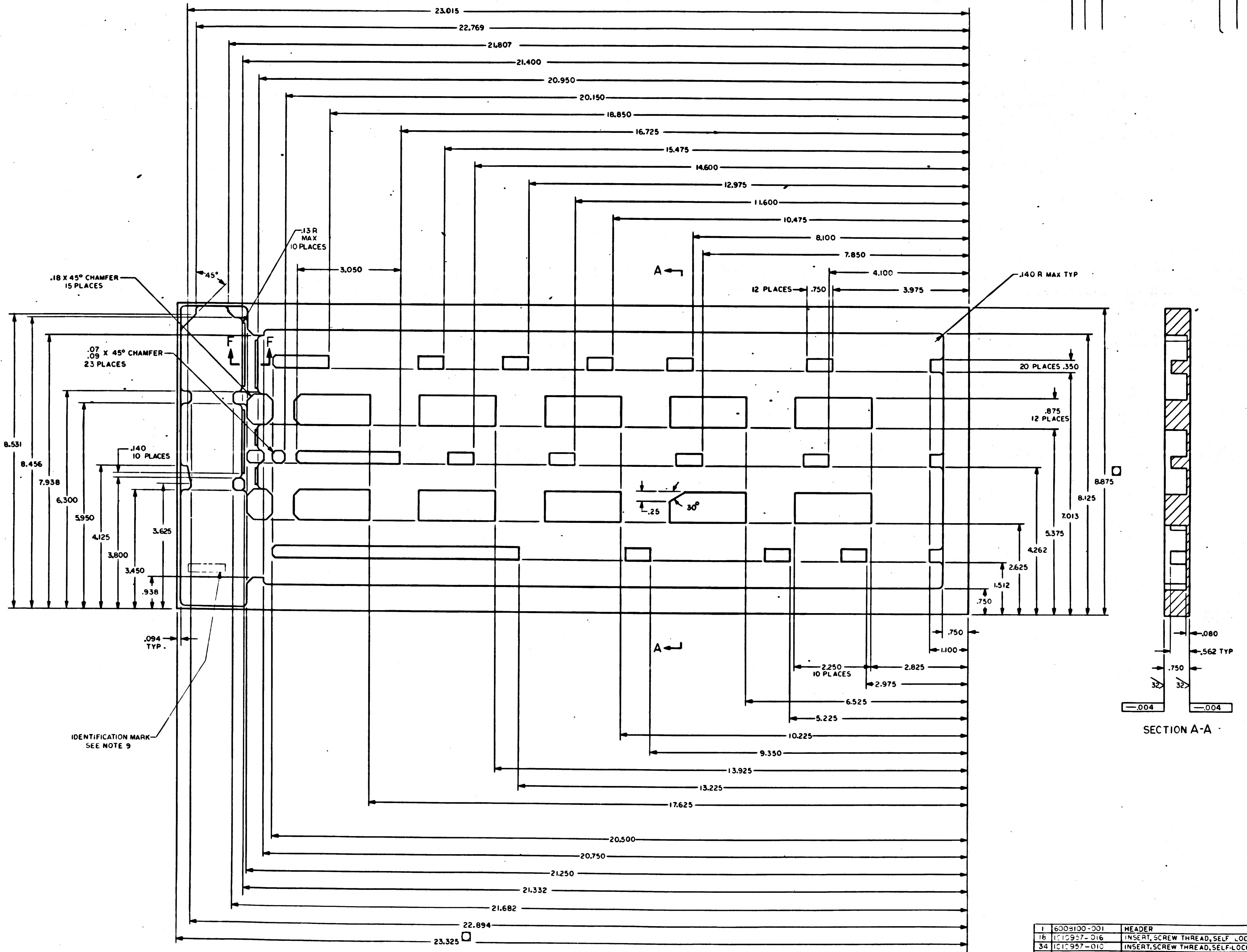
B		REVISED PER TDRR 32777	VB	WH	3 FEB 67	



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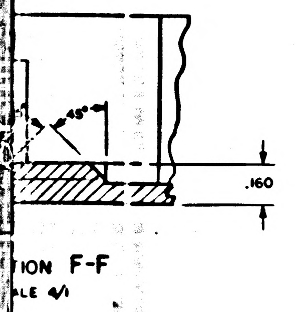
22.769
21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
.13 R MAX 10 PLACES
.18 X 45° CHAMFER 15 PLACES
45°
.07 .09 X 45° CHAMFER 23 PLACES
F
F
A
A
.140 R MAX TYP
20 PLACES .350
.875 12 PLACES
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
.938
3.625
.140 10 PLACES
.25
30°
.094 TYP.
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
20.500
20.750
21.250
21.332
21.682
22.894
23.325
IDENTIFICATION MARK SEE NOTE 9
.080
.562 TYP
.750
32
32
.004
.004
SECTION A-A



ION F-F

ALE 4/1

STANDARDS PRESRIBED BY MIL-D-70327
N H24 FER MIL-M-26075 AND
MENTS OF THE ALUMINUM
ATE, EXTRUSIONS AND FORGINGS.
AND RADII TO BE .010 MAX
O UNLESS OTHERWISE SPECIFIED.
ECIFIED.
I, CLASS C, UNLESS OTHERWISE SPECIFIED.
, 2, AND 3 WITH MIL-P-8585, COLOR Y
ER IS WET.
MS 33646.
ES MATING WITH SCREW THREAD SHALL
S. AFTER POST INSTALLATION
SHALL BE ENGAGED AND DISENGAGED
RE PRIMER IS FIRMLY SET, AS A
ADS.

FTER ANODIZING, COAT
MIL-M-3171 TYPE VI, DO NOT EPOXY COAT

6008100	B

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008100-001	HEADER	4
16	1010957-016	INSERT, SCREW THREAD, SELF LOCKING	3
34	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007006	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ± .02 XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. GOGUEN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

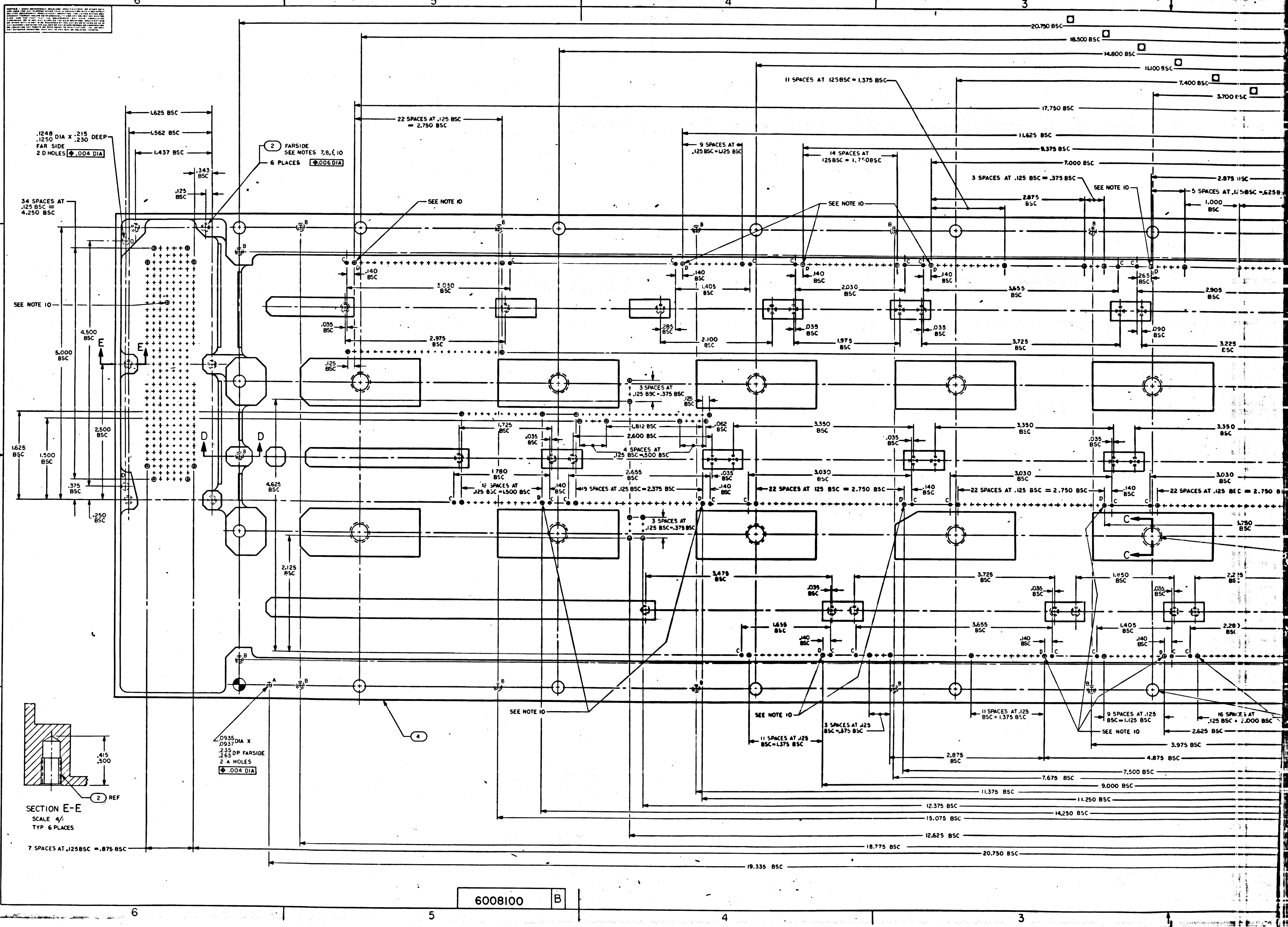
HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO	SIZE	DRAWING NO
80230	J	6008100

SCALE 1/1
SHEET 1 OF 2

6008100 B

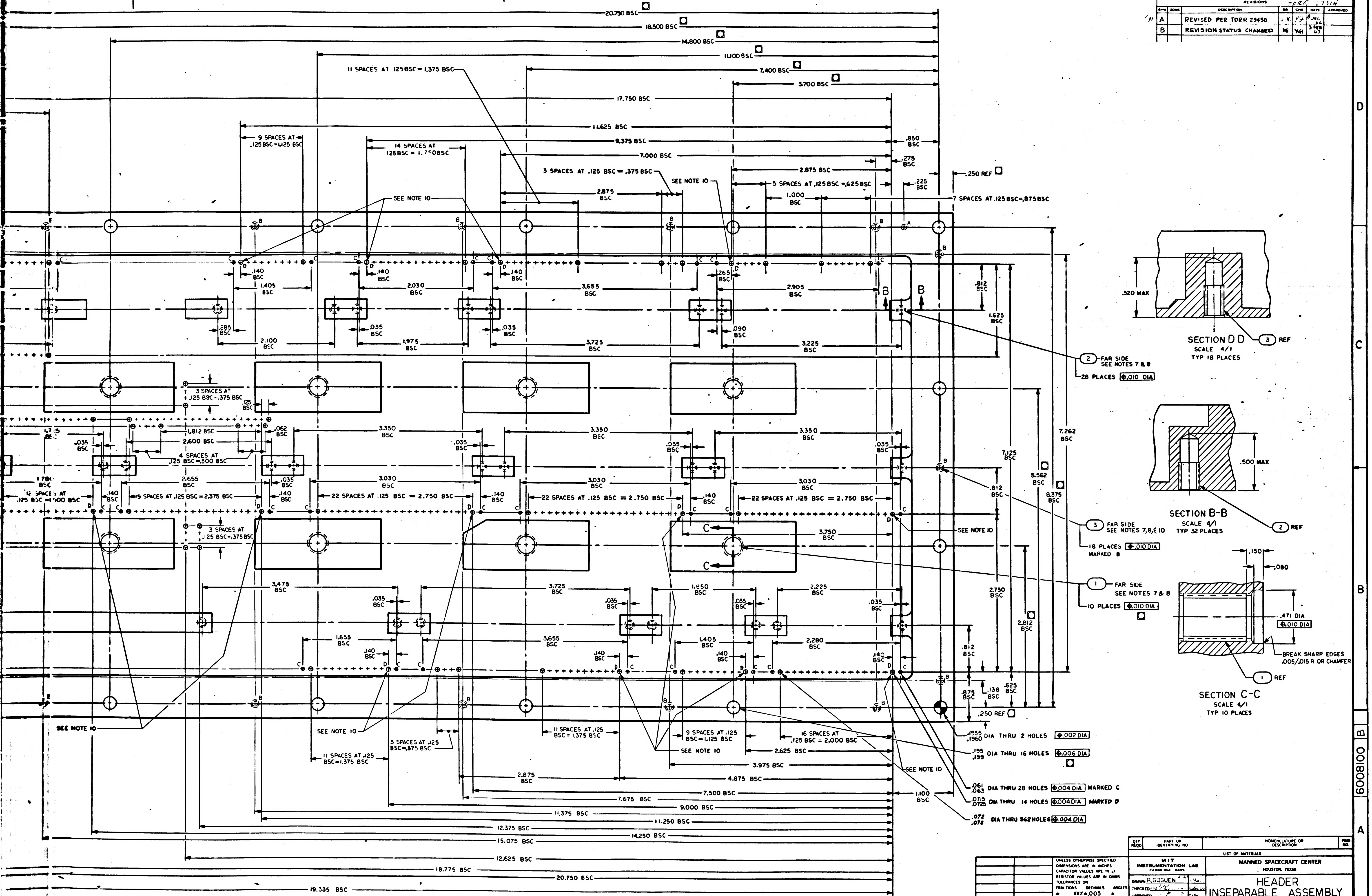
27 6008100



6
5
4
3
D
C
B
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
22 SPACES AT .125 BSC = 2.750 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.343 BSC
.125 BSC
.1248 / .1250 DIA X .215 / .230 DEEP
FAR SIDE
2 D HOLES ⌖ .004 DIA
② FARSIDE
SEE NOTES 7, 8, & 10
6 PLACES ⌖ .006 DIA
34 SPACES AT .125 BSC = 4.250 BSC
5.000 BSC
4.500 BSC
2.500 BSC
1.625 BSC
1.500 BSC
.375 BSC
.250 BSC
E
E
D
D
C
C
A
B
.140 BSC
3.030 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.035 BSC
2.975 BSC
.285 BSC
2.100 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
3 SPACES AT .125 BSC = .375 BSC
1.725 BSC
1.812 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
.062 BSC
3.350 BSC
1.780 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
2.655 BSC
4.625 BSC
2.125 BSC
3.750 BSC
3.475 BSC
1.950 BSC
2.225 BSC
1.656 BSC
2.280 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
2.625 BSC
3.975 BSC
4.875 BSC
2.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125 BSC = .875 BSC
④
.0935 / .0937 DIA X
.235 / .265 DP FARSIDE
2 A HOLES
⌖ .004 DIA
.415 / .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6008100
B

1/6008100

REVISIONS		TDRR 27314				
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 29450	J. K.		8 JUL 66	
B		REVISION STATUS CHANGED			3 FEB 67	



20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
5 SPACES AT .125 BSC = .625 BSC
7 SPACES AT .125 BSC = .875 BSC
22 SPACES AT .125 BSC = 2.750 BSC
19 SPACES AT .125 BSC = 2.375 BSC
16 SPACES AT .125 BSC = 2.000 BSC
4 SPACES AT .125 BSC = .500 BSC
.250 REF
SEE NOTE 10
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
2.750 BSC
2.812 BSC
1.625 BSC
.812 BSC
.850 BSC
.275 BSC
.225 BSC
B
C
D
2 FAR SIDE SEE NOTES 7 & 8
28 PLACES ⊕.010 DIA
3 FAR SIDE SEE NOTES 7, 8, & 10
18 PLACES ⊕.010 DIA MARKED B
1 FAR SIDE SEE NOTES 7 & 8
10 PLACES ⊕.010 DIA
.1955/.1960 DIA THRU 2 HOLES ⊕.002 DIA
.195/.199 DIA THRU 16 HOLES ⊕.006 DIA
.061/.063 DIA THRU 28 HOLES ⊕.004 DIA MARKED C
.0715/.0725 DIA THRU 14 HOLES ⊕.004 DIA MARKED D
.072/.078 DIA THRU 562 HOLES ⊕.004 DIA
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
.520 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
3 REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
2 REF
.150
.080
.471 DIA
⊕.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
SECTION C-C
SCALE 4/1
TYP 10 PLACES
1 REF

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. GOGUEN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

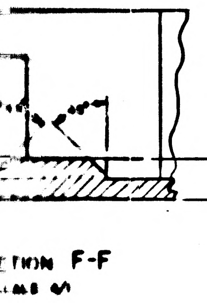
CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6008100
SCALE 2/1		SHEET 2 OF 2

6008100 B

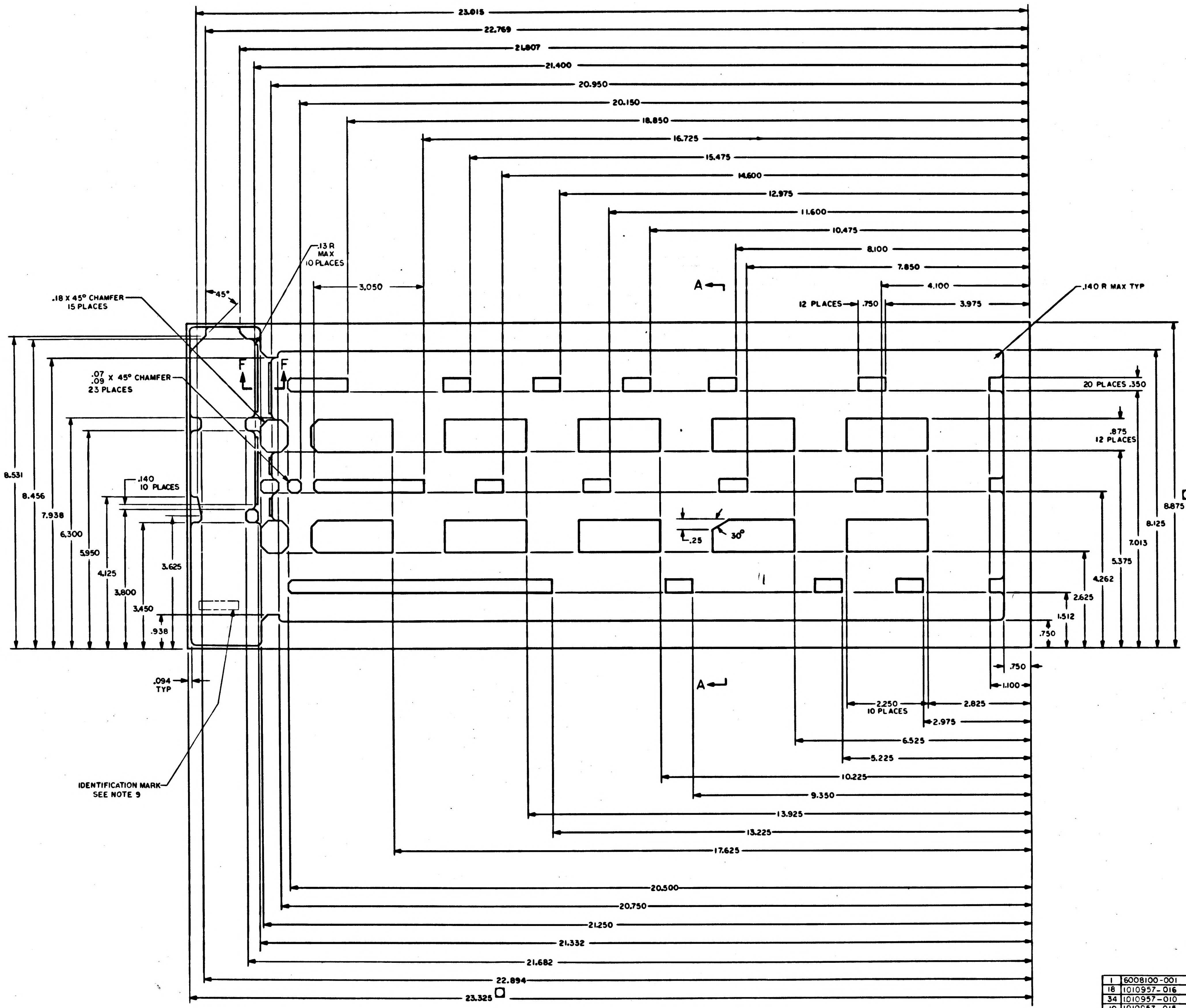
6008100 B

276008100

REVISIONS TDRR 2731-4							
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	



…TION F-F
…ALE 4/1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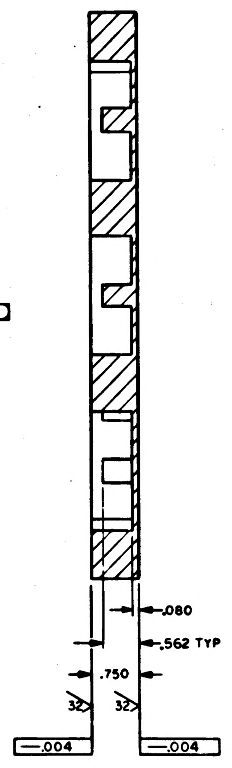
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
3.050
.13 R MAX 10 PLACES
45°
.18 X 45° CHAMFER 15 PLACES
.07 X 45° CHAMFER .09 23 PLACES
.140 R MAX TYP
A
F
F
20 PLACES .350
.875 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.450
3.625
.938
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
IDENTIFICATION MARK SEE NOTE 9
20.500
20.750
21.250
21.332
21.682
22.894
23.325


.080
.562 TYP
.750
32
32
.004
.004

SECTION A-A

…TI STANDARDS PRESCRIBED BY MIL-D-70327
…PER M…-M-26075 AND
…OF THE ALUMINUM
…, EXTRUSIONS AND FORGINGS.
…TO BE .010 MAX
…UNLESS OTHERWISE

…SPECIFIED
…1, CLASS C, UNLESS OTHERWISE SPECIFIED
…MIL-P-8585 COLOR Y
…REMOVE DRIVING TANG.
…MATING WITH SCREW SHALL
…AFTER POST INSTALLATION
…SCREW SHALL BE ENGAGED AND
…INSERT AS FINAL STEP IN

…AFTER ANODIZING, COAT
…MIL-M-3171 TYPE VI, DO NOT EPOXY COAT

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008100-001	HEADER	4
18	1010957-016	INSERT, SCREW THREAD, SELF LOCKING	3
34	1010957-010	INSERT, SCREW THREAD, SELF-LOCKING	2
10	1010957-015	INSERT, SCREW THREAD, SELF-LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007006	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN R. GOGUEN A.A. 3 MAR 66
CHECKED
APPROVED
APPROVED
APPROVED MIT 3-25-66
APPROVED A. C. METZGER MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

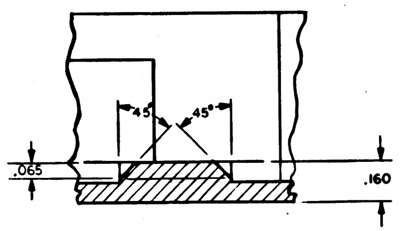
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008100
SCALE 1/1
SHEET 1 OF 2

6008100

MASTER

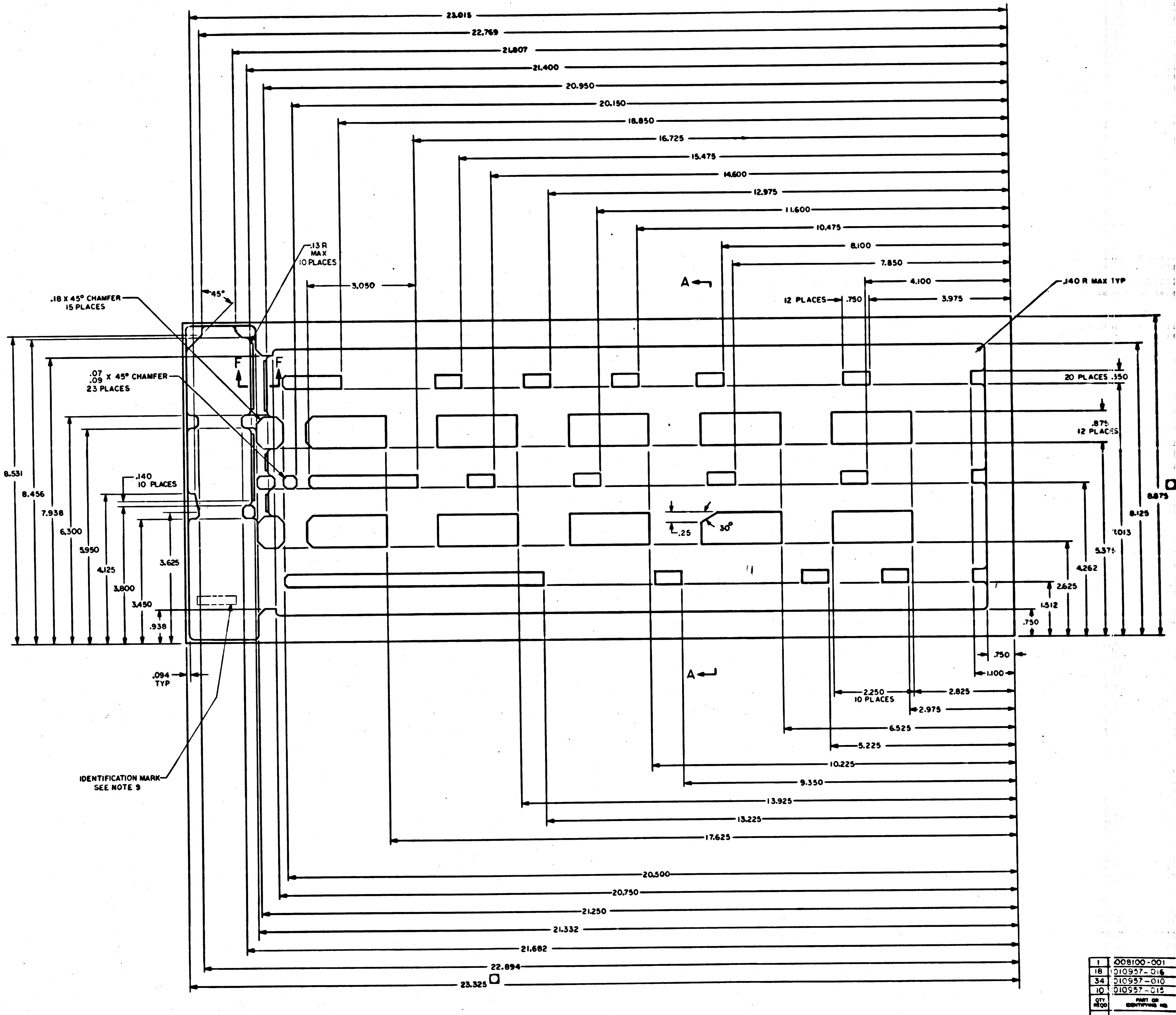
2H

6008100



45°
45°
.065
.160

SECTION F-F
SCALE 4/1



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21.807
21.400
20.950
20.150
18.850
16.725
15.475
14.600
12.975
11.600
10.475
8.100
7.850
4.100
3.975
12 PLACES
.750
.13 R MAX 10 PLACES
3.050
A
.140 R MAX TYP
45°
.18 X 45° CHAMFER 15 PLACES
.07 .09 X 45° CHAMFER 23 PLACES
F
F
20 PLACES .350
.875 12 PLACES
.140 10 PLACES
8.531
8.456
7.938
6.300
5.950
4.125
3.800
3.625
3.450
.938
.25
30°
8.875
8.125
7.013
5.375
4.262
2.625
1.512
.750
.094 TYP
.750
1.100
A
2.250 10 PLACES
2.825
2.975
6.525
5.225
10.225
9.350
13.925
13.225
17.625
IDENTIFICATION MARK SEE NOTE 9
20.500
20.750
21.250
21.332
21.682
22.894
23.325

NOTES.

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESRIBED BY MIL-D-70327
2. MATERIAL. MAGNESIUM ALLOY HK31A, CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS.
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES $\overset{125}{\sqrt{}}$ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C, UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NO. 1,2 AND 3 WITH MIL-P-8585, COLOR Y
8. ◘ INSTALL FIND 1,2&3 WET PER MS33646. REMOVE DRIVING TANG. FOR FIND NO. 3, THE HELICAL INSERT SURFACES MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF HELICOIL INSERT, A STANDARD SCREW SHALL BE ENGAGED AND AND DISENGAGED FULL LENGTH OF HELICOIL INSERT AS FINAL STEP IN CLEANING OF HELICOIL INSERT THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. INDICATED HOLES TO BE FREE OF ANODIZE. AFTER ANODIZING, COAT HOLES PER ND1002040 USING MATERIAL PER MIL-M-3171 TYPE VI, DO NOT EPOXY COAT
11. ◘ THIS DIMENSION IS CONTROLLED BY ICD

QTY REQD	PART OR IDENTIFYING NO.
1	008100-001
18	010957-016
34	010957-010
10	010957-015

NEXT ASSY	USED ON
6007006	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

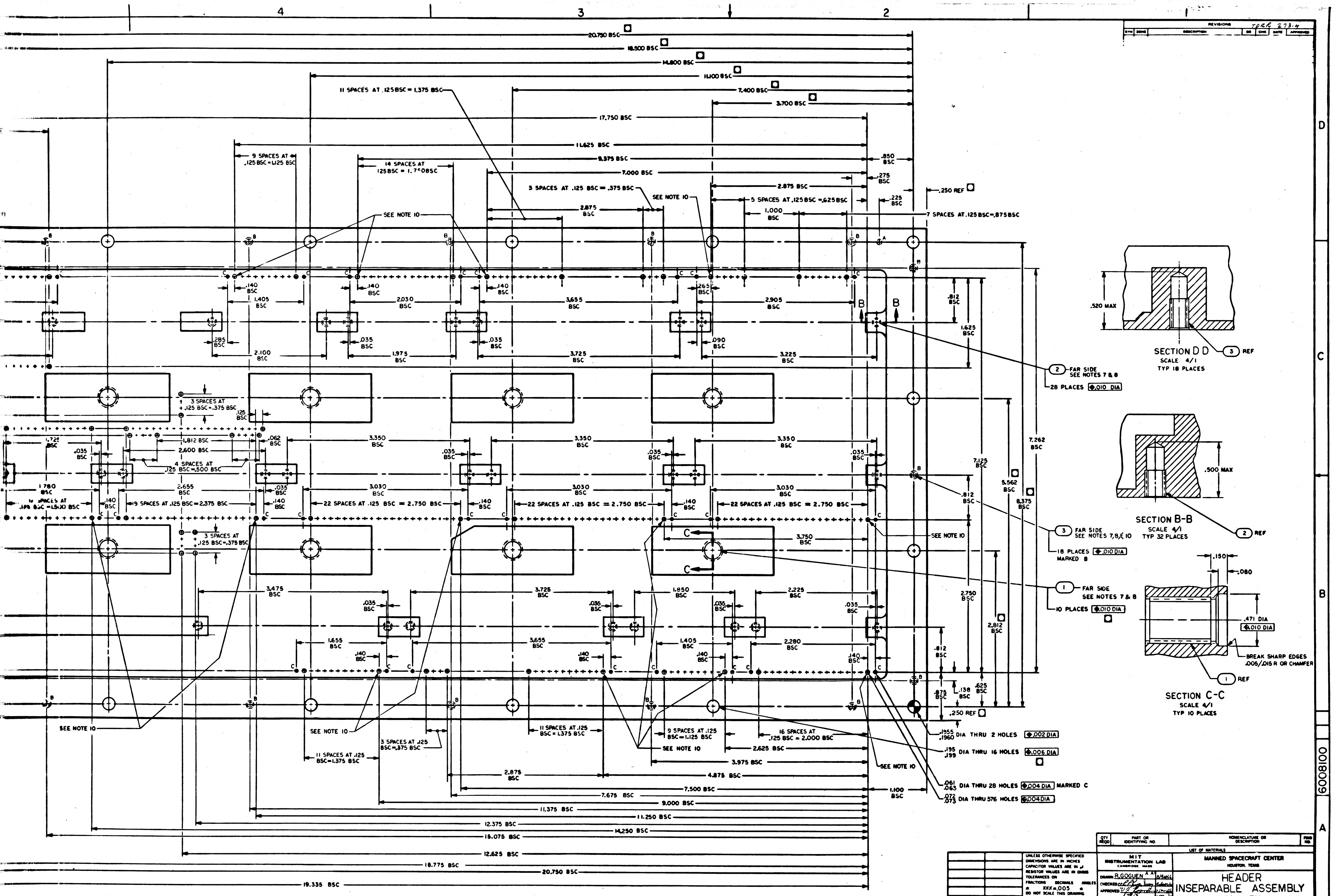
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN R. GOGUEN
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC C. METHIES

MASTER

6008100

2X


4
3
2
D
C
B
A
REVISIONS
SYM
ZONE
DESCRIPTION
BY
CHK
DATE
APPROVED
20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
11 SPACES AT .125 BSC = 1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
3 SPACES AT .125 BSC = .375 BSC
5 SPACES AT .125 BSC = .625 BSC
7 SPACES AT .125 BSC = .875 BSC
SEE NOTE 10
.250 REF
.850 BSC
.275 BSC
.225 BSC
1.000 BSC
.812 BSC
1.625 BSC
7.262 BSC
7.125 BSC
5.562 BSC
8.375 BSC
2.750 BSC
2.812 BSC
.625 BSC
.875 BSC
.138 BSC
.520 MAX
SECTION D D
SCALE 4/1
TYP 18 PLACES
③ REF
.500 MAX
SECTION B-B
SCALE 4/1
TYP 32 PLACES
② REF
.150
.080
.471 DIA
⌖.010 DIA
BREAK SHARP EDGES .005/.015 R OR CHAMFER
① REF
SECTION C-C
SCALE 4/1
TYP 10 PLACES
② FAR SIDE SEE NOTES 7 & 8
28 PLACES ⌖.010 DIA
③ FAR SIDE SEE NOTES 7,8,& 10
18 PLACES ⌖.010 DIA MARKED B
① FAR SIDE SEE NOTES 7 & 8
10 PLACES ⌖.010 DIA
.1955/.1960 DIA THRU 2 HOLES ⌖.002 DIA
.195/.199 DIA THRU 16 HOLES ⌖.006 DIA
.061/.063 DIA THRU 28 HOLES ⌖.004 DIA MARKED C
.072/.073 DIA THRU 576 HOLES ⌖.004 DIA
22 SPACES AT .125 BSC = 2.750 BSC
19 SPACES AT .125 BSC = 2.375 BSC
4 SPACES AT .125 BSC = .500 BSC
3.350 BSC
3.030 BSC
3.750 BSC
3.475 BSC
3.725 BSC
1.850 BSC
2.225 BSC
1.655 BSC
3.655 BSC
1.405 BSC
2.280 BSC
2.030 BSC
2.905 BSC
2.100 BSC
1.975 BSC
3.225 BSC
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
1.100 BSC
6008100

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS XXX ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

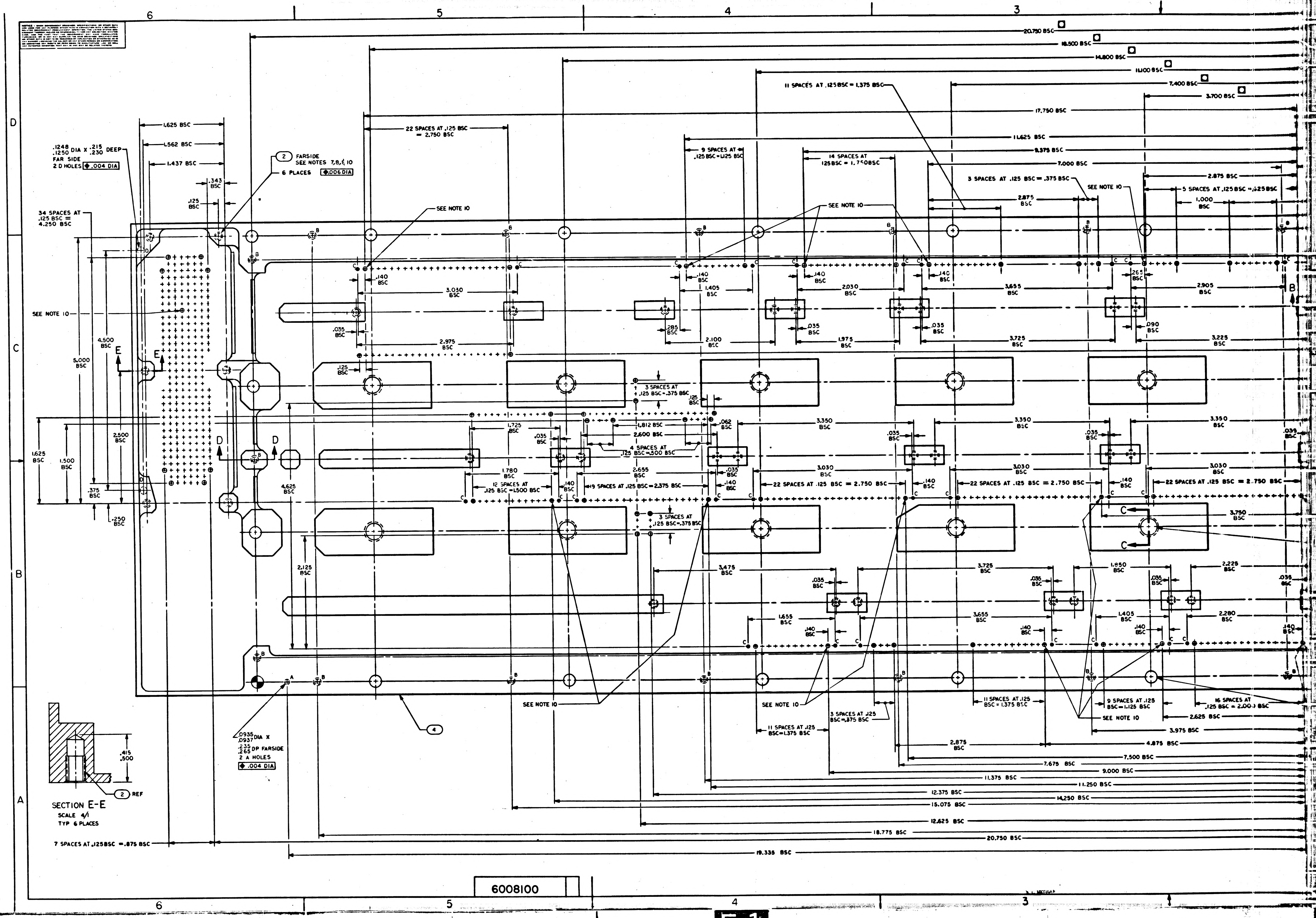
DRAWN R. GOGUEN A.A. 8MAR66
CHECKED
APPROVED V.G.
APPROVED
APPROVED MIT M G Murley 3-25-66
APPROVED A. C. METZGER MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER
INSEPARABLE ASSEMBLY
PSA LEM

CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6008100
SCALE 2/1
SHEET 2 OF 2

6008100

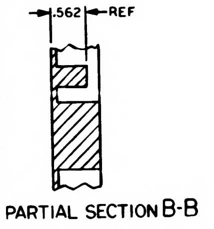


20.750 BSC
18.500 BSC
14.800 BSC
11.100 BSC
7.400 BSC
3.700 BSC
11 SPACES AT .125 BSC = 1.375 BSC
17.750 BSC
11.625 BSC
9.375 BSC
7.000 BSC
2.875 BSC
3 SPACES AT .125 BSC = .375 BSC
SEE NOTE 10
5 SPACES AT .125 BSC = .625 BSC
1.000 BSC
22 SPACES AT .125 BSC = 2.750 BSC
9 SPACES AT .125 BSC = 1.125 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.625 BSC
1.562 BSC
1.437 BSC
.1248 .1250 DIA X .215 .230 DEEP FAR SIDE 2 D HOLES ◈ .004 DIA
② FARSIDE SEE NOTES 7,8,& 10
6 PLACES ◈ .006 DIA
.343 BSC
.125 BSC
34 SPACES AT .125 BSC = 4.250 BSC
SEE NOTE 10
.140 BSC
3.030 BSC
1.405 BSC
2.030 BSC
3.655 BSC
.265 BSC
2.905 BSC
.035 BSC
2.975 BSC
.285 BSC
2.100 BSC
1.975 BSC
3.725 BSC
.090 BSC
3.225 BSC
4.500 BSC
5.000 BSC
E
3 SPACES AT .125 BSC = .375 BSC
3.350 BSC
1.725 BSC
1.812 BSC
.062 BSC
2.600 BSC
4 SPACES AT .125 BSC = .500 BSC
2.500 BSC
1.625 BSC
1.500 BSC
.375 BSC
.250 BSC
D
1.780 BSC
2.655 BSC
12 SPACES AT .125 BSC = 1.500 BSC
19 SPACES AT .125 BSC = 2.375 BSC
4.625 BSC
C
3.750 BSC
2.125 BSC
3.475 BSC
1.850 BSC
2.225 BSC
1.655 BSC
1.405 BSC
2.280 BSC
B
A
④
SEE NOTE 10
11 SPACES AT .125 BSC = 1.375 BSC
3 SPACES AT .125 BSC = .375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
16 SPACES AT .125 BSC = 2.000 BSC
2.625 BSC
3.975 BSC
4.875 BSC
7.500 BSC
7.675 BSC
9.000 BSC
11.375 BSC
11.250 BSC
12.375 BSC
14.250 BSC
15.075 BSC
12.625 BSC
18.775 BSC
20.750 BSC
19.335 BSC
7 SPACES AT .125 BSC = .875 BSC
.0935 .0937 DIA X .235 .265 DP FARSIDE 2 A HOLES ◈ .004 DIA
.415 .500
② REF
SECTION E-E
SCALE 4/1
TYP 6 PLACES
6
5
4
3

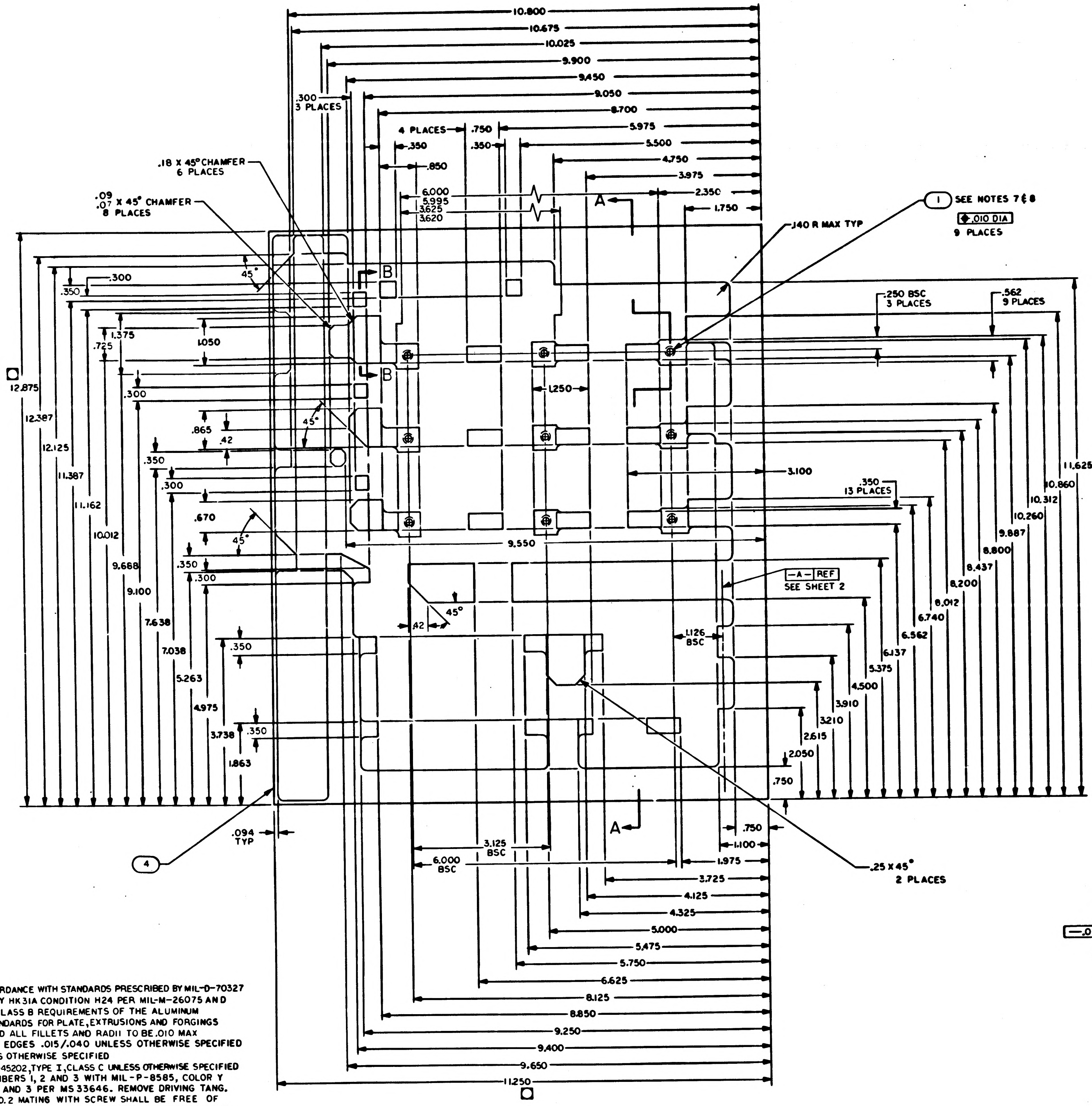
6008100

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 24976						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25057	LAL	RAK	13 Jan 66	WK



PARTIAL SECTION B-B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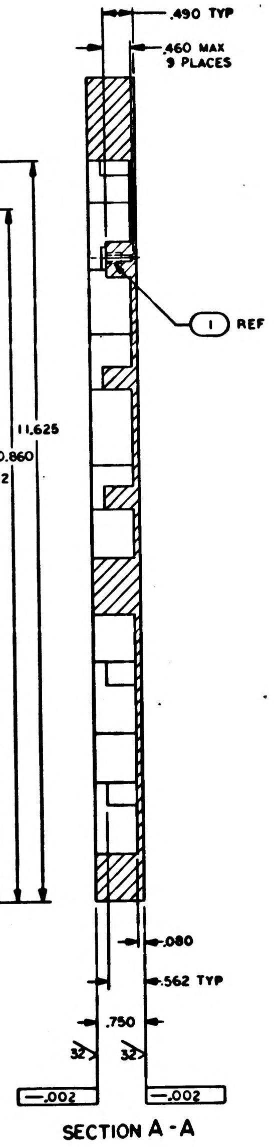
10.675
10.025
9.900
9.450
9.050
8.700
.300
3 PLACES
4 PLACES
.750
5.975
.350
.350
5.500
.850
4.750
3.975
6.000
5.995
3.625
3.620
2.350
1.750
A
.18 X 45° CHAMFER
6 PLACES
.09
.07 X 45° CHAMFER
8 PLACES
.140 R MAX TYP
1
SEE NOTES 7 & 8
.010 DIA
9 PLACES
45°
B
B
.300
.350
1.375
1.050
.725
12.875
12.387
12.125
11.387
11.162
10.012
9.688
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.300
.865
.42
45°
.350
.300
.670
45°
.350
.300
1.250
9.550
.42
45°
.350
.350
.250 BSC
3 PLACES
.562
9 PLACES
3.100
.350
13 PLACES
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
-A- REF
SEE SHEET 2
1.126
BSC
.094
TYP
4
A
.750
1.100
1.975
3.125
BSC
6.000
BSC
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
9.250
9.400
9.650
11.250
.25 X 45°
2 PLACES


.490 TYP
.460 MAX
9 PLACES
1
REF
.080
.562 TYP
.750
32
32
-.002
-.002

SECTION A-A

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY HK31A CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. ◻ INSTALL FIND NUMBERS 1, 2 AND 3 PER MS33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED B AND E SHALL BE FREE FROM ANODIZE. IRIDITE HOLES PER ND1002040
11. ◻ THIS DIMENSION IS CONTROLLED BY LID-280-10004

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008101-001	HEADER	4
4	1010957-015	INSERT, SCREW THREAD, SELF LOCKING	3
20	1010957-016	INSERT, SCREW THREAD, SELF LOCKING	2
55	1010957-010	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

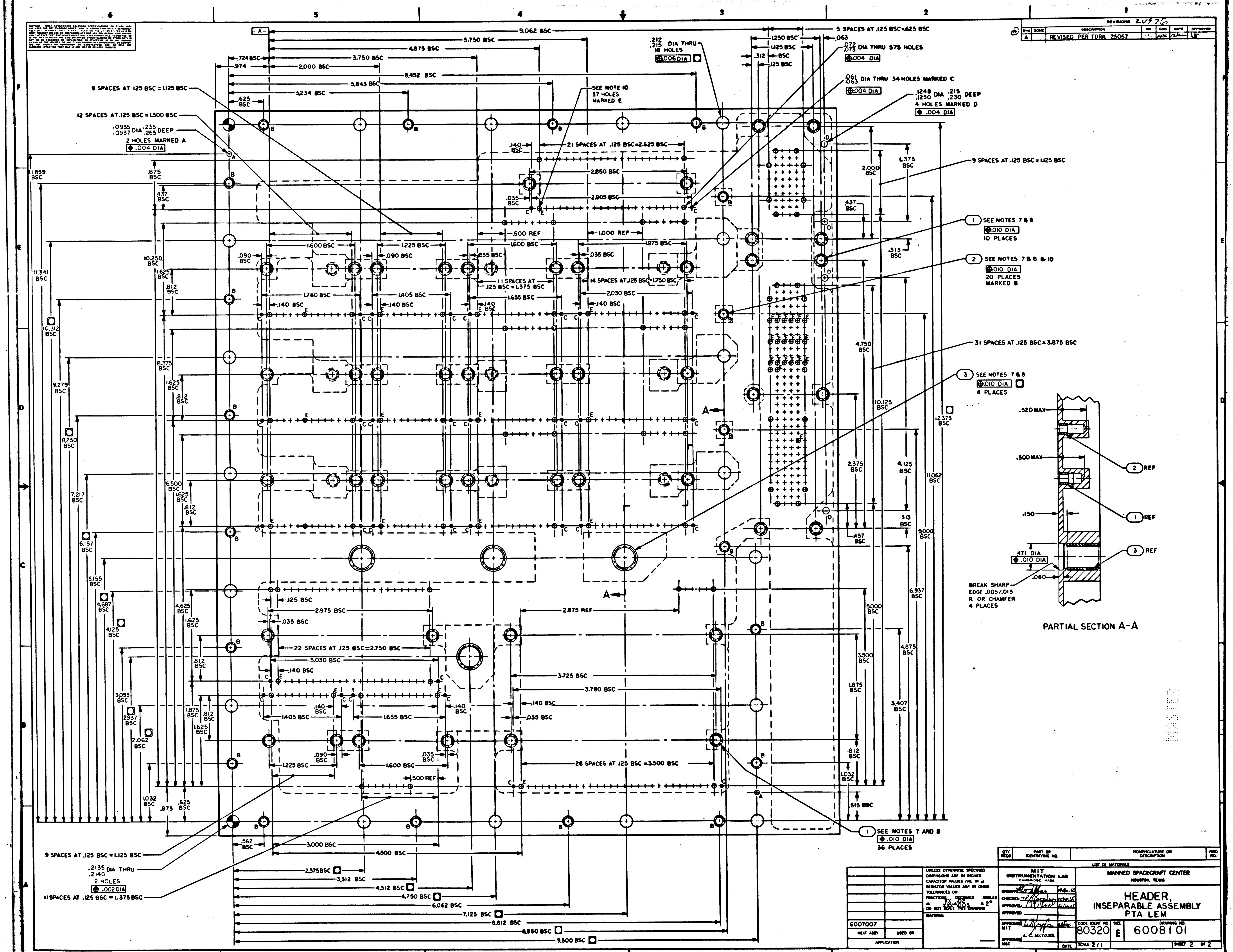
DRAWN L. Pallin
CHECKED R. Kenney
APPROVED
APPROVED
APPROVED MIT W. Kupfer A. C. METZGER
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
INSEPARABLE ASSEMBLY
PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008101
SCALE 1/1
SHEET 1 OF 2

6008101 A


-A-
9.062 BSC
5.750 BSC
4.875 BSC
.724 BSC
3.750 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935 .0937 DIA .235 .265 DEEP
2 HOLES MARKED A
.004 DIA
SEE NOTE 10
37 HOLES MARKED E
.212 .215 DIA THRU
18 HOLES
.006 DIA
1.250 BSC
1.125 BSC
.312
BSC
.125 BSC
.063
5 SPACES AT .125 BSC = .625 BSC
.072 .075 DIA THRU 575 HOLES
.004 DIA
.061 .063 DIA THRU 34 HOLES MARKED C
.004 DIA
.1248 .1250 DIA .215 .230 DEEP
4 HOLES MARKED D
.004 DIA
.140 BSC
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
.035 BSC
2.000 BSC
1.375 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.437 BSC
1.859 BSC
.875 BSC
.437 BSC
11.341 BSC
10.250 BSC
1.625 BSC
.812 BSC
.500 REF
1.000 REF
1.600 BSC
1.225 BSC
1.600 BSC
1.975 BSC
.090 BSC
.090 BSC
.035 BSC
.035 BSC
11 SPACES AT .125 BSC = 1.375 BSC
14 SPACES AT .125 BSC
1.750 BSC
1.780 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
.140 BSC
.140 BSC
.140 BSC
.313 BSC
① SEE NOTES 7 & 8
.010 DIA
10 PLACES
② SEE NOTES 7 & 8 & 10
.010 DIA
20 PLACES
MARKED B
10.312 BSC
9.279 BSC
8.375 BSC
1.625 BSC
.812 BSC
4.750 BSC
31 SPACES AT .125 BSC = 3.875 BSC
③ SEE NOTES 7 & 8
.010 DIA
4 PLACES
A
10.125 BSC
12.375 BSC
8.250 BSC
7.217 BSC
6.500 BSC
1.625 BSC
.812 BSC
2.375 BSC
4.125 BSC
11.062 BSC
.313 BSC
.437 BSC
9.000 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.625 BSC
1.625 BSC
4.125 BSC
A
.125 BSC
2.975 BSC
2.875 REF
.035 BSC
5.000 BSC
6.937 BSC
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
.812 BSC
3.500 BSC
4.875 BSC
.140 BSC
3.725 BSC
3.780 BSC
3.093 BSC
2.937 BSC
1.875 BSC
.812 BSC
1.625 BSC
1.405 BSC
.140 BSC
1.655 BSC
.140 BSC
.140 BSC
.035 BSC
1.875 BSC
3.407 BSC
2.062 BSC
.090 BSC
.035 BSC
1.225 BSC
1.600 BSC
28 SPACES AT .125 BSC = 3.500 BSC
.812 BSC
1.032 BSC
.500 REF
1.032 BSC
.875
.625 BSC
.515 BSC
.562 BSC
3.000 BSC
4.500 BSC
9 SPACES AT .125 BSC = 1.125 BSC
.2135 .2140 DIA THRU
2 HOLES
.002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.950 BSC
9.500 BSC
① SEE NOTES 7 AND 8
.010 DIA
36 PLACES
.520 MAX
.500 MAX
.150
.471 DIA
.010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
② REF
① REF
③ REF
PARTIAL SECTION A-A
A B C D E F
1 2 3 4 5 6

REVISIONS 24976						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 25057		EPK	15 Jan	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

6007007	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ±.02 .XXX ±.005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED R. P. Bur
APPROVED
APPROVED
APPROVED MIT A. C. METZGER
APPROVED MSC
DATE

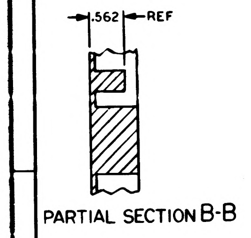
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEADER,
INSEPARABLE ASSEMBLY
PTA LEM

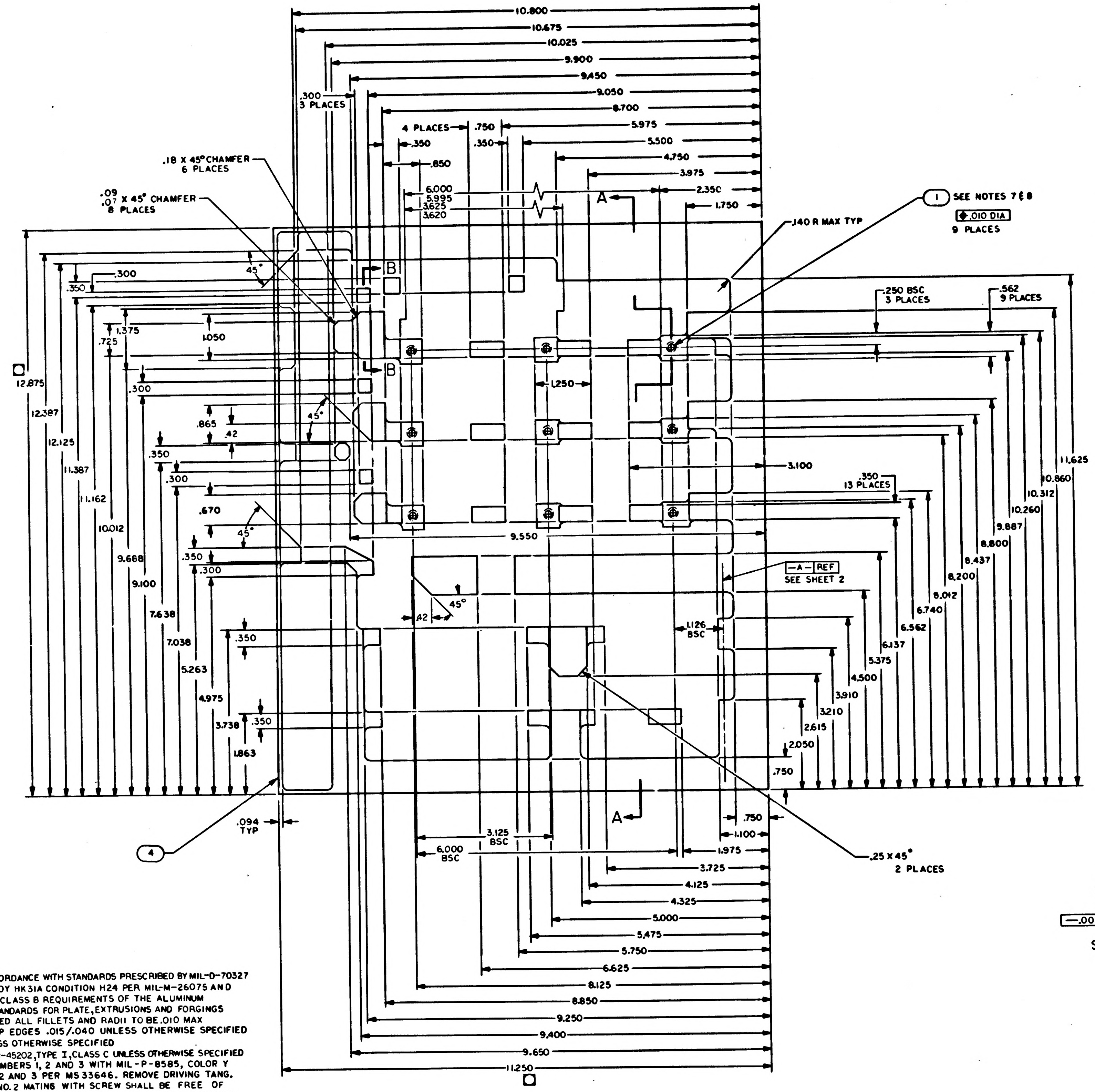
CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008101
SCALE 2/1
SHEET 2 OF 2

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 28976						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



PARTIAL SECTION B-B



10.800
10.675
10.025
9.900
9.450
9.050
8.700
.300
3 PLACES
4 PLACES
.750
5.975
.350
.350
5.500
.850
4.750
3.975
6.000
5.995
3.625
3.620
2.350
1.750
A
.18 X 45° CHAMFER
6 PLACES
.09
.07 X 45° CHAMFER
8 PLACES
.140 R MAX TYP
1
SEE NOTES 7 & 8
⌖ .010 DIA
9 PLACES
45°
B
B
.300
.350
1.375
.725
1.050
.300
12.875
12.387
12.125
11.387
11.162
10.012
9.688
9.100
7.638
7.038
5.263
4.975
3.738
1.863
.865
.42
.350
.300
.670
45°
.350
.300
1.250
45°
.250 BSC
3 PLACES
.562
9 PLACES
11.625
10.860
10.312
10.260
9.887
8.800
8.437
8.200
8.012
6.740
6.562
6.137
5.375
4.500
3.910
3.210
2.615
2.050
.750
3.100
.350
13 PLACES
9.550
-A- REF
SEE SHEET 2
.42
45°
.350
.350
1.126
BSC
4
.094
TYP
A
.750
1.100
1.975
3.125
BSC
6.000
BSC
3.725
4.125
4.325
5.000
5.475
5.750
6.625
8.125
8.850
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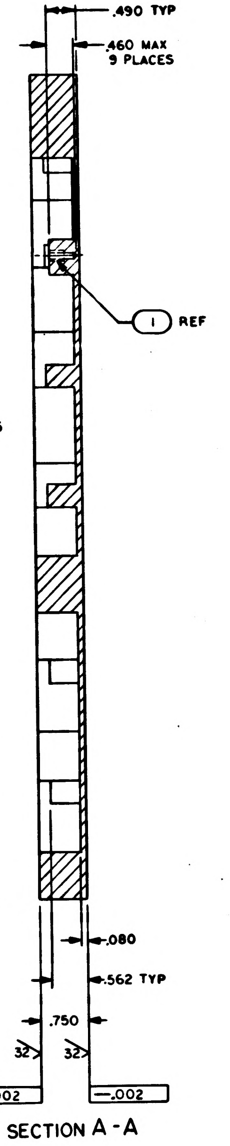
9.400
9.650
11.250
.25 X 45°
2 PLACES



.490 TYP
.460 MAX
9 PLACES
1
REF
.080
.562 TYP
.750
32
32
—.002
—.002

SECTION A-A

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM ALLOY HK31A CONDITION H24 PER MIL-M-26075 AND CAPABLE OF MEETING THE CLASS B REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARDS FOR PLATE, EXTRUSIONS AND FORGINGS
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .015/.040 UNLESS OTHERWISE SPECIFIED
5. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C UNLESS OTHERWISE SPECIFIED
7. COAT THREADS OF FIND NUMBERS 1, 2 AND 3 WITH MIL-P-8585, COLOR Y
8. ▢ INSTALL FIND NUMBERS 1, 2 AND 3 PER MS33646. REMOVE DRIVING TANG. THE SURFACES OF FIND NO. 2 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 2, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 2 AS FINAL STEP IN CLEANING OF FIND NO. 2 THREADS
9. IDENTIFY WITH PART NO. PER ND1002019
10. HOLES MARKED B AND E SHALL BE FREE FROM ANODIZE. IRIDITE HOLES PER ND1002040
11. ▢ THIS DIMENSION IS CONTROLLED BY LID-280-10004

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	6008001-001	HEADER	4
4	1010957-015	INSERT, SCREW THREAD, SELF LOCKING	3
20	1010957-016	INSERT, SCREW THREAD, SELF LOCKING	2
55	1010957-010	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
6007007	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .02 .XXX ± .005 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT
A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

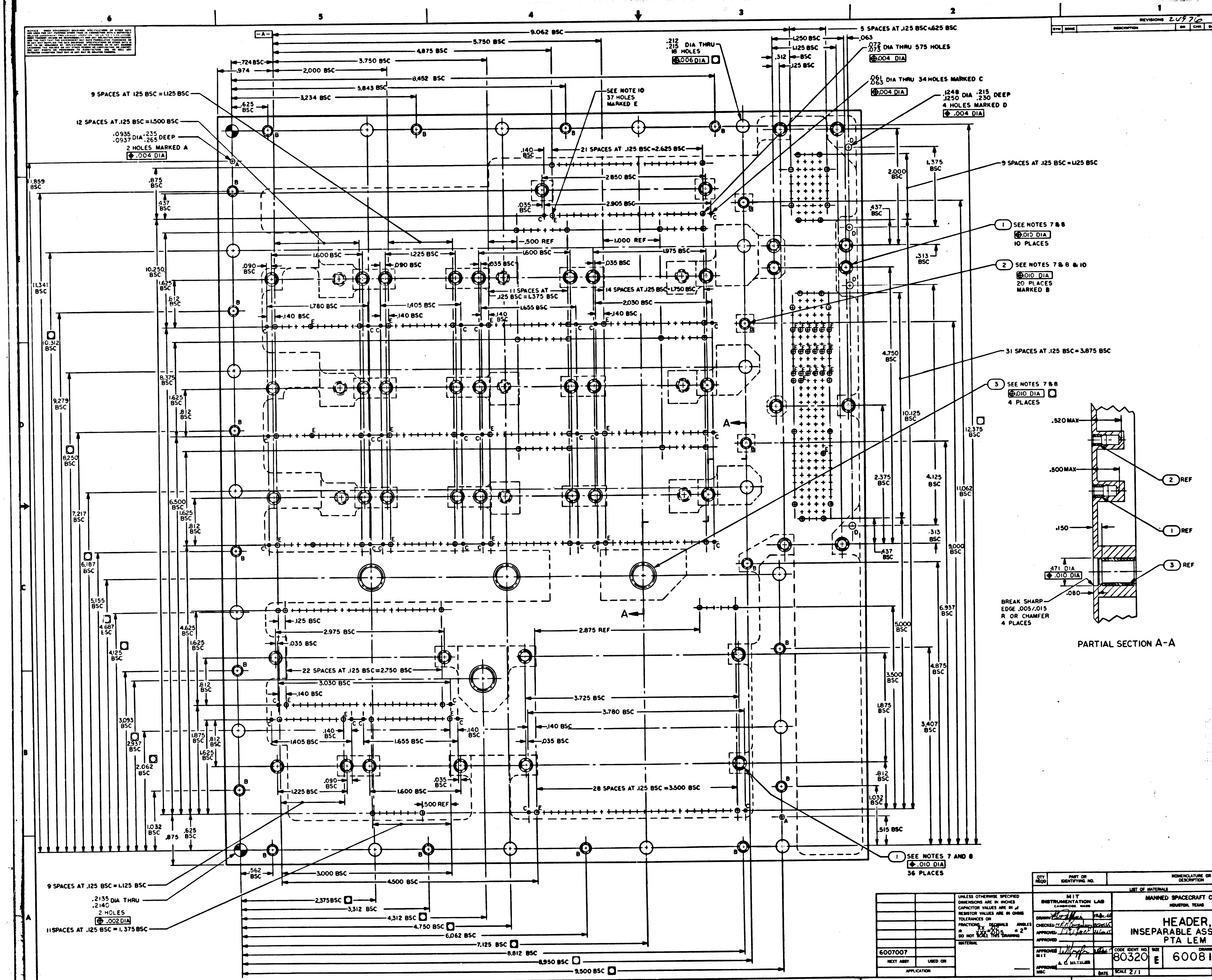
HEADER,
INSEPARABLE ASSEMBLY
PTA LEM

CODE IDENT NO.	SIZE	DRAWING NO.
80320	E	6008101
SCALE 1/1		SHEET 1 OF 2

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 24976

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


-A-
9.062 BSC
5.750 BSC
4.875 BSC
3.750 BSC
.724 BSC
.974
2.000 BSC
8.452 BSC
5.843 BSC
3.234 BSC
.625 BSC
9 SPACES AT .125 BSC = 1.125 BSC
12 SPACES AT .125 BSC = 1.500 BSC
.0935 .0937 DIA .235 .265 DEEP
2 HOLES MARKED A
⌖ .004 DIA
SEE NOTE 10
37 HOLES MARKED E
.212 .215 DIA THRU
16 HOLES
⌖ .006 DIA
5 SPACES AT .125 BSC = .625 BSC
1.250 BSC
1.125 BSC
.312
BSC
.125 BSC
.063
.072 .073 DIA THRU 575 HOLES
⌖ .004 DIA
.061 .063 DIA THRU 34 HOLES MARKED C
⌖ .004 DIA
.1248 .1250 DIA .215 .230 DEEP
4 HOLES MARKED D
⌖ .004 DIA
21 SPACES AT .125 BSC = 2.625 BSC
2.850 BSC
2.905 BSC
.500 REF
1.000 REF
1.600 BSC
1.225 BSC
1.975 BSC
.090 BSC
.035 BSC
11 SPACES AT .125 BSC = 1.375 BSC
14 SPACES AT .125 BSC = 1.750 BSC
1.780 BSC
1.405 BSC
1.655 BSC
2.030 BSC
.140 BSC
9 SPACES AT .125 BSC = 1.125 BSC
2.000 BSC
1.375 BSC
.437 BSC
.313 BSC
① SEE NOTES 7 & 8
⌖ .010 DIA
10 PLACES
② SEE NOTES 7 & 8 & 10
⌖ .010 DIA
20 PLACES
MARKED B
31 SPACES AT .125 BSC = 3.875 BSC
4.750 BSC
③ SEE NOTES 7 & 8
⌖ .010 DIA
4 PLACES
10.125 BSC
12.375 BSC
2.375 BSC
4.125 BSC
11.062 BSC
9.000 BSC
6.937 BSC
5.000 BSC
4.875 BSC
3.500 BSC
1.875 BSC
3.407 BSC
.812 BSC
1.032 BSC
.515 BSC
1.859 BSC
11.341 BSC
10.312 BSC
10.250 BSC
9.279 BSC
8.375 BSC
8.250 BSC
7.217 BSC
6.500 BSC
6.187 BSC
5.155 BSC
4.687 BSC
4.625 BSC
4.125 BSC
3.093 BSC
2.937 BSC
2.062 BSC
1.625 BSC
.875 BSC
.437 BSC
A
A
.125 BSC
2.975 BSC
.035 BSC
2.875 REF
22 SPACES AT .125 BSC = 2.750 BSC
3.030 BSC
3.725 BSC
3.780 BSC
1.405 BSC
1.655 BSC
1.225 BSC
1.600 BSC
.500 REF
.090 BSC
28 SPACES AT .125 BSC = 3.500 BSC
① SEE NOTES 7 AND 8
⌖ .010 DIA
36 PLACES
9 SPACES AT .125 BSC = 1.125 BSC
.2135 .2140 DIA THRU
2 HOLES
⌖ .002 DIA
11 SPACES AT .125 BSC = 1.375 BSC
.562 BSC
3.000 BSC
4.500 BSC
2.375 BSC
3.312 BSC
4.312 BSC
4.750 BSC
6.062 BSC
7.125 BSC
8.812 BSC
8.950 BSC
9.500 BSC
.520 MAX
.500 MAX
.150
② REF
① REF
③ REF
.471 DIA
⌖ .010 DIA
.080
BREAK SHARP EDGE .005/.015 R OR CHAMFER 4 PLACES
PARTIAL SECTION A-A
6008101

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS .XX ± .01 .XXX ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY	USED ON
6007007	

APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED
APPROVED MIT A. C. METZGER
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

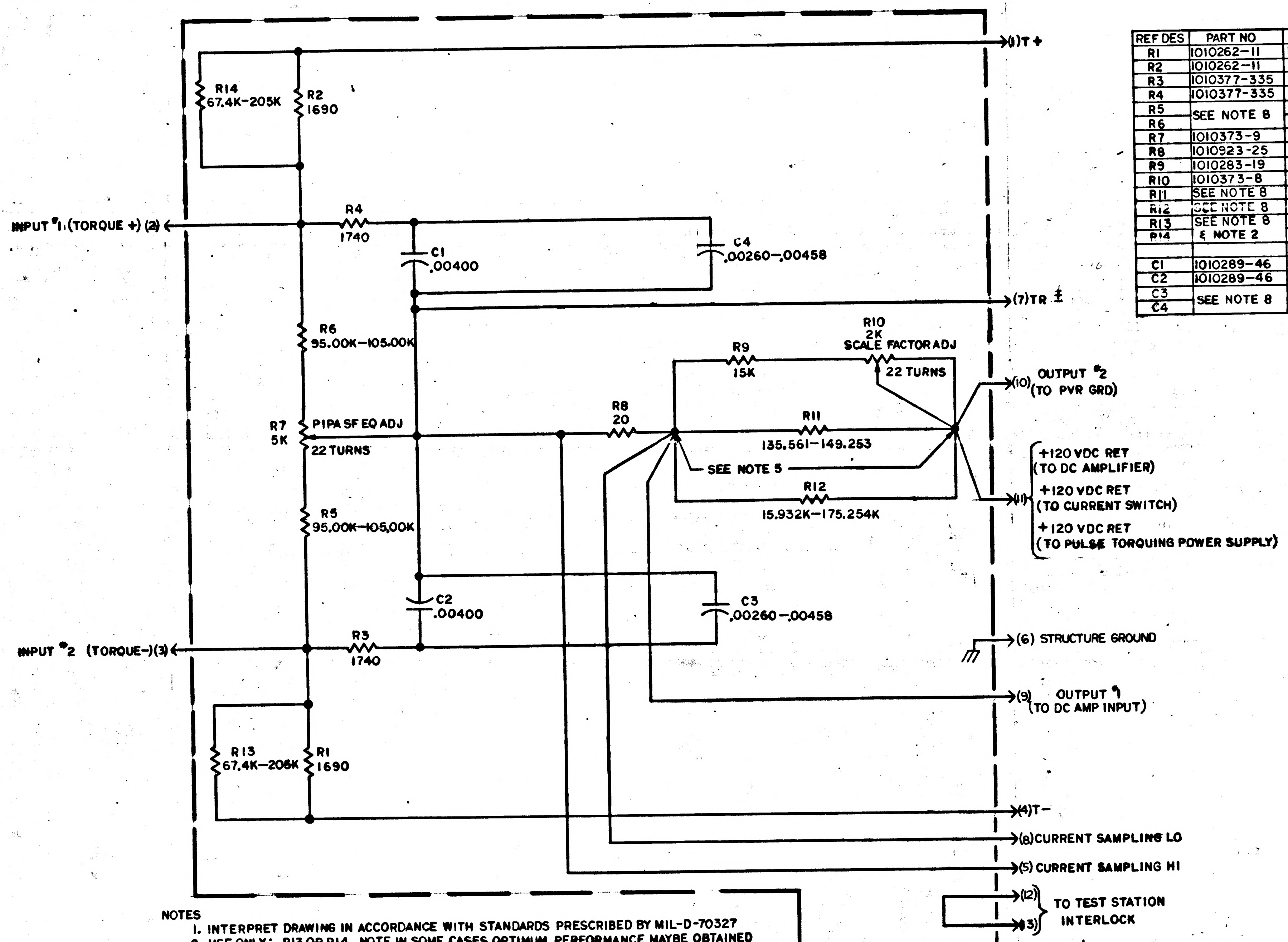
HEADER, INSEPARABLE ASSEMBLY PTA LEM

CODE IDENT NO. 80320
SIZE E
DRAWING NO. 6008101
SCALE 2/1
SHEET 2 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16264	7/9/65	LTB UK

REVISIONS 14/7/0


R14
67.4K–205K
R2
1690
(1)T+
INPUT #1 (TORQUE +) (2)
R4
1740
C1
.00400
C4
.00260–.00458
(7)TR ±
R6
95.00K–105.00K
R10
2K
SCALE FACTOR ADJ
22 TURNS
R9
15K
(10) OUTPUT #2
(TO PVR GRD)
R7
5K
PIPA SF EQ ADJ
22 TURNS
R8
20
R11
135.561–149.253
SEE NOTE 5
R12
15.932K–175.254K
+120 VDC RET
(TO DC AMPLIFIER)
(11)
+120 VDC RET
(TO CURRENT SWITCH)
+120 VDC RET
(TO PULSE TORQUING POWER SUPPLY)
R5
95.00K–105.00K
C2
.00400
C3
.00260–.00458
(6) STRUCTURE GROUND
INPUT #2 (TORQUE–)(3)
R3
1740
(9) OUTPUT #1
(TO DC AMP INPUT)
R13
67.4K–206K
R1
1690
(4)T–
(8)CURRENT SAMPLING LO
(5) CURRENT SAMPLING HI
(12)
(13)
TO TEST STATION
INTERLOCK

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
R1	1010262–11	RESISTOR	1690	±1%	10W
R2	1010262–11		1690	±1%	10W
R3	1010377–335		1740	±1%	1/10W
R4	1010377–335		1740	±1%	1/10W
R5	SEE NOTE 8			±0.1%	1/10W
R6				±0.1%	1/10W
R7	1010373–9		5K	±5%	1W
R8	1010923–25		20	±0.01%	1W
R9	1010283–19		15K	±0.1%	1/10W
R10	1010373–8		2K	±5%	1W
R11	SEE NOTE 8			±0.01%	1W
R12	SEE NOTE 8			±0.1%	1/10W
R13	SEE NOTE 8 & NOTE 2			±1%	1/4W
R14		RESISTOR		±1%	1/4W
C1	1010289–46	CAPACITOR	.00400	±1%	200V
C2	1010289–46	CAPACITOR	.00400	±1%	200V
C3	SEE NOTE 8	CAPACITOR		±1%	200V
C4		CAPACITOR		±1%	200V

REF DWG
LEM PIPA CALIBRATION ASSY
DWG NO. 6007105

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. USE ONLY: R13 OR R14. NOTE IN SOME CASES OPTIMUM PERFORMANCE MAYBE OBTAINED WITH R13 = R14 EQUAL TO INFINITY
3. UNLESS OTHERWISE SPECIFIED RESISTOR VALUES ARE EXPRESSED IN OHMS
4. UNLESS OTHERWISE SPECIFIED CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS
5. WIRING TO BE TO A SINGLE POINT AS SHOWN
6. LEADS TO TERMINAL (9) OUTPUT NO. 1 & TERMINAL (10) PVR GND MUST BE CONNECTED TO R11
7. THE SUM OF R5 & R6 MUST EQUAL 200K REFER TO SHEET 2, THIS DWG FOR PERMISSIBLE VALUES
8. VALUE OF R5, R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED FROM APPROPRIATE CHART PER ATP

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN W.F. Troy DATE 9/28/64
CHECKED J.M. BLYSKAL
APPROVAL S. TOMER 12/2/64
APPROVAL
NASA APPROVAL W. J. R[illegible] 12-8-64
MIT APPROVAL 8 Dec 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
LEM PIPA CALIBRATION

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 6010000
SCALE
WT
SHEET 1 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 14710			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16264	4/7/65	LTB GH

R5, R6

PART NO	VALUE
1010377-8	95.00K
-9	96.25K
-10	97.50K
-11	98.75K
-12	100.00K
-13	101.25K
-14	102.50K
-15	103.75K
1010377-16	105.00K

R11

PART NO	VALUE
1010923-26	135.561
-27	136.816
-28	138.095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.298
-35	147.761
1010923-36	149.253

R12

PART NO	VALUE
SEE NOTE	INFINITY
1010283-20	15.932K
-21	17.525K
-22	19.473K
-23	21.907K
-24	25.036K
-25	29.209K
-26	35.051K
-27	43.814K
-28	58.418K
-29	87.627K
1010283-30	175.254K

R13 OR R14

PART NO	VALUE
SEE NOTE	INFINITY
1010251-21	67.4K
1010251-40	102K
1010251-41	205K

C3, C4

PART NO	VALUE
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN W. F. Tracy DATE 9/30/64
CHECKED P.J. Lynch 12-2-64
APPROVAL J. Sitomer 12/2/64
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL 12/3/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

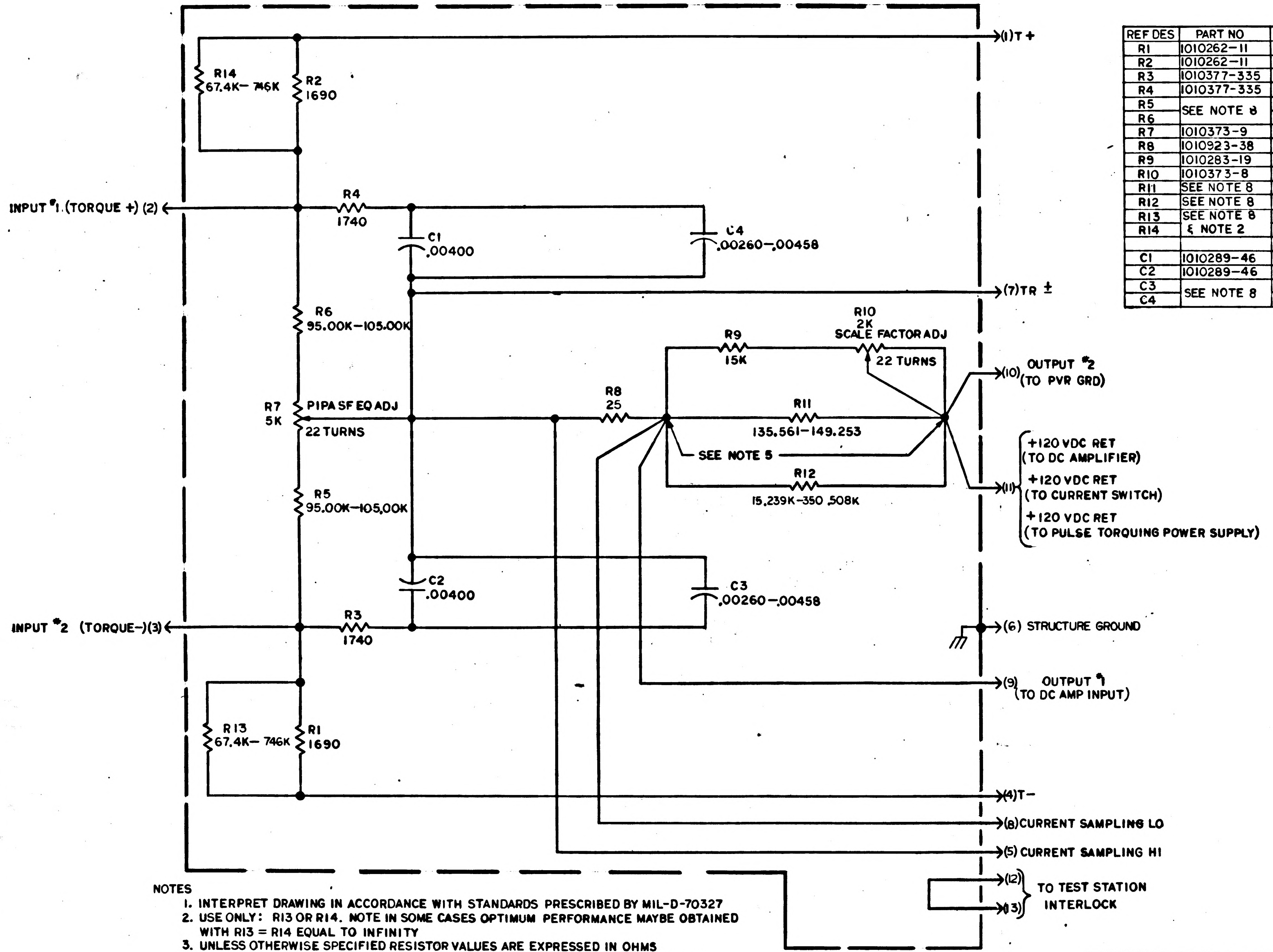
SCHEMATIC
LEM PIPA CALIBRATION

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 6010000
SCALE
WT
SHEET 2 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 14710

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16264	4/9/65	LTB WH
B	REVISED PER TDRR 18515	9APR65	WH
C	REVISED PER TDRR 18967	10MAY65	WH


(1)T +
R14 67.4K– 746K
R2 1690
INPUT #1 (TORQUE +) (2)
R4 1740
C1 .00400
C4 .00260–.00458
(7)TR ±
R6 95.00K–105.00K
R10 2K SCALE FACTOR ADJ 22 TURNS
R9 15K
(10) OUTPUT #2 (TO PVR GRD)
R7 5K PIPA SF EQ ADJ 22 TURNS
R8 25
R11 135.561–149.253
SEE NOTE 5
R12 15.239K–350.508K
+120 VDC RET (TO DC AMPLIFIER)
+120 VDC RET (TO CURRENT SWITCH)
+120 VDC RET (TO PULSE TORQUING POWER SUPPLY)
(11)
R5 95.00K–105.00K
C2 .00400
C3 .00260–.00458
INPUT #2 (TORQUE–)(3)
R3 1740
(6) STRUCTURE GROUND
(9) OUTPUT #1 (TO DC AMP INPUT)
R13 67.4K– 746K
R1 1690
(4)T–
(8)CURRENT SAMPLING LO
(5) CURRENT SAMPLING HI
(12)
(13)
TO TEST STATION INTERLOCK

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
R1	1010262-11	RESISTOR	1690	±1%	10W
R2	1010262-11		1690	±1%	10W
R3	1010377-335		1740	±1%	1/10W
R4	1010377-335		1740	±1%	1/10W
R5	SEE NOTE 8			±0.1%	1/10W
R6				±0.1%	1/10W
R7	1010373-9		5K	±5%	1W
R8	1010923-38		25	±0.01%	1W
R9	1010283-19		15K	±0.1%	1/10W
R10	1010373-8		2K	±5%	1W
R11	SEE NOTE 8			±0.01%	1W
R12	SEE NOTE 8			±0.1%	1/10W
R13	SEE NOTE 8			±1%	1/4W
R14	& NOTE 2	RESISTOR		±1%	1/4W
C1	1010289-46	CAPACITOR	.00400	±1%	200V
C2	1010289-46	CAPACITOR	.00400	±1%	200V
C3	SEE NOTE 8	CAPACITOR		±1%	200V
C4		CAPACITOR		±1%	200V

REF DWG
LEM PIPA CALIBRATION ASSY
DWG NO. 6007105

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. USE ONLY: R13 OR R14. NOTE IN SOME CASES OPTIMUM PERFORMANCE MAYBE OBTAINED WITH R13 = R14 EQUAL TO INFINITY
3. UNLESS OTHERWISE SPECIFIED RESISTOR VALUES ARE EXPRESSED IN OHMS
4. UNLESS OTHERWISE SPECIFIED CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS
5. WIRING TO BE TO A SINGLE POINT AS SHOWN
6. LEADS TO TERMINAL (9) OUTPUT NO. 1 & TERMINAL (10) PVR GND MUST BE CONNECTED TO R11
7. THE SUM OF R5 & R6 MUST EQUAL 200K REFER TO SHEET 2, THIS DWG FOR PERMISSIBLE VALUES
8. VALUE OF R5, R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED FROM APPROPRIATE CHART PER ATP

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN W.F. Troy DATE 9/30/64
CHECKED J.M. Blyshak
APPROVAL J. Stomer 12/2/64
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL 12/2/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
LEM PIPA CALIBRATION

CODE IDENT NO. 80230
SIZE D
NASA DRAWING NO. 6010000
SCALE
WT
SHEET 1 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 14770

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 16264	3/7/65	LTB
B	REVISED PER TDRR 18515	[illegible]APR65	
C	REVISED PER TDRR 18967	18MAY65	

R5, R6

PART NO	VALUE
1010377-8	95.00K
-9	96.25K
-10	97.50K
-11	98.75K
-12	100.00K
-13	101.25K
-14	102.50K
-15	103.75K
1010377-16	105.00K

R11

PART NO	VALUE
1010923-26	135.561
-27	136.816
-28	138.095
-29	139.397
-30	140.725
-31	142.078
-32	143.457
-33	144.864
-34	146.29[illegible]
-35	147.761
1010923-36	149.253

R12

PART NO	VALUE
SEE NOTE	INFINITY
1010283-20	15.932K
-21	17.525K
-22	19.473K
-23	21.907K
-24	25.036K
-25	29.209K
-26	35.051K
-27	43.814K
-28	58.418K
-29	87.627K
-30	175.254K
-43	350.508K
-44	116.836K
-45	70.102K
-46	50.073K
-47	38.945K
-48	31.864K
-49	26.962K
-50	23.367K
-51	20.618K
-52	18.448K
-53	16.691K
1010283-54	15.239K

R13 OR R14

PART NO	VALUE
SEE NOTE	INFINITY
1010251-21	67.4K
-40	102K
-41	205K
-23	82.6K
-27	149 K
-30	373K
1010251 -31	746K

C3, C4

PART NO	VALUE
1010289-39	.00260
-40	.00282
-41	.00304
-42	.00326
-43	.00348
-44	.00370
-45	.00392
-47	.00414
-48	.00436
1010289-49	.00458

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN DATE 9/30/64
CHECKED P.J. Lynch 12-2-64
APPROVAL J. Sitomer 12/2/64
APPROVAL
NASA APPROVAL 12-8-64
MIT APPROVAL

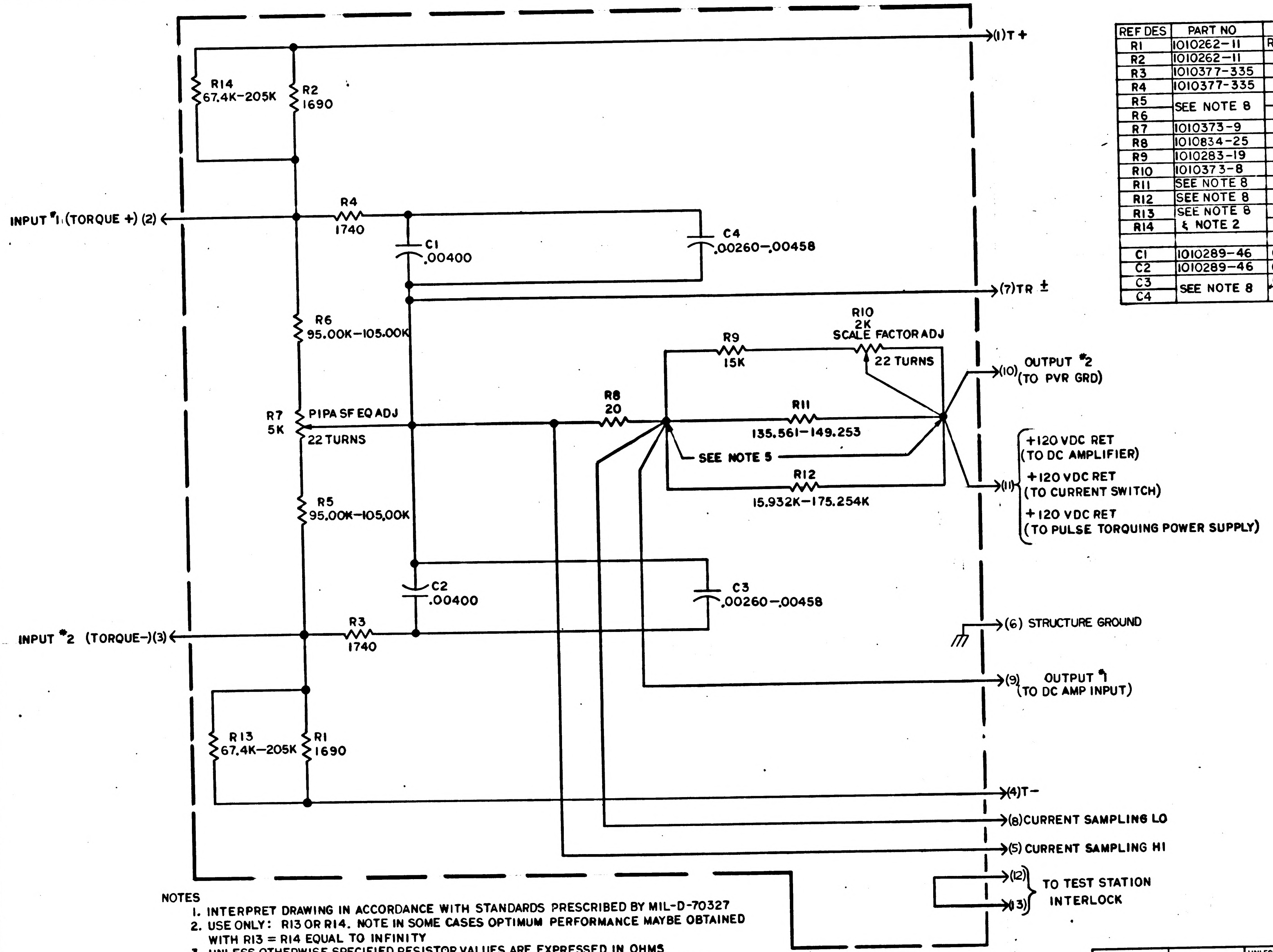
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
LEM PIPA CALIBRATION

CODE IDENT NO. 80230
SIZE D
NASA DRAWING NO. 6010000
SCALE
WT
SHEET 2 OF 2

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 14710			
SYM	DESCRIPTION	DATE	APPROVAL


(1)T +
R14
67.4K–205K
R2
1690
INPUT #1 (TORQUE +) (2)
R4
1740
C1
.00400
C4
.00260–.00458
(7)TR ±
R6
95.00K–105.00K
R9
15K
R10
2K
SCALE FACTOR ADJ
22 TURNS
OUTPUT #2
(10)(TO PVR GRD)
R7
5K
PIPA SF EQ ADJ
22 TURNS
R8
20
R11
135.561–149.253
SEE NOTE 5
R12
15.932K–175.254K
+120 VDC RET
(TO DC AMPLIFIER)
(11)
+120 VDC RET
(TO CURRENT SWITCH)
+120 VDC RET
(TO PULSE TORQUING POWER SUPPLY)
R5
95.00K–105.00K
C2
.00400
C3
.00260–.00458
INPUT #2 (TORQUE–)(3)
R3
1740
(6) STRUCTURE GROUND
(9) OUTPUT #1
(TO DC AMP INPUT)
R13
67.4K–205K
R1
1690
(4)T–
(8)CURRENT SAMPLING LO
(5) CURRENT SAMPLING HI
(12)
(13)
TO TEST STATION
INTERLOCK

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
R1	1010262-11	RESISTOR	1690	±1%	10W
R2	1010262-11		1690	±1%	10W
R3	1010377-335		1740	±1%	1/10W
R4	1010377-335		1740	±1%	1/10W
R5	SEE NOTE 8			±0.1%	1/10W
R6				±0.1%	1/10W
R7	1010373-9		5K	±5%	1W
R8	1010834-25		20	±0.01%	1W
R9	1010283-19		15K	±0.1%	1/10W
R10	1010373-8		2K	±5%	1W
R11	SEE NOTE 8			±0.01%	1W
R12	SEE NOTE 8			±0.1%	1/10W
R13	SEE NOTE 8			±1%	1/4W
R14	& NOTE 2	RESISTOR		±1%	1/4W
C1	1010289-46	CAPACITOR	.00400	±1%	200V
C2	1010289-46	CAPACITOR	.00400	±1%	200V
C3	SEE NOTE 8	CAPACITOR		±1%	200V
C4		CAPACITOR		±1%	200V

REF DWG
PIPA CALIBRATION ASSY
DWG NO.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. USE ONLY: R13 OR R14. NOTE IN SOME CASES OPTIMUM PERFORMANCE MAYBE OBTAINED WITH R13 = R14 EQUAL TO INFINITY
3. UNLESS OTHERWISE SPECIFIED RESISTOR VALUES ARE EXPRESSED IN OHMS
4. UNLESS OTHERWISE SPECIFIED CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS
5. WIRING TO BE TO A SINGLE POINT AS SHOWN
6. LEADS TO TERMINAL (9) OUTPUT NO. 1 & TERMINAL (10) PVR GND MUST BE CONNECTED TO R11
7. THE SUM OF R5 & R6 MUST EQUAL 200K REFER TO SHEET 2, THIS DWG FOR PERMISSIBLE VALUES
8. VALUE OF R5, R6, R11, R12, R13 OR R14, C3 AND C4 TO BE SELECTED FROM APPROPRIATE CHART PER ATP

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN W.F. Troy DATE 9/30/64
CHECKED [illegible]
J.M. BLYSHAK APPROVAL S. Stomer 12/2/64
APPROVAL
NASA APPROVAL W. J. [illegible] 12-8-64
MIT APPROVAL W. [illegible] 8/26/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
PIPA CALIBRATION
(LEM)

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 6010000
SCALE
WT
SHEET 1 OF 2

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 14710			
SYM	DESCRIPTION	DATE	APPROVAL

R5, R6

PART NO	VALUE
1010377–8	95.00K
–9	96.25K
–10	97.50K
–11	98.75K
–12	100.00K
–13	101.25K
–14	102.50K
–15	103.75K
1010377–16	105.00K

R11

PART NO	VALUE
1010834–26	135.561
–27	136.816
–28	138.095
–29	139.397
–30	140.725
–31	142.078
–32	143.457
–33	144.864
–34	146.298
–35	147.761
1010834–36	149.253

R12

PART NO	VALUE
SEE NOTE	INFINITY
1010283–20	15.932K
–21	17.525K
–22	19.473K
–23	21.907K
–24	25.036K
–25	29.209K
–26	35.051K
–27	43.814K
–28	58.418K
–29	87.627K
1010283–30	175.254K

R13 OR R14

PART NO	VALUE
SEE NOTE	INFINITY
1010251–21	67.4K
1010251–40	102K
1010251–41	205K

C3, C4

PART NO	VALUE
1010289–39	.00260
–40	.00282
–41	.00304
–42	.00326
–43	.00348
–44	.00370
–45	.00392
–47	.00414
–48	.00436
1010289–49	.00458

6010C00

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± ___ DECIMALS ± ___ ANGLES ± ___
DO NOT SCALE THIS DRAWING
MATERIAL ___
HEAT TREATMENT ___
FINAL FINISH ___

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN W F Troy DATE 9/30/64
CHECKED P.J. Lynch 12-2-64
APPROVAL J Sitomer 12/2/64
APPROVAL ___
NASA APPROVAL W J Rhine 12-8-64
MIT APPROVAL W Kupfer 12/2/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
PIPA CALIBRATION
(LEM)

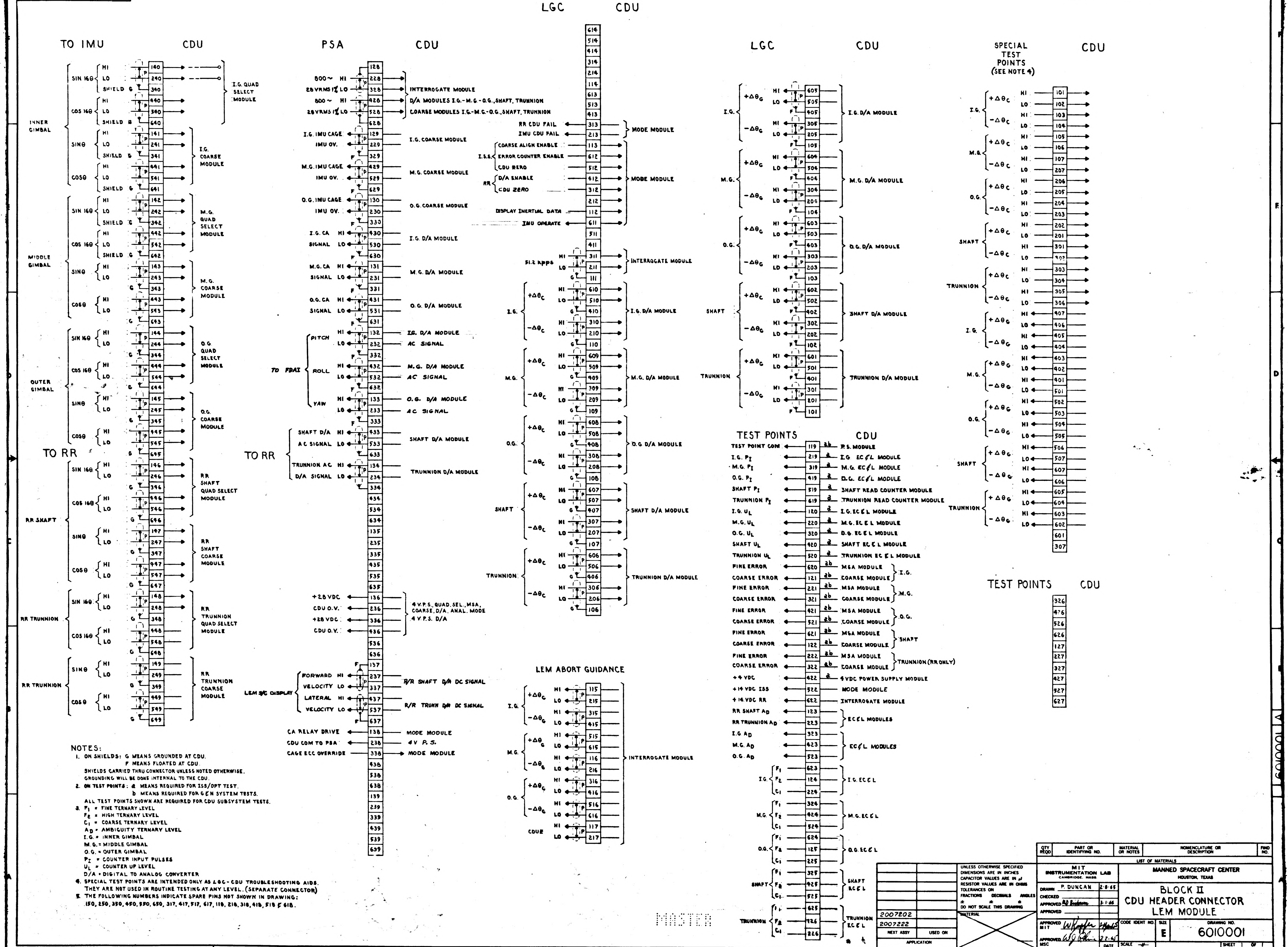
CODE IDENT NO.
SIZE D
NASA DRAWING NO. 6010C00
SCALE
WT
SHEET 2 OF 2

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 16977

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 19985				


6
5
4
3
2
1
F
E
D
C
TO IMU
CDU
INNER GIMBAL
MIDDLE GIMBAL
OUTER GIMBAL
SIN 16θ
COS 16θ
SIN θ
COS θ
HI
LO
SHIELD
G
F
P
I.G. QUAD SELECT MODULE
I.G. COARSE MODULE
M.G. QUAD SELECT MODULE
M.G. COARSE MODULE
O.G. QUAD SELECT MODULE
O.G. COARSE MODULE
TO RR
RR SHAFT
RR TRUNNION
RR SHAFT QUAD SELECT MODULE
RR SHAFT COARSE MODULE
RR TRUNNION QUAD SELECT MODULE
RR TRUNNION COARSE MODULE
PSA
800~ HI
28VRMS 1% LO
INTERROGATE MODULE
D/A MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
COARSE MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
I.G. IMU CAGE
IMU OV.
I.G. COARSE MODULE
M.G. IMU CAGE
M.G. COARSE MODULE
O.G. IMU CAGE
O.G. COARSE MODULE
I.G. CA SIGNAL
I.G. D/A MODULE
M.G. CA SIGNAL
M.G. D/A MODULE
O.G. CA SIGNAL
O.G. D/A MODULE
TO FDAI
PITCH
ROLL
YAW
I.G. D/A MODULE AC SIGNAL
M.G. D/A MODULE AC SIGNAL
O.G. D/A MODULE AC SIGNAL
SHAFT D/A
AC SIGNAL
SHAFT D/A MODULE
TRUNNION AC
D/A SIGNAL
TRUNNION D/A MODULE
+28 VDC
CDU O.V.
4 V.P.S. QUAD. SEL., MSA, COARSE, D/A, ANAL. MODE
4 V.P.S. D/A
LEM S/C DISPLAY
FORWARD
VELOCITY
LATERAL
R/R SHAFT D/A DC SIGNAL
R/R TRUNN D/A DC SIGNAL
CA RELAY DRIVE
CDU COM TO PSA
CAGE ECC OVERRIDE
MODE MODULE
4V P.S.
LGC
CDU
RR CDU FAIL
IMU CDU FAIL
MODE MODULE
I.S.S.
COARSE ALIGN ENABLE
ERROR COUNTER ENABLE
CDU ZERO
RR
D/A ENABLE
CDU ZERO
DISPLAY INERTIAL DATA
IMU OPERATE
51.2 kpps
INTERROGATE MODULE
I.G.
M.G.
O.G.
SHAFT
TRUNNION
+Δθ_C
-Δθ_C
I.G. D/A MODULE
M.G. D/A MODULE
O.G. D/A MODULE
SHAFT D/A MODULE
TRUNNION D/A MODULE
LEM ABORT GUIDANCE
CDUZ
INTERROGATE MODULE
LGC
CDU
+Δθ_G
-Δθ_G
I.G. D/A MODULE
M.G. D/A MODULE
O.G. D/A MODULE
SHAFT D/A MODULE
TRUNNION D/A MODULE
SPECIAL TEST POINTS (SEE NOTE 4)
CDU
TEST POINTS
CDU
TEST POINT COM
I.G. P_I
M.G. P_I
O.G. P_I
SHAFT P_I
TRUNNION P_I
I.G. U_L
M.G. U_L
O.G. U_L
SHAFT U_L
TRUNNION U_L
FINE ERROR
COARSE ERROR
+4 VDC
+14 VDC ISS
+14 VDC RR
RR SHAFT A_D
RR TRUNNION A_D
I.G. A_D
M.G. A_D
O.G. A_D
ab
a
P.S. MODULE
I.G. EC&L MODULE
M.G. EC&L MODULE
O.G. EC&L MODULE
SHAFT READ COUNTER MODULE
TRUNNION READ COUNTER MODULE
I.G. EC&L MODULE
M.G. EC&L MODULE
O.G. EC&L MODULE
SHAFT EC&L MODULE
TRUNNION EC&L MODULE
MSA MODULE
COARSE MODULE
TRUNNION (RR ONLY)
4VDC POWER SUPPLY MODULE
MODE MODULE
INTERROGATE MODULE
EC&L MODULES
F_1
F_2
C_1
I.G. EC&L
M.G. EC&L
O.G. EC&L
SHAFT EC&L
TRUNNION EC&L
TEST POINTS
CDU
MASTER

NOTES:

1. ON SHIELDS: G MEANS GROUNDED AT CDU.
   F MEANS FLOATED AT CDU.
   SHIELDS CARRIED THRU CONNECTOR UNLESS NOTED OTHERWISE.
   GROUNDING WILL BE DONE INTERNAL TO THE CDU.
2. ON TEST POINTS: a MEANS REQUIRED FOR ISS/OPT TEST.
   b MEANS REQUIRED FOR G&N SYSTEM TESTS.
   ALL TEST POINTS SHOWN ARE REQUIRED FOR CDU SUBSYSTEM TESTS.
3. F_1 = FINE TERNARY LEVEL
   F_2 = HIGH TERNARY LEVEL
   C_1 = COARSE TERNARY LEVEL
   A_D = AMBIGUITY TERNARY LEVEL
   I.G. = INNER GIMBAL
   M.G. = MIDDLE GIMBAL
   O.G. = OUTER GIMBAL
   P_I = COUNTER INPUT PULSES
   U_L = COUNTER UP LEVEL
   D/A = DIGITAL TO ANALOG CONVERTER
4. SPECIAL TEST POINTS ARE INTENDED ONLY AS LGC - CDU TROUBLESHOOTING AIDS. THEY ARE NOT USED IN ROUTINE TESTING AT ANY LEVEL. (SEPARATE CONNECTOR)
5. THE FOLLOWING NUMBERS INDICATE SPARE PINS NOT SHOWN IN DRAWING:
   150, 250, 350, 450, 550, 650, 317, 417, 517, 617, 118, 218, 318, 418, 518 & 618.

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
2007202	
2007222	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

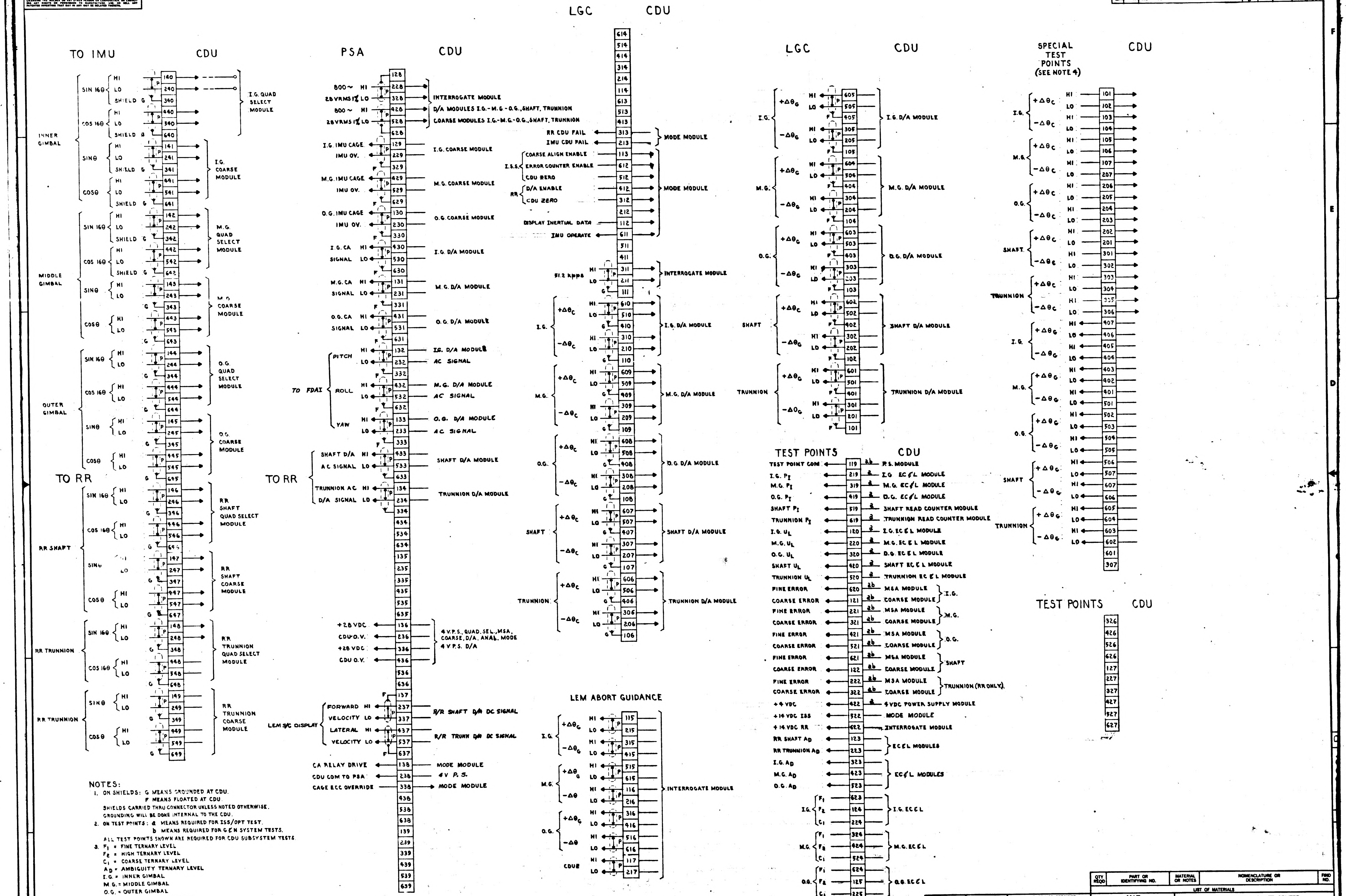
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN P. DUNCAN 2-8-65
CHECKED
APPROVED 3-1-65
APPROVED
APPROVED MIT W Kopfer
APPROVED MSC 3-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BLOCK II
CDU HEADER CONNECTOR
LEM MODULE

CODE IDENT NO.
SIZE E
DRAWING NO. 6010001
SCALE —
SHEET 1 OF 1


TO IMU
CDU
INNER GIMBAL
MIDDLE GIMBAL
OUTER GIMBAL
TO RR
RR SHAFT
RR TRUNNION
I.G. QUAD SELECT MODULE
I.G. COARSE MODULE
M.G. QUAD SELECT MODULE
M.G. COARSE MODULE
O.G. QUAD SELECT MODULE
O.G. COARSE MODULE
RR SHAFT QUAD SELECT MODULE
RR SHAFT COARSE MODULE
RR TRUNNION QUAD SELECT MODULE
RR TRUNNION COARSE MODULE
PSA
CDU
INTERROGATE MODULE
D/A MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
COARSE MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
TO FDAI
PITCH
ROLL
YAW
TO RR
LEM S/C DISPLAY
FORWARD VELOCITY
LATERAL VELOCITY
R/R SHAFT D/A DC SIGNAL
R/R TRUNN D/A DC SIGNAL
CA RELAY DRIVE
CDU COM TO PSA
CAGE ECC OVERRIDE
MODE MODULE
4V P.S.
+28 VDC
CDU O.V.
4 V.P.S. QUAD. SEL., MSA, COARSE, D/A, ANAL. MODE
4 V P.S. D/A
LGC
CDU
RR CDU FAIL
IMU CDU FAIL
COARSE ALIGN ENABLE
ERROR COUNTER ENABLE
CDU ZERO
D/A ENABLE
DISPLAY INERTIAL DATA
IMU OPERATE
51.2 kpps
MODE MODULE
INTERROGATE MODULE
I.G. D/A MODULE
M.G. D/A MODULE
O.G. D/A MODULE
SHAFT D/A MODULE
TRUNNION D/A MODULE
LEM ABORT GUIDANCE
INTERROGATE MODULE
CDUE
LGC
CDU
TEST POINTS
CDU
P.S. MODULE
I.G. EC&L MODULE
M.G. EC&L MODULE
O.G. EC&L MODULE
SHAFT READ COUNTER MODULE
TRUNNION READ COUNTER MODULE
MSA MODULE
COARSE MODULE
4 VDC POWER SUPPLY MODULE
MODE MODULE
INTERROGATE MODULE
EC&L MODULES
I.G. EC&L
M.G. EC&L
O.G. EC&L
SHAFT EC&L
TRUNNION EC&L
TRUNNION (RR ONLY)
SPECIAL TEST POINTS (SEE NOTE 4)
CDU
TEST POINTS
CDU
MASTER

NOTES:

1. ON SHIELDS: G MEANS GROUNDED AT CDU.
F MEANS FLOATED AT CDU.
SHIELDS CARRIED THRU CONNECTOR UNLESS NOTED OTHERWISE.
GROUNDING WILL BE DONE INTERNAL TO THE CDU.
2. ON TEST POINTS: a MEANS REQUIRED FOR ISS/OPT TEST.
b MEANS REQUIRED FOR G & N SYSTEM TESTS.
ALL TEST POINTS SHOWN ARE REQUIRED FOR CDU SUBSYSTEM TESTS.
3. F_1 = FINE TERNARY LEVEL
F_2 = HIGH TERNARY LEVEL
C_1 = COARSE TERNARY LEVEL
A_D = AMBIGUITY TERNARY LEVEL
I.G. = INNER GIMBAL
M.G. = MIDDLE GIMBAL
O.G. = OUTER GIMBAL
P_I = COUNTER INPUT PULSES
U_L = COUNTER UP LEVEL
D/A = DIGITAL TO ANALOG CONVERTER
4. SPECIAL TEST POINTS ARE INTENDED ONLY AS LGC-CDU TROUBLESHOOTING AIDS. THEY ARE NOT USED IN ROUTINE TESTING AT ANY LEVEL. (SEPARATE CONNECTOR)
5. THE FOLLOWING NUMBERS INDICATE SPARE PINS NOT SHOWN IN DRAWING:
150, 250, 350, 450, 550, 650, 317, 417, 517, 617, 118, 218, 318, 418, 518 & 618.

REVISIONS 16977

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 19985				WK
B		REVISED PER TDRR 22191	EG		3 Sep 65	

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
2007202	
2007222	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

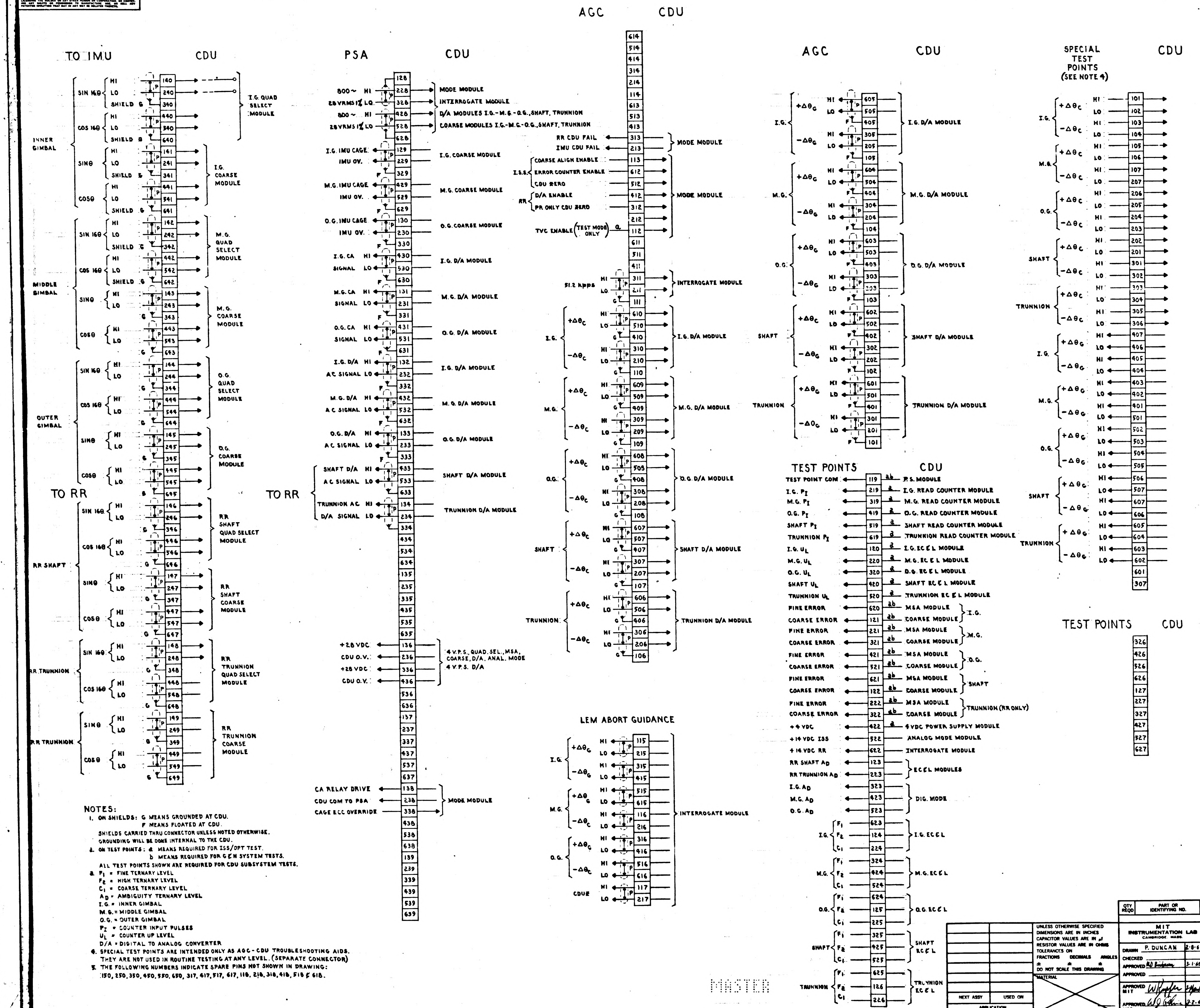
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN P. DUNCAN 2-8-65
CHECKED
APPROVED 3-1-65
APPROVED
APPROVED MIT W Kupfer
APPROVED MSC 3-2-65
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BLOCK II
CDU HEADER CONNECTOR
LEM MODULE

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6010001
SCALE —
SHEET 1 OF 1


AGC
CDU
TO IMU
PSA
SPECIAL TEST POINTS (SEE NOTE 4)
INNER GIMBAL
MIDDLE GIMBAL
OUTER GIMBAL
RR SHAFT
RR TRUNNION
TO RR
SIN 16θ
COS 16θ
SINθ
COSθ
HI
LO
SHIELD
I.G. QUAD SELECT MODULE
I.G. COARSE MODULE
M.G. QUAD SELECT MODULE
M.G. COARSE MODULE
O.G. QUAD SELECT MODULE
O.G. COARSE MODULE
RR SHAFT QUAD SELECT MODULE
RR SHAFT COARSE MODULE
RR TRUNNION QUAD SELECT MODULE
RR TRUNNION COARSE MODULE
800~ HI
28 VRMS 1% LO
MODE MODULE
INTERROGATE MODULE
D/A MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
COARSE MODULES I.G.-M.G.-O.G., SHAFT, TRUNNION
I.G. IMU CAGE
IMU OV.
M.G. IMU CAGE
O.G. IMU CAGE
I.G. CA SIGNAL
M.G. CA SIGNAL
O.G. CA SIGNAL
I.G. D/A AC SIGNAL
M.G. D/A AC SIGNAL
O.G. D/A AC SIGNAL
SHAFT D/A AC SIGNAL
TRUNNION AC D/A SIGNAL
I.G. D/A MODULE
M.G. D/A MODULE
O.G. D/A MODULE
SHAFT D/A MODULE
TRUNNION D/A MODULE
+28 VDC
CDU O.V.
4 V.P.S., QUAD. SEL., MSA, COARSE, D/A, ANAL. MODE
4 V.P.S. D/A
CA RELAY DRIVE
CDU COM TO PSA
CAGE ECC OVERRIDE
RR CDU FAIL
IMU CDU FAIL
I.S.S.
COARSE ALIGN ENABLE
ERROR COUNTER ENABLE
CDU ZERO
RR
D/A ENABLE
PR ONLY CDU ZERO
TVC ENABLE (TEST MODE ONLY)
51.2 kpps
+Δθ_C
−Δθ_C
+Δθ_G
−Δθ_G
I.G.
M.G.
O.G.
SHAFT
TRUNNION
LEM ABORT GUIDANCE
CDUZ
TEST POINTS
TEST POINT COM
P.S. MODULE
I.G. P_I
M.G. P_I
O.G. P_I
SHAFT P_I
TRUNNION P_I
I.G. READ COUNTER MODULE
M.G. READ COUNTER MODULE
O.G. READ COUNTER MODULE
SHAFT READ COUNTER MODULE
TRUNNION READ COUNTER MODULE
I.G. U_L
M.G. U_L
O.G. U_L
SHAFT U_L
TRUNNION U_L
I.G. EC & L MODULE
M.G. EC & L MODULE
O.G. EC & L MODULE
SHAFT EC & L MODULE
TRUNNION EC & L MODULE
FINE ERROR
COARSE ERROR
MSA MODULE
COARSE MODULE
TRUNNION (RR ONLY)
+4 VDC
+14 VDC ISS
+14 VDC RR
4 VDC POWER SUPPLY MODULE
ANALOG MODE MODULE
INTERROGATE MODULE
RR SHAFT A_D
RR TRUNNION A_D
I.G. A_D
M.G. A_D
O.G. A_D
EC & L MODULES
DIG. MODE
F_1
F_2
C_1
I.G. EC & L
M.G. EC & L
O.G. EC & L
SHAFT EC & L
TRUNNION EC & L
a
b
ab
G
F
P

NOTES:

1. ON SHIELDS: G MEANS GROUNDED AT CDU.
   F MEANS FLOATED AT CDU.
   SHIELDS CARRIED THRU CONNECTOR UNLESS NOTED OTHERWISE.
   GROUNDING WILL BE DONE INTERNAL TO THE CDU.
2. ON TEST POINTS: a MEANS REQUIRED FOR ISS/OPT TEST.
   b MEANS REQUIRED FOR G & N SYSTEM TESTS.
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3. F_1 = FINE TERNARY LEVEL
   F_2 = HIGH TERNARY LEVEL
   C_1 = COARSE TERNARY LEVEL
   A_D = AMBIGUITY TERNARY LEVEL
   I.G. = INNER GIMBAL
   M.G. = MIDDLE GIMBAL
   O.G. = OUTER GIMBAL
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   U_L = COUNTER UP LEVEL
   D/A = DIGITAL TO ANALOG CONVERTER
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5. THE FOLLOWING NUMBERS INDICATE SPARE PINS NOT SHOWN IN DRAWING:
   150, 250, 350, 450, 550, 650, 317, 417, 517, 617, 118, 218, 318, 418, 518 & 618.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN	P. DUNCAN	2-8-65
CHECKED		
APPROVED	R.D. Bridgman	3-1-65
APPROVED		
APPROVED MIT	W Kupfer	3 Mar 65
APPROVED MSC	W J Rhine	3-2-65
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BLOCK II
CDU HEADER CONNECTOR
LEM MODULE

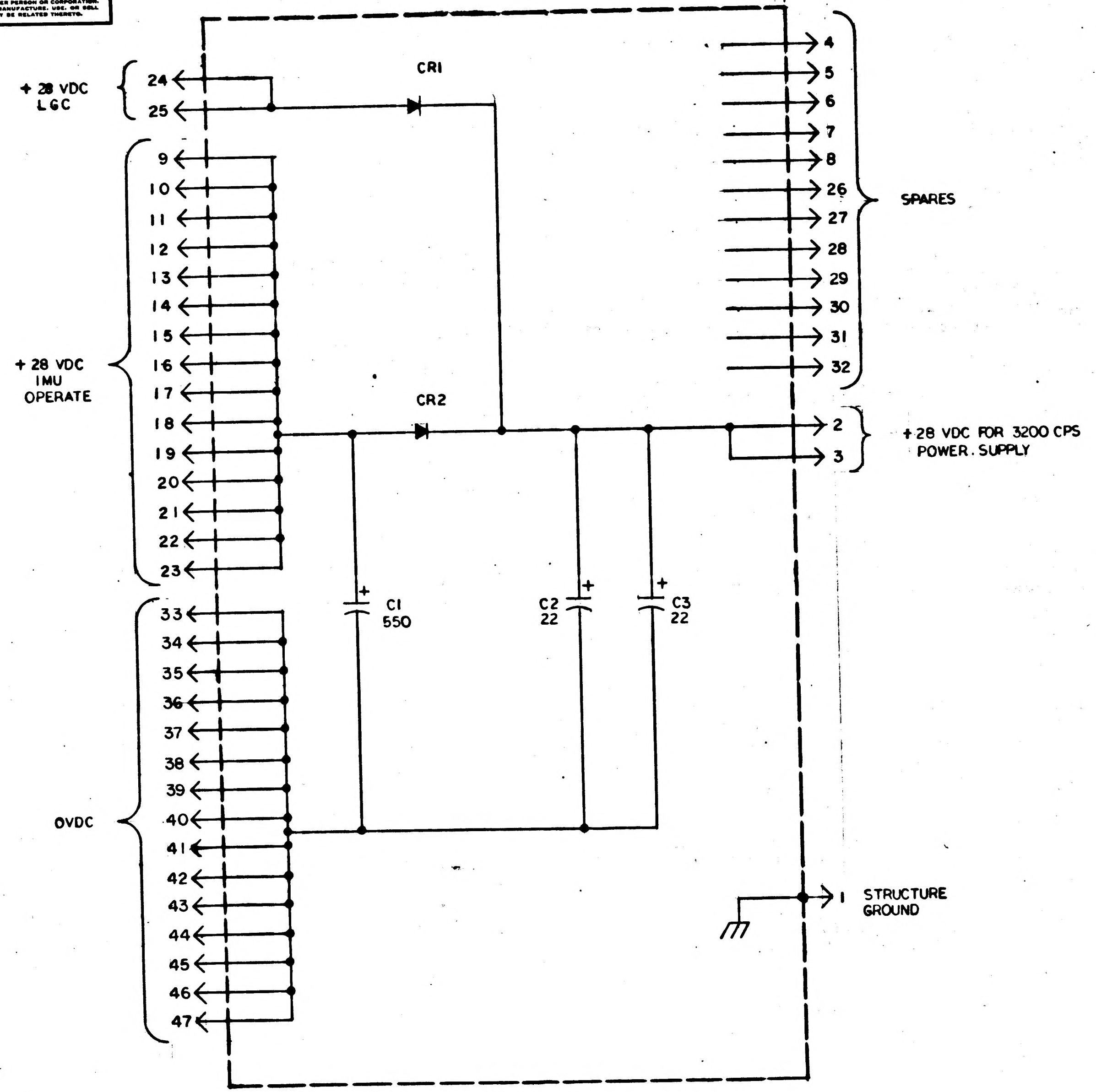
CODE IDENT NO. | SIZE E | DRAWING NO. 6010001
SCALE —
SHEET 1 OF 1

REVISIONS 16977
SYM | ZONE | DESCRIPTION | DR | CHK | DATE | APPROVED

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22517

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED	
A		REVISED PER TDRR 23081	CWJ	RPK	7OCT65	NLM	10-13-65


+ 28 VDC
LGC
24
25
CR1
+ 28 VDC
IMU
OPERATE
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
CR2
C1
550
C2
22
C3
22
OVDC
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
4
5
6
7
8
26
27
28
29
30
31
32
SPARES
2
3
+28 VDC FOR 3200 CPS
POWER SUPPLY
1
STRUCTURE
GROUND

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1010637-1	CAPACITOR	550	$^{+75}_{-15}\%$	45VDC
C2	1006755-134	CAPACITOR	22	± 10%	50VDC
C3	1006755-134	CAPACITOR	22	± 10%	50VDC
CR1	1010777-2	DIODE			
CR2	1010777-2	DIODE			

REF DWG:
G AND N SUBSYSTEM SUPPLY FILTER ASSY
DWG NO. 6007114

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN
CHECKED
APPROVED
APPROVED

APPROVED MIT
NOT REQUIRED PER LETTER
NASA PP7-65-612
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

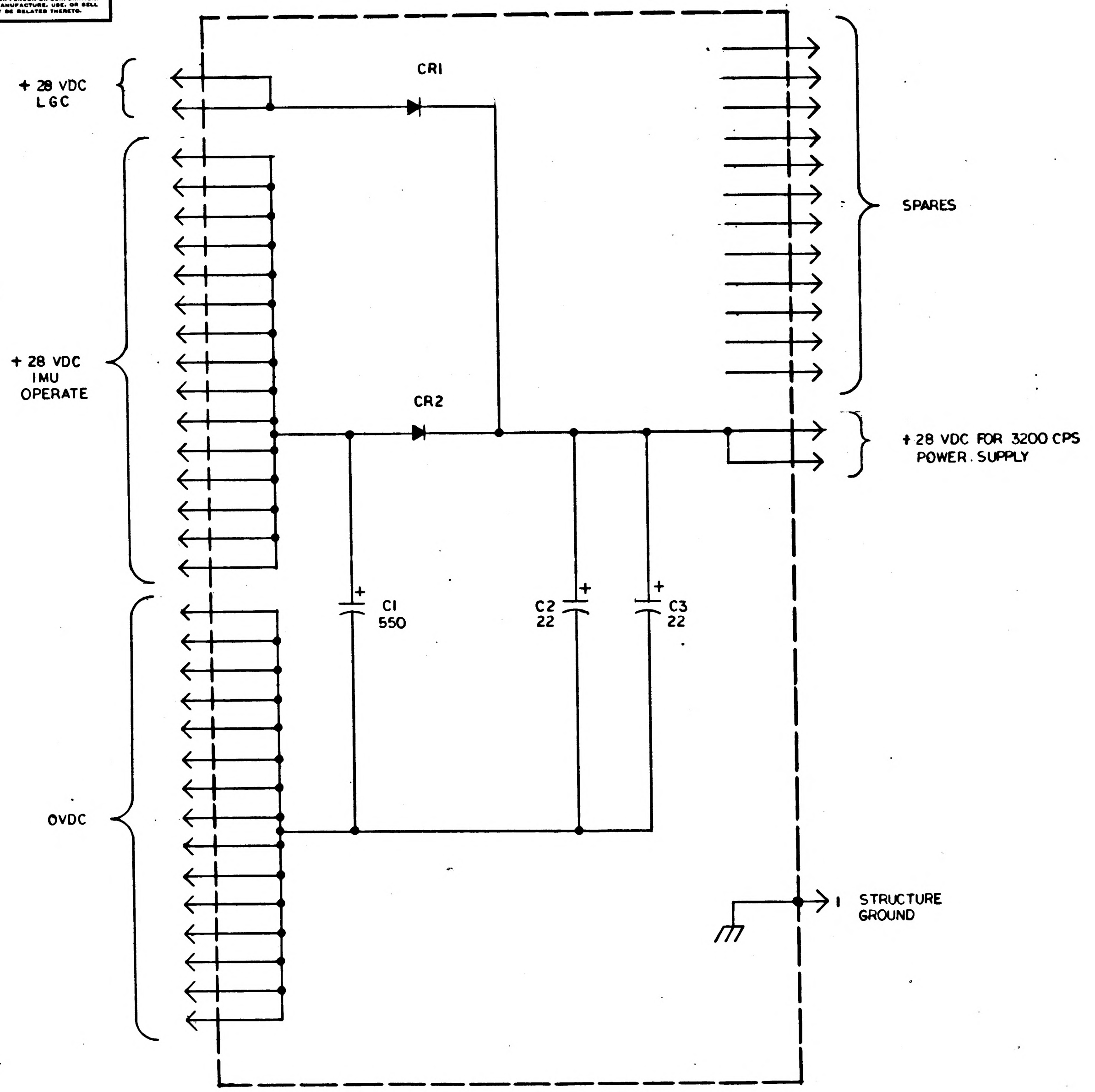
SCHEMATIC
G & N SUBSYSTEM
SUPPLY FILTER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6010005
SCALE —
SHEET OF

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS 22517

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1010637-1	CAPACITOR	550	$^{+75}_{-15}$%	45VDC
C2	1006755-134	CAPACITOR	22	± 10%	50VDC
C3	1006755-134	CAPACITOR	22	± 10%	50VDC
CR1	1010777-2	DIODE			
CR2	1010777-2	DIODE			

REF DWG:
G AND N SUBSYSTEM SUPPLY FILTER ASSY
DWG NO.

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING

MATERIAL
—

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN Sept 10 196
CHECKED 14 Sep 65
APPROVED 9/14/65
APPROVED 14 Sep 65

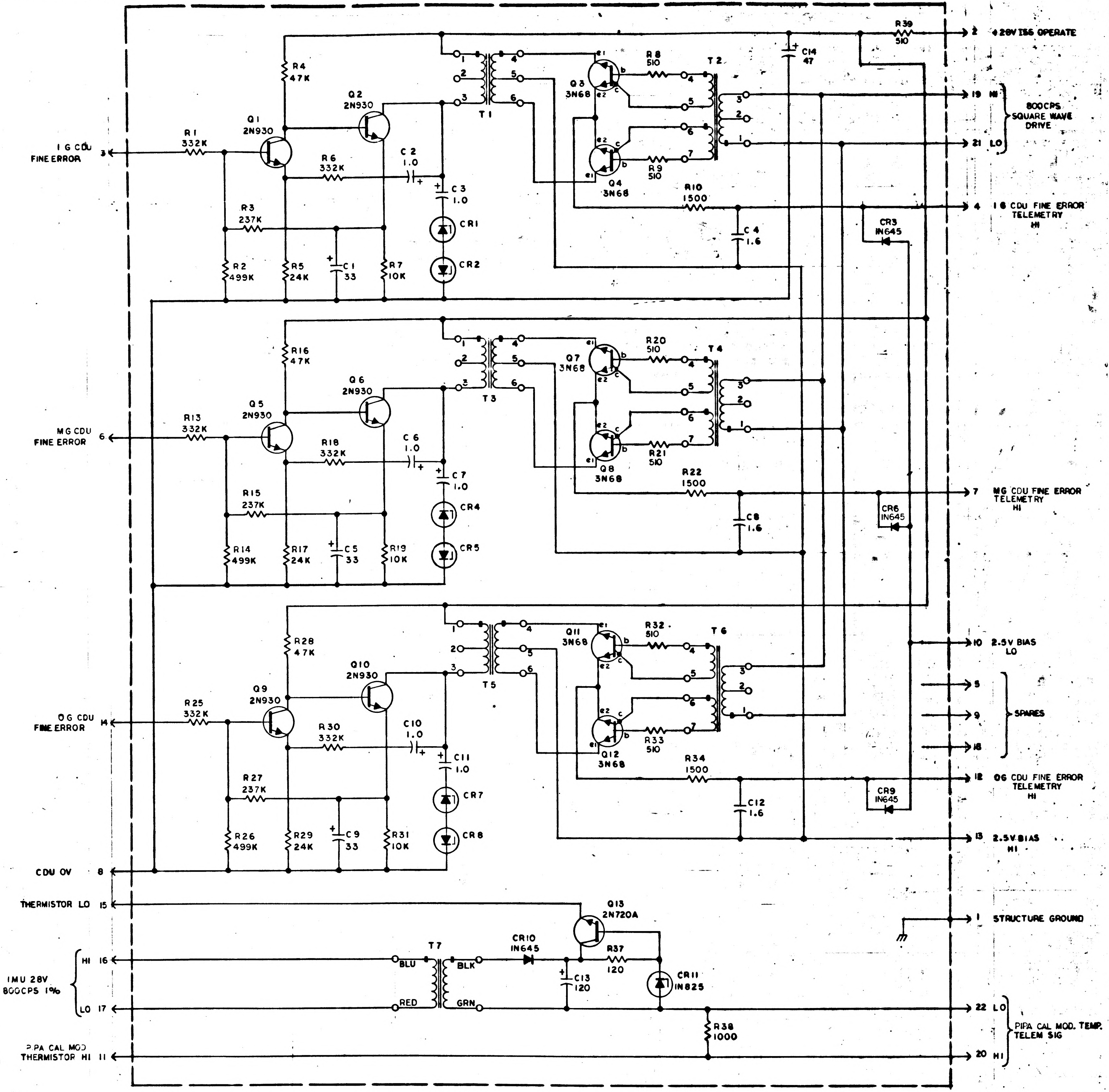
APPROVED
MIT
NOT REQUIRED PER LETTER
NASA PP7-65-612
APPROVED
MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
G & N SUBSYSTEM
SUPPLY FILTER

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6010005
SCALE —
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


I G CDU FINE ERROR 3
MG CDU FINE ERROR 6
OG CDU FINE ERROR 14
CDU OV 8
THERMISTOR LO 15
IMU 28V 800CPS 1%
HI 16
LO 17
PIPA CAL MOD THERMISTOR HI 11
R1 332K
R2 499K
R3 237K
R4 47K
R5 24K
R6 332K
R7 10K
Q1 2N930
Q2 2N930
C1 33
C2 1.0
C3 1.0
CR1
CR2
T1
Q3 3N68
Q4 3N68
R8 510
R9 510
T2
R10 1500
C4 1.6
C14 47
R39 510
CR3 IN645
R13 332K
R14 499K
R15 237K
R16 47K
R17 24K
R18 332K
R19 10K
Q5 2N930
Q6 2N930
C5 33
C6 1.0
C7 1.0
CR4
CR5
T3
Q7 3N68
Q8 3N68
R20 510
R21 510
T4
R22 1500
C8 1.6
CR6 IN645
R25 332K
R26 499K
R27 237K
R28 47K
R29 24K
R30 332K
R31 10K
Q9 2N930
Q10 2N930
C9 33
C10 1.0
C11 1.0
CR7
CR8
T5
Q11 3N68
Q12 3N68
R32 510
R33 510
T6
R34 1500
C12 1.6
CR9 IN645
T7
BLU
RED
BLK
GRN
CR10 IN645
C13 120
Q13 2N720A
R37 120
CR11 IN825
R38 1000
2 +28V ISS OPERATE
19 HI
21 LO
800CPS SQUARE WAVE DRIVE
4 IG CDU FINE ERROR TELEMETRY HI
7 MG CDU FINE ERROR TELEMETRY HI
10 2.5V BIAS LO
5
9
18
SPARES
12 OG CDU FINE ERROR TELEMETRY HI
13 2.5V BIAS HI
1 STRUCTURE GROUND
22 LO
20 HI
PIPA CAL MOD. TEMP. TELEM SIG

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1010364-735	RESISTOR	332K	±1%	1/8W
R2	1010364-769		499K	±1%	1/8W
R3	1010364-707		237K	±1%	1/8W
R4	1006750-72		47K	±2%	1/4W
R5	1006750-65		24K	±2%	1/4W
R6	1010364-735		332K	±1%	1/8W
R7	1006750-56		10K	±2%	1/4W
R8	1006750-25		510	±1%	0.1W
R9	1006750-25		510	±1%	0.1W
R10	1006750-36		1500	±2%	1/4W
R13	1010364-735		332K	±1%	1/8W
R14	1010364-769		499K	±1%	1/8W
R15	1010364-707		237K	±1%	1/8W
R16	1006750-72		47K	±2%	1/4W
R17	1006750-65		24K	±2%	1/4W
R18	1010364-735		332K	±1%	1/8W
R19	1006750-56		10K	±2%	1/4W
R20	1006750-25		510	±1%	0.1W
R21	1006750-25		510	±1%	0.1W
R22	1006750-36		1500	±2%	1/4W
R25	1010364-735		332K	±1%	1/8W
R26	1010364-769		499K	±1%	1/8W
R27	1010364-707		237K	±1%	1/8W
R28	1006750-72		47K	±2%	1/4W
R29	1006750-65		24K	±2%	1/4W
R30	1010364-735		332K	±1%	1/8W
R31	1006750-56		10K	±2%	1/4W
R32	1006750-25		510	±1%	0.1W
R33	1006750-25		510	±1%	0.1W
R34	1006750-36		1500	±2%	1/4W
R37	1006750-10		120	±2%	1/4W
R38	1010364-251		1000	±1%	1/8W
R39	1006750-25	RESISTOR	510	±2%	1/4W
C1	1006755-34	CAPACITOR	33	±10%	20VDC
C2	1006755-118		1.0		50
C3	1006755-118		1.0		50
C4	1010279-114		1.6		15
C5	1006755-34		33		20
C6	1006755-118		1.0		50
C7	1006755-118		1.0		50
C8	1010279-114		1.6		15
C9	1006755-34		33		20
C10	1006755-118		1.0		50
C11	1006755-118		1.0		50
C12	1010279-114		1.6		15
C13	1006755-15		120		10
C14	1006755-89	CAPACITOR	47	±10%	35VDC
CR1	1010372-15	DIODE			
CR2	1010372-15				
CR3	1010837-001		IN645		
CR4	1010372-15				
CR5	1010372-15				
CR6	1010837-001		IN645		
CR7	1010372-15				
CR8	1010372-15				
CR9	1010837-001		IN645		
CR10	1010837-001		IN645		
CR11	1010259-001	DIODE	IN825		
Q1	1010397-1	TRANSISTOR	2N930		
Q2	1010397-1		2N930		
Q3	1010367		3N68		
Q4	1010367		3N68		
Q5	1010397-1		2N930		
Q6	1010397-1		2N930		
Q7	1010367		3N68		
Q8	1010367		3N68		
Q9	1010397-1		2N930		
Q10	1010397-1		2N930		
Q11	1010367		3N68		
Q12	1010367		3N68		
Q13	1010357-1	TRANSISTOR	2N720A		
T1	1010274	TRANSFORMER			
T2	1010365				
T3	1010274				
T4	1010365				
T5	1010274				
T6	1010365				
T7	1010466	TRANSFORMER			

REVISIONS 24717

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 26031				

REF DWG:
CDU FINE ERROR SIGNAL CONDITIONER ASSY.
DWG NO. 6007011

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

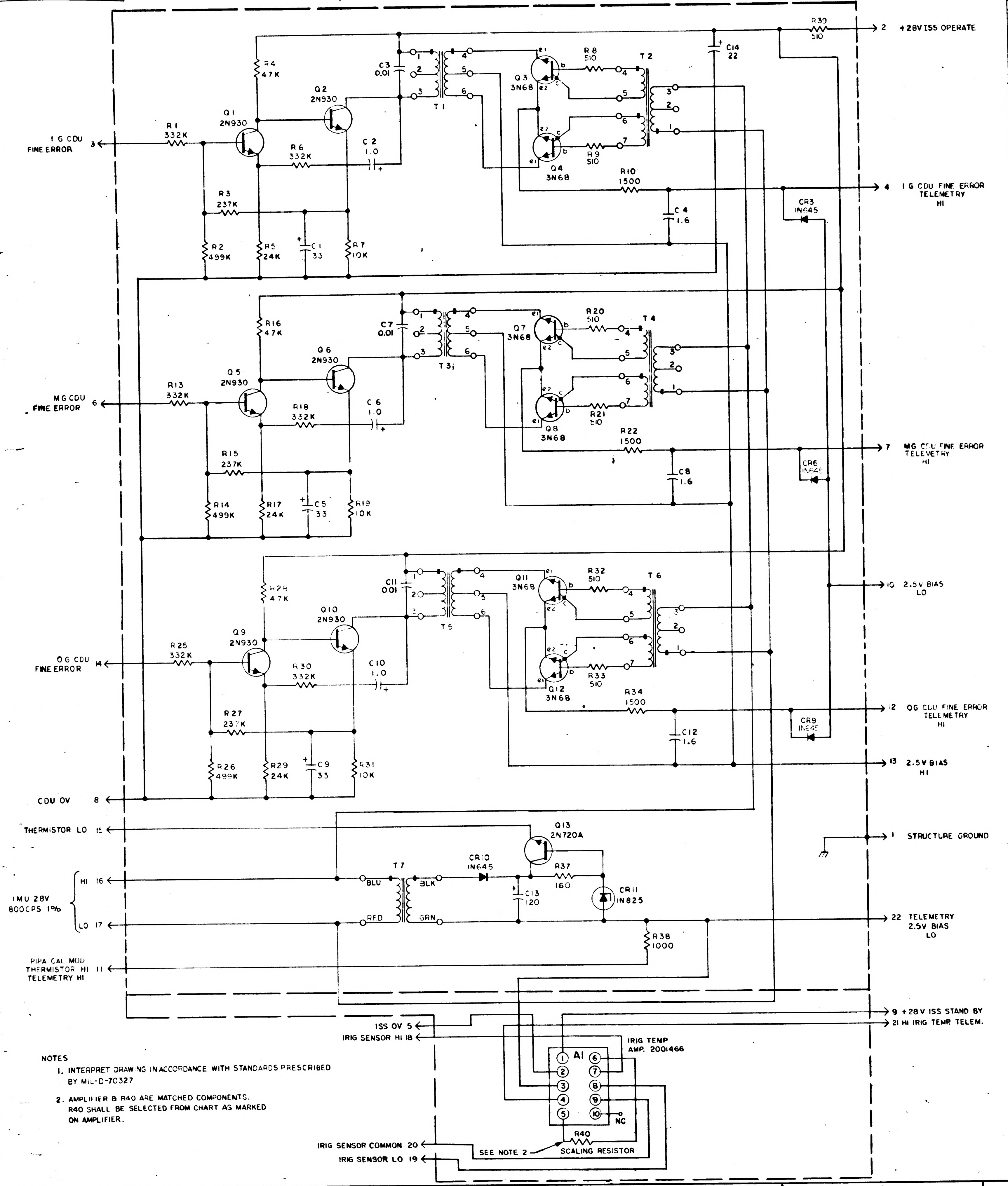
DRAWN A. D'Aless 9 Dec 65
CHECKED 14 Dec 65
APPROVED D. Cushm 14 Dec 65
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
CDU FINE ERROR
SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6010006
SCALE —
SHEET 1 OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO


R39 510
2 +28V ISS OPERATE
C14 22
R4 47K
C3 0.01
Q2 2N930
Q1 2N930
T1
Q3 3N68
R8 510
T2
1 G CDU FINE ERROR 3
R1 332K
R6 332K
C2 1.0
Q4 3N68
R9 510
R10 1500
4 1 G CDU FINE ERROR TELEMETRY HI
CR3 IN645
R3 237K
C4 1.6
R2 499K
R5 24K
C1 33
R7 10K
R16 47K
C7 0.01
Q7 3N68
R20 510
T4
Q6 2N930
Q5 2N930
T3
MG CDU FINE ERROR 6
R13 332K
R18 332K
C6 1.0
Q8 3N68
R21 510
R22 1500
7 MG CDU FINE ERROR TELEMETRY HI
CR6 IN645
R15 237K
C8 1.6
R14 499K
R17 24K
C5 33
R19 10K
R28 4.7K
C11 0.01
Q11 3N68
R32 510
T6
Q10 2N930
Q9 2N930
T5
10 2.5V BIAS LO
OG CDU FINE ERROR 14
R25 332K
R30 332K
C10 1.0
Q12 3N68
R33 510
R34 1500
12 OG CDU FINE ERROR TELEMETRY HI
CR9 IN645
R27 237K
C12 1.6
R26 499K
R29 24K
C9 33
R31 10K
13 2.5V BIAS HI
CDU 0V 8
THERMISTOR LO 15
Q13 2N720A
1 STRUCTURE GROUND
T7
BLU
BLK
RED
GRN
CR10 IN645
R37 160
C13 120
CR11 IN825
IMU 28V 800CPS 1%
HI 16
LO 17
22 TELEMETRY 2.5V BIAS LO
R38 1000
PIPA CAL MOD THERMISTOR HI 11 TELEMETRY HI
ISS 0V 5
IRIG SENSOR HI 18
9 +28V ISS STAND BY
21 HI IRIG TEMP TELEM.
IRIG TEMP AMP. 2001466
A1
1 2 3 4 5
6 7 8 9 10
NC
IRIG SENSOR COMMON 20
SEE NOTE 2
R40 SCALING RESISTOR
IRIG SENSOR LO 19

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AMPLIFIER & R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON AMPLIFIER.

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1010364-735	RESISTOR	332K	±1%	1/8W
R2	1010364-769		499K	±1%	1/8W
R3	1010364-707		237K	±1%	1/8W
R4	1006750-72		47K	±2%	1/4W
R5	1006750-65		24K	±2%	1/4W
R6	1010364-735		332K	±1%	1/8W
R7	1006750-56		10K	±2%	1/4W
R8	1006750-25		510	±2%	1/4W
R9	1006750-25		510	±2%	1/4W
R10	1006750-36		1500	±2%	1/4W
R13	1010364-735		332K	±1%	1/8W
R14	1010364-769		499K	±1%	1/8W
R15	1010364-707		237K	±1%	1/8W
R16	1006750-72		47K	±2%	1/4W
R17	1006750-65		24K	±2%	1/4W
R18	1010364-735		332K	±1%	1/8W
R19	1006750-56		10K	±2%	1/4W
R20	1006750-25		510	±2%	1/4W
R21	1006750-25		510	±2%	1/4W
R22	1006750-36		1500	±2%	1/4W
R25	1010364-735		332K	±1%	1/8W
R26	1010364-769		499K	±1%	1/8W
R27	1010364-707		237K	±1%	1/8W
R28	1006750-72		47K	±2%	1/4W
R29	1006750-65		24K	±2%	1/4W
R30	1010364-735		332K	±1%	1/8W
R31	1006750-56		10K	±2%	1/4W
R32	1006750-25		510	±2%	1/4W
R33	1006750-25		510	±2%	1/4W
R34	1006750-36		1500	±2%	1/4W
R37	1006750-13		160	±2%	1/4W
R38	1010364-251		1000	±1%	1/8W
R39	1006750-25	RESISTOR	510	±2%	1/4W
R40	SEE NOTE 2	RESISTOR		±0.1%	1/8W
C1	1006755-34	CAPACITOR	33	±10%	20VDC
C2	1006755-180		1.0		50
C3	1006777-31		0.01		100
C4	1010279-114		1.6		15
C5	1006755-34		33		20
C6	1006755-180		1.0		50
C7	1006777-31		0.01		100
C8	1010279-114		1.6		15
C9	1006755-34		33		20
C10	1006755-180		1.0		50
C11	1006777-31		0.01		100
C12	1010279-114		1.6		15
C13	1006755-15		120		10
C14	1006755-134	CAPACITOR	22	±10%	50VDC
CR3	1010837-001	DIODE	IN645		
CR6	1010837-001	DIODE	IN645		
CR9	1010837-001	DIODE	IN645		
CR10	1010837-001	DIODE	IN645		
CR11	1010259-001	DIODE	IN825		
Q1	1010397-1	TRANSISTOR	2N930		
Q2	1010397-1		2N930		
Q3	1010367-000		3N68		
Q4	1010367-000		3N68		
Q5	1010397-1		2N930		
Q6	1010397-1		2N930		
Q7	1010367-000		3N68		
Q8	1010367-000		3N68		
Q9	1010397-1		2N930		
Q10	1010397-1		2N930		
Q11	1010367-000		3N68		
Q12	1010367-000		3N68		
Q13	1010357-1	TRANSISTOR	2N720A		
T1	1010274	TRANSFORMER			
T2	1010365				
T3	1010274				
T4	1010365				
T5	1010274				
T6	1010365				
T7	1010466	TRANSFORMER			
A1	2001466	AMPLIFIER			

REVISIONS 24717

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 26031			2/15/66	WR
B		REVISED PER TDRR 29252		CW	15 JUN 66	

R40	
PART NO	VALUE
1008878-044	14.000 K
-045	14.112
-046	14.225
-047	14.339
-048	14.454
-049	14.570
-050	14.687
-051	14.804
-052	14.922
-053	15.041
-054	15.161
-055	15.282
-056	15.404
-057	15.527
-058	15.651
-059	15.776
-060	15.902
-061	16.029
-062	16.157
-063	16.286
-064	16.416
-065	16.547
-066	16.679
-067	16.812
1008878-068	16.900 K

REF DWG
CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER
ASSY DWG NO. 6007011

QTY REQD	PART OR IDENTIFYING NO	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN 9 DEC 65
CHECKED 14 DEC 65
APPROVED DEC 65
APPROVED
APPROVED MIT 14 Dec 65
APPROVED MSC
DATE

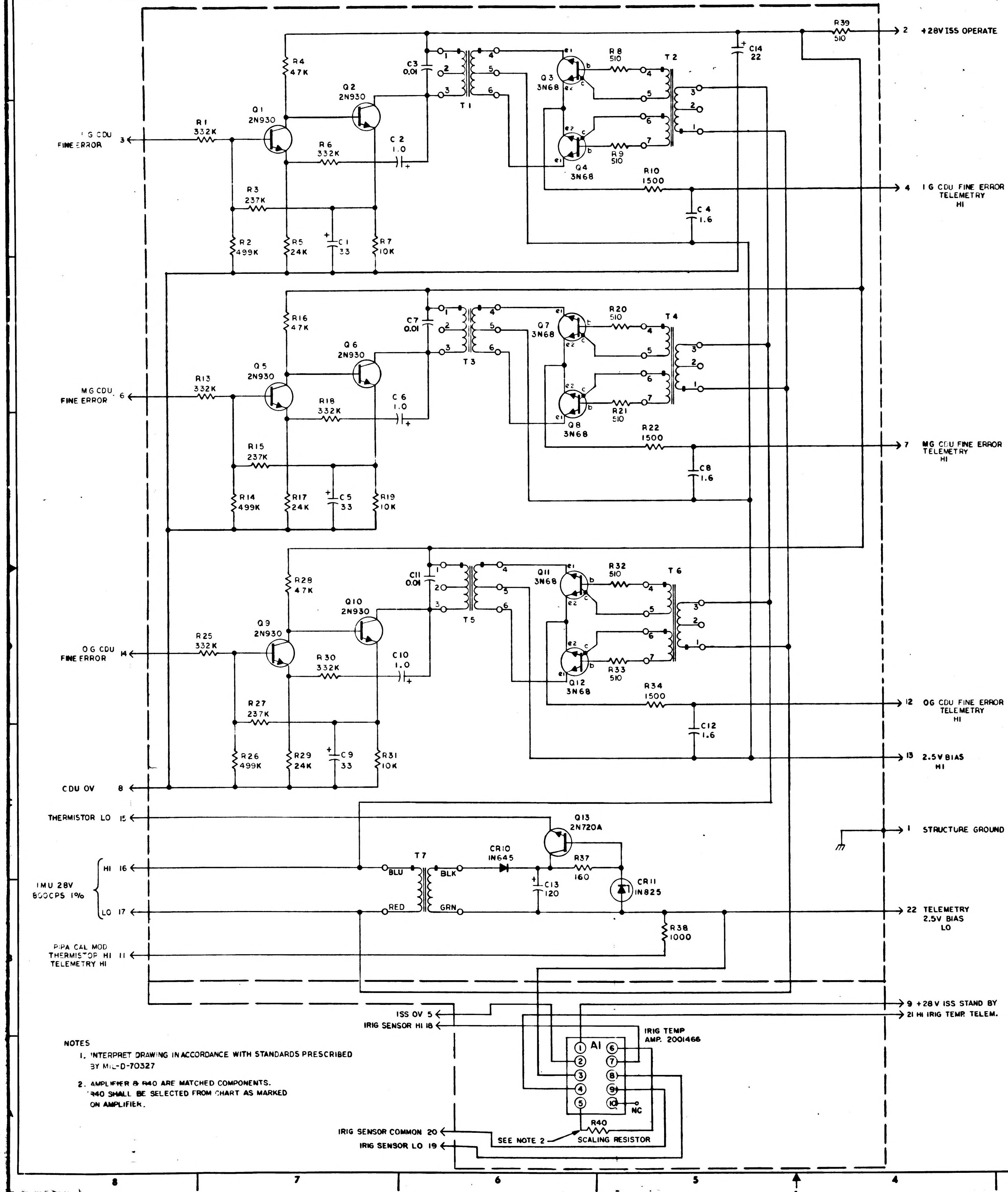
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6010006
SCALE
SHEET 1 OF 1

6010006 B

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


R39 510
2 +28V ISS OPERATE
C14 22
R4 47K
C3 0.01
Q2 2N930
T1
Q3 3N68
R8 510
T2
Q1 2N930
R1 332K
1 G CDU FINE ERROR 3
R6 332K
C2 1.0
R9 510
Q4 3N68
R10 1500
4 1 G CDU FINE ERROR TELEMETRY HI
R3 237K
C4 1.6
R2 499K
R5 24K
C1 33
R7 10K
R16 47K
C7 0.01
Q6 2N930
T3
Q7 3N68
R20 510
T4
Q5 2N930
R13 332K
MG CDU FINE ERROR 6
R18 332K
C6 1.0
R21 510
Q8 3N68
R22 1500
7 MG CDU FINE ERROR TELEMETRY HI
R15 237K
C8 1.6
R14 499K
R17 24K
C5 33
R19 10K
R28 47K
C11 0.01
Q10 2N930
T5
Q11 3N68
R32 510
T6
Q9 2N930
R25 332K
OG CDU FINE ERROR 14
R30 332K
C10 1.0
R33 510
Q12 3N68
R34 1500
12 OG CDU FINE ERROR TELEMETRY HI
R27 237K
C12 1.6
R26 499K
R29 24K
C9 33
R31 10K
13 2.5V BIAS HI
CDU OV 8
THERMISTOR LO 15
Q13 2N720A
1 STRUCTURE GROUND
IMU 28V 800CPS 1% HI 16
LO 17
T7
BLU
RED
BLK
GRN
CR10 IN645
R37 160
C13 120
CR11 IN825
22 TELEMETRY 2.5V BIAS LO
R38 1000
PIPA CAL MOD THERMISTOR HI TELEMETRY HI 11
9 +28V ISS STAND BY
21 HI IRIG TEMP. TELEM.
ISS OV 5
IRIG SENSOR HI 18
A1
IRIG TEMP AMP. 2001466
NC
R40
SEE NOTE 2
SCALING RESISTOR
IRIG SENSOR COMMON 20
IRIG SENSOR LO 19

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. AMPLIFIER & R40 ARE MATCHED COMPONENTS. R40 SHALL BE SELECTED FROM CHART AS MARKED ON AMPLIFIER.

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1010364-735	RESISTOR	332K	±1%	1/8W
R2	1010364-769		499K	±1%	1/8W
R3	1010364-707		237K	±1%	1/8W
R4	1006750-72		47K	±2%	1/4W
R5	1006750-65		24K	±2%	1/4W
R6	1010364-735		332K	±1%	1/8W
R7	1006750-56		10K	±2%	1/4W
R8	1006750-25		510	±2%	1/4W
R9	1006750-25		510	±2%	1/4W
R10	1006750-36		1500	±2%	1/4W
R13	1010364-735		332K	±1%	1/8W
R14	1010364-769		499K	±1%	1/8W
R15	1010364-707		237K	±1%	1/8W
R16	1006750-72		47K	±2%	1/4W
R17	1006750-65		24K	±2%	1/4W
R18	1010364-735		332K	±1%	1/8W
R19	1006750-56		10K	±2%	1/4W
R20	1006750-25		510	±2%	1/4W
R21	1006750-25		510	±2%	1/4W
R22	1006750-36		1500	±2%	1/4W
R25	1010364-735		332K	±1%	1/8W
R26	1010364-769		499K	±1%	1/8W
R27	1010364-707		237K	±1%	1/8W
R28	1006750-72		47K	±2%	1/4W
R29	1006750-65		24K	±2%	1/4W
R30	1010364-735		332K	±1%	1/8W
R31	1006750-56		10K	±2%	1/4W
R32	1006750-25		510	±2%	1/4W
R33	1006750-25		510	±2%	1/4W
R34	1006750-36		1500	±2%	1/4W
R37	1006750-13		160	±2%	1/4W
R38	1010364-251		1000	±1%	1/8W
R39	1006750-25	RESISTOR	510	±2%	1/4W
R40	SEE NOTE 2	RESISTOR		±0.1%	1/8W
C1	1006755-34	CAPACITOR	33	±10%	20VDC
C2	1006755-69		1.0		35
C3	1006777-31		0.01		100
C4	1010279-114		1.6		15
C5	1006755-34		33		20
C6	1006755-69		1.0		35
C7	1006777-31		0.01		100
C8	1010279-114		1.6		15
C9	1006755-34		33		20
C10	1006755-69		1.0		35
C11	1006777-31		0.01		100
C12	1010279-114		1.6		15
C13	1006755-15		120		10
C14	1006755-134	CAPACITOR	22	±10%	50VDC
CR10	1010837-001	DIODE	IN645		
CR11	1010259-001	DIODE	IN825		
Q1	1010397-1	TRANSISTOR	2N930		
Q2	1010397-1		2N930		
Q3	1010367-000		3N68		
Q4	1010367-000		3N68		
Q5	1010397-1		2N930		
Q6	1010397-1		2N930		
Q7	1010367-000		3N68		
Q8	1010367-000		3N68		
Q9	1010397-1		2N930		
Q10	1010397-1		2N930		
Q11	1010367-000		3N68		
Q12	1010367-000		3N68		
Q13	1010357-1	TRANSISTOR	2N720A		
T1	1010274	TRANSFORMER			
T2	1010365				
T3	1010274				
T4	1010365				
T5	1010274				
T6	1010365				
T7	1010466	TRANSFORMER			
A1	2001466	AMPLIFIER			

REVISIONS 24717

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REVISED PER TDRR 26031			[illegible]	WR
B		REVISED PER TDRR 29252			15 JUN 66	
C		REVISED PER TDRR 30290			[illegible]	

R40	
PART NO	VALUE
1008878-044	14.000 K
-045	14.112
-046	14.225
-047	14.339
-048	14.454
-049	14.570
-050	14.687
-051	14.804
-052	14.922
-053	15.041
-054	15.161
-055	15.282
-056	15.404
-057	15.527
-058	15.651
-059	15.776
-060	15.902
-061	16.029
-062	16.157
-063	16.286
-064	16.416
-065	16.547
-066	16.679
-067	16.812
1008878-068	16.900 K

REF DWG:
CDU FINE ERRORS & IRIG TEMP. SIGNAL CONDITIONER
ASSY DWG NO. 6007011

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

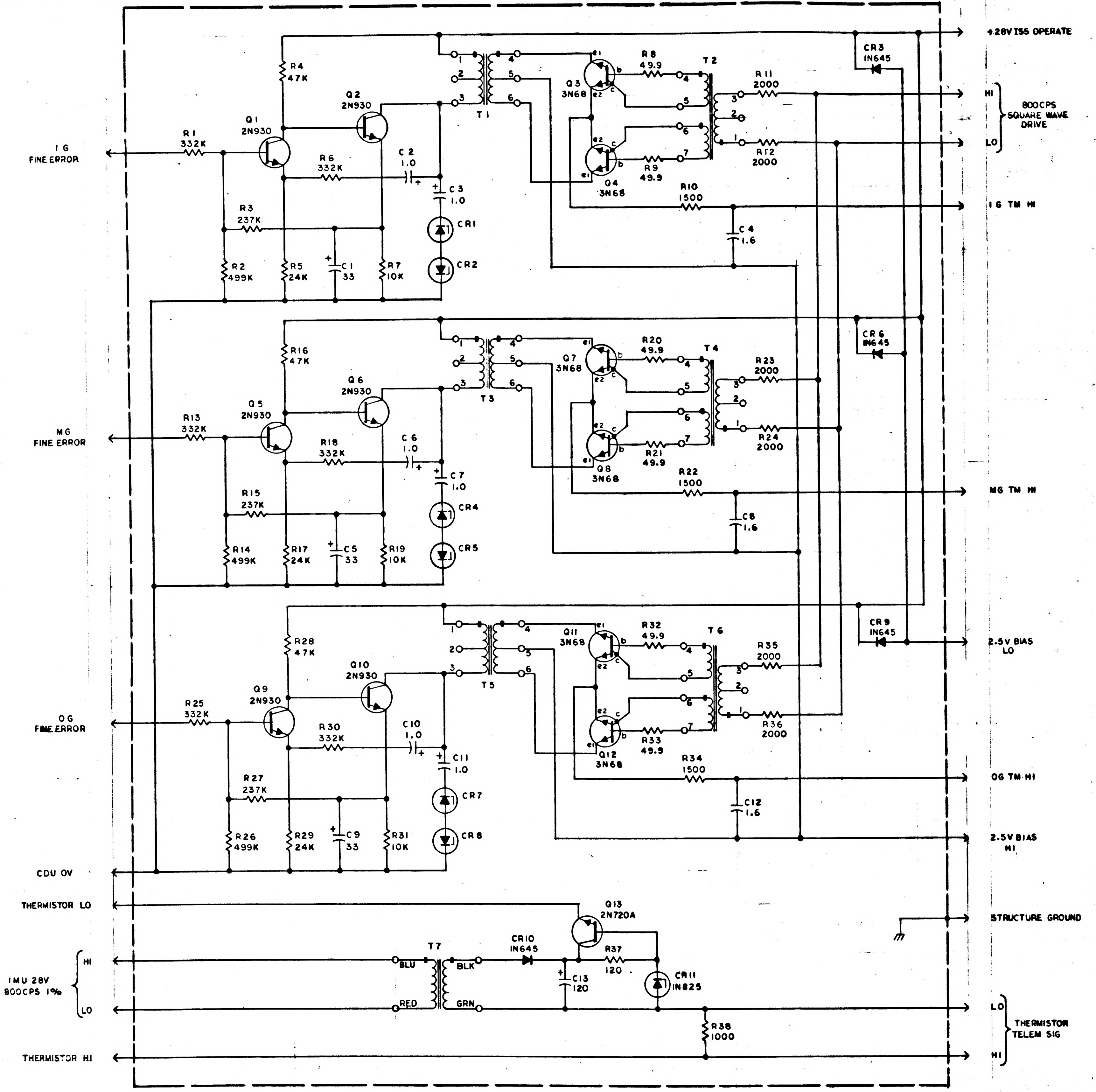
DRAWN A. Dickso 9 DEC 65
CHECKED 14 Dec 65
APPROVED Dec 65
APPROVED
APPROVED MIT W Kupfer 14 Dec 65
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
CDU FINE ERRORS & IRIG TEMP SIGNAL CONDITIONER

CODE IDENT NO 80230
SIZE E
DRAWING NO. 6010006
SCALE —
SHEET OF 1

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


+28V ISS OPERATE
I G
FINE ERROR
R1
332K
Q1
2N930
Q2
2N930
R4
47K
R6
332K
C2
1.0
C3
1.0
R3
237K
R2
499K
R5
24K
C1
33
R7
10K
CR1
CR2
T1
Q3
3N68
Q4
3N68
R8
49.9
R9
49.9
T2
R11
2000
R12
2000
R10
1500
C4
1.6
CR3
IN645
HI
LO
800CPS
SQUARE WAVE
DRIVE
I G TM HI
M G
FINE ERROR
R13
332K
Q5
2N930
Q6
2N930
R16
47K
R18
332K
C6
1.0
C7
1.0
R15
237K
R14
499K
R17
24K
C5
33
R19
10K
CR4
CR5
T3
Q7
3N68
Q8
3N68
R20
49.9
R21
49.9
T4
R23
2000
R24
2000
R22
1500
C8
1.6
CR6
IN645
MG TM HI
O G
FINE ERROR
R25
332K
Q9
2N930
Q10
2N930
R28
47K
R30
332K
C10
1.0
C11
1.0
R27
237K
R26
499K
R29
24K
C9
33
R31
10K
CR7
CR8
T5
Q11
3N68
Q12
3N68
R32
49.9
R33
49.9
T6
R35
2000
R36
2000
R34
1500
C12
1.6
CR9
IN645
2.5V BIAS
LO
OG TM HI
2.5V BIAS
HI
CDU OV
THERMISTOR LO
Q13
2N720A
STRUCTURE GROUND
IMU 28V
800CPS 1ϕ
HI
LO
T7
BLU
RED
BLK
GRN
CR10
IN645
C13
120
R37
120
CR11
IN825
R38
1000
THERMISTOR
TELEM SIG
LO
HI
THERMISTOR HI

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1010364-735	RESISTOR	332K	±1%	1/8W
R2	1010364-769		499K	±1%	1/8W
R3	1010364-707		237K	±1%	1/8W
R4	1006750-72		47K	±2%	1/4W
R5	1006750-65		24K	±2%	1/4W
R6	1010364-735		332K	±1%	1/8W
R7	1006750-56		10K	±2%	1/4W
R8	1010311 -1		49.9	±1%	0.1W
R9	1010311 -1		49.9	±1%	0.1W
R10	1006750-36		1500	±2%	1/4W
R11	1006750-39		2000	±2%	1/4W
R12	1006750-39		2000	±2%	1/4W
R13	1010364-735		332K	±1%	1/8W
R14	1010364-769		499K	±1%	1/8W
R15	1010364-707		237K	±1%	1/8W
R16	1006750-72		47K	±2%	1/4W
R17	1006750-65		24K	±2%	1/4W
R18	1010364-735		332K	±1%	1/8W
R19	1006750-56		10K	±2%	1/4W
R20	1010311 -1		49.9	±1%	0.1W
R21	1010311 -1		49.9	±1%	0.1W
R22	1006750-36		1500	±2%	1/4W
R23	1006750-39		2000	±2%	1/4W
R24	1006750-39		2000	±2%	1/4W
R25	1010364-735		332K	±1%	1/8W
R26	1010364-769		499K	±1%	1/8W
R27	1010364-707		237K	±1%	1/8W
R28	1006750-72		47K	±2%	1/4W
R29	1006750-65		24K	±2%	1/4W
R30	1010364-735		332K	±1%	1/8W
R31	1006750-56		10K	±2%	1/4W
R32	1010311 -1		49.9	±1%	0.1W
R33	1010311 -1		49.9	±1%	0.1W
R34	1006750-36		1500	±2%	1/4W
R35	1006750-39		2000	±2%	1/4W
R36	1006750-39		2000	±2%	1/4W
R37	1006750-10		120	±2%	1/4W
R38	1010364-251	RESISTOR	1000	±1%	1/8W
C1	1006755-34	CAPACITOR	33	±10%	20VDC
C2	1006755-118		1.0		50
C3	1006755-118		1.0		50
C4	1010279-114		1.6		15
C5	1006755-34		33		20
C6	1006755-118		1.0		50
C7	1006755-118		1.0		50
C8	1010279-114		1.6		15
C9	1006755-34		33		20
C10	1006755-118		1.0		50
C11	1006755-118		1.0		50
C12	1010279-114		1.6		15
C13	1006755-15	CAPACITOR	120	±10%	10VDC
CR1	1010372-15	DIODE			
CR2	1010372-15				
CR3	1010837-001		IN645		
CR4	1010372-15				
CR5	1010372-15				
CR6	1010837-001		IN645		
CR7	1010372-15				
CR8	1010372-15				
CR9	1010837-001		IN645		
CR10	1010837-001		IN645		
CR11	1010259-001	DIODE	IN825		
Q1	1010397 -1	TRANSISTOR	2N930		
Q2	1010397 -1		2N930		
Q3	1010367		3N68		
Q4	1010367		3N68		
Q5	1010397 -1		2N930		
Q6	1010397 -1		2N930		
Q7	1010367		3N68		
Q8	1010367		3N68		
Q9	1010397 -1		2N930		
Q10	1010397 -1		2N930		
Q11	1010367		3N68		
Q12	1010367		3N68		
Q13	1010357 -1	TRANSISTOR	2N720A		
T1	1010274	TRANSFORMER			
T2	1010365				
T3	1010274				
T4	1010365				
T5	1010274				
T6	1010365				
T7	1010466	TRANSFORMER			

REVISIONS 24717

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED

REF DWG:

CDU FINE ERROR SIGNAL CONDITIONER ASSY
DWG NO.

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± —— ± —— ± ——
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

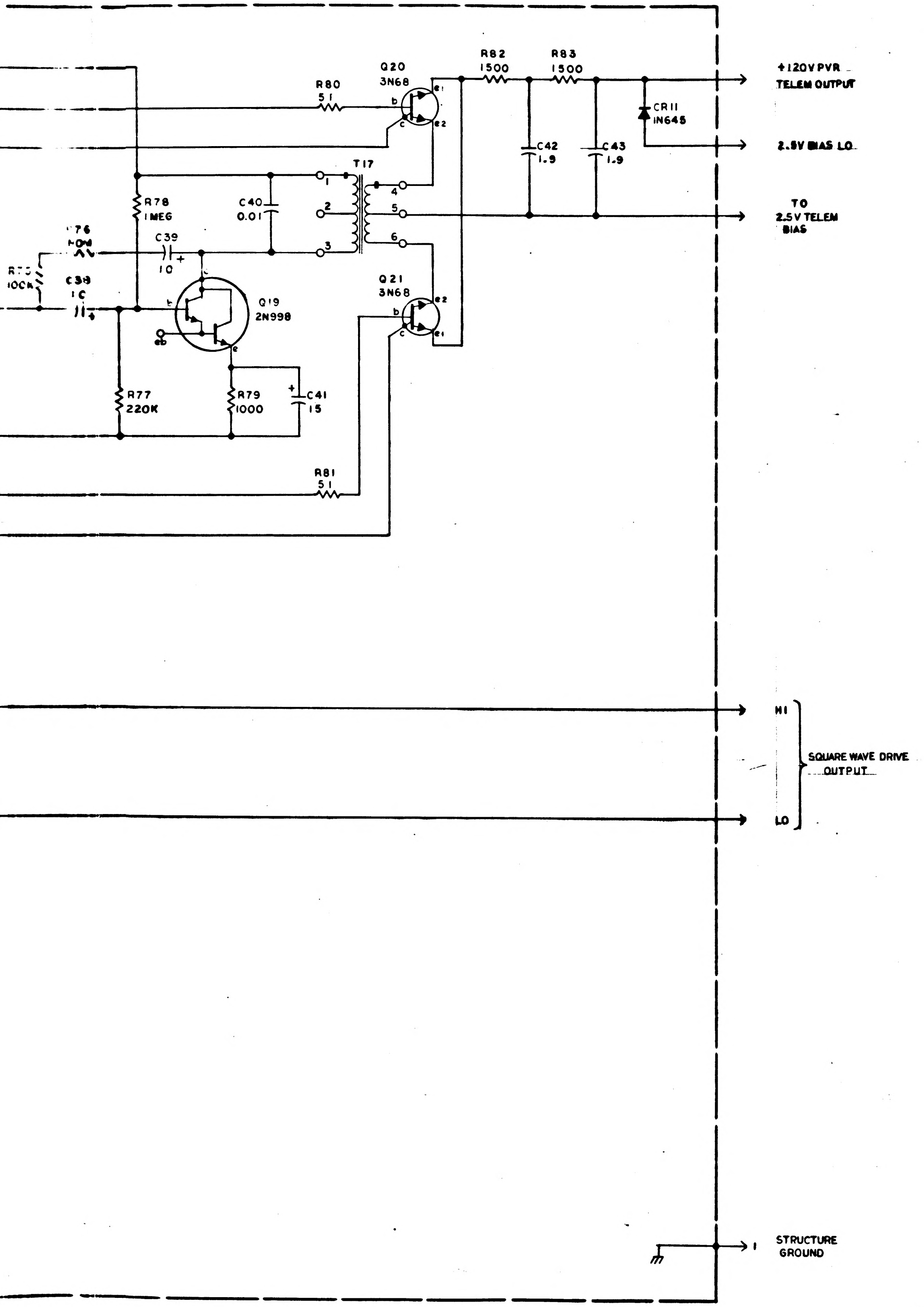
DRAWN A. DiLeo 9 Dec 65
CHECKED 14 Dec 65
APPROVED D. 14 Dec 65
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
CDU FINE ERROR SIGNAL CONDITIONER

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6010006
SCALE ——
SHEET 1 OF 1

REVISIONS 26625.						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REPLACES REV - WITH CHANGE PER TDRR 26625				



REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
R 1	1006750-25	RESISTOR	510	2	1/4 W
R 2	1010364-769		499K	1	1/8 W
R 3	1010364-769		499K	1	1/8 W
R 4	1010311-291		52.3K	1	1/10 W
R 5	1010364-769		499K	1	1/8 W
R 6	1006750-72		47K	2	1/4 W
R 7	1006750-65		24K	2	1/4 W
R 8	1010311-120		866	1	1/10W
R 9	1010364-707		237K	1	1/8 W
R10	1006750-56		10K	2	1/4 W
R11	SEE NOTE 2		NOM	1	1/10 W
R12	1006750-36		1500	2	1/4 W
R13	1006750-25		510	2	1/4 W
R14	1006750-25		510	2	1/4 W
R15	1006750-36		1500	2	1/4 W
R18	1010364-769		499K	1	1/8 W
R19	1010364-769		499K	1	1/8 W
R20	1010311-291		52.3K	1	1/10 W
R21	1010364-769		499K	1	1/8 W
R22	1006750-72		47K	2	1/4 W
R23	1006750-65		24K	2	1/4 W
R24	1010311-120		866	1	1/10W
R25	1010364-707		237K	1	1/8 W
R26	1006750-56		10K	2	1/4 W
R27	SEE NOTE 2		NOM	1	1/10 W
R28	1006750-36		1500	2	1/4 W
R29	1006750-25		510	2	1/4 W
R30	1006750-25		510	2	1/4 W
R31	1006750-36		1500	2	1/4 W
R34	1010364-769		499K	1	1/8 W
R35	1010364-769		499K	1	1/8 W
R36	1010311-291		52.3K	1	1/10 W
R37	1010364-769		499K	1	1/8 W
R38	1006750-72		47K	2	1/4 W
R39	1006750-65		24K	2	1/4 W
R40	1010311-120		866	1	1/10W
R41	1010364-707		23 K	1	1/8 W
R42	1006750-56		10K	2	1/4 W
R43	SEE NOTE 2		NOM	1	1/10 W
R44	1006750-36		1500	2	1/4 W
R45	1006750-25		510	2	1/4 W
R46	1006750-25		510	2	1/4 W
R47	1006750-36		1500	2	1/4 W
R50	1010364-769		499K	1	1/8 W
R51	1010364-769		499K	1	1/8 W
R52	1010311-291		52.3K	1	1/10W
R53	1010364-769		499K	1	1/8 W
R54	1006750-72		47K	2	1/4 W
R55	1006750-65		24K	2	1/4 W
R56	1010311-120		866	1	1/10 W
R57	1010364-707		237K	1	1/8 W
R58	1006750-56		10K	2	1/4 W
R59	SEE NOTE 2		NOM	1	1/10 W
R60	1006750-36		1500	2	1/4 W
R61	-25		510		
R62	-25		510		
R63	-36		1500		
R64	1006750-47		4300	2	1/4 W
R65	1010377-20		110K	.1	1/10W
R66	1010377-54		12.5K	.1	1/10W
R67	SEE NOTE 2		NOM	2	1/4 W
R68	1006750-38		1800		
R69	-52		6800		
R70	-52		6800		
R71	-1		51		
R72	-1		51		
R73	-63		20K		
R74	-56		10K		
R75	1006750-80		100K		
R76	SEE NOTE 2		NOM	2	
R77	1010368-105		220K	5	
R78	1010368-121		1 MEG	5	
R79	1006750-32		1000	2	
R80	-1		51		
R81	-1		51		
R82	-36		1500		
R83	-36		1500		
R84	1006750-65		24K	2	
R85	1010368-128		2MEG	5	
R86	1006750-56		10K	2	
R87	-32		1000		
R88	-8		100		
R89	-56		10K		
R90	-41		2400		
R91	1006750-41	RESISTOR	2400	2	1/4 W
CR1	1010837-001	DIODE	IN645		
CR2	1010837-001		IN645		
CR3	1010837-001		IN645		
CR4	1010837-001		IN645		
CR5	1010385		IN660		
CR6	1010385		IN660		
CR7	1010259-000		IN825		
CR8	1010259-000		IN825		
CR9	1010372-12				
CR10	1010372-12				
CR11	1010837-001		IN645		
CR12	1010385	DIODE	IN660		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
C 1	1006755-89	CAPACITOR	47	10	35 VDC
C 2	1010410-19		1200PF	2	500
C 3	SEE NOTE 2		NOM	2	—
C 4	1006755-31		10	10	20
C 5	1006755-34		33		20
C 6	1006755-69		1.0		35
C 7	1006755-34		33		20
C 8	1010279-16		1.9		6
C 9	1010279-16		1.9	10	6
C10	1010410-19		1200PF	2	500
C11	SEE NOTE 2		NOM	2	—
C12	1006755-31		10	10	20
C13	1006755-34		33		20
C14	1006755-69		1.0		35
C15	1006755-34		33		20
C16	1010279-16		1.9		6
C17	1010279-16		1.9	10	6
C18	1010410-19		1200PF	2	500
C19	SEE NOTE 2		NOM	2	—
C20	1006755-31		10	10	20
C21	1006755-34		33		20
C22	1006755-69		1.0		35
C23	1006755-34		33		20
C24	1010279-16		1.9		6
C25	1010279-16		1.9	10	6
C26	1010410-19		1200PF	2	500
C27	SEE NOTE 2		NOM	2	—
C28	1006755-31		10	10	20
C29	1006755-34		33		20
C30	1006755-69		1.0		35
C31	1006755-34		33		20
C32	1010279-16		1.9		6
C33	1010279-16		1.9		6
C34	1006755-132		15		50
C35	1006755-132		15		50
C36	[illegible]		6.8		35
C37	1010279-104		0.23		15
C38	1006755-69		10		35
C39	1006755-69		10	10	35
C40	1006777-31		0.01	10	100
C41	1006755-33		15	10	20
C42	1010279-16		1.9		6
C43	1010279-16		1.9		6
C44	1006755-69		1.0		35
C45	1006755-31		10		20
C46	1006755-130	CAPACITOR	10	10	50 VDC
Q 1	1010397-1	TRANSISTOR	2N930		
Q 2	1010397-1	TRANSISTOR	2N930		
Q 3	1010367	CHOPPER	3N68		
Q 4	1010367	CHOPPER	3N68		
Q 5	1010397-1	TRANSISTOR	2N930		
Q 6	1010397-1	TRANSISTOR	2N930		
Q 7	1010367	CHOPPER	3N68		
Q 8	1010367	CHOPPER	3N68		
Q 9	1010397-1	TRANSISTOR	2N930		
Q10	1010397-1	TRANSISTOR	2N930		
Q11	1010367	CHOPPER	3N68		
Q12	1010367	CHOPPER	3N68		
Q13	1010397-1	TRANSISTOR	2N930		
Q14	1010397-1	TRANSISTOR	2N930		
Q15	1010367	CHOPPER	3N68		
Q16	1010367	CHOPPER	3N68		
Q17	1010367	CHOPPER	3N68		
Q18	1010367	CHOPPER	3N68		
Q19	1010342	TRANSISTOR	2N998		
Q20	1010367	CHOPPER	3N68		
Q21	1010367	CHOPPER	3N68		
Q22	1010397-1	TRANSISTOR	2N930		
Q23	1010357-1	TRANSISTOR	2N720A		
T1	1008832	TRANSFORMER			
T2	1008842				
T3	1010323				
T4	1008832				
T5	1008842				
T6	1010323				
T7	1008832				
T8	1008842				
T9	1010323				
T10	1008832				
T11	1008842				
T12	1010323				
T13	1010710				
T14	1010365				
T15	1010365				
T16	1010710				
T17	1010274				
T18	1010274	TRANSFORMER			

R67
1006750-1 THRU 1006750-44

R76
1006750-32 THRU 1006750-80

R11, R27, R43, R59	
PART NO.	VALUE
1010311-296	59.0K
-297	60.4K
-298	61.9K
-299	63.4K
-300	64.9K
-301	66.5K
-302	68.1K
-303	69.8K
-304	71.5K
-305	73.2K
-306	75.0K
-307	76.8K
-308	78.7K
-309	80.6K
-310	82.5K
-311	84.5K
-312	86.6K
-313	88.7K
1010311-314	90.9K

C3, C11, C19, C27		
PART NO.	VALUE	RATING
1010410-1	220 PF	500VDC
-2	240	
-3	270	
-4	300	
-5	330	
-6	360	
-7	390	
-8	430	
-9	470	
-10	510	500VDC
-11	560	300VDC
-12	620	
-13	680	
-14	750	
-15	820	
-16	910	
-17	1000	
-18	1100	
1010410-19	1200 PF	300VDC

REF DWG:
RADAR RESOLVERS & 120V PIPA SUPPLY ASSY
DWG NO. 6007012

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. D. Lao
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
SIGNAL CONDITIONER
RADAR RESOLVERS & 120V PIPA SUPPLY

CODE IDENT NO.	SIZE	DRAWING NO.
80230	J	6010007

SCALE — SHEET OF 1

6010007 A

E3

MASTER

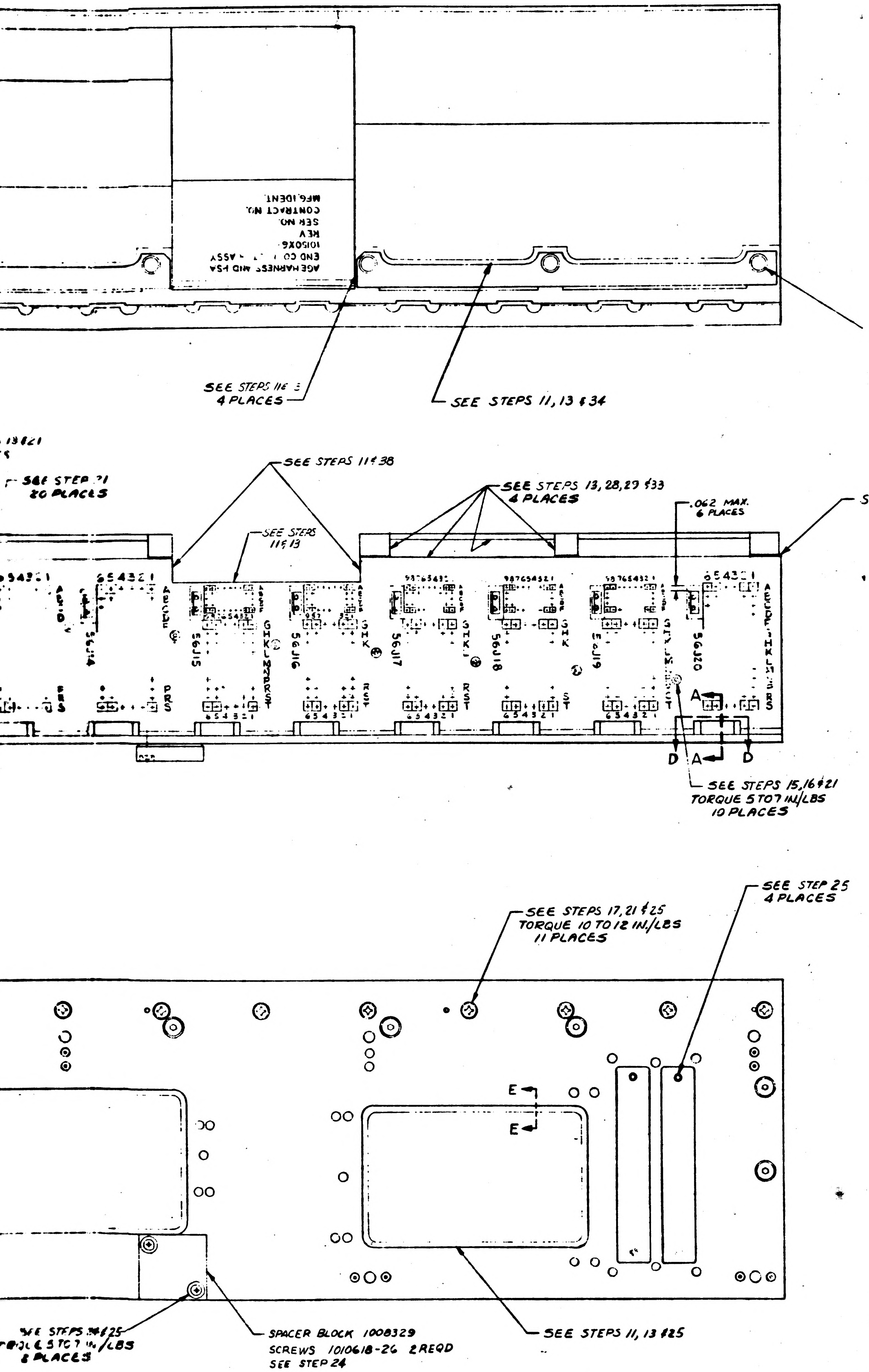
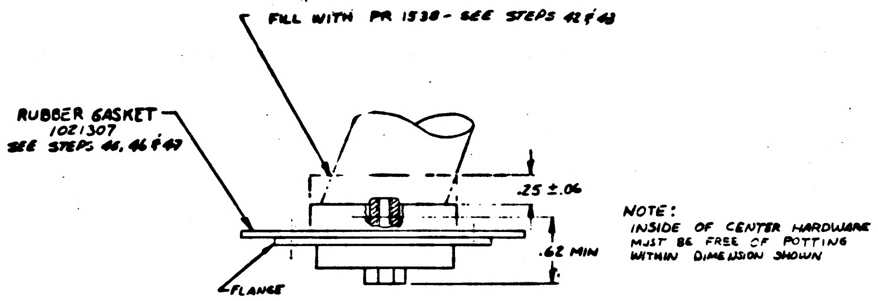
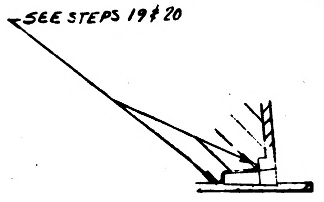

MFG. IDENT
CONTRACT NO.
SER NO.
REV
10150X6
SEE STEP 27
6 PLACES
SEE STEPS 11 & 13
4 PLACES
SEE STEPS 11, 13 & 34
13 & 21
SEE STEP 21
20 PLACES
SEE STEPS 11 & 38
SEE STEPS 11 & 13
SEE STEPS 13, 28, 29 & 33
4 PLACES
.062 MAX.
6 PLACES
SEE STEPS 28 & 30
6 PLACES
56J14
56J15
56J16
56J17
56J18
56J19
56J20
A
D
SEE STEPS 15, 16 & 21
TORQUE 5 TO 7 IN/LBS
10 PLACES
SEE STEPS 17, 21 & 25
TORQUE 10 TO 12 IN/LBS
11 PLACES
SEE STEP 25
4 PLACES
E
SEE STEPS 24 & 25
TORQUE 5 TO 7 IN/LBS
8 PLACES
SPACER BLOCK 1008329
SCREWS 1010618-26 2 REQD
SEE STEP 24
SEE STEPS 11, 13 & 25

FIGURE 2. MOISTURE SEALING

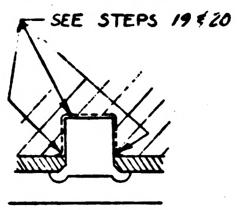

FILL WITH PR 1538 - SEE STEPS 42 & 43
RUBBER GASKET
1021307
SEE STEPS 46, 46 & 47
.25 ± .06
.62 MIN
FLANGE

NOTE:
INSIDE OF CENTER HARDWARE MUST BE FREE OF POTTING WITHIN DIMENSION SHOWN

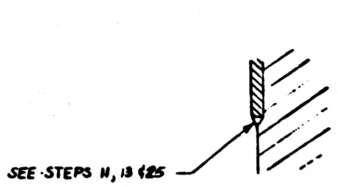
FIGURE 2. CONNECTORS 56J1 THRU 56J5


SEE STEPS 19 & 20

SECTION A-A
TYP SECTION (10 PLACES)


SEE STEPS 19 & 20

SECTION D-D
TYP SECTION 10 PLACES


SEE STEPS 11, 13 & 25

SECTION E-E
TYP SECTION 2 PLACES

F2

MASTER

Sheet 17 of 18
Part No 0102614
Date: 3 Jan. 66
TDRR 26512
Revision A

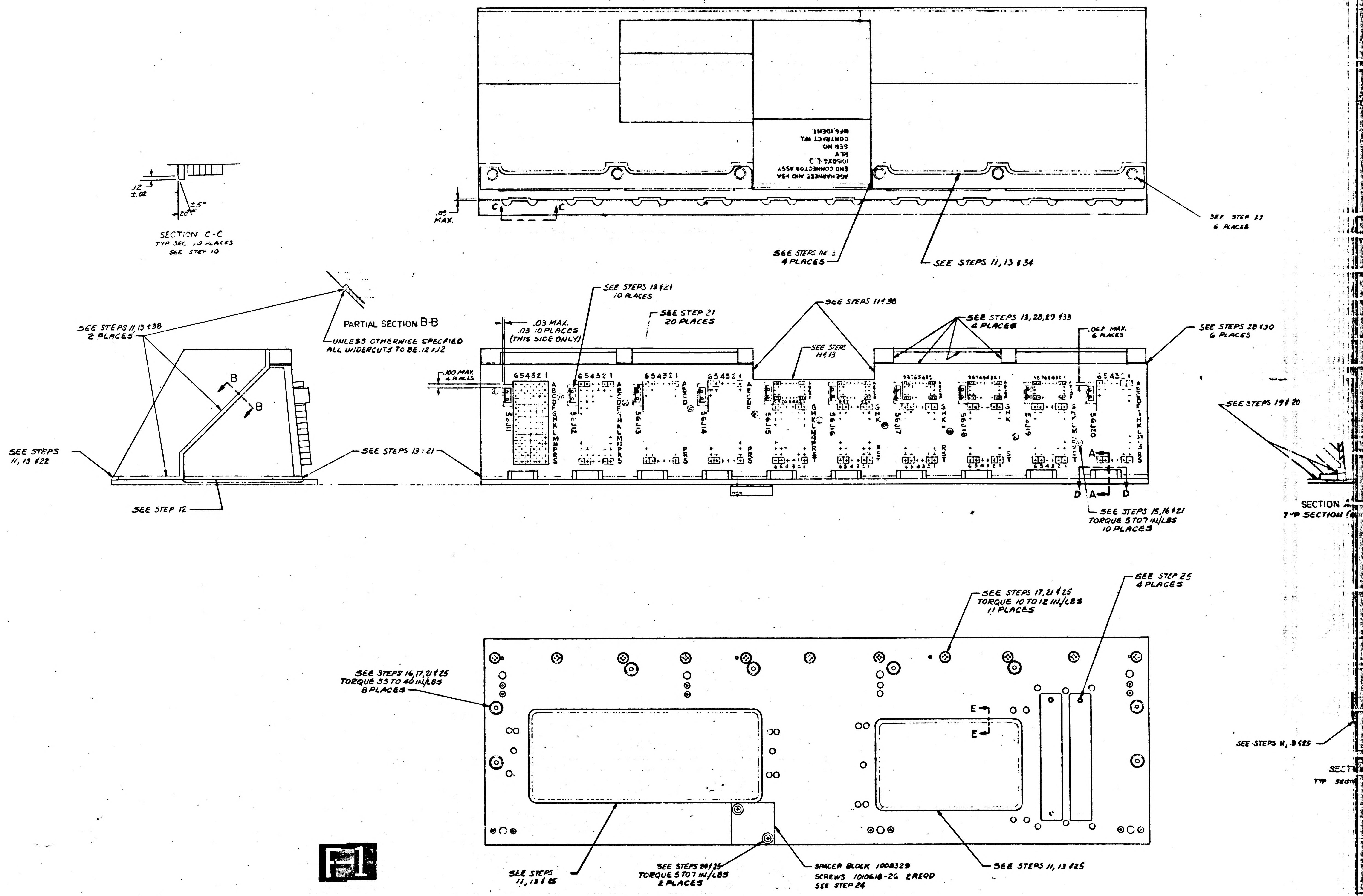
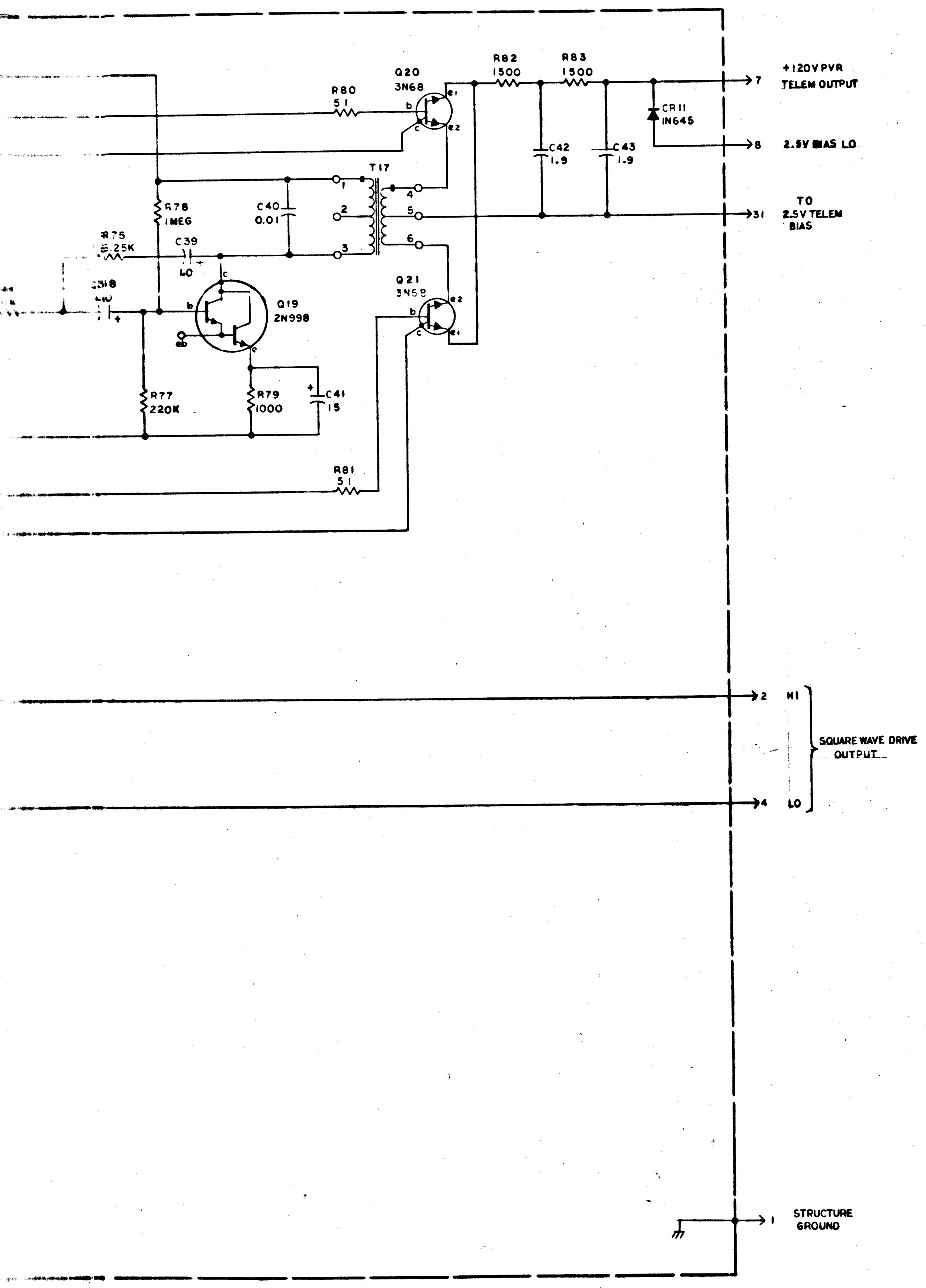

AGE HARNESS AND PSA
END CONNECTOR ASSY
10150X6-[ ]
REV
SER NO.
CONTRACT NO.
MFG. IDENT.
.12
±.02
±5°
20°
SECTION C-C
TYP SEC 10 PLACES
SEE STEP 10
.03
MAX.
C
C
SEE STEPS 11 & 3
4 PLACES
SEE STEPS 11, 13 & 34
SEE STEP 27
6 PLACES
SEE STEPS 11, 13 & 38
2 PLACES
PARTIAL SECTION B-B
UNLESS OTHERWISE SPECFIED
ALL UNDERCUTS TO BE .12 X .12
B
B
SEE STEPS
11, 13 & 22
SEE STEPS 13 & 21
SEE STEP 12
SEE STEPS 13 & 21
10 PLACES
SEE STEP 21
20 PLACES
.03 MAX.
.03 10 PLACES
(THIS SIDE ONLY)
.100 MAX
4 PLACES
SEE STEPS 11 & 38
SEE STEPS
11 & 13
SEE STEPS 13, 28, 29 & 33
4 PLACES
.062 MAX.
6 PLACES
SEE STEPS 28 & 30
6 PLACES
SEE STEPS 19 & 20
56J11
56J12
56J13
56J14
56J15
56J16
56J17
56J18
56J19
56J20
A
A
D
D
SEE STEPS 15, 16 & 21
TORQUE 5 TO 7 IN/LBS
10 PLACES
SECTION
TYP SECTION
SEE STEPS 17, 21 & 25
TORQUE 10 TO 12 IN/LBS
11 PLACES
SEE STEP 25
4 PLACES
SEE STEPS 16, 17, 21 & 25
TORQUE 35 TO 40 IN/LBS
8 PLACES
E
E
SEE STEPS 11, 13 & 25
SECTI
TYP SECTI
SEE STEPS
11, 13 & 25
SEE STEPS 24 & 25
TORQUE 5 TO 7 IN/LBS
2 PLACES
SPACER BLOCK 1008329
SCREWS 1010618-26 2 REQD
SEE STEP 24
SEE STEPS 11, 13 & 25
F-1

FIGURE 2. MOISTURE SEALING



REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
R 1	1006750-25	RESISTOR	510	2	1/4 W
R 2	1010364-769		499K	1	1/8 W
R 3	1010364-769		499K	1	1/8 W
R 4	1010311-291		52.3K	1	1/10 W
R 5	1010364-769		499K	1	1/8 W
R 6	1006750-72		47K	2	1/4 W
R 7	1006750-65		24K	2	1/4 W
R 8	1010311-120		866	1	1/10W
R 9	1010364-707		237K	1	1/8 W
R10	1006750-56		10K	2	1/4 W
R11	1010311-304		71.5K	1	1/10 W
R12	1006750-36		1500	2	1/4 W
R13	1006750-25		510	2	1/4 W
R14	1006750-25		510	2	1/4 W
R15	1006750-36		1500	2	1/4 W
R18	1010364-769		499K	1	1/8 W
R19	1010364-769		499K	1	1/8 W
R20	1010311-291		52.3K	1	1/10 W
R21	1010364-769		499K	1	1/8 W
R22	1006750-72		47K	2	1/4 W
R23	1006750-65		24K	2	1/4 W
R24	1010311-120		866	1	1/10 W
R25	1010364-707		237K	1	1/8 W
R26	1006750-56		10K	2	1/4 W
R27	1010311-304		71.5K	1	1/10 W
R28	1006750-36		1500	2	1/4 W
R29	1006750-25		510	2	1/4 W
R30	1006750-25		510	2	1/4 W
R31	1006750-36		1500	2	1/4 W
R34	1010364-769		499K	1	1/8 W
R35	1010364-769		499K	1	1/8 W
R36	1010311-291		52.3K	1	1/10 W
R37	1010364-769		499K	1	1/8 W
R38	1006750-72		47K	2	1/4 W
R39	1006750-65		24K	2	1/4 W
R40	1010311-120		866	1	1/10 W
R41	1010364-707		237K	1	1/8 W
R42	1006750-56		10K	2	1/4 W
R43	1010311-304		71.5K	1	1/10 W
R44	1006750-36		1500	2	1/4 W
R45	1006750-25		510	2	1/4 W
R46	1006750-25		510	2	1/4 W
R47	1006750-36		1500	2	1/4 W
R50	1010364-769		499K	1	1/8 W
R51	1010364-769		499K	1	1/8 W
R52	1010311-291		52.3K	1	1/10W
R53	1010364-769		499K	1	1/8 W
R54	1006750-72		47K	2	1/4 W
R55	1006750-65		24K	2	1/4 W
R56	1010311-120		866	1	1/10 W
R57	1010364-707		237K	1	1/8 W
R58	1006750-56		10K	2	1/4 W
R59	1010311-304		71.5K	1	1/10 W
R60	1006750-36		1500	2	1/4 W
R61	-25		510		
R62	-25		510		
R63	↓ -36		1500	↓	↓
R64	1006750-47		4300	2	1/4 W
R65	1010377-20		110K	.1	1/10W
R66	1010364-471		14.K	1	1/8 W
R68	1006750-38		1800	2	1/4 W
R69	1010364-411		6810	1	1/8 W
R70	1010364-411		6810	1	1/8 W
R71	1006750-1		51	2	1/4 W
R72	1006750-1		51	2	1/4 W
R73	1010364-501		20K	1	1/8 W
R74	1010364-443		10K	1	1/8 W
R75	1010377-103		116.25K	1	1/10 W
R77	1010368-105		220K	5	1/4 W
R78	1010368-121		1 MEG	5	
R79	1006750-32		1000	2	
R80	-1		51		
R81	-1		51		
R82	-36		1500		
R83	↓ -36		1500	↓	
R84	1006750-65		24K	2	
R85	1010368-128		2MEG	5	
R86	1006750-56		10K	2	
R87	-32		1000		
R88	-8		100		
R89	-56		10K		
R90	↓ -41	↓	2400	↓	↓
R91	1006750-41	RESISTOR	2400	2	1/4 W
CR1	1010837-001	DIODE	IN645		
CR2	1010837-001		IN645		
CR3	1010837-001		IN645		
CR4	1010837-001		IN645		
CR5	1010385		IN660		
CR6	1010385		IN660		
CR7	1010259-000		IN825		
CR8	1010259-000		IN825		
CR9	1010372-12				
CR10	1010372-12				
CR11	1010837-001	↓	IN645		
CR12	1010385	DIODE	IN660		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
C 1	1006755-89	CAPACITOR	47	10	35 VDC
C 2	1010410-18		1100PF	2	300
C 3	1010410-10		510PF	2	500
C 4	1006755-31		10	10	20
C 5	1006755-34		33		20
C 6	1006755-69		1.0		35
C 7	1006755-34		33		20
C 8	1010279-16		1.9	↓	6
C 9	1010279-16		1.9	10	6
C10	1010410-18		1100PF	2	300
C11	1010410-10		510PF	2	500
C12	1006755-31		10	10	20
C13	1006755-34		33		20
C14	1006755-69		1.0		35
C15	1006755-34		33		20
C16	1010279-16		1.9	↓	6
C17	1010279-16		1.9	10	6
C18	1010410-18		1100PF	2	300
C19	1010410-10		510PF	2	500
C20	1006755-31		10	10	20
C21	1006755-34		33		20
C22	1006755-69		1.0		35
C23	1006755-34		33		20
C24	1010279-16		1.9	↓	6
C25	1010279-16		1.9	10	6
C26	1010410-18		1100PF	2	300
C27	1010410-10		510PF	2	500
C28	1006755-31		10	10	20
C29	1006755-34		33		20
C30	1006755-69		1.0		35
C31	1006755-34		33		20
C32	1010279-16		1.9		6
C33	1010279-16		1.9		6
C34	1006755-132		15		50
C35	1006755-132		15		50
C36	1006755-[illegible]		6.8		35
C37	1010279-104		0.23		15
C38	1006755-69		1.0	↓	35
C39	1006755-69		1.0	10	35
C40	1006777-31		0.01	10	100
C41	1006755-33		15	10	20
C42	1010279-16		1.9		6
C43	1010279-16		1.9		6
C44	1006755-69		1.0		35
C45	1006755-31	↓	10	↓	20 ↓
C46	1006755-130	CAPACITOR	10	10	50 VDC
Q 1	1010397-1	TRANSISTOR	2N930		
Q 2	1010397-1	TRANSISTOR	2N930		
Q 3	1010367	CHOPPER	3N68		
Q 4	1010367	CHOPPER	3N68		
Q 5	1010397-1	TRANSISTOR	2N930		
Q 6	1010397-1	TRANSISTOR	2N930		
Q 7	1010367	CHOPPER	3N68		
Q 8	1010367	CHOPPER	3N68		
Q 9	1010397-1	TRANSISTOR	2N930		
Q10	1010397-1	TRANSISTOR	2N930		
Q11	1010367	CHOPPER	3N68		
Q12	1010367	CHOPPER	3N68		
Q13	1010397-1	TRANSISTOR	2N930		
Q14	1010397-1	TRANSISTOR	2N930		
Q15	1010367	CHOPPER	3N68		
Q16	1010367	CHOPPER	3N68		
Q17	1010367	CHOPPER	3N68		
Q18	1010367	CHOPPER	3N68		
Q19	1010342	TRANSISTOR	2N998		
Q20	1010367	CHOPPER	3N68		
Q21	1010367	CHOPPER	3N68		
Q22	1010397-1	TRANSISTOR	2N930		
Q23	1010357-1	TRANSISTOR	2N720A		
T 1	1008832	TRANSFORMER			
T 2	1008842				
T 3	1010323				
T 4	1008832				
T 5	1008842				
T 6	1010323				
T 7	1008832				
T 8	1008842				
T 9	1010323				
T10	1008832				
T11	1008842				
T12	1010323				
T13	1010710				
T14	1010365				
T15	1010365				
T16	1010710				
T17	1010274	↓			
T18	1010274	TRANSFORMER			

REVISIONS 26625.

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		REPLACES REV - WITH CHANGE PER TDRR 26625				
B		REVISED PER TDRR 27414				WK

REF DWG:
RADAR RESOLVERS & 120V PIPA SUPPLY ASSY
DWG NO. 6007012

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. D. Lao 16 Feb 66
CHECKED
APPROVED
APPROVED
APPROVED MIT W Kupfer 23 Feb 66
APPROVED MSC

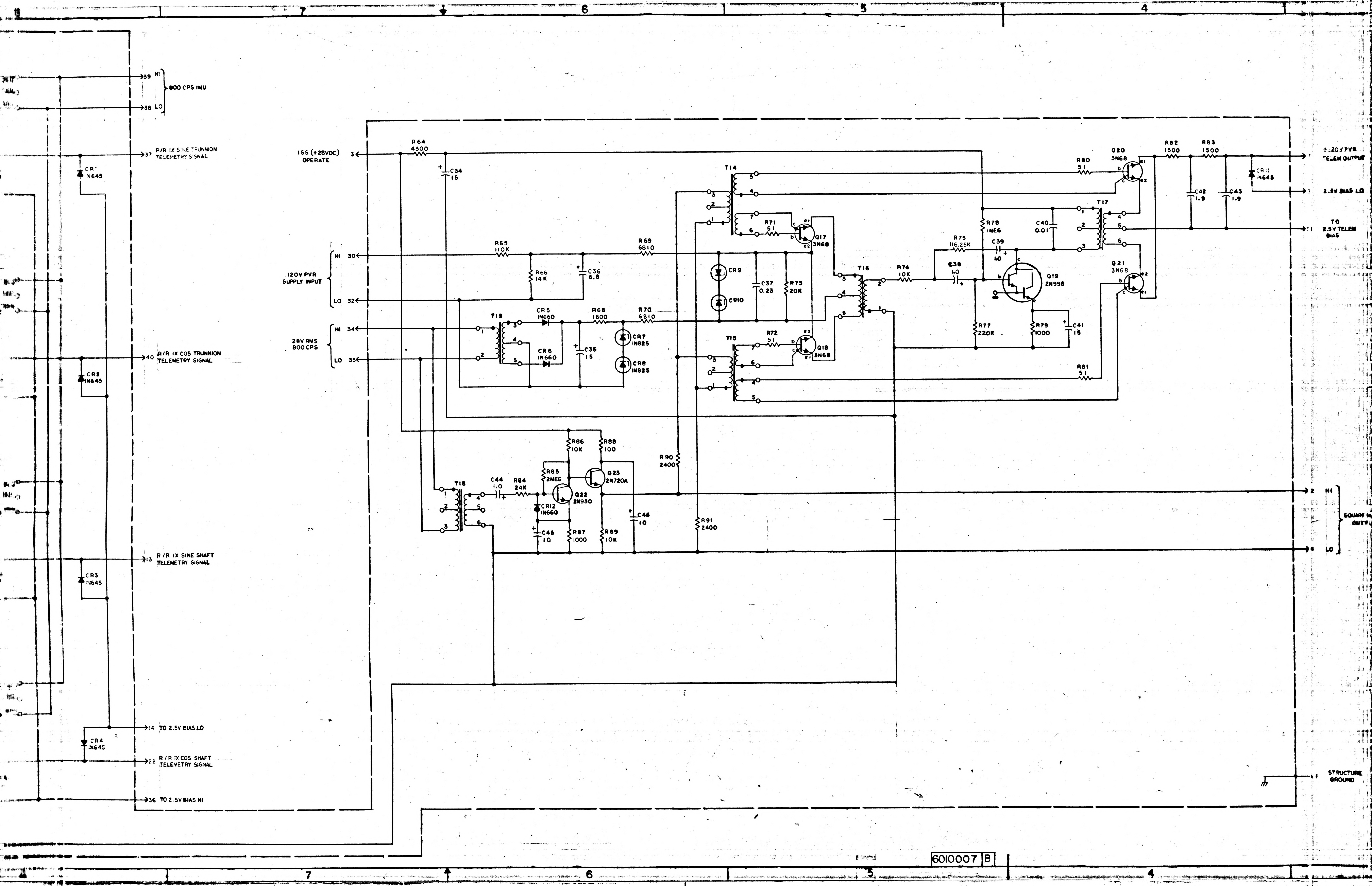
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

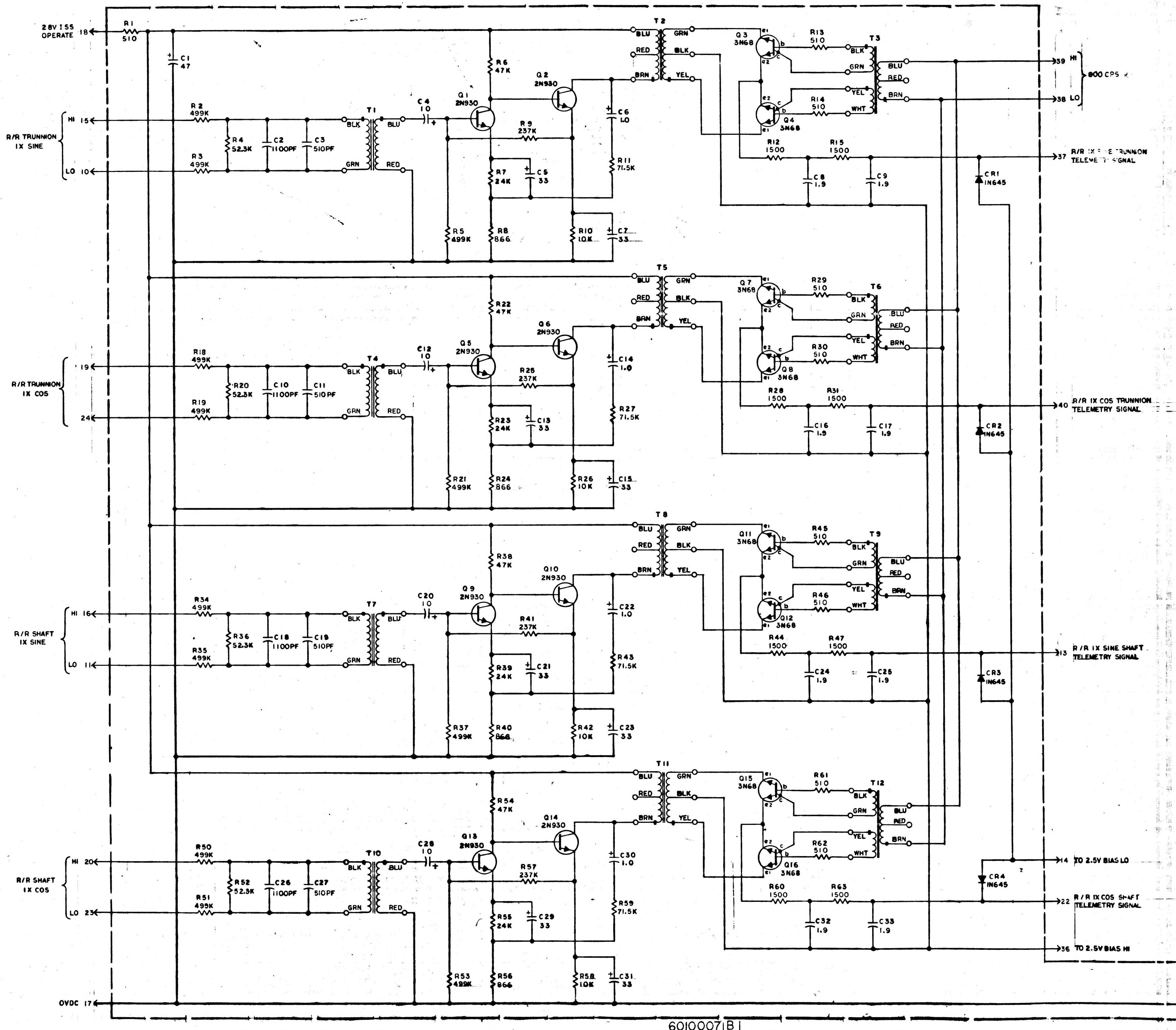
SCHEMATIC
SIGNAL CONDITIONER
RADAR RESOLVERS & 120V PIPA SUPPLY

CODE IDENT NO. 80230 | SIZE J | DRAWING NO. 6010007
SCALE — | SHEET 1 OF 1

6010007 B

MASTER


7
6
5
4
39 HI
38 LO
800 CPS IMU
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
CR1 1N645
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
CR2 1N645
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
CR3 1N645
14 TO 2.5V BIAS LO
CR4 1N645
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
ISS (+28VDC) OPERATE 3
120V PVR SUPPLY INPUT
HI 30
LO 32
28V RMS 800 CPS
HI 34
LO 35
R64 4300
C34 15
R65 110K
R66 14K
C36 6.8
R69 6810
T13
CR5 1N660
CR6 1N660
R68 1800
R70 6810
C35 15
CR7 1N825
CR8 1N825
CR9
CR10
C37 0.23
R73 20K
T14
R71 51
Q17 3N68
T15
R72 51
Q18 3N68
T16
R74 10K
R75 116.25K
C39 10
C38 40
R78 1ME6
C40 0.01
Q19 2N998
R77 220K
R79 1000
C41 15
T17
R80 51
Q20 3N68
R81 51
Q21 3N68
R82 1500
R83 1500
C42 1.9
C43 1.9
CR11 1N645
1 ±20V PVR TELEM OUTPUT
3 2.5V BIAS LO
21 TO 2.5V TELEM BIAS
T18
C44 1.0
R84 24K
R85 2MEG
Q22 2N930
CR12 1N660
C45 10
R86 10K
R87 1000
R88 100
Q23 2N720A
R89 10K
C46 10
R90 2400
R91 2400
2 HI
4 LO
SQUARE WAVE OUTPUT
1 STRUCTURE GROUND
6010007 B

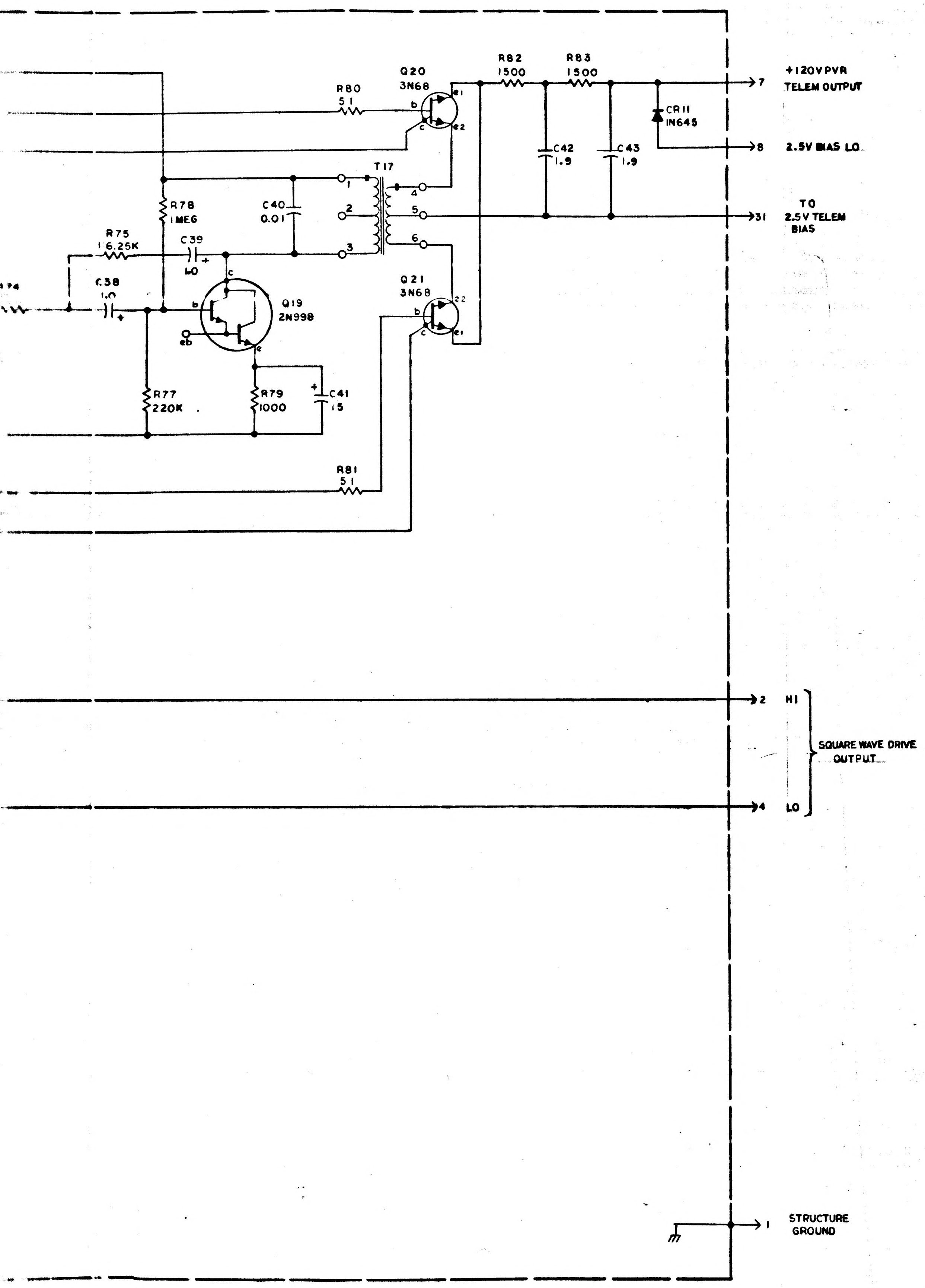


28V ISS OPERATE 18
R1 510
C1 47
R/R TRUNNION 1X SINE
HI 15
LO 10
R2 499K
R3 499K
R4 52.3K
C2 1100PF
C3 510PF
T1
BLK
BLU
GRN
RED
C4 10
Q1 2N930
R6 47K
Q2 2N930
R9 237K
C6 1.0
R7 24K
C5 33
R11 71.5K
R5 499K
R8 866
R10 10K
C7 33
T2
BLU
RED
BRN
GRN
BLK
YEL
Q3 3N68
R13 510
T3
BLK
GRN
BLU
RED
YEL
BRN
R14 510
WHT
Q4 3N68
39 HI
38 LO
800 CPS
R12 1500
R15 1500
C8 1.9
C9 1.9
CR1 1N645
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
R/R TRUNNION 1X COS
19
24
R18 499K
R19 499K
R20 52.3K
C10 1100PF
C11 510PF
T4
C12 10
Q5 2N930
R22 47K
Q6 2N930
R25 237K
C14 1.0
R23 24K
C13 33
R27 71.5K
R21 499K
R24 866
R26 10K
C15 33
T5
Q7 3N68
R29 510
T6
R30 510
Q8 3N68
R28 1500
R31 1500
C16 1.9
C17 1.9
CR2 1N645
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
R/R SHAFT 1X SINE
HI 16
LO 11
R34 499K
R35 499K
R36 52.3K
C18 1100PF
C19 510PF
T7
C20 10
Q9 2N930
R38 47K
Q10 2N930
R41 237K
C22 1.0
R39 24K
C21 33
R43 71.5K
R37 499K
R40 866
R42 10K
C23 33
T8
Q11 3N68
R45 510
T9
R46 510
Q12 3N68
R44 1500
R47 1500
C24 1.9
C25 1.9
CR3 1N645
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
R/R SHAFT 1X COS
HI 20
LO 23
R50 499K
R51 499K
R52 52.3K
C26 1100PF
C27 510PF
T10
C28 10
Q13 2N930
R54 47K
Q14 2N930
R57 237K
C30 1.0
R55 24K
C29 33
R59 71.5K
R53 499K
R56 866
R58 10K
C31 33
T11
Q15 3N68
R61 510
T12
R62 510
Q16 3N68
R60 1500
R63 1500
C32 1.9
C33 1.9
CR4 1N645
14 TO 2.5V BIAS LO
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
OVDC 17
e1
e2
b
c

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED
BY [illegible] 327

5H

6010007 B



REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
R 1	1006750-25	RESISTOR	510	2	1/4 W
R 2	1010364-769		499K	1	1/8 W
R 3	1010364-769		499K	1	1/8 W
R 4	1010311-291		52.3K	1	1/10 W
R 5	1010364-769		499K	1	1/8 W
R 6	1006750-72		47K	2	1/4 W
R 7	1006750-65		24K	2	1/4 W
R 8	1010311-120		866	1	1/10W
R 9	1010364-707		237K	1	1/8 W
R10	1006750-56		10K	2	1/4 W
R11	1010311-304		71.5K	1	1/10 W
R12	1006750-36		1500	2	1/4 W
R13	1006750-25		510	2	1/4 W
R14	1006750-25		510	2	1/4 W
R15	1006750-36		1500	2	1/4 W
R18	1010364-769		499K	1	1/8 W
R19	1010364-769		499K	1	1/8 W
R20	1010311-291		52.3K	1	1/10 W
R21	1010364-769		499K	1	1/8 W
R22	1006750-72		47K	2	1/4 W
R23	1006750-65		24K	2	1/4 W
R24	1010311-120		866	1	1/10 W
R25	1010364-707		237K	1	1/8 W
R26	1006750-56		10K	2	1/4 W
R27	1010311-304		71.5K	1	1/10 W
R28	1006750-36		1500	2	1/4 W
R29	1006750-25		510	2	1/4 W
R30	1006750-25		510	2	1/4 W
R31	1006750-36		1500	2	1/4 W
R34	1010364-769		499K	1	1/8 W
R35	1010364-769		499K	1	1/8 W
R36	1010311-291		52.3K	1	1/10 W
R37	1010364-769		499K	1	1/8 W
R38	1006750-72		47K	2	1/4 W
R39	1006750-65		24K	2	1/4 W
R40	1010311-120		866	1	1/10 W
R41	1010364-707		237K	1	1/8 W
R42	1006750-56		10K	2	1/4 W
R43	1010311-304		71.5K	1	1/10 W
R44	1006750-36		1500	2	1/4 W
R45	1006750-25		510	2	1/4 W
R46	1006750-25		510	2	1/4 W
R47	1006750-36		1500	2	1/4 W
R50	1010364-769		499K	1	1/8 W
R51	1010364-769		499K	1	1/8 W
R52	1010311-291		52.3K	1	1/10W
R53	1010364-769		499K	1	1/8 W
R54	1006750-72		47K	2	1/4 W
R55	1006750-65		24K	2	1/4 W
R56	1010311-120		866	1	1/10 W
R57	1010364-707		237K	1	1/8 W
R58	1006750-56		10K	2	1/4 W
R59	1010311-304		71.5K	1	1/10 W
R60	1006750-36		1500	2	1/4 W
R61	-25		510		
R62	-25		510		
R63	-36		1500		
R64	1006750-47		4300	2	1/4 W
R65	1010377-20		110K	.1	1/10W
R66	1010364-471		14.K	1	1/8 W
R68	1006750-38		1800	2	1/4 W
R69	1010364-411		6810	1	1/8 W
R70	1010364-411		6810	1	1/8 W
R71	1006750-1		51	2	1/4 W
R72	1006750-1		51	2	1/4 W
R73	1010364-501		20K	1	1/8 W
R74	1010364-443		10K	1	1/8 W
R75	1010377-103		116.25K	1	1/10 W
R77	1010368-105		220K	5	1/4 W
R78	1010368-121		1 MEG	5	
R79	1006750-32		1000	2	
R80	-1		51		
R81	-1		51		
R82	-36		1500		
R83	-36		1500		
R84	1006750-65		24K	2	
R85	1010368-128		2 MEG	5	
R86	1006750-56		10K	2	
R87	-32		1000		
R88	-8		100		
R89	-56		10K		
R90	-41		2400		
R91	1006750-41	RESISTOR	2400	2	1/4 W
CR1	1010837-001	DIODE	IN645		
CR2	1010837-001		IN645		
CR3	1010837-001		IN645		
CR4	1010837-001		IN645		
CR5	1010385		IN660		
CR6	1010385		IN660		
CR7	1010259-000		IN825		
CR8	1010259-000		IN825		
CR9	1010372-12				
CR10	1010372-12				
CR11	1010837-001		IN645		
CR12	1010385	DIODE	IN660		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
C 1	1006755-134	CAPACITOR	22	10	50 VDC
C 2	1010410-18		1100PF	2	300
C 3	1010410-10		510PF	2	500
C 4	1006755-31		10	10	20
C 5	1006755-34		33		20
C 6	1006755-69		1.0		35
C 7	1006755-34		33		20
C 8	1010279-16		1.9		6
C 9	1010279-16		1.9	10	6
C10	1010410-18		1100PF	2	300
C11	1010410-10		510PF	2	500
C12	1006755-31		10	10	20
C13	1006755-34		33		20
C14	1006755-69		1.0		35
C15	1006755-34		33		20
C16	1010279-16		1.9		6
C17	1010279-16		1.9	10	6
C18	1010410-18		1100PF	2	300
C19	1010410-10		510PF	2	500
C20	1006755-31		10	10	20
C21	1006755-34		33		20
C22	1006755-69		1.0		35
C23	1006755-34		33		20
C24	1010279-16		1.9		6
C25	1010279-16		1.9	10	6
C26	1010410-18		1100PF	2	300
C27	1010410-10		510PF	2	500
C28	1006755-31		10	10	20
C29	1006755-34		33		20
C30	1006755-69		1.0		35
C31	1006755-34		33		20
C32	1010279-16		1.9		6
C33	1010279-16		1.9		6
C34	1006755-132		15		50
C35	1006755-132		15		50
C36	1006755-79		6.8		35
C37	1010279-104		0.23		15
C38	1006755-69		1.0		35
C39	1006755-69		1.0	10	35
C40	1006777-31		0.01	10	100
C41	1006755-33		15	10	20
C42	1010279-16		1.9		6
C43	1010279-16		1.9		6
C44	1006755-69		1.0		35
C45	1006755-31		10		20
C46	1006755-130	CAPACITOR	10	10	50 VDC
Q 1	1010397-1	TRANSISTOR	2N930		
Q 2	1010397-1	TRANSISTOR	2N930		
Q 3	1010367	CHOPPER	3N68		
Q 4	1010367	CHOPPER	3N68		
Q 5	1010397-1	TRANSISTOR	2N930		
Q 6	1010397-1	TRANSISTOR	2N930		
Q 7	1010367	CHOPPER	3N68		
Q 8	1010367	CHOPPER	3N68		
Q 9	1010397-1	TRANSISTOR	2N930		
Q10	1010397-1	TRANSISTOR	2N930		
Q11	1010367	CHOPPER	3N68		
Q12	1010367	CHOPPER	3N68		
Q13	1010397-1	TRANSISTOR	2N930		
Q14	1010397-1	TRANSISTOR	2N930		
Q15	1010367	CHOPPER	3N68		
Q16	1010367	CHOPPER	3N68		
Q17	1010367	CHOPPER	3N68		
Q18	1010367	CHOPPER	3N68		
Q19	1010342	TRANSISTOR	2N998		
Q20	1010367	CHOPPER	3N68		
Q21	1010367	CHOPPER	3N68		
Q22	1010397-1	TRANSISTOR	2N930		
Q23	1010357-1	TRANSISTOR	2N720A		
T1	1008832	TRANSFORMER			
T2	1008842				
T3	1010323				
T4	1008832				
T5	1008842				
T6	1010323				
T7	1008832				
T8	1008842				
T9	1010323				
T10	1008832				
T11	1008842				
T12	1010323				
T13	1010710				
T14	1010365				
T15	1010365				
T16	1010710				
T17	1010274				
T18	1010274	TRANSFORMER			

REVISIONS 26625.

SYM	ZONE	DESCRIPTION	DR	CHK		
A		REPLACES REV - WITH CHANGE PER TDRR 26625	ADL			
B		REVISED PER TDRR 27414	ADL		28	
C		REVISED PER TDRR 28480	ADL		5-10-66	

REF DWG:
RADAR RESOLVERS & 120V PIPA SUPPLY ASSY
DWG NO. 6007012

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. D. Lao 16 FEB 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
SIGNAL CONDITIONER
RADAR RESOLVERS & 120V PIPA SUPPLY

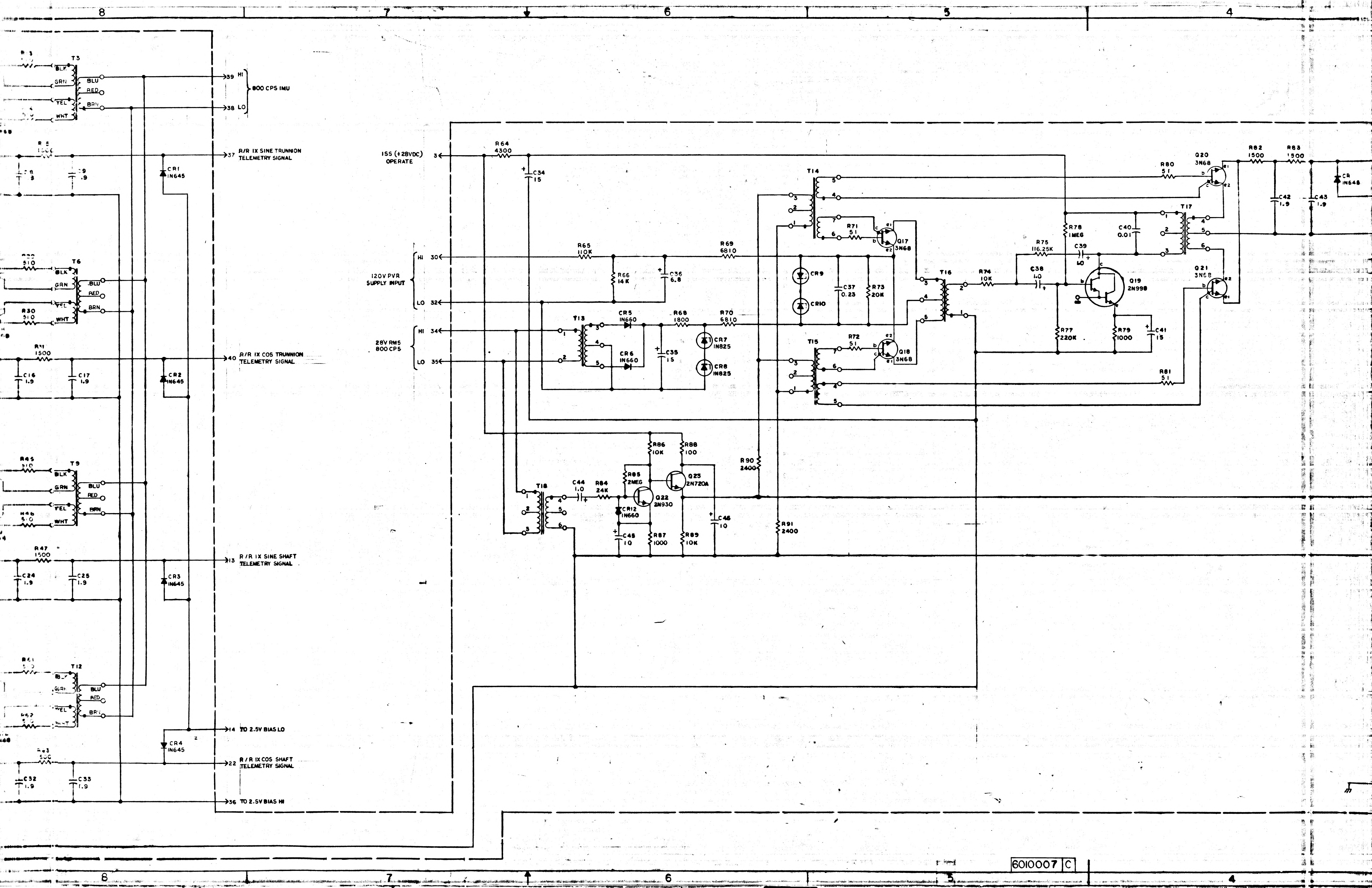
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6010007
SCALE
SHEET 1 OF 1

6010007 C

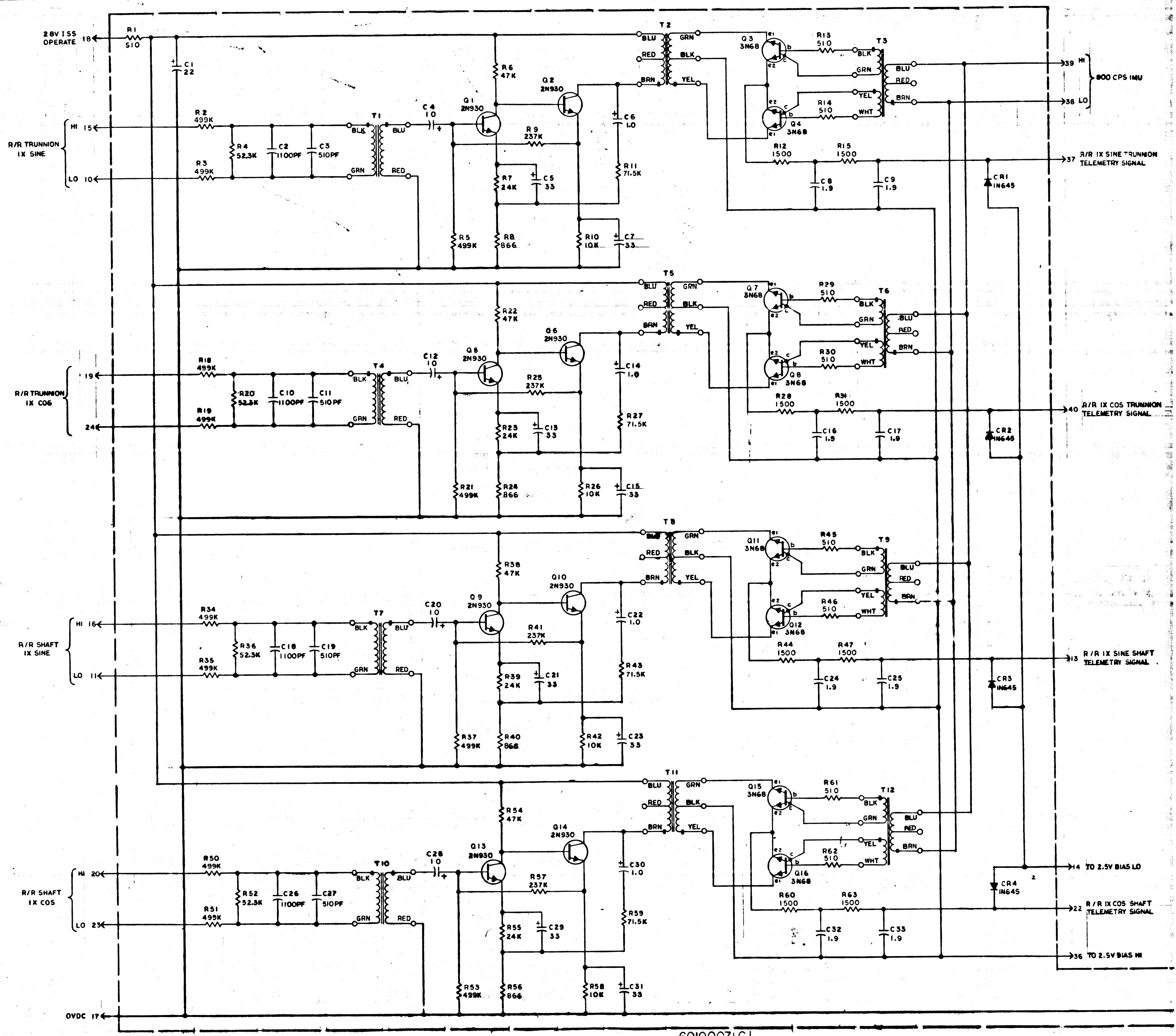
3H

MASTER

F3


8
7
6
5
4
T3
BLK
GRN
YEL
WHT
BLU
RED
BRN
39 HI
38 LO
800 CPS IMU
CR1 1N645
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
C9 .9
T6
R30 510
T9
R45 510
R46 510
R31 1500
C16 1.9
C17 1.9
CR2 1N645
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
R47 1500
C24 1.9
C25 1.9
CR3 1N645
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
T12
CR4 1N645
14 TO 2.5V BIAS LO
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
C32 1.9
C33 1.9
36 TO 2.5V BIAS HI
ISS (+28VDC) OPERATE 3
R64 4300
C34 15
120V PVR SUPPLY INPUT
HI 30
LO 32
R65 110K
R66 14K
C36 6.8
R69 6810
28V RMS 800 CPS
HI 34
LO 35
T13
CR5 1N660
CR6 1N660
R68 1800
R70 6810
C35 15
CR7 1N825
CR8 1N825
CR9
CR10
C37 0.23
R73 20K
T14
T15
R71 51
R72 51
Q17 3N68
Q18 3N68
T16
R74 10K
C38 1.0
R75 116.25K
C39 10
R78 1MEG
Q19 2N998
R77 220K
R79 1000
C41 15
C40 0.01
T17
R80 51
Q20 3N68
Q21 3N68
R81 51
R82 1500
R83 1500
C42 1.9
C43 1.9
CR 1N645
T18
C44 1.0
R84 24K
R85 2MEG
R86 10K
R88 100
Q22 2N930
Q23 2N720A
CR12 1N660
C45 10
R87 1000
R89 10K
C46 10
R90 2400
R91 2400

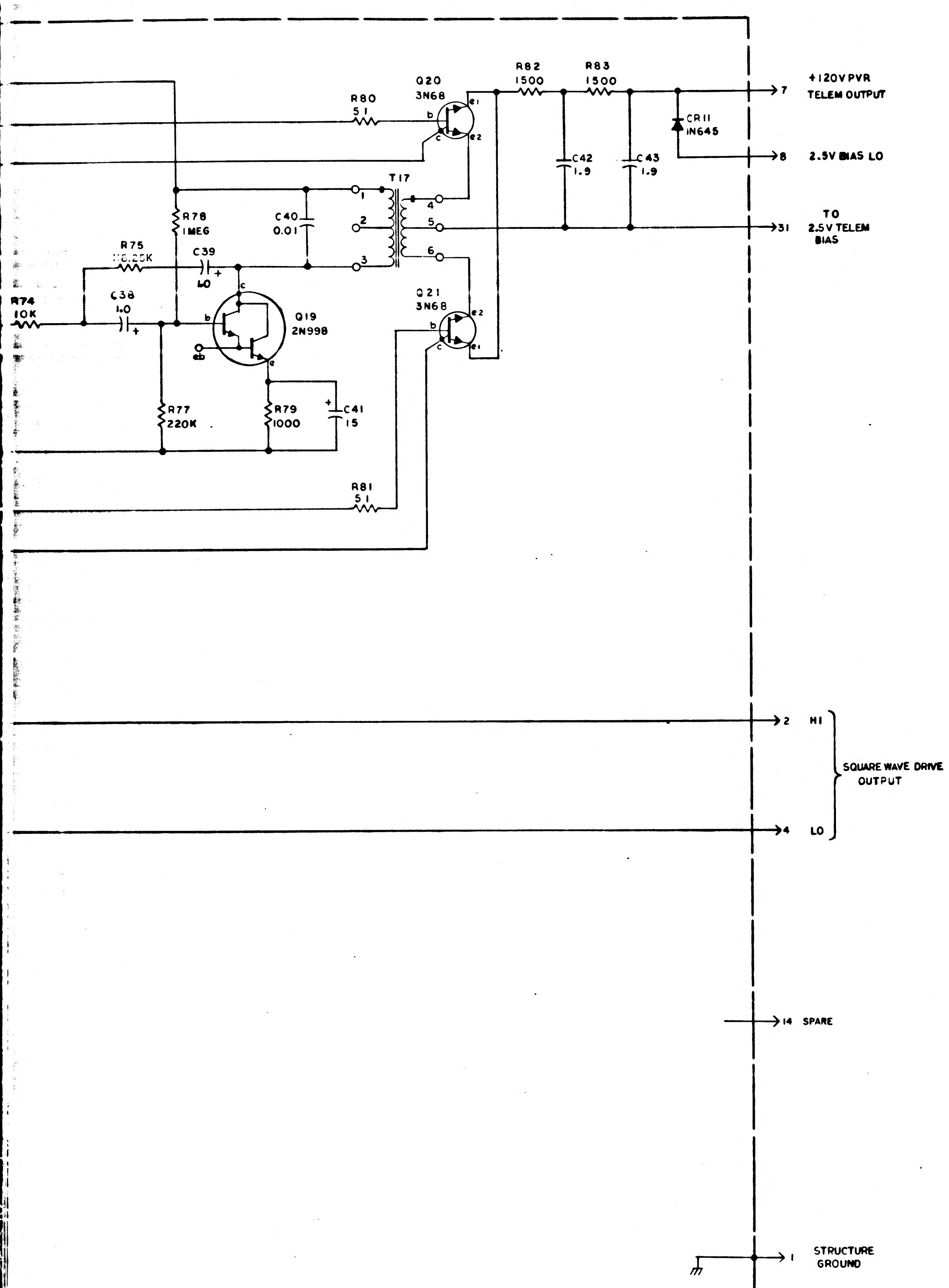
6010007 C


28V ISS OPERATE 18
R1 510
C1 22
R/R TRUNNION 1X SINE
HI 15
LO 10
R2 499K
R3 499K
R4 52.3K
C2 1100PF
C3 510PF
T1
BLK
BLU
GRN
RED
C4 10
Q1 2N930
Q2 2N930
R5 499K
R6 47K
R7 24K
R8 866
R9 237K
R10 10K
R11 71.5K
C5 33
C6 1.0
C7 33
T2
GRN
BLK
YEL
BRN
Q3 3N68
Q4 3N68
e1
e2
b
c
R13 510
R14 510
T3
WHT
800 CPS IMU
HI 39
LO 38
R12 1500
R15 1500
C8 1.9
C9 1.9
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
CR1 1N645
R/R TRUNNION 1X COS
19
24
R18 499K
R19 499K
R20 52.3K
C10 1100PF
C11 510PF
T4
C12 10
Q5 2N930
Q6 2N930
R21 499K
R22 47K
R23 24K
R24 866
R25 237K
R26 10K
R27 71.5K
C13 33
C14 1.0
C15 33
T5
Q7 3N68
Q8 3N68
R29 510
R30 510
T6
R28 1500
R31 1500
C16 1.9
C17 1.9
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
CR2 1N645
R/R SHAFT 1X SINE
HI 16
LO 11
R34 499K
R35 499K
R36 52.3K
C18 1100PF
C19 510PF
T7
C20 10
Q9 2N930
Q10 2N930
R37 499K
R38 47K
R39 24K
R40 866
R41 237K
R42 10K
R43 71.5K
C21 33
C22 1.0
C23 33
T8
Q11 3N68
Q12 3N68
R45 510
R46 510
T9
R44 1500
R47 1500
C24 1.9
C25 1.9
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
CR3 1N645
R/R SHAFT 1X COS
HI 20
LO 23
R50 499K
R51 499K
R52 52.3K
C26 1100PF
C27 510PF
T10
C28 10
Q13 2N930
Q14 2N930
R53 499K
R54 47K
R55 24K
R56 866
R57 237K
R58 10K
R59 71.5K
C29 33
C30 1.0
C31 33
T11
Q15 3N68
Q16 3N68
R61 510
R62 510
T12
R60 1500
R63 1500
C32 1.9
C33 1.9
CR4 1N645
14 TO 2.5V BIAS LO
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
0VDC 17
11
10
9
8
D
C
B
A

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

60100071 C

						26625.
A		REPLACES REV – WITH CHANGE PER TDRR 26625	ADL			WK
B		REVISED PER TDRR 27414	ADL			WK
C		REVISED PER TDR- 28480	ADL	LSB	5-10-66	
D		REVISED PER TDRR 30151	A.N.		20 JUL 66	



REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
R 1	1006750-25	RESISTOR	510	2	1/4 W
R 2	1010364-769		499K	1	1/8 W
R 3	1010364-769		499K	1	1/8 W
R 4	1010311-291		52.3K	1	1/10 W
R 5	1010364-769		499K	1	1/8 W
R 6	1006750-72		47K	2	1/4 W
R 7	1006750-65		24K	2	1/4 W
R 8	1010311-120		866	1	1/10W
R 9	1010364-707		237K	1	1/8 W
R10	1006750-56		10K	2	1/4 W
R11	1010311-304		71.5K	1	1/10W
R12	1006750-36		1500	2	1/4 W
R13	1006750-25		510	2	1/4 W
R14	1006750-25		510	2	1/4 W
R15	1006750-36		1500	2	1/4 W
R18	1010364-769		499K	1	1/8 W
R19	1010364-769		499K	1	1/8 W
R20	1010311-291		52.3K	1	1/10 W
R21	1010364-769		499K	1	1/8 W
R22	1006750-72		47K	2	1/4 W
R23	1006750-65		24K	2	1/4 W
R24	1010311-120		866	1	1/10W
R25	1010364-707		237K	1	1/8 W
R26	1006750-56		10K	2	1/4 W
R27	1010311-304		71.5K	1	1/10W
R28	1006750-36		1500	2	1/4 W
R29	1006750-25		510	2	1/4 W
R30	1006750-25		510	2	1/4 W
R31	1006750-36		1500	2	1/4 W
R34	1010364-769		499K	1	1/8 W
R35	1010364-769		499K	1	1/8 W
R36	1010311-291		52.3K	1	1/10 W
R37	1010364-769		499K	1	1/8 W
R38	1006750-72		47K	2	1/4 W
R39	1006750-65		24K	2	1/4 W
R40	1010311-120		866	1	1/10W
R41	1010364-707		237K	1	1/8 W
R42	1006750-56		10K	2	1/4 W
R43	1010311-304		71.5K	1	1/10 W
R44	1006750-36		1500	2	1/4 W
R45	1006750-25		510	2	1/4 W
R46	1006750-25		510	2	1/4 W
R47	1006750-36		1500	2	1/4 W
R50	1010364-769		499K	1	1/8 W
R51	1010364-769		499K	1	1/8 W
R52	1010311-291		52.3K	1	1/10W
R53	1010364-769		499K	1	1/8 W
R54	1006750-72		47K	2	1/4 W
R55	1006750-65		24K	2	1/4 W
R56	1010311-120		866	1	1/10 W
R57	1010364-707		237K	1	1/8 W
R58	1006750-56		10K	2	1/4 W
R59	1010311-304		71.5K	1	1/10 W
R60	1006750-36		1500	2	1/4 W
R61	-25		510		
R62	-25		510		
R63	-36		1500		
R64	1006750-47		4300	2	1/4 W
R65	1010377-20		110K	.1	1/10W
R66	1010364-471		14K	1	1/8 W
R68	1006750-38		1900	2	1/4 W
R69	1010364-411		6810	1	1/8 W
R70	1010364-411		6810	1	1/8 W
R71	1006750-1		51	2	1/4 W
R72	1006750-1		51	2	1/4 W
R73	1010364-501		20K	1	1/8 W
R74	1010364-443		10K	1	1/8 W
R75	1010377-103		116.25K	1	1/10 W
R77	1010368-105		220K	5	1/4 W
R78	1010368-121		1 MEG	5	
R79	1006750-32		1000	2	
R80	-1		51		
R81	-1		51		
R82	-36		1500		
R83	-36		1500		
R84	1006750-65		24K	2	
R85	1010368-128		2MEG	5	
R86	1006750-56		10K	2	
R87	-32		1000		
R88	-8		100		
R89	-56		10K		
R90	-41		2400		
R91	1006750-41	RESISTOR	2400	2	1/4 W
CR5	1010385	DIODE	IN660		
CR6	1010385		IN660		
CR7	1010259-000		IN825		
CR8	1010259-000		IN825		
CR9	1010372-12				
CR10	1010372-12				
CR11	1010837-001		IN645		
CR12	1010385	DIODE	IN660		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
C 1	1006755-134	CAPACITOR	22	10	50 VDC
C 2	1010410-18		1100PF	2	300
C 3	1010410-10		510PF	2	500
C 4	1006755-31		10	10	20
C 5	1006755-34		33		20
C 6	1006755-69		1.0		35
C 7	1006755-34		33		20
C 8	1010279-16		1.9		6
C 9	1010279-16		1.9	10	6
C10	1010410-18		1100PF	2	300
C11	1010410-10		510 PF	2	500
C12	1006755-31		10	10	20
C13	1006755-34		33		20
C14	1006755-69		1.0		35
C15	1006755-34		33		20
C16	1010279-16		1.9		6
C17	1010279-16		1.9	10	6
C18	1010410-18		1100PF	2	300
C19	1010410-10		510PF	2	500
C20	1006755-31		10	10	20
C21	1006755-34		33		20
C22	1006755-69		1.0		35
C23	1006755-34		33		20
C24	1010279-16		1.9		6
C25	1010279-16		1.9	10	6
C26	1010410-18		1100PF	2	300
C27	1010410-10		510PF	2	500
C28	1006755-31		10	10	20
C29	1006755-34		33		20
C30	1006755-69		1.0		35
C31	1006755-34		33		20
C32	1010279-16		1.9		6
C33	1010279-16		1.9		6
C34	1006755-132		15		50
C35	1006755-132		15		50
C36	1006755-79		6.8		35
C37	1010279-104		0.23		15
C38	1006755-69		1.0		35
C39	1006755-69		1.0	10	35
C40	1006777-31		0.01	10	100
C41	1006755-33		15	10	20
C42	1010279-16		1.9		6
C43	1010279-16		1.9		6
C44	1006755-69		1.0		35
C45	1006755-31		10		20
C46	1006755-130	CAPACITOR	10	10	50 VDC
Q 1	1010397-1	TRANSISTOR	2N930		
Q 2	1010397-1	TRANSISTOR	2N930		
Q 3	1010367	CHOPPER	3N68		
Q 4	1010367	CHOPPER	3N68		
Q 5	1010397-1	TRANSISTOR	2N930		
Q 6	1010397-1	TRANSISTOR	2N930		
Q 7	1010367	CHOPPER	3N68		
Q 8	1010367	CHOPPER	3N68		
Q 9	1010397-1	TRANSISTOR	2N930		
Q10	1010397-1	TRANSISTOR	2N930		
Q11	1010367	CHOPPER	3N68		
Q12	1010367	CHOPPER	3N68		
Q13	1010397-1	TRANSISTOR	2N930		
Q14	1010397-1	TRANSISTOR	2N930		
Q15	1010367	CHOPPER	3N68		
Q16	1010367	CHOPPER	3N68		
Q17	1010367	CHOPPER	3N68		
Q18	1010367	CHOPPER	3N68		
Q19	1010342	TRANSISTOR	2N998		
Q20	1010367	CHOPPER	3N68		
Q21	1010367	CHOPPER	3N68		
Q22	1010397-1	TRANSISTOR	2N930		
Q23	1010357-1	TRANSISTOR	2N720A		
T 1	1008832	TRANSFORMER			
T 2	1008842				
T 3	1010323				
T 4	1008832				
T 5	1008842				
T 6	1010323				
T 7	1008832				
T 8	1008842				
T 9	1010323				
T10	1008832				
T11	1008842				
T12	1010323				
T13	1010710				
T14	1010365				
T15	1010365				
T16	1010710				
T17	1010274				
T18	1010274	TRANSFORMER			

REF DWG.

RADAR RESOLVERS & 120V PIPA SUPPLY ASSY
DWG NO. 6007012

3H

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	ITEM NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

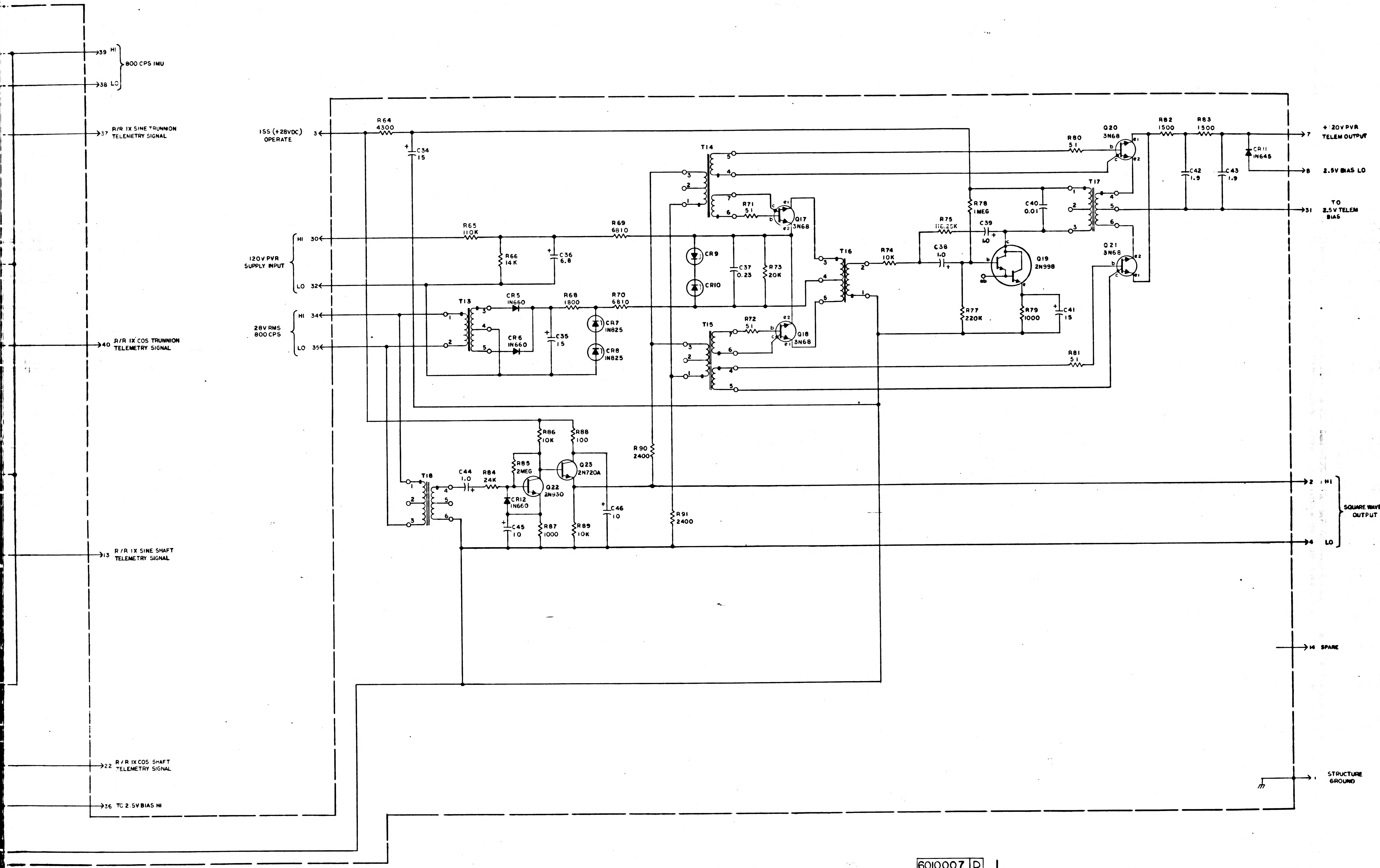
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN A. D. Lao 16 FEB 66
CHECKED
APPROVED
APPROVED
APPROVED MIT W. Kupfer 23 FEB 66
APPROVED MSC
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
SIGNAL CONDITIONER
RADAR RESOLVERS & 120V PIPA SUPPLY

CODE IDENT NO 80230 SIZE J DRAWING NO. 6010007
SCALE — SHEET 1 OF 1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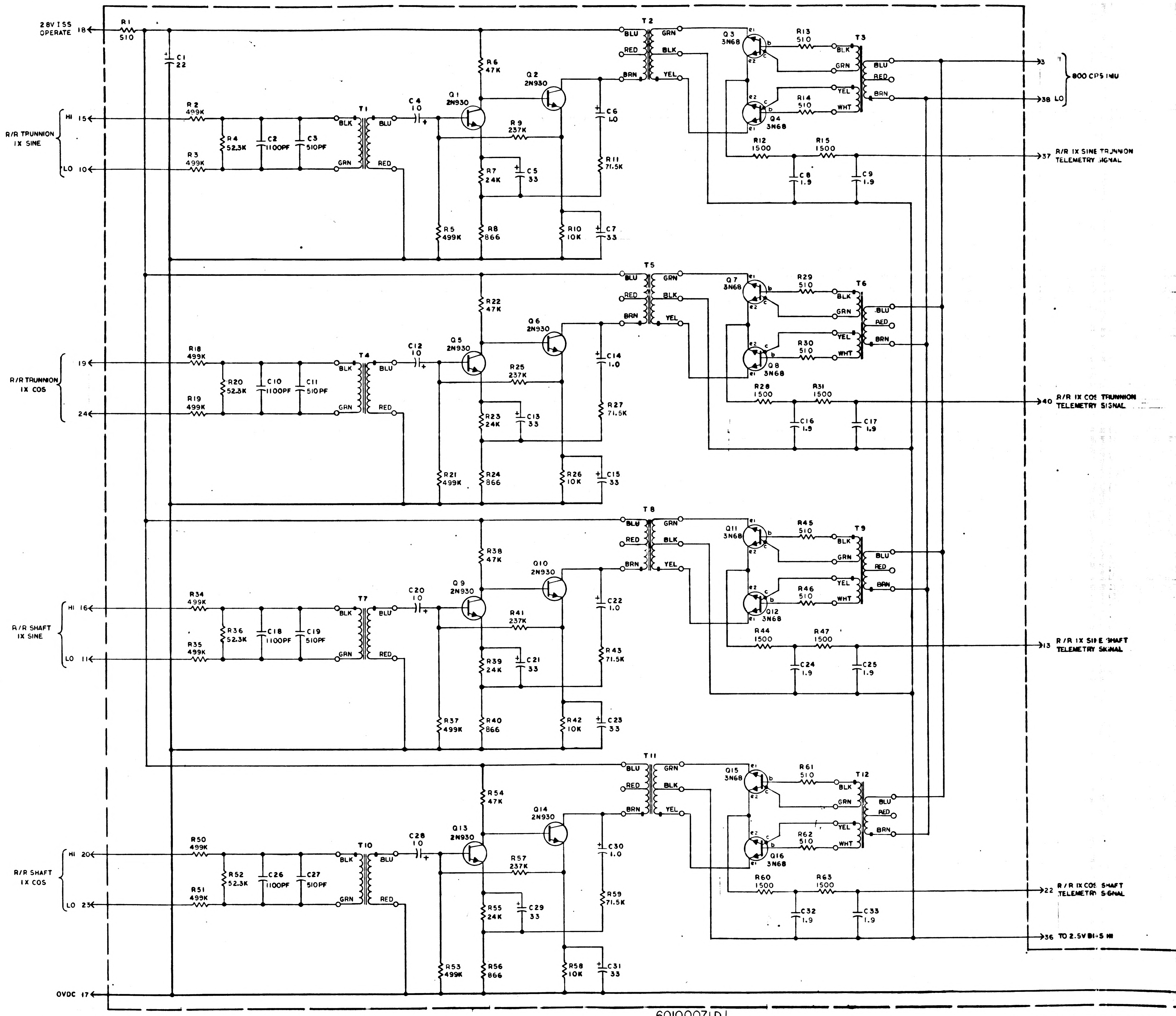
38 LO
800 CPS IMU
37 R/R IX SINE TRUNNION TELEMETRY SIGNAL
40 R/R IX COS TRUNNION TELEMETRY SIGNAL
13 R/R IX SINE SHAFT TELEMETRY SIGNAL
22 R/R IX COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
1SS (+28VDC) OPERATE 3
120V PVR SUPPLY INPUT
HI 30
LO 32
28V RMS 800 CPS
HI 34
LO 35
R64 4300
C34 15
R65 110K
R66 14K
C36 6.8
R69 6810
T13
CR5 1N660
CR6 1N660
C35 15
R68 1800
R70 6810
CR7 1N825
CR8 1N825
CR9
CR10
C37 0.23
R73 20K
T14
T15
T16
T17
T18
R71 51
Q17 3N68
R72 51
Q18 3N68
R74 10K
C38 1.0
R75 116.25K
C39 1.0
R78 1MEG
C40 0.01
Q19 2N998
R77 220K
R79 1000
C41 15
R80 51
Q20 3N68
R81 51
Q21 3N68
R82 1500
R83 1500
C42 1.9
C43 1.9
CR11 1N645
7 +20V PVR TELEM OUTPUT
8 2.5V BIAS LO
31 TO 2.5V TELEM BIAS
C44 1.0
R84 24K
R85 2MEG
CR12 1N660
C45 10
Q22 2N930
R86 10K
R87 1000
R88 100
Q23 2N720A
R89 10K
C46 10
R90 2400
R91 2400
2 HI
4 LO
SQUARE WAVE OUTPUT
14 SPARE
1 STRUCTURE GROUND
7
6
5
4

6010007 D

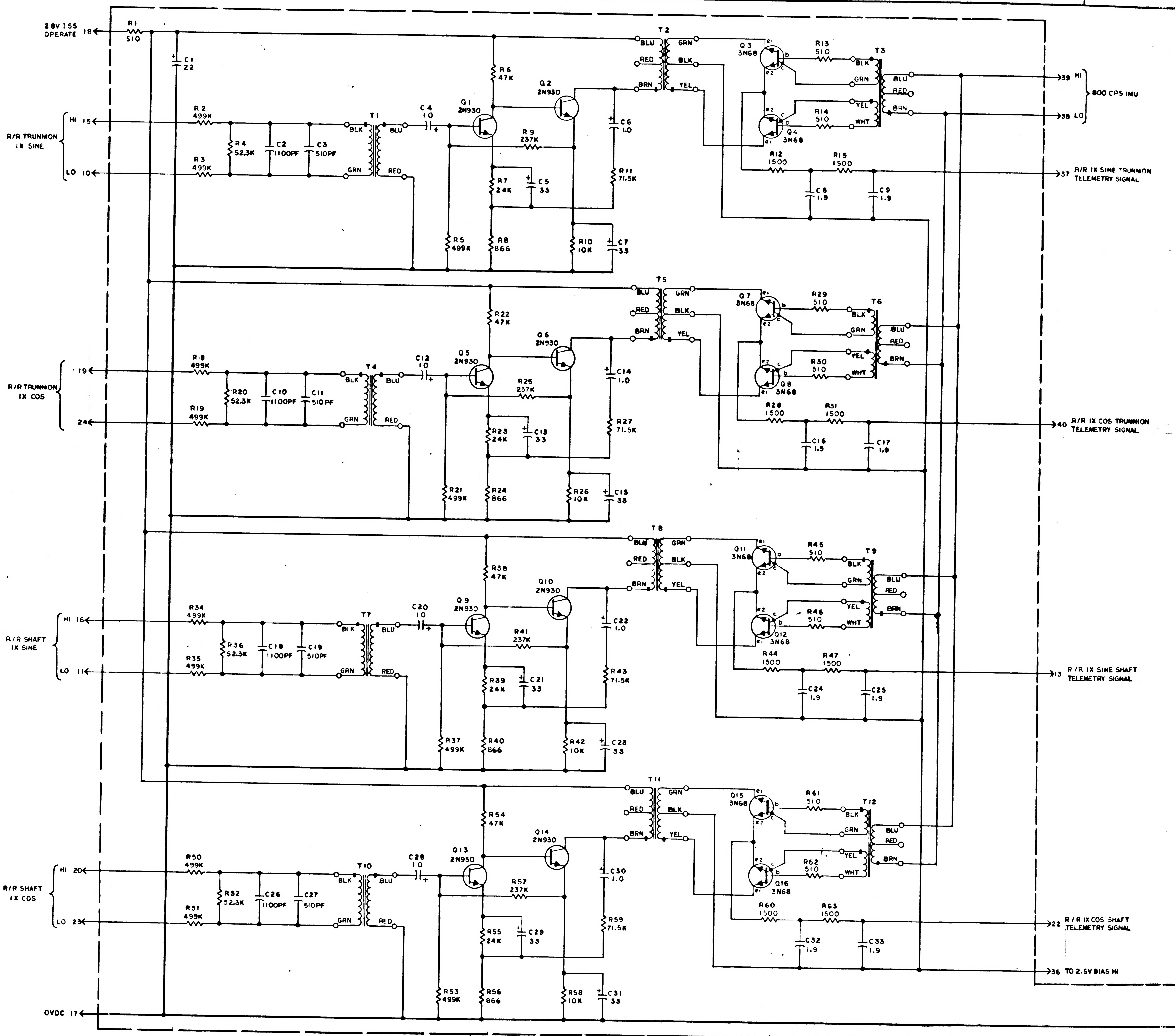


28V ISS OPERATE 18
R1 510
C1 22
R/R TRUNNION 1X SINE
HI 15
LO 10
R2 499K
R3 499K
R4 52.3K
C2 1100PF
C3 510PF
T1
BLK
GRN
BLU
RED
C4 10
Q1 2N930
Q2 2N930
R6 47K
R7 24K
C5 33
R9 237K
C6 1.0
R11 71.5K
R5 499K
R8 866
R10 10K
C7 33
T2
Q3 3N68
Q4 3N68
R13 510
R14 510
T3
800 CPS IMU
3
38 LO
R12 1500
R15 1500
C8 1.9
C9 1.9
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
R/R TRUNNION 1X COS
19
24
R18 499K
R19 499K
R20 52.3K
C10 1100PF
C11 510PF
T4
C12 10
Q5 2N930
Q6 2N930
R22 47K
R23 24K
C13 33
R25 237K
C14 1.0
R27 71.5K
R21 499K
R24 866
R26 10K
C15 33
T5
Q7 3N68
Q8 3N68
R29 510
R30 510
T6
R28 1500
R31 1500
C16 1.9
C17 1.9
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
R/R SHAFT 1X SINE
HI 16
LO 11
R34 499K
R35 499K
R36 52.3K
C18 1100PF
C19 510PF
T7
C20 10
Q9 2N930
Q10 2N930
R38 47K
R39 24K
C21 33
R41 237K
C22 1.0
R43 71.5K
R37 499K
R40 866
R42 10K
C23 33
T8
Q11 3N68
Q12 3N68
R45 510
R46 510
T9
R44 1500
R47 1500
C24 1.9
C25 1.9
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
R/R SHAFT 1X COS
HI 20
LO 23
R50 499K
R51 499K
R52 52.3K
C26 1100PF
C27 510PF
T10
C28 10
Q13 2N930
Q14 2N930
R54 47K
R55 24K
C29 33
R57 237K
C30 1.0
R59 71.5K
R53 499K
R56 866
R58 10K
C31 33
T11
Q15 3N68
Q16 3N68
R61 510
R62 510
T12
R60 1500
R63 1500
C32 1.9
C33 1.9
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BI-S HI
0VDC 17
BLU
RED
BRN
GRN
BLK
YEL
WHT
e1
e2
b
c

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

6010007 D

17/6010007


28V ISS OPERATE 18
R1 510
C1 22
R/R TRUNNION 1X SINE
HI 15
LO 10
R2 499K
R3 499K
R4 52.3K
C2 1100PF
C3 510PF
T1
BLK
BLU
GRN
RED
C4 10
Q1 2N930
R5 499K
R6 47K
R7 24K
C5 33
R8 866
Q2 2N930
R9 237K
R10 10K
C7 33
C6 1.0
R11 71.5K
T2
BLU
GRN
RED
BLK
BRN
YEL
Q3 3N68
Q4 3N68
R13 510
R14 510
T3
BLK
GRN
YEL
WHT
BLU
RED
BRN
R12 1500
R15 1500
C8 1.9
C9 1.9
39 HI
38 LO
800 CPS IMU
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
R/R TRUNNION 1X COS
19
24
R18 499K
R19 499K
R20 52.3K
C10 1100PF
C11 510PF
T4
C12 10
Q5 2N930
R21 499K
R22 47K
R23 24K
C13 33
R24 866
Q6 2N930
R25 237K
R26 10K
C15 33
C14 1.0
R27 71.5K
T5
Q7 3N68
Q8 3N68
R29 510
R30 510
T6
R28 1500
R31 1500
C16 1.9
C17 1.9
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
R/R SHAFT 1X SINE
HI 16
LO 11
R34 499K
R35 499K
R36 52.3K
C18 1100PF
C19 510PF
T7
C20 10
Q9 2N930
R37 499K
R38 47K
R39 24K
C21 33
R40 866
Q10 2N930
R41 237K
R42 10K
C23 33
C22 1.0
R43 71.5K
T8
Q11 3N68
Q12 3N68
R45 510
R46 510
T9
R44 1500
R47 1500
C24 1.9
C25 1.9
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
R/R SHAFT 1X COS
HI 20
LO 23
R50 499K
R51 499K
R52 52.3K
C26 1100PF
C27 510PF
T10
C28 10
Q13 2N930
R53 499K
R54 47K
R55 24K
C29 33
R56 866
Q14 2N930
R57 237K
R58 10K
C31 33
C30 1.0
R59 71.5K
T11
Q15 3N68
Q16 3N68
R61 510
R62 510
T12
R60 1500
R63 1500
C32 1.9
C33 1.9
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
OVDC 17
e1
e2
b
c

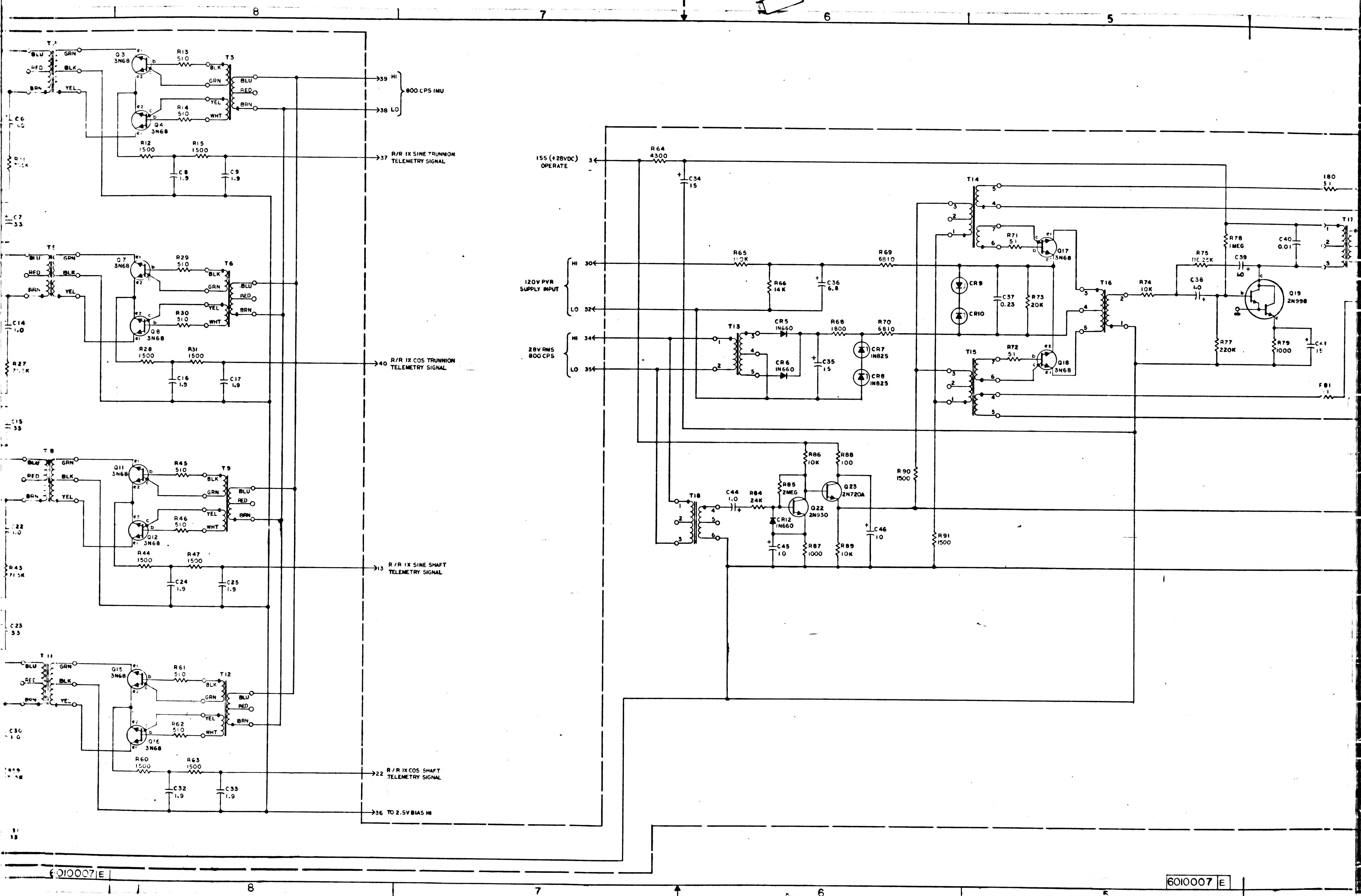
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

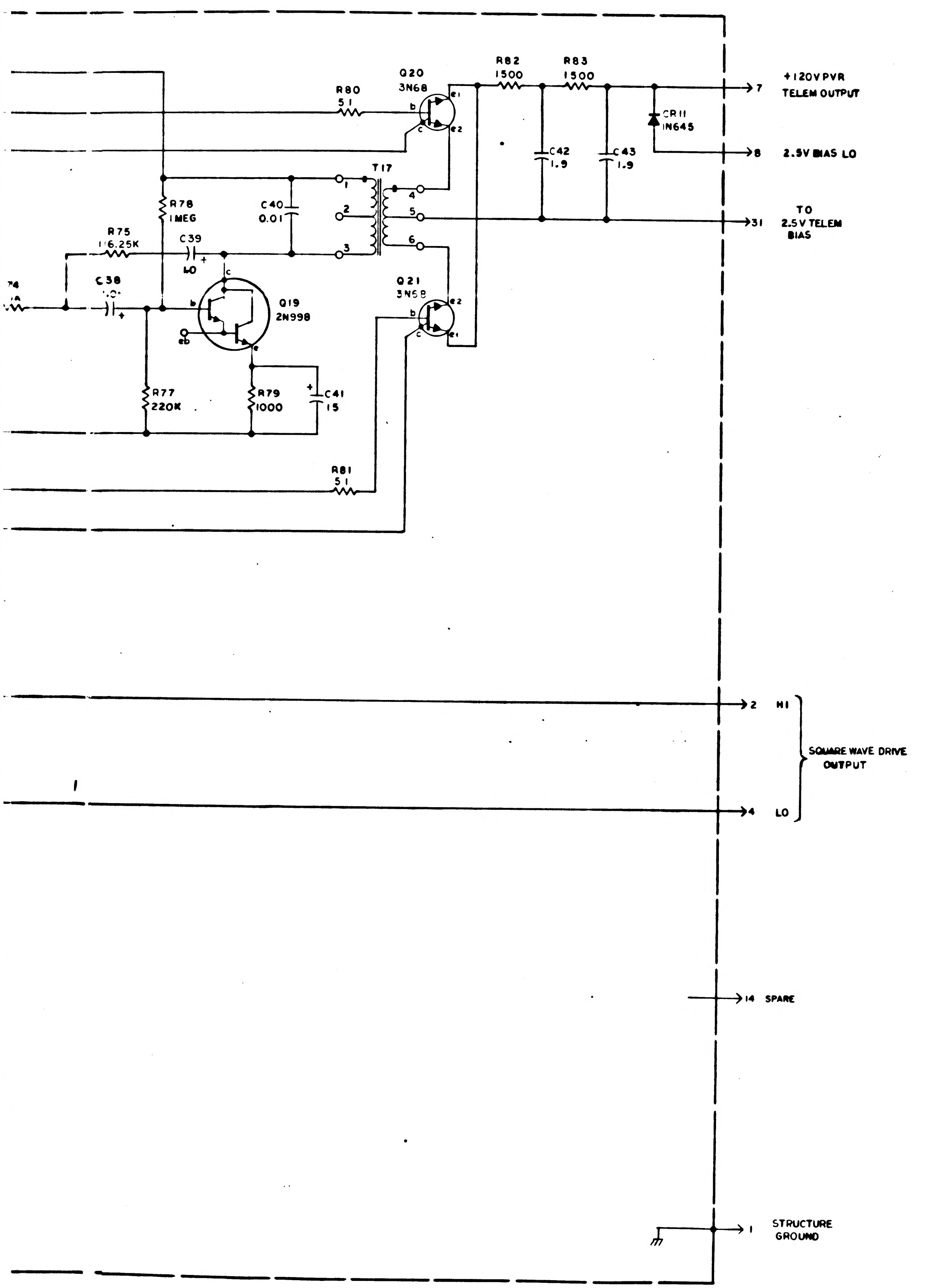
5H

6010007 E

1/6010007



8
7
6
5
T4
BLU
RED
BRN
GRN
BLK
YEL
Q3
3N68
R13
510
T3
BLK
GRN
BLU
RED
BRN
YEL
WHT
R14
510
Q4
3N68
39 HI
38 LO
800 CPS IMU
C6
R11
R12
1500
R15
1500
C8
1.9
C9
1.9
37 R/R 1X SINE TRUNNION TELEMETRY SIGNAL
C7
33
T5
Q7
3N68
R29
510
T6
R30
510
Q8
3N68
C14
1.0
R27
R28
1500
R31
1500
C16
1.9
C17
1.9
40 R/R 1X COS TRUNNION TELEMETRY SIGNAL
C15
33
T8
Q11
3N68
R45
510
T9
R46
510
Q12
3N68
C22
1.0
R43
R44
1500
R47
1500
C24
1.9
C25
1.9
13 R/R 1X SINE SHAFT TELEMETRY SIGNAL
C23
33
T11
Q15
3N68
R61
510
T12
R62
510
Q16
3N68
C30
1.0
R60
1500
R63
1500
C32
1.9
C33
1.9
22 R/R 1X COS SHAFT TELEMETRY SIGNAL
36 TO 2.5V BIAS HI
ISS (+28VDC) OPERATE
3
R64
4300
C34
15
T14
R80
31
T17
R78
1MEG
C40
0.01
R71
51
Q17
3N68
120V PVR SUPPLY INPUT
HI 30
LO 32
R65
110K
R66
14K
C36
6.8
R69
6810
CR9
CR10
C37
0.23
R73
20K
T16
R74
10K
R75
110.25K
C39
1.0
C38
1.0
Q19
2N998
R77
220K
R79
1000
C41
15
28V RMS 800 CPS
HI 34
LO 35
T13
CR5
1N660
CR6
1N660
R68
1800
R70
6810
C35
15
CR7
1N825
CR8
1N825
T15
R72
51
Q18
3N68
R81
51
R86
10K
R88
100
R85
2MEG
Q23
2N720A
Q22
2N930
T18
C44
1.0
R84
24K
CR12
1N660
C45
10
R87
1000
R89
10K
C46
10
R90
1500
R91
1500



REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
R 1	1006750-25	RESISTOR	510	2	1/4 W
R 2	1010364-769		499K	1	1/8 W
R 3	1010364-769		499K	1	1/8 W
R 4	1010311-291		52.3K	1	1/10 W
R 5	1010364-769		499K	1	1/8 W
R 6	1006750-72		47K	2	1/4 W
R 7	1006750-65		24K	2	1/4 W
R 8	1010311-120		866	1	1/10W
R 9	1010364-707		237K	1	1/8 W
R10	1006750-56		10K	2	1/4 W
R11	1010311-304		71.5K	1	1/10W
R12	1006750-36		1500	2	1/4 W
R13	1006750-25		510	2	1/4 W
R14	1006750-25		510	2	1/4 W
R15	1006750-36		1500	2	1/4 W
R18	1010364-769		499K	1	1/8 W
R19	1010364-769		499K	1	1/8 W
R20	1010311-291		52.3K	1	1/10 W
R21	1010364-769		499K	1	1/8 W
R22	1006750-72		47K	2	1/4 W
R23	1006750-65		24K	2	1/4 W
R24	1010311-120		866	1	1/10W
R25	1010364-707		237K	1	1/8 W
R26	1006750-56		10K	2	1/4 W
R27	1010311-304		71.5K	1	1/10W
R28	1006750-36		1500	2	1/4 W
R29	1006750-25		510	2	1/4 W
R30	1006750-25		510	2	1/4 W
R31	1006750-36		1500	2	1/4 W
R34	1010364-769		499K	1	1/8 W
R35	1010364-769		499K	1	1/8 W
R36	1010311-291		52.3K	1	1/10 W
R37	1010364-769		499K	1	1/8 W
R38	1006750-72		47K	2	1/4 W
R39	1006750-65		24K	2	1/4 W
R40	1010311-120		866	1	1/10W
R41	1010364-707		237K	1	1/8 W
R42	1006750-56		10K	2	1/4 W
R43	1010311-304		71.5K	1	1/10W
R44	1006750-36		1500	2	1/4 W
R45	1006750-25		510	2	1/4 W
R46	1006750-25		510	2	1/4 W
R47	1006750-36		1500	2	1/4 W
R50	1010364-769		499K	1	1/8 W
R51	1010364-769		499K	1	1/8 W
R52	1010311-291		52.3K	1	1/10W
R53	1010364-769		499K	1	1/8 W
R54	1006750-72		47K	2	1/4 W
R55	1006750-65		24K	2	1/4 W
R56	1010311-120		866	1	1/10 W
R57	1010364-707		237K	1	1/8 W
R58	1006750-56		10K	2	1/4 W
R59	1010311-304		71.5K	1	1/10 W
R60	1006750-36		1500	2	1/4 W
R61	-25		510		
R62	-25		510		
R63	-36		1500		
R64	1006750-47		4300	2	1/4 W
R65	1010377-20		110K	.1	1/10W
R66	1010364-471		14K	1	1/8 W
R68	1006750-38		1800	2	1/4 W
R69	1010364-411		6810	1	1/8 W
R70	1010364-411		6810	1	1/8 W
R71	1006750-1		51	2	1/4 W
R72	1006750-1		51	2	1/4 W
R73	1010364-501		20K	1	1/8 W
R74	1010364-443		10K	1	1/8 W
R75	1010377-103		116.25K	1	1/10 W
R77	1010368-105		220K	5	1/4 W
R78	1010368-121		1 MEG	5	
R79	1006750-32		1000	2	
R80	-1		51		
R81	-1		51		
R82	-36		1500		
R83	-36		1500		
R84	1006750-65		24K	2	
R85	1010368-128		2MEG	5	
R86	1006750-56		10K	2	
R87	-32		1000		
R88	-8		100		
R89	-56		10K		
R90	-36		1500		
R91	1006750-36	RESISTOR	1500	2	1/4 W
CR5	1010385	DIODE	IN660		
CR6	1010385		IN660		
CR7	1010259-003		IN825	1	
CR8	1010259-003		IN825	1	
CR9	1010372-12				
CR10	1010372-12				
CR11	1010837-001		IN645		
CR12	1010385	DIODE	IN660		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL±%	RATING
C 1	1006755-134	CAPACITOR	22	10	50 VDC
C 2	1010410-18		1100PF	2	300
C 3	1010410-10		510PF	2	500
C 4	1006755-31		10	10	20
C 5	1006755-34		33		20
C 6	1006755-69		1.0		35
C 7	1006755-34		33		20
C 8	1010279-16		1.9		6
C 9	1010279-16		1.9	10	6
C10	1010410-18		1100PF	2	300
C11	1010410-10		510PF	2	500
C12	1006755-31		10	10	20
C13	1006755-34		33		20
C14	1006755-69		1.0		35
C15	1006755-34		33		20
C16	1010279-16		1.9		6
C17	1010279-16		1.9	10	6
C18	1010410-18		1100PF	2	300
C19	1010410-10		510PF	2	500
C20	1006755-31		10	10	20
C21	1006755-34		33		20
C22	1006755-69		1.0		35
C23	1006755-34		33		20
C24	1010279-16		1.9		6
C25	1010279-16		1.9	10	6
C26	1010410-18		1100PF	2	300
C27	1010410-10		510PF	2	500
C28	1006755-31		10	10	20
C29	1006755-34		33		20
C30	1006755-69		1.0		35
C31	1006755-34		33		20
C32	1010279-16		1.9		6
C33	1010279-16		1.9		6
C34	1006755-132		15		50
C35	1006755-132		15		50
C36	1006755-79		6.8		35
C37	1010279-104		0.23		15
C38	1006755-69		1.0		35
C39	1006755-69		1.0	10	35
C40	1006777-31		0.01	10	100
C41	1006755-33		15	10	20
C42	1010279-16		1.9		6
C43	1010279-16		1.9		6
C44	1006755-69		1.0		35
C45	1006755-31		10		20
C46	1006755-130	CAPACITOR	10	10	50 VDC
Q 1	1010397-1	TRANSISTOR	2N930		
Q 2	1010397-1	TRANSISTOR	2N930		
Q 3	1010367	CHOPPER	3N68		
Q 4	1010367	CHOPPER	3N68		
Q 5	1010397-1	TRANSISTOR	2N930		
Q 6	1010397-1	TRANSISTOR	2N930		
Q 7	1010367	CHOPPER	3N68		
Q 8	1010367	CHOPPER	3N68		
Q 9	1010397-1	TRANSISTOR	2N930		
Q10	1010397-1	TRANSISTOR	2N930		
Q11	1010367	CHOPPER	3N68		
Q12	1010367	CHOPPER	3N68		
Q13	1010397-1	TRANSISTOR	2N930		
Q14	1010397-1	TRANSISTOR	2N930		
Q15	1010367	CHOPPER	3N68		
Q16	1010367	CHOPPER	3N68		
Q17	1010367	CHOPPER	3N68		
Q18	1010367	CHOPPER	3N68		
Q19	1010342	TRANSISTOR	2N998		
Q20	1010367	CHOPPER	3N68		
Q21	1010367	CHOPPER	3N68		
Q22	1010397-1	TRANSISTOR	2N930		
Q23	1010357-1	TRANSISTOR	2N720A		
T1	1008832	TRANSFORMER			
T2	1008842				
T3	1010323				
T4	1008832				
T5	1008842				
T6	1010323				
T7	1008832				
T8	1008842				
T9	1010323				
T10	1008832				
T11	1008842				
T12	1010323				
T13	1010710				
T14	1010365				
T15	1010365				
T16	1010710				
T17	1010274				
T18	1010274	TRANSFORMER			

26625.

A	REPLACES REV - WITH CHANGE PER TDRR 26625				
B	REVISED PER TDRR 27414				
C	REVISED PER TDRR 28480	ADL			
D	REVISED PER TDRR 30151	A.N.		20 JUL 66	
E	REVISED PER TDRR 30435	JJB			

REF DWG.
RADAR RESOLVERS & 120V PIPA SUPPLY ASSY
DWG NO. 6007012

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	ITEM NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING

MATERIAL

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN A. D. Lao 16 FEB 66
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC A. L. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
SIGNAL CONDITIONER
RADAR RESOLVERS & 120V PIPA SUPPLY

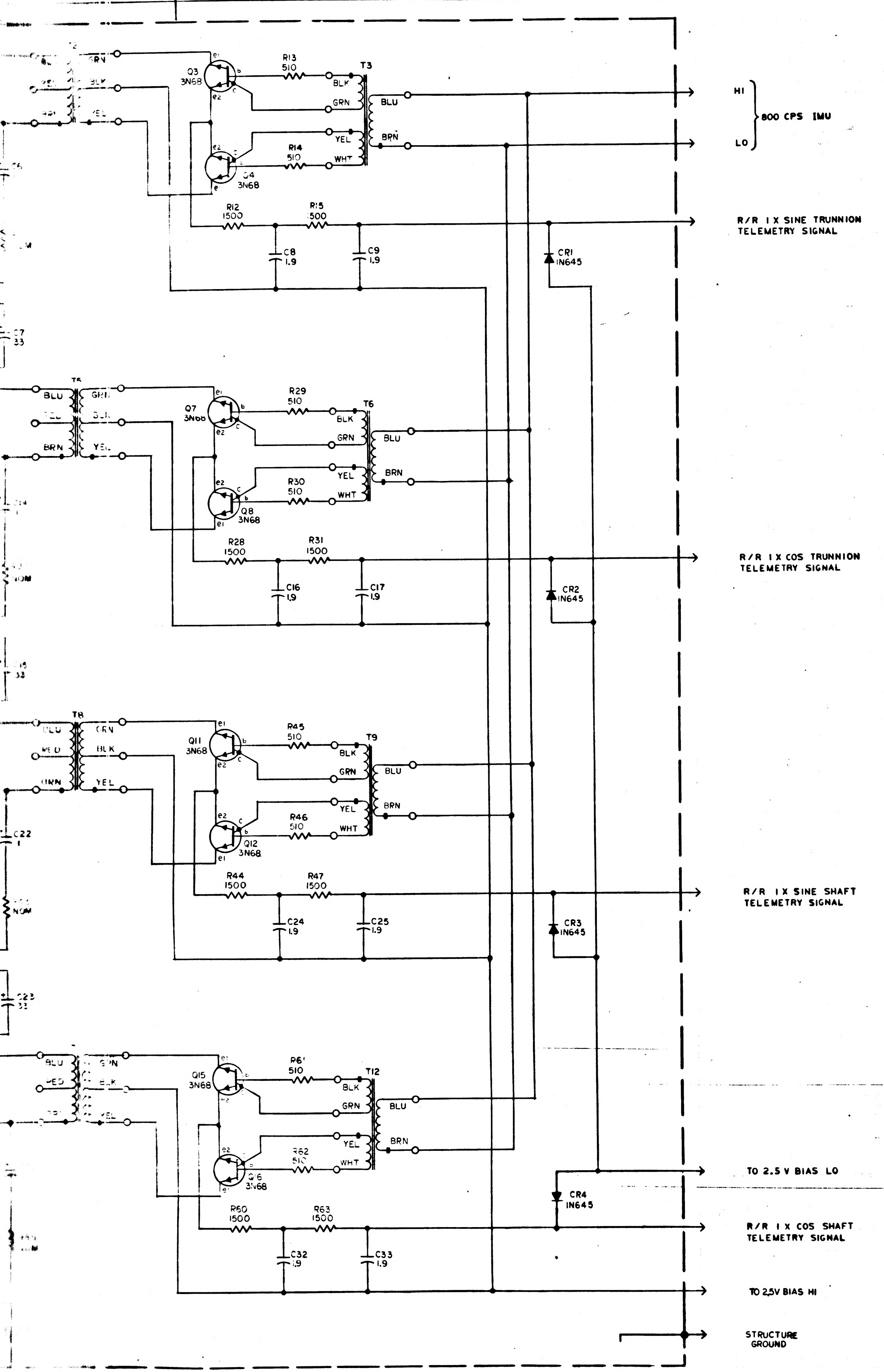
CODE IDENT NO. 80230
SIZE J
DRAWING NO. 6010007
SCALE
SHEET 1 OF 1

6010007 E

34

REVISIONS 24972

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED


Q3
3N68
R13
510
T3
BLK
GRN
BLU
YEL
BRN
WHT
R14
510
Q4
3N68
GRN
BLK
YEL
R12
1500
R15
500
C8
1.9
C9
1.9
CR1
1N645
C7
33
T5
BLU
YEL
BRN
GRN
BLK
YEL
Q7
3N68
R29
510
T6
BLK
GRN
BLU
BRN
YEL
WHT
R30
510
Q8
3N68
R28
1500
R31
1500
C16
1.9
C17
1.9
CR2
1N645
NOM
C15
33
T8
BLU
RED
BRN
GRN
BLK
YEL
Q11
3N68
R45
510
T9
BLK
GRN
BLU
BRN
YEL
WHT
R46
510
Q12
3N68
C22
1
R44
1500
R47
1500
C24
1.9
C25
1.9
CR3
1N645
NOM
C23
33
BLU
RED
GRN
BLK
YEL
Q15
3N68
R61
510
T12
BLK
GRN
BLU
BRN
YEL
WHT
R62
510
Q16
3N68
R60
1500
R63
1500
C32
1.9
C33
1.9
CR4
1N645
HI
800 CPS IMU
LO
R/R 1 X SINE TRUNNION TELEMETRY SIGNAL
R/R 1 X COS TRUNNION TELEMETRY SIGNAL
R/R 1 X SINE SHAFT TELEMETRY SIGNAL
TO 2.5 V BIAS LO
R/R 1 X COS SHAFT TELEMETRY SIGNAL
TO 2.5V BIAS HI
STRUCTURE GROUND

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-25	RESISTOR	510	±2%	1/4W
R2	1010364-769		499K	±1 %	1/8W
R3	1010364-769		499K	±1 %	1/8W
R4	1010311 -291		52.3K	±1 %	1/10W
R5	1010364-769		499K	±1 %	1/8W
R6	1006750-72		47K	±2%	1/4W
R7	1006750-65		24K	±2%	1/4W
R8	1010311 -113		732	±1 %	1/10W
R9	1010364-707		237K	±1 %	1/8W
R10	1006750-56		10K	±2%	1/4W
R11	SEE NOTE 2		NOM	±1 %	1/10W
R12	1006750-36		1500	±2%	1/4W
R13	1006750-25		510	±2%	1/4W
R14	1006750-25		510	±2%	1/4W
R15	1006750-36		1500	±2%	1/4W
R18	1010364-769		499K	±1 %	1/8W
R19	1010364-769		499K	±1 %	1/8W
R20	1010311 -291		52.3K	±1 %	1/10W
R21	1010364-769		499K	±1 %	1/8W
R22	1006750-72		47K	±2%	1/4W
R23	1006750-65		24K	±2%	1/4W
R24	1010311 -113		732	±1 %	1/10W
R25	1010364-707		237K	±1 %	1/8W
R26	1006750-56		10K	±2%	1/4W
R27	SEE NOTE 2		NOM	±1 %	1/10W
R28	1006750-36		1500	±2%	1/4W
R29	1006750-25		510	±2%	1/4W
R30	1006750-25		510	±2%	1/4W
R31	1006750-36		1500	±2%	1/4W
R34	1010364-769		499K	±1 %	1/8W
R35	1010364-769		499K	±1 %	1/8W
R36	1010311 -291		52.3K	±1 %	1/10W
R37	1010364-769		499K	±1 %	1/8W
R38	1006750-72		47K	±2%	1/4W
R39	1006750-65		24K	±2%	1/4W
R40	1010311 -113		732	±1 %	1/10W
R41	1010364-707		237K	±1 %	1/8W
R42	1006750-56		10K	±2%	1/4W
R43	SEE NOTE 2		NOM	±1 %	1/10W
R44	1006750-36		1500	±2%	1/4W
R45	1006750-25		510	±2%	1/4W
R46	100750 -25		510	±2%	1/4W
R47	1006750-36		1500	±2%	1/4W
R50	1010364-769		499K	±1 %	1/8W
R51	1010364-769		499K	±1 %	1/8W
R52	1010311 -291		52.3K	±1 %	1/10W
R53	1010364-769		499K	±1 %	1/8W
R54	1006750-72		47K	±2%	1/4W
R55	1006750-65		24K	±2%	1/4W
R56	1010311 -113		732	±1 %	1/10W
R57	1010364-707		237K	±1 %	1/8W
R58	1006750-56		10K	±2%	1/4W
R59	SEE NOTE 2		NOM	±1 %	1/10W
R60	1006750-36		1500	±2%	1/4W
R61	1006750-25		510	±2%	1/4W
R62	1006750-25		510	±2%	1/4W
R63	1006750-36	RESISTOR	1500	±2%	1/4W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47	±10%	35VDC
C2	1010410 -19		1200 PF	±2%	500VDC
C3	SEE NOTE 2		NOM	±2%	
C4	1006755-31		10	±10%	20VDC
C5	1006755-34		33	±10%	20VDC
C6	1006755-69		1	±10%	35VDC
C7	1006755-34		33	±10%	20VDC
C8	1010279 -16		1.9	±10%	6 VDC
C9	1010279 -16		1.9	±10%	6 VDC
C10	1010410 -19		1200 PF	±2%	500VDC
C11	SEE NOTE 2		NOM	±2%	
C12	1006755-31		10	±10%	20VDC
C13	1006755-34		33	±10%	20VDC
C14	1006755-69		1	±10%	35VDC
C15	1006755-34		33	±10%	20VDC
C16	1010279 -16		1.9	±10%	6 VDC
C17	1010279 -16		1.9	±10%	6 VDC
C18	1010410 -19		1200 PF	±2%	500VDC
C19	SEE NOTE 2		NOM	±2%	
C20	1006755-31		10	±10%	20VDC
C21	1006755-34		33	±10%	20VDC
C22	1006755-69		1	±10%	35VDC
C23	1006755-34		33	±10%	20VDC
C24	1010279 -16		1.9	±10%	6 VDC
C25	1010279 -16		1.9	±10%	6 VDC
C26	1010410 -19		1200 PF	±2%	500VDC
C27	SEE NOTE 2		NOM	±2%	
C28	1006755-31		10	±10%	20VDC
C29	1006755-34		33	±10%	20VDC
C30	1006755-69		1	±10%	35VDC
C31	1006755-34		33	±10%	20VDC
C32	1010279 -16		1.9	±10%	6 VDC
C33	1010279 -16	CAPACITOR	1.9	±10%	6 VDC
T1	1008832	TRANSFORMER			
T2	1010324				
T3	1010323				
T4	1008832				
T5	1010324				
T6	1010323				
T7	1008832				
T8	1010324				
T9	1010323				
T10	1008832				
T11	1010324				
T12	1010323	TRANSFORMER			
Q1	1010397 -1	TRANSISTOR	2N930		
Q2	1010397 -1		2N930		
Q3	1010367		3N68		
Q4	1010367		3N68		
Q5	1010397 -1		2N930		
Q6	1010397 -1		2N930		
Q7	1010367		3N68		
Q8	1010367		3N68		
Q9	1010397 -1		2N930		
Q10	1010397 -1		2N930		
Q11	1010367		3N68		
Q12	1010367		3N68		
Q13	1010397 -1		2N930		
Q14	1010397 -1		2N930		
Q15	1010367		3N68		
Q16	1010367	TRANSISTOR	3N68		
CR1	1010837 -001	DIODE	1N645		
CR2	1010837 -001	DIODE	1N645		
CR3	1010837 -001	DIODE	1N645		
CR4	1010837 -001	DIODE	1N645		

R11,R27,R43,R59	
PART NO.	VALUE
1010311 -296	59.0K
-297	60.4K
-298	61.9K
-299	63.4K
-300	64.9K
-301	66.5K
-302	68.1K
-303	69.8K
-304	71.5K
-305	73.2K
-306	75.0K
-307	76.8K
-308	78.7K
-309	80.6K
-310	82.5K
-311	84.5K
-312	86.6K
-313	88.7K
1010311 -314	90.9K

C3,C11,C19,C27		
PART NO.	VALUE	RATING
1010410 -1	220 PF	500VDC
-2	240	
-3	270	
-4	300	
-5	330	
-6	360	
-7	390	
-8	430	
-9	470	
-10	510	500VDC
-11	560	300VDC
-12	620	
-13	680	
-14	750	
-15	820	
-16	910	
-17	1000	
-18	1100	
1010410 -19	1200 PF	300VDC

REF DWG:
RADAR RESOLVERS ASSY
DWG NO.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

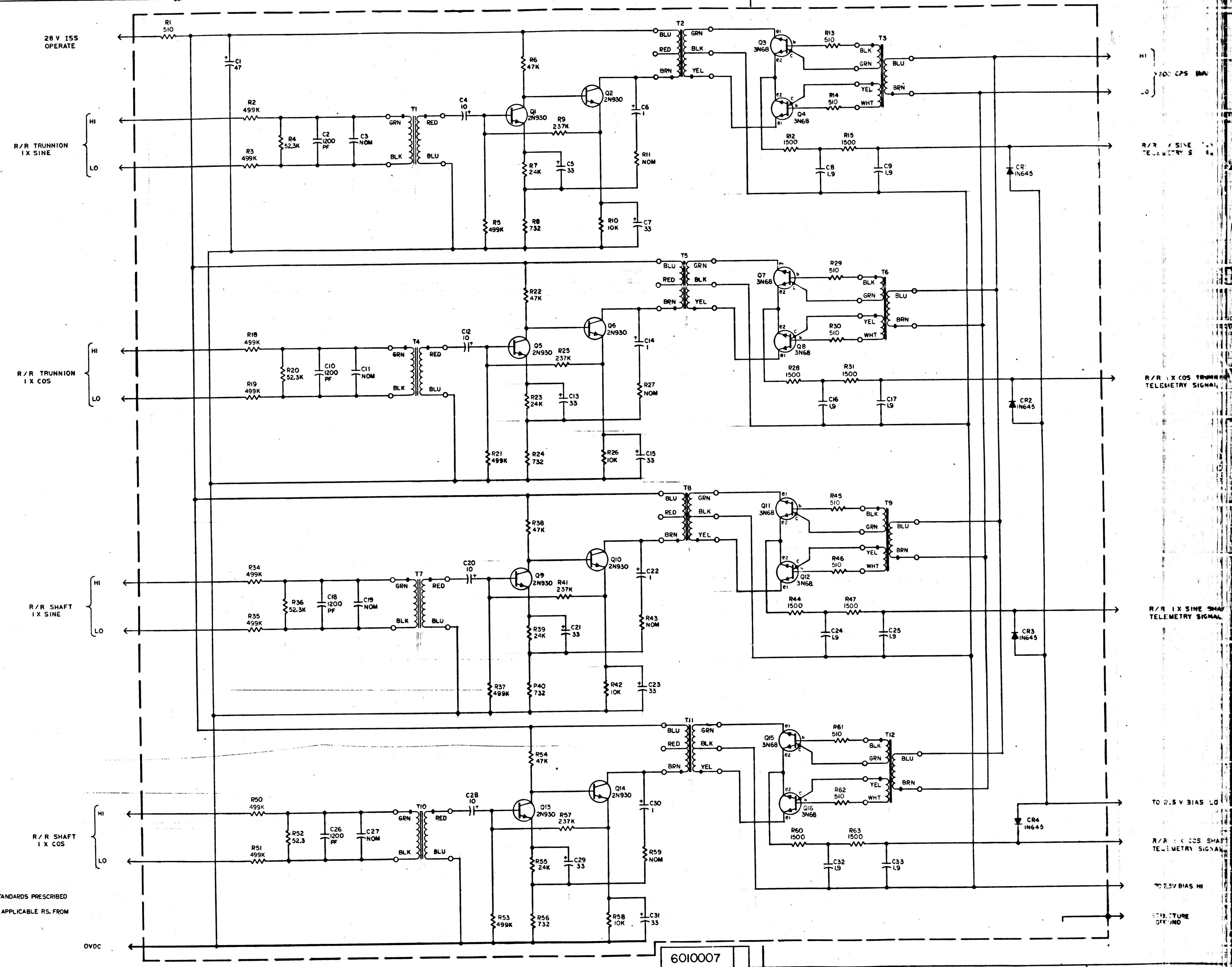
DRAWN F. Posey 10 Dec 65
CHECKED
APPROVED
APPROVED
APPROVED MIT
APPROVED MSC A. C. METZGER
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC
RADAR RESOLVERS SIGNAL CONDITIONER

CODE IDENT NO. 80320
SIZE J
DRAWING NO. 6010007
SCALE NONE
SHEET 1 OF 1

6010007



28 V ISS
OPERATE
R1
510
C1
47
R/R TRUNNION
1X SINE
HI
LO
R2
499K
R3
499K
R4
52.3K
C2
1200
PF
C3
NOM
T1
GRN
BLK
RED
BLU
C4
10
Q1
2N930
Q2
2N930
R5
499K
R6
47K
R7
24K
R8
732
R9
237K
R10
10K
R11
NOM
C5
33
C6
1
C7
33
T2
BLU
RED
BRN
GRN
BLK
YEL
Q3
3N68
Q4
3N68
R13
510
R14
510
T3
WHT
R12
1500
R15
1500
C8
1.9
C9
1.9
CR1
1N645
HI
LO
800 CPS
R/R SINE
TELEMETRY S
R/R TRUNNION
1 X COS
R18
499K
R19
499K
R20
52.3K
C10
1200
PF
C11
NOM
T4
C12
10
Q5
2N930
Q6
2N930
R21
499K
R22
47K
R23
24K
R24
732
R25
237K
R26
10K
R27
NOM
C13
33
C14
1
C15
33
T5
Q7
3N68
Q8
3N68
R29
510
R30
510
T6
R28
1500
R31
1500
C16
1.9
C17
1.9
CR2
1N645
R/R X COS
TELEMETRY SIGNAL
R/R SHAFT
1X SINE
R34
499K
R35
499K
R36
52.3K
C18
1200
PF
C19
NOM
T7
C20
10
Q9
2N930
Q10
2N930
R37
499K
R38
47K
R39
24K
P40
732
R41
237K
R42
10K
R43
NOM
C21
33
C22
1
C23
33
T8
Q11
3N68
Q12
3N68
R45
510
R46
510
T9
R44
1500
R47
1500
C24
1.9
C25
1.9
CR3
1N645
R/R 1 X SINE SHAF
TELEMETRY SIGNAL
R/R SHAFT
1 X COS
R50
499K
R51
499K
R52
52.3
C26
1200
PF
C27
NOM
T10
C28
10
Q13
2N930
Q14
2N930
R53
499K
R54
47K
R55
24K
R56
732
R57
237K
R58
10K
R59
NOM
C29
33
C30
1
C31
33
T11
Q15
3N68
Q16
3N68
R61
510
R62
510
T12
R60
1500
R63
1500
C32
1.9
C33
1.9
CR4
1N645
TO 2.5 V BIAS LO
R/R COS SHAFT
TELEMETRY SIGNAL
TO 2.5V BIAS HI
STRUCTURE
GROUND
OVDC
7
6
5
4
D
C
B
A

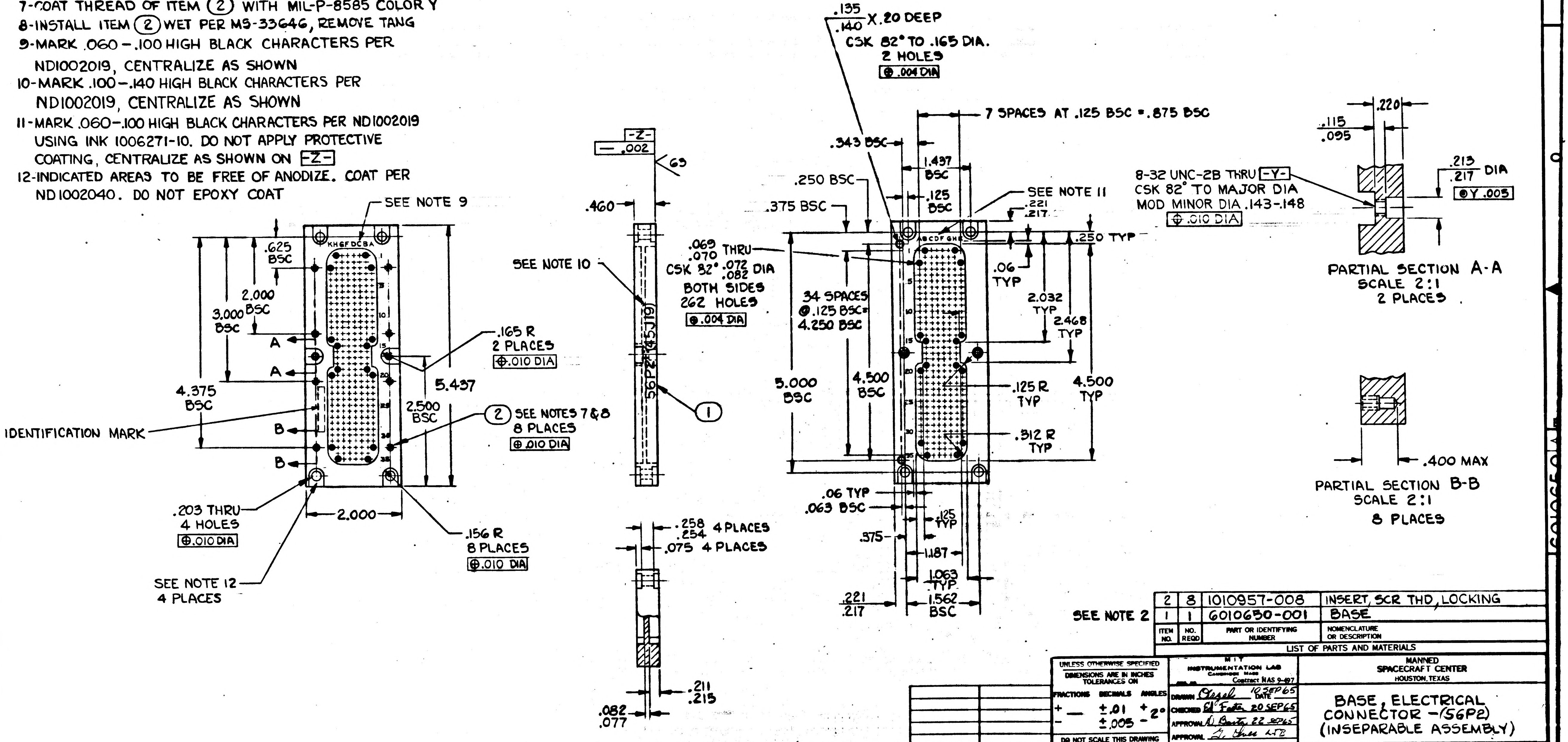
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SELECT R11, R27, R43, R59, C3, C11, C19 & C27 PER APPLICABLE P.S. FROM APPROPRIATE CHART

6010007

NOTES:

1-INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2-MATERIAL: MAGNESIUM AZ 31B-H24 PER QQ-M-44
3-FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
4-MUST BE FREE FROM BURRS.
5-UNLESS OTHERWISE SPECIFIED:
  A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
  B. SURFACE ROUGHNESS NOT TO EXCEED 125/▽.
6-IDENTIFY WITH PART NUMBER PER ND1002019.
7-COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8-INSTALL ITEM ② WET PER MS-33646, REMOVE TANG
9-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
10-MARK .100-.140 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
11-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING, CENTRALIZE AS SHOWN ON -Z-
12-INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT


SEE NOTE 9
.625 BSC
2.000 BSC
3.000 BSC
4.375 BSC
A
A
B
B
IDENTIFICATION MARK
2.500 BSC
5.437
.165 R 2 PLACES
⊕ .010 DIA
② SEE NOTES 7 & 8 8 PLACES
⊕ .010 DIA
.203 THRU 4 HOLES
⊕ .010 DIA
2.000
.156 R 8 PLACES
⊕ .010 DIA
SEE NOTE 12 4 PLACES
-Z-
— .002
63
.460
SEE NOTE 10
56P2(45J19)
①
.258
.254 4 PLACES
.075 4 PLACES
.211
.215
.082
.077
.135
.140 X .20 DEEP
CSK 82° TO .165 DIA.
2 HOLES
⊕ .004 DIA
7 SPACES AT .125 BSC = .875 BSC
.343 BSC
1.437 BSC
.125 BSC
.250 BSC
.375 BSC
SEE NOTE 11
.221
.217
.250 TYP
.069
.070 THRU
CSK 82° .072
.082 DIA
BOTH SIDES
262 HOLES
⊕ .004 DIA
34 SPACES @ .125 BSC = 4.250 BSC
.06 TYP
2.032 TYP
2.468 TYP
5.000 BSC
4.500 BSC
.125 R TYP
.312 R TYP
4.500 TYP
.06 TYP
.063 BSC
.125 TYP
.375
1.187
1.063 TYP
.221
.217
1.562 BSC
8-32 UNC-2B THRU -Y-
CSK 82° TO MAJOR DIA
MOD MINOR DIA .143-.148
⊕ .010 DIA
.220
.115
.095
.213
.217 DIA
◉ Y .005
PARTIAL SECTION A-A
SCALE 2:1
2 PLACES
.400 MAX
PARTIAL SECTION B-B
SCALE 2:1
8 PLACES

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
A		INITIAL RELEASE PER TDRR 24285			

SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCR THD, LOCKING
1	1	6010650-001	BASE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014531	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — −
DECIMALS ±.01 ±.005
ANGLES +2° −
DO NOT SCALE THIS DRAWING
MATERIAL: SEE NOTE 2
CONTRACT NAS 9-497

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
Contract NAS 9-497
DRAWN Oszel DATE 10 SEP 65
CHECKED Ed Foster 20 SEP 65
APPROVAL D. Baxter 22 SEP 65
APPROVAL L. Hess LTB
NASA APPROVAL A. C. METZGER
MIT APPROVAL W. Kupfer 23 Sep 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

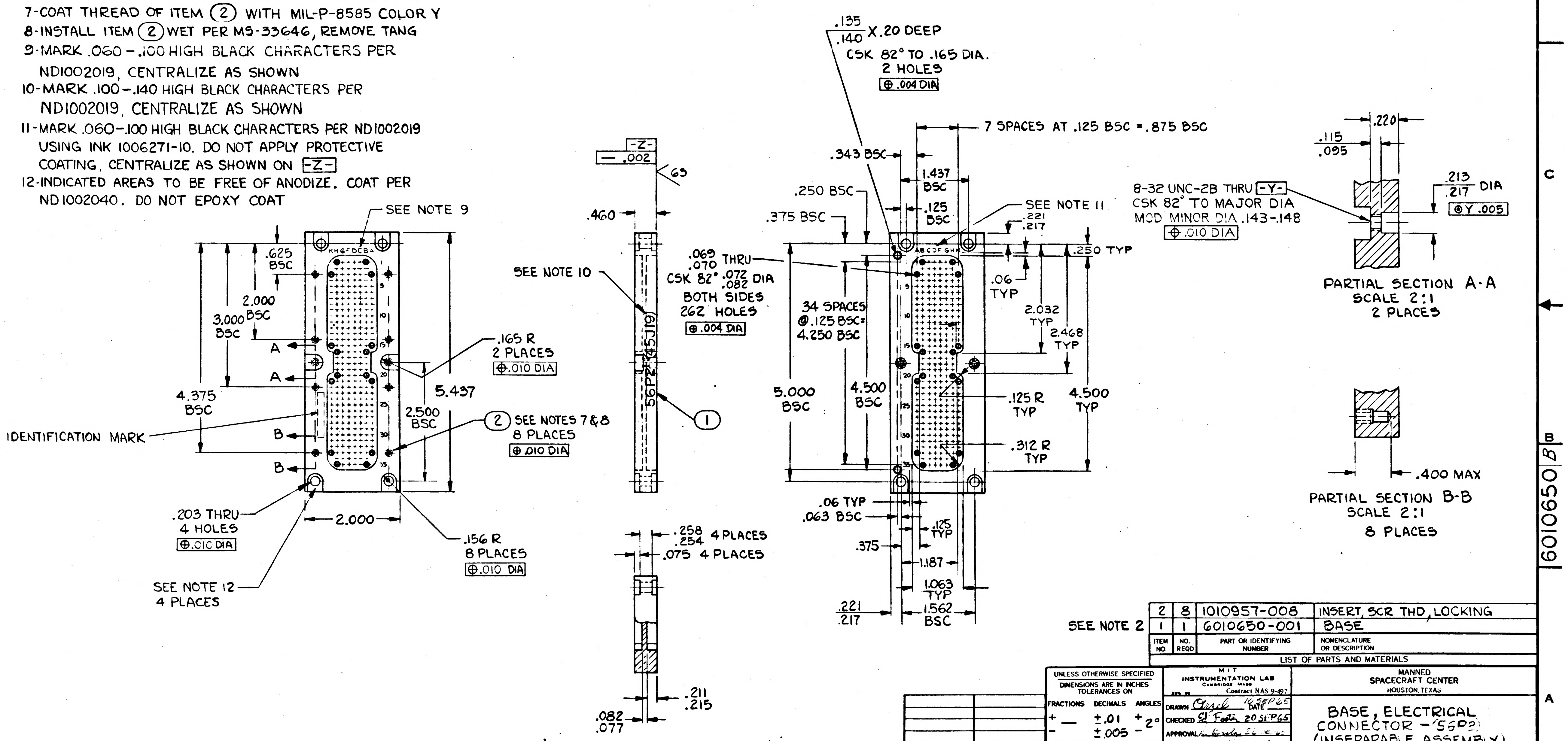
BASE, ELECTRICAL
CONNECTOR -(56P2)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010650
SCALE FULL
SHEET 1 OF 1

NOTES:

1-INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2-MATERIAL: MAGNESIUM AZ 31B-H24 PER QQ-M-44
3-FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
4-MUST BE FREE FROM BURRS.
5-UNLESS OTHERWISE SPECIFIED:
  A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
  B. SURFACE ROUGHNESS NOT TO EXCEED 125/.
6-IDENTIFY WITH PART NUMBER PER ND1002019.
7-COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8-INSTALL ITEM ② WET PER MS-33646, REMOVE TANG
9-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
10-MARK .100-.140 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
11-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING, CENTRALIZE AS SHOWN ON -Z-
12-INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
A		INITIAL RELEASE PER TDRR 24265			
B		REVISED PER TDRR 27143		23 MAR 66	



.135
.140 X .20 DEEP
CSK 82° TO .165 DIA.
2 HOLES
⊕ .004 DIA
7 SPACES AT .125 BSC = .875 BSC
.343 BSC
1.437 BSC
.250 BSC
.125 BSC
.375 BSC
SEE NOTE 11
.221
.217
.250 TYP
.069
.070 THRU
CSK 82° .072
.082 DIA
BOTH SIDES
262 HOLES
⊕ .004 DIA
.06 TYP
34 SPACES @ .125 BSC = 4.250 BSC
2.032 TYP
2.468 TYP
5.000 BSC
4.500 BSC
4.500 TYP
.125 R TYP
.312 R TYP
.06 TYP
.063 BSC
.125 TYP
.375
1.187
1.063 TYP
1.562 BSC
.221
.217
-Z-
— .002
63
.460
SEE NOTE 10
56P2 1245119
①
.258
.254 4 PLACES
.075 4 PLACES
.211
.215
.082
.077
SEE NOTE 9
KHGFDCBA
.625 BSC
2.000 BSC
3.000 BSC
4.375 BSC
A
A
B
B
B
.165 R
2 PLACES
⊕ .010 DIA
5.437
2.500 BSC
② SEE NOTES 7&8
8 PLACES
⊕ .010 DIA
IDENTIFICATION MARK
.203 THRU
4 HOLES
⊕ .010 DIA
2.000
.156 R
8 PLACES
⊕ .010 DIA
SEE NOTE 12
4 PLACES
8-32 UNC-2B THRU -Y-
CSK 82° TO MAJOR DIA
MOD MINOR DIA .143-.148
⊕ .010 DIA
.115
.095
.220
.213
.217 DIA
⊚ Y .005
PARTIAL SECTION A-A
SCALE 2:1
2 PLACES
.400 MAX
PARTIAL SECTION B-B
SCALE 2:1
8 PLACES

SEE NOTE 2

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCR THD, LOCKING
1	1	6010650-001	BASE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014532	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — − ; DECIMALS ±.01 ±.005 ; ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
Contract NAS 9-497
DRAWN Orzel DATE 10 SEP 65
CHECKED Ed Foster 20 SEP 65
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
21 SEP 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL
CONNECTOR - 56P2
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010650
SCALE FULL
SHEET 1 OF 1

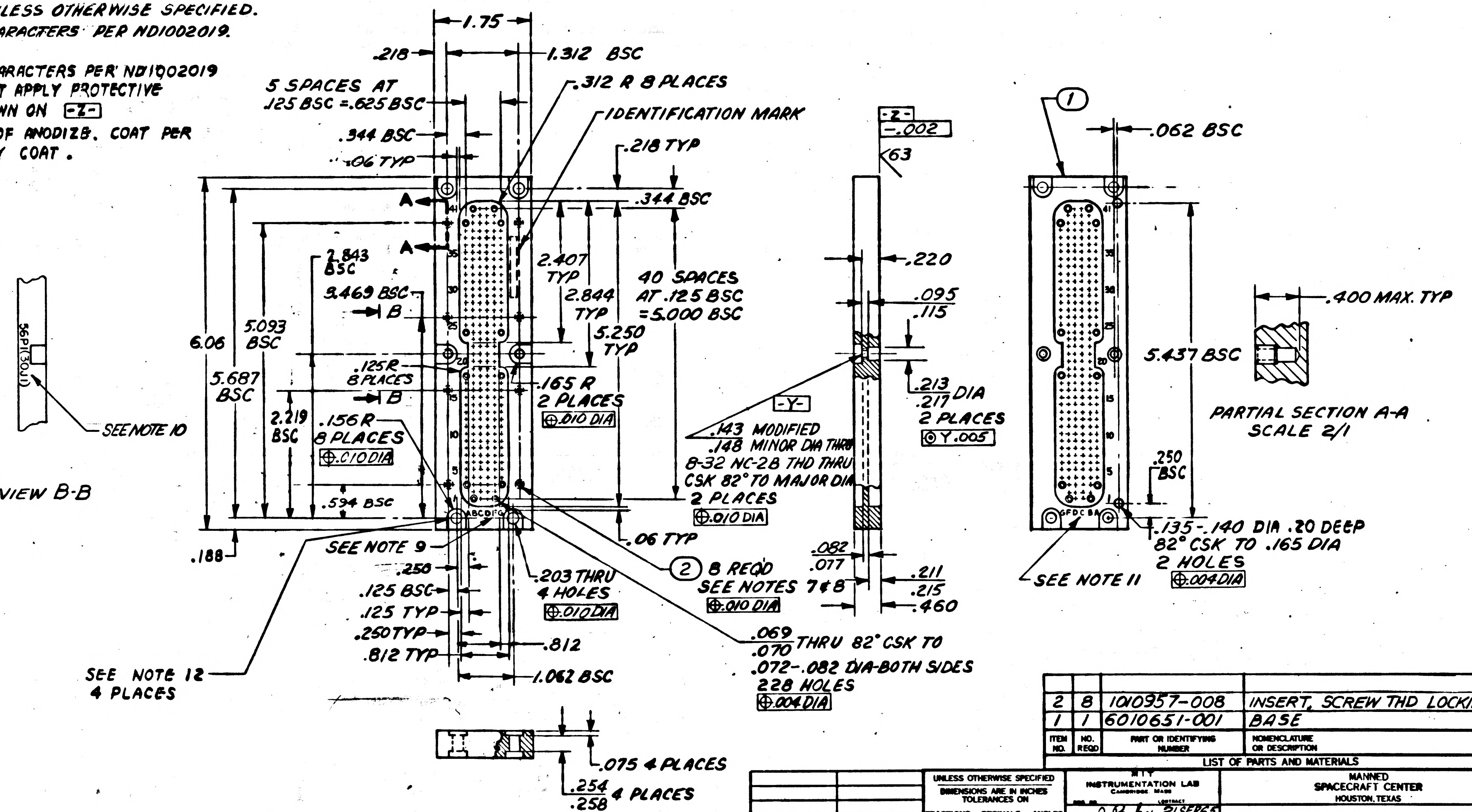
6010650 B

6010651

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE PER TDRR 24285			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44
3. FINISH: ANODIZE PER MIL-M-45202 TYPE I CLASS C
4. MUST BE FREE FROM BURRS.
5. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 125.
6. IDENTIFY USING PART NUMBER PER ND1002019.
7. COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8. INSTALL ITEM ② WET PER MS33646. REMOVE TANG.
9. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN, UNLESS OTHERWISE SPECIFIED.
10. MARK .10-.14 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
11. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING. CENTRALIZE AS SHOWN ON -Z-
12. INDICATED AREA TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.


56P1(30J1)
SEE NOTE 10
VIEW B-B
1.75
.218
1.312 BSC
5 SPACES AT .125 BSC = .625 BSC
.312 R 8 PLACES
IDENTIFICATION MARK
.344 BSC
.06 TYP
.218 TYP
.344 BSC
A
A
2.843 BSC
3.469 BSC
B
B
6.06
5.093 BSC
5.687 BSC
2.219 BSC
.125R 8 PLACES
.156R 8 PLACES
⊕.010 DIA
.594 BSC
.188
2.407 TYP
2.844 TYP
5.250 TYP
40 SPACES AT .125 BSC = 5.000 BSC
.165 R 2 PLACES
⊕.010 DIA
-Y-
.143 MODIFIED
.148 MINOR DIA THRU
8-32 NC-2B THD THRU
CSK 82° TO MAJOR DIA
2 PLACES
⊕.010 DIA
.06 TYP
SEE NOTE 9
.250
.125 BSC
.125 TYP
.250 TYP
.812 TYP
.812
1.062 BSC
.203 THRU 4 HOLES
⊕.010 DIA
② 8 REQD
SEE NOTES 7 & 8
⊕.010 DIA
.069/.070 THRU 82° CSK TO .072-.082 DIA-BOTH SIDES
228 HOLES
⊕.004 DIA
SEE NOTE 12 4 PLACES
.075 4 PLACES
.254/.258 4 PLACES
-Z-
-.002
63
.220
.095/.115
.213/.217 DIA 2 PLACES
◎ Y .005
.082/.077
.211/.215
.460
①
.062 BSC
5.437 BSC
.250 BSC
.135-.140 DIA .20 DEEP
82° CSK TO .165 DIA
2 HOLES
⊕.004 DIA
SEE NOTE 11
.400 MAX. TYP
PARTIAL SECTION A-A
SCALE 2/1
ABCDFG
GFDCBA
1
5
10
15
20
25
30
35
41

LIST OF PARTS AND MATERIALS

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCREW THD LOCKING
1	1	6010651-001	BASE

NEXT ASSY	USED ON
6014531	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
± —	±.005 ±.02	±2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN J. Parker 21 SEP 65 DATE
CHECKED C. Pizzola 24 SEP 65
APPROVAL D. Bista 24 SEP 65
APPROVAL G. Ives GB
NASA APPROVAL A. C. METZGER
MIT APPROVAL W. Kupfer 23 Nov 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

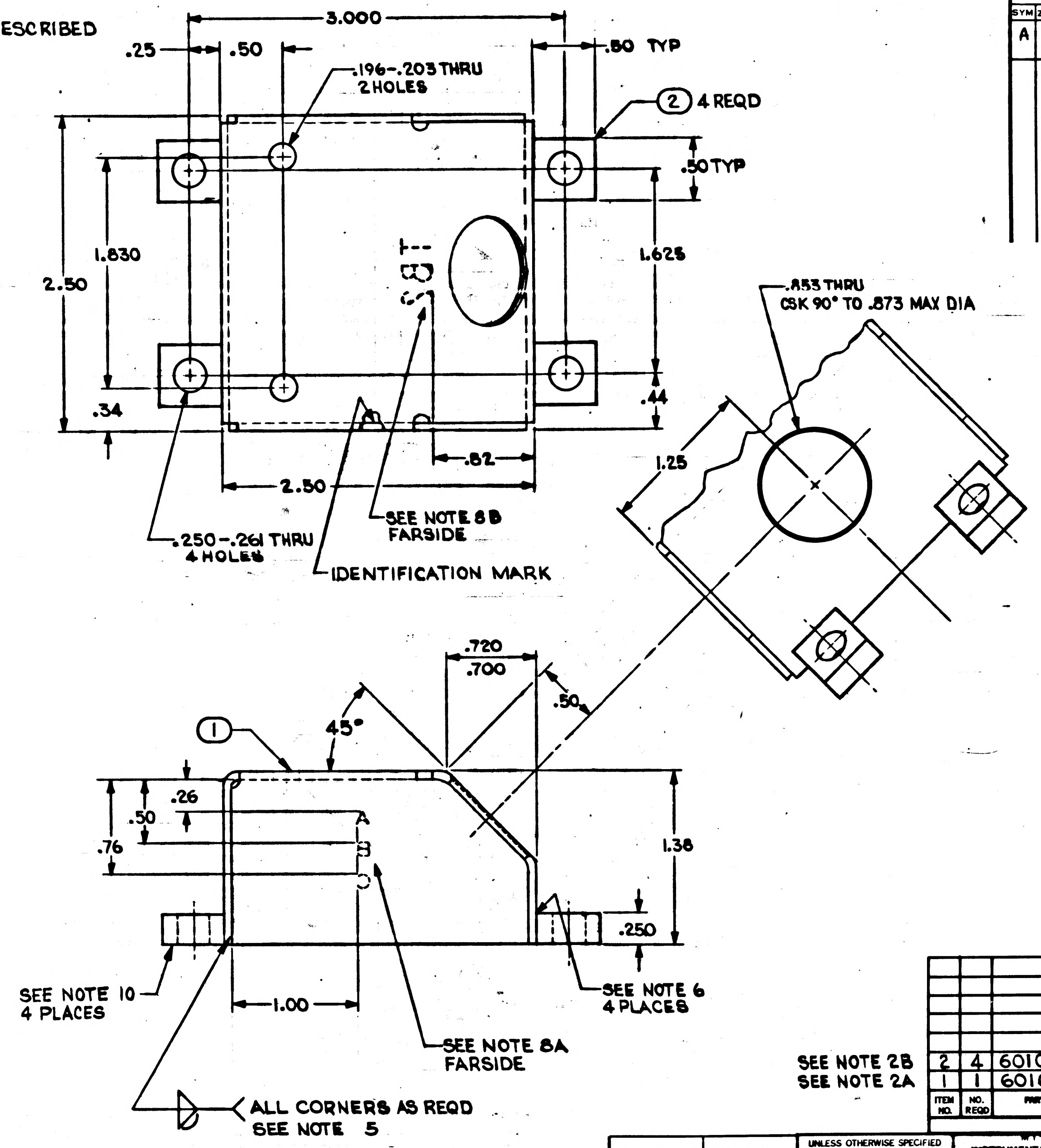
BASE, ELECTRICAL CONNECTOR
SIG COND (56P1)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO.	SIZE	
80230	D	6010651

SCALE 1/1
SHEET 1 OF 1

Charlestown
24 SEP 65

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
   A. .06 THICK 5052-H32 AL PER QQ-A-250/8.
   B. 6061-T651 AL PER QQ-A-225/8 (T651)
3. REMOVE BURRS AND SHARP EDGES .005/.015.
4. UNLESS OTHERWISE SPECIFIED:
   A. BEND RADII TO BE .06R.
   B. MINIMUM BEND RELIEF PERMISSIBLE.
   C. ALL SURFACE ROUGHNESS MUST NOT EXCEED 125/√.
5. WELD PER MIL-W-8604.
6. DIP BRAZE PER ND1002073.
7. FINISH: MIL-A-8625, TYPE II, DYED BLACK.
8. MARK CHARACTERS WHITE PER ND1002019. CENTRALIZE AS SHOWN.
   A. .10-.14 HIGH.
   B. .23-.27 HIGH.
9. IDENTIFY USING DRAWING NUMBER PER ND1002019.
10. SURFACE TO BE FREE FROM ANODIZE. APPLY CHEM FILM PER MIL-C-5541, CLASS 3.


3.000
.25
.50
.50 TYP
.196-.203 THRU
2 HOLES
② 4 REQD
.50 TYP
1.830
2.50
1.625
.44
.34
.82
2.50
.250-.261 THRU
4 HOLES
SEE NOTE 8B
FARSIDE
IDENTIFICATION MARK
.853 THRU
CSK 90° TO .873 MAX DIA
1.25
.720
.700
.50
①
45°
.26
.50
.76
A
B
C
1.38
.250
SEE NOTE 10
4 PLACES
1.00
SEE NOTE 6
4 PLACES
SEE NOTE 8A
FARSIDE
ALL CORNERS AS REQD
SEE NOTE 5

A	6010652

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE PER TDRR 24896			

2	4	6010652-002	FOOT, MOUNTING
1	1	6010652-001	COVER
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

SEE NOTE 2B
SEE NOTE 2A

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6010654	6014507

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+ 1°
−	±.005	− 2

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R. H. Becker DATE 8 OCT 65
CHECKED 12 OCT 65
APPROVAL 12 OCT 65
APPROVAL 22 Dec 65
NASA APPROVAL A. C. METZGER
MIT APPROVAL 22 Dec 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, JUNCTION BOX
(INSEPARABLE ASSEMBLY)
LEM

CODE IDENT NO.	SIZE	
80230	D	6010652

SCALE 2:1
SHEET 1 OF 1

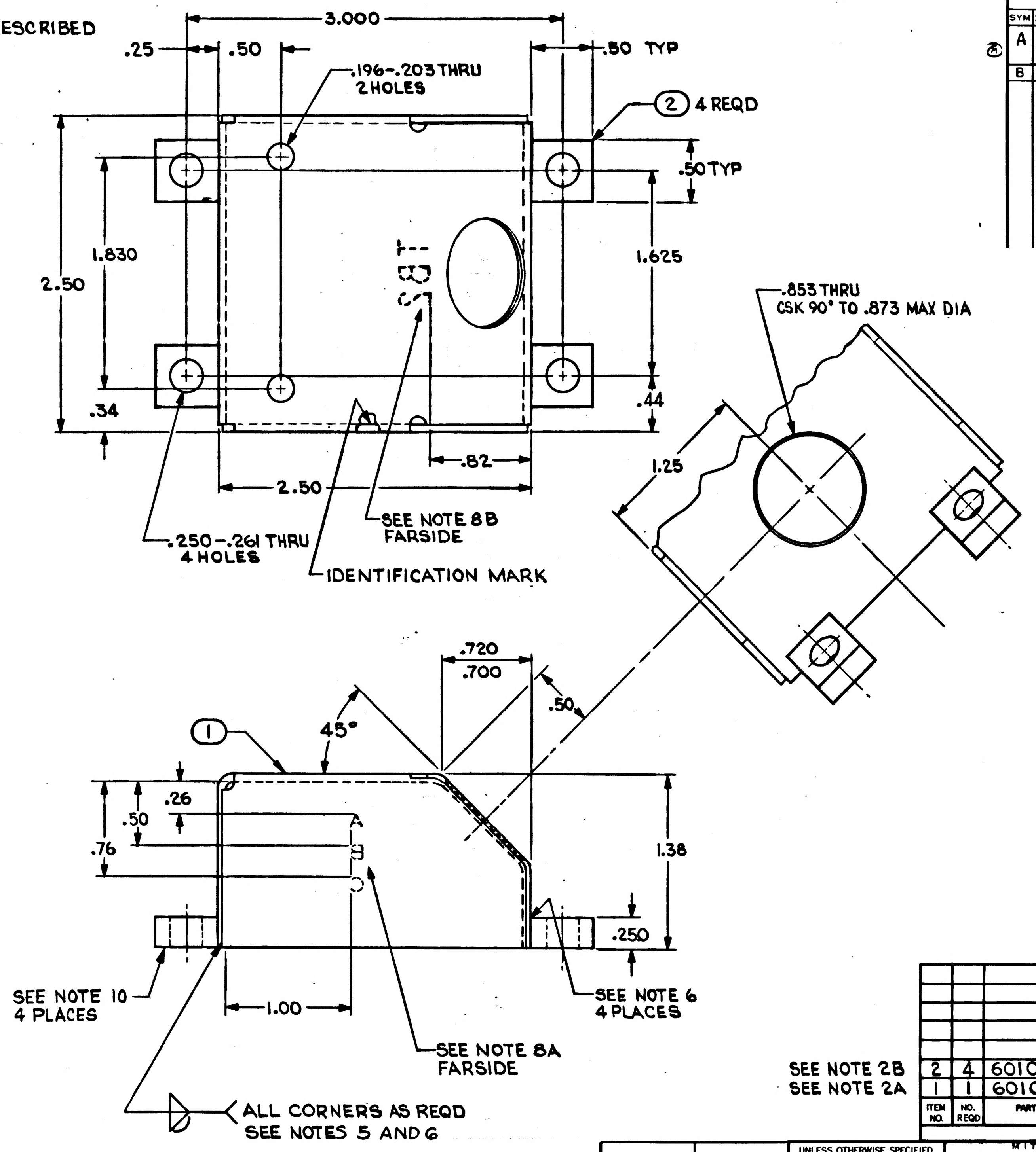
MASTER

3 J. Erickson 12 OCT 65

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL:
    A. .06 THICK 6061-TO AL PER QQ-A-250/11
    B. 6061-T6511 AL PER QQ-A-200/8
3. REMOVE BURRS AND SHARP EDGES .005/.015.
4. UNLESS OTHERWISE SPECIFIED:
    A. BEND RADII TO BE .06 R.
    B. MINIMUM BEND RELIEF PERMISSIBLE.
    C. ALL SURFACE ROUGHNESS MUST NOT EXCEED 125√.
5. CORNER EDGES OF COVER MUST OVERLAP BY HALF THE THICKNESS FOR GOOD BRAZE.
6. DIP BRAZE PER ND1002073.
7. FINISH: MIL-A-8625, TYPE I, CLEAR
8. MARK CHARACTERS BLACK PER ND1002019. CENTRALIZE AS SHOWN.
    A. .10-.14 HIGH.
    B. .23-.27 HIGH.
9. IDENTIFY USING DRAWING NUMBER PER ND1002019.
10. SURFACE TO BE FREE FROM ANODIZE. APPLY CHEM FILM PER MIL-C-5541, CLASS 3.

B 6010652 2

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD.
Ⓐ A		INITIAL RELEASE PER TDRR 24896			
B		REVISED PER TDRR 25054		6 Jan 66	VK



3.000
.25
.50
.50 TYP
.196-.203 THRU 2 HOLES
② 4 REQD
.50 TYP
1.830
2.50
1.625
.34
.44
.82
2.50
.250-.261 THRU 4 HOLES
SEE NOTE 8B FARSIDE
IDENTIFICATION MARK
.853 THRU CSK 90° TO .873 MAX DIA
1.25
.720
.700
.50
45°
①
.26
.50
.76
1.38
.250
SEE NOTE 10 4 PLACES
1.00
SEE NOTE 6 4 PLACES
SEE NOTE 8A FARSIDE
ALL CORNERS AS REQD SEE NOTES 5 AND 6

SEE NOTE 2B	2	4	6010652-002	FOOT, MOUNTING
SEE NOTE 2A	1	1	6010652-001	COVER
	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

6010654	6014507
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	±.02	+1°
−	±.005	−2

DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS9-497

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG NO
CONTRACT
DRAWN R. A. Becker DATE 8 OCT 65
CHECKED McManning 12 OCT 65
APPROVAL D. Kling 12 OCT 65
APPROVAL 22 Dec 65
NASA APPROVAL A. C. METZGER
MIT APPROVAL 22 Dec 65

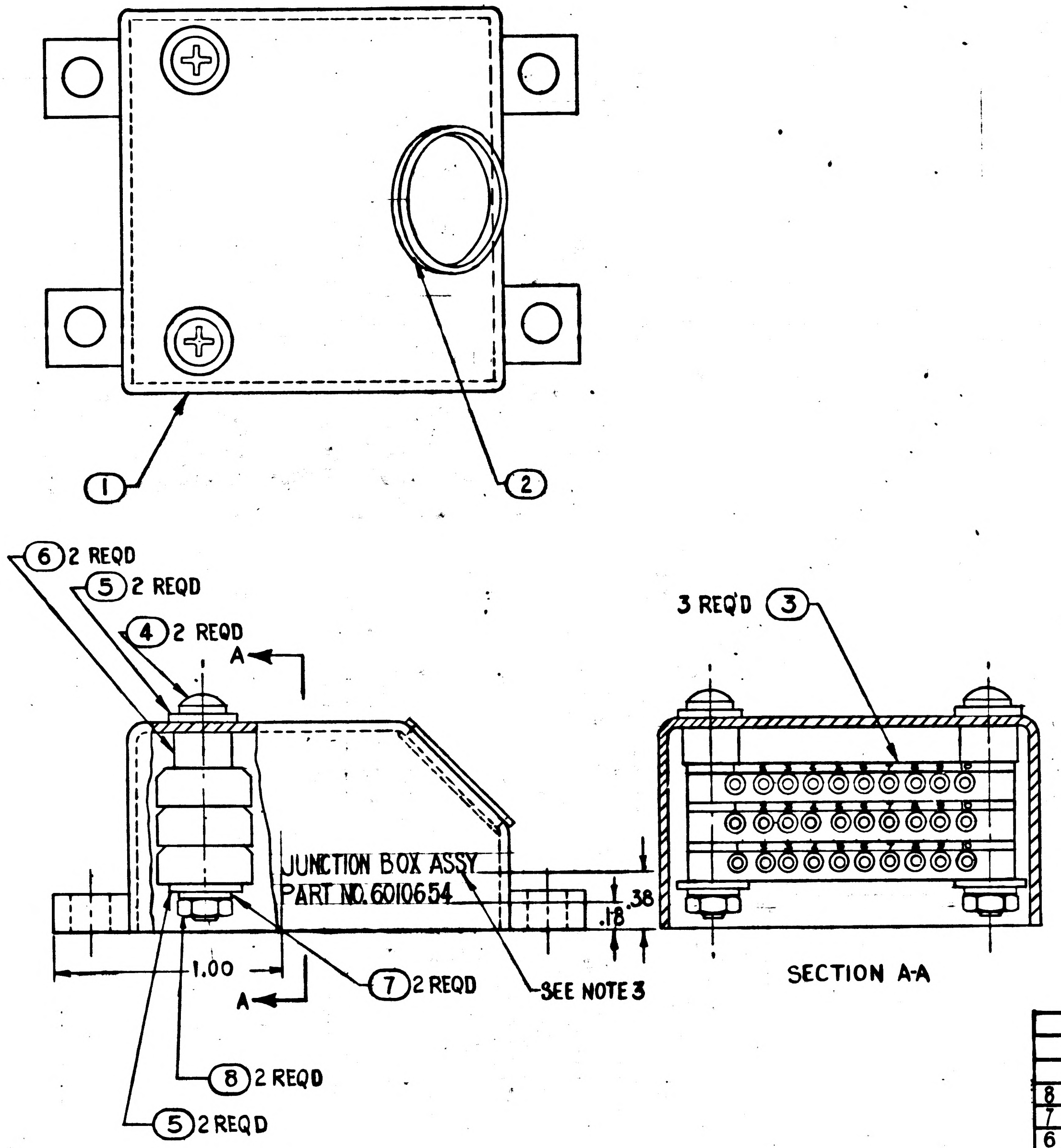
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, JUNCTION BOX
(INSEPARABLE ASSEMBLY)
LEM

CODE IDENT NO.	SIZE	
80230	D	6010652
SCALE 2:1		SHEET 1 OF 1

S. Erickson 12 OCT 65

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NUMBER PREFIXED WITH "ASSY" PER ND1002019.
3. MARK CHARACTERS .10-.14 HIGH, WHITE, PER ND1002019.



A | 6010654

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE PER TDRR 24796		16 DEC 65	

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
8	2	MS35649-84	NUT, PLAIN, HEX.
7	2	MS35335-59	WASHER, LOCK
6	2	6010653	SPACER
5	4	AN960-C8L	WASHER, FLAT
4	2	MS 51957-50	SCREW PAN HEAD
3	3	1010978-001	TERMINAL BOARD, TAPER PIN.
2	1	1010986-021	GROMMET
1	1	6010652	COVER, JUNCTION BOX.
	-011	LIST OF PARTS AND MATERIALS	

NEXT ASSY	USED ON
6014507	6014515-011
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN R.W. Turner DATE 18 OCT 65
CHECKED M. Manning 20 OCT 65
APPROVAL D.W. Kling 22 OCT 65
APPROVAL 22 Dec '65
NASA APPROVAL A. C. METZGER
MIT APPROVAL W. Kupfer 22 Dec 65

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

JUNCTION BOX ASSEMBLY
(LEM)

CODE IDENT NO. 80230
SIZE D
6010654
SCALE 2:1
SHEET

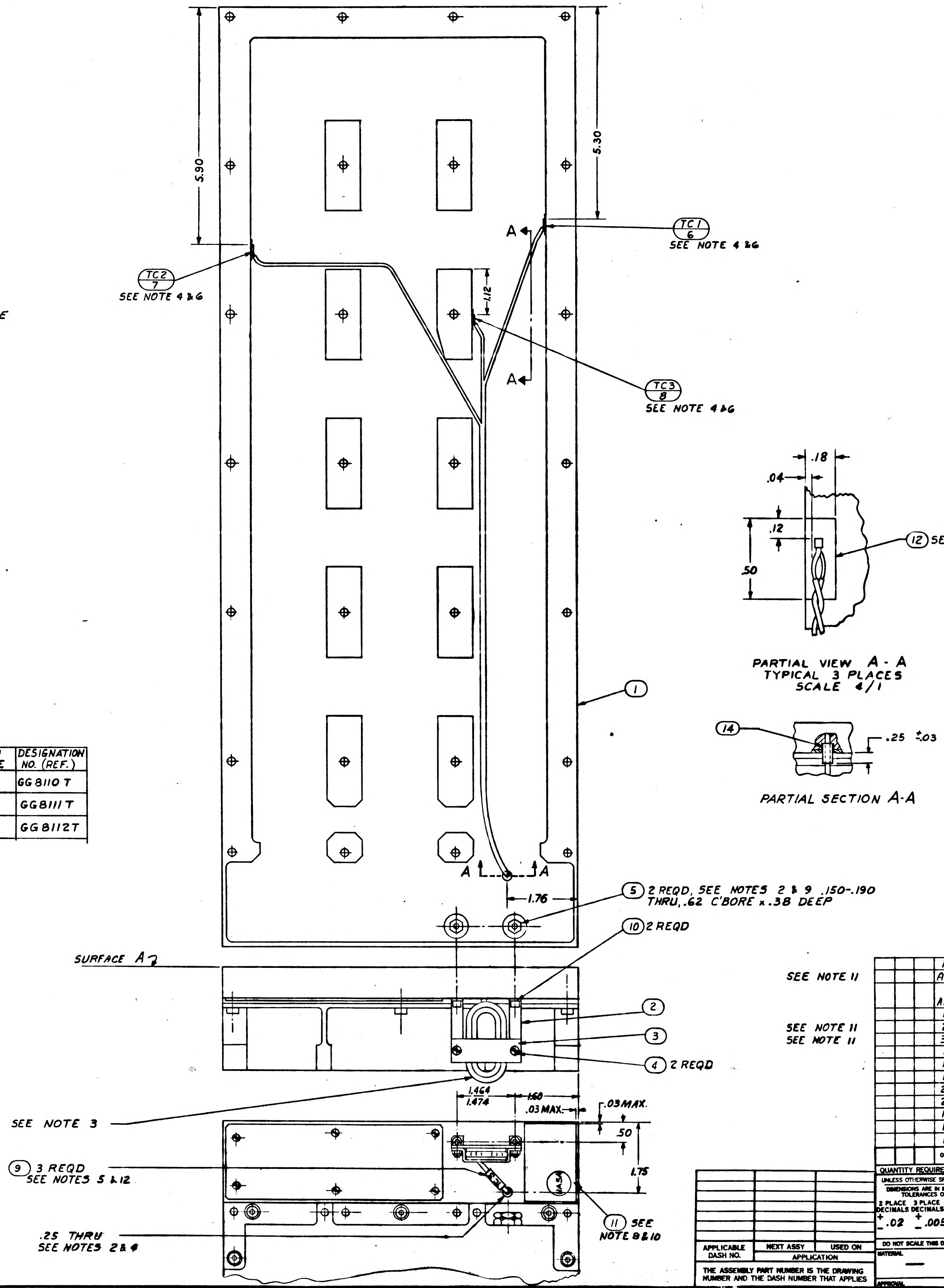
Chamberlain 22 DEC 65

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MACHINED METALLIC SURFACES TO BE FINISHED PER ND1002040.
3. THERMOCOUPLE LEADS TO BE CUT TO LENGTH OF 15 TO 17 INCHES, MEASURED FROM WHERE THEY EMERGE AT THE HEADER.
4. THERMOCOUPLE LEADS TO BE BELOW SURFACE "A" AND COMPLETELY COVERED AND EMBEDDED IN ENCAPSULANT. FILL WITH ENCAPSULANT FLUSH TO .030 BELOW SURFACE PER ND 1002236.
5. EACH SLEEVE TO BE MARKED WITH ITS RESPECTIVE THERMOCOUPLE TC DESIGNATION NUMBER PER ND-1002019, BLACK CHARACTERS .12 HIGH. SLEEVES TO BE LOCATED ALONG LENGTH OF THERMOCOUPLE LEADS BETWEEN THE BRACKET AND WHERE THE LEADS EMERGE FROM THE HEADER.
6. ISOLATE THERMOCOUPLE JUNCTION FROM STRUCTURAL GROUND USING ITEM NO. 12, BOND THERMOCOUPLE LEADS IN PLACE USING ITEM NO. 13 WITH THE JUNCTION IN INTIMATE CONTACT WITH ITEM NO. 12.
7. MEGGER ALL THERMOCOUPLE LEADS WITH 500 VDC PER MIL-STD-202, METHOD 302 TO CHASSIS GROUND. RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS.
8. BOND NAMEPLATE PER ND 1002219.
9. MOUNTING TORQUE FOR ITEM NO. 10 TO BE 7.3 TO 8.1 INCH POUNDS.
10. REPLACE PART WITH ITEM NO. 11 AND REFINISH SURFACE PER ND1002289 AS REQUIRED.
11. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
12. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NUMBER, 45.

TABLE I

THERMOCOUPLE DESIGNATION	THERMOCOUPLE LOCATION WITH RESPECT TO NEAREST MODULE	DESIGNATION NO. (REF.)
TC 1	3200 CPS, 1% AMPLIFIER	GG8110T
TC 2	800 CPS, 5% AMPLIFIER	GG8111T
TC 3	800 CPS, 5% AMPLIFIER	GG8112T



5.90
5.30
1.12
TC1 6 SEE NOTE 4 & 6
TC2 7 SEE NOTE 4 & 6
TC3 8 SEE NOTE 4 & 6
A
A
A A
1
1.76
5 2 REQD, SEE NOTES 2 & 9 .150-.190 THRU, .62 C'BORE x .38 DEEP
10 2 REQD
SURFACE A
2
3
4 2 REQD
SEE NOTE 3
1.464
1.474
1.60
.03 MAX.
.03 MAX.
.50
1.75
9 3 REQD SEE NOTES 5 & 12
.25 THRU SEE NOTES 2 & 4
11 SEE NOTE 8 & 10
.18
.04
.12
.50
12 SEE NOTE 6
PARTIAL VIEW A-A TYPICAL 3 PLACES SCALE 4/1
14
.25 ±.03
PARTIAL SECTION A-A

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 2959		27 MAY 66	

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
				1		14	1010490-108	INSULATION SLEEVING ELEC
SEE NOTE 11				AR		13	2021593	ADHESIVE
				AR		12	MIL-I-15126	INSULATION TAPE PRESSURE SENSITIVE, TYPE MFT 2.5
				1		11	1004260-516	NAMEPLATE
SEE NOTE 11				2		10	1001489-24	SCREW, HEX. SOC. HD.
SEE NOTE 11				3		9	1010490-142	INSULATION, SLEEVING
				1		8	2010746-005	THERMOCOUPLE, CONTACT
				1		7	2010746-007	THERMOCOUPLE, CONTACT
				1		6	2010746-006	THERMOCOUPLE, CONTACT
				2		5	1016'5 -006	NUT, SELF LOCKING
				2		4	MS35233-15	SCREW, PAN HEAD
				1		3	2010739	CLAMP
				1		2	2010740	BRACKET
				1		1	6007200-031	POWER AND SERVO ASSY.

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
GENERAL MOTORS CORP. MILWAUKEE WIS.
DRAWN E. Kerling DATE 26 APR 66
CHECKED
APPROVAL J. Petrangi 2 MAY 66
CONTRACT NAS 9 - 497
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

POWER, SERVO & THERMOCOUPLE
ASSEMBLY
(LEM)

SIZE E
CODE IDENT NO. 80230
6010655
SCALE 1/1
SHEET 1 OF 1

6010655

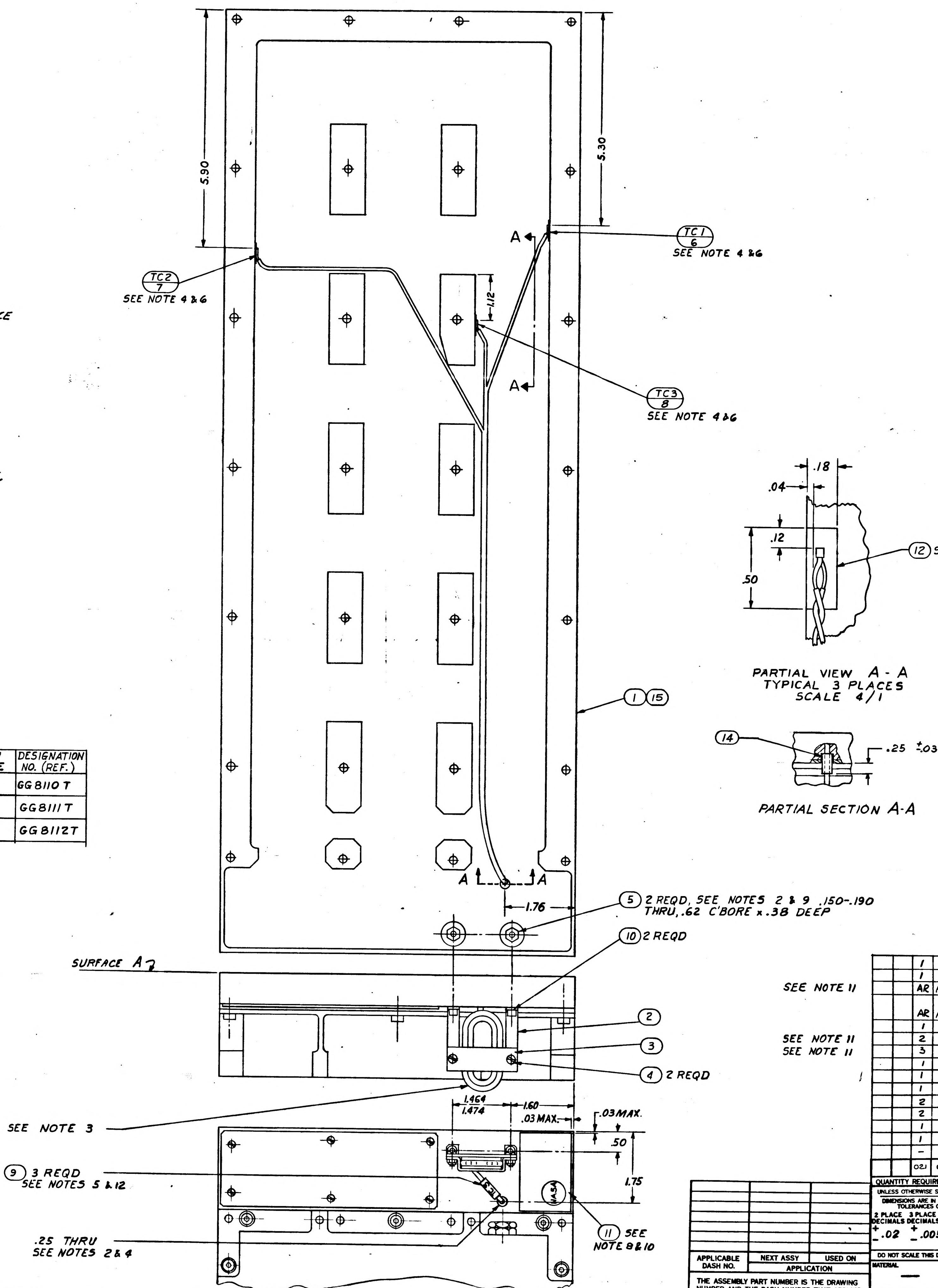
6010655

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MACHINED METALLIC SURFACES TO BE FINISHED PER ND1002040.
3. THERMOCOUPLE LEADS TO BE CUT TO LENGTH OF 15 TO 17 INCHES, MEASURED FROM WHERE THEY EMERGE AT THE HEADER.
4. THERMOCOUPLE LEADS TO BE BELOW SURFACE "A" AND COMPLETELY COVERED AND EMBEDDED IN ENCAPSULANT. FILL WITH ENCAPSULANT FLUSH TO .030 BELOW SURFACE PER ND 1002236.
5. EACH SLEEVE TO BE MARKED WITH ITS RESPECTIVE THERMOCOUPLE TC DESIGNATION NUMBER PER ND-1002019, BLACK CHARACTERS .12 HIGH. SLEEVES TO BE LOCATED ALONG LENGTH OF THERMOCOUPLE LEADS BETWEEN THE BRACKET AND WHERE THE LEADS EMERGE FROM THE HEADER.
6. ISOLATE THERMOCOUPLE JUNCTION FROM STRUCTURAL GROUND USING ITEM NO. 12, BOND THERMOCOUPLE LEADS IN PLACE USING ITEM NO. 13 WITH THE JUNCTION IN INTIMATE CONTACT WITH ITEM NO. 12.
7. MEGGER ALL THERMOCOUPLE LEADS WITH 500 VDC PER MIL-STD-202, METHOD 302 TO CHASSIS GROUND. RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS.
8. BOND NAMEPLATE PER ND 1002219.
9. MOUNTING TORQUE FOR ITEM NO. 10 TO BE 7.3 TO 8.1 INCH POUNDS.
10. REPLACE PART WITH ITEM NO. 11 AND REFINISH SURFACE PER ND1002289 AS REQUIRED.
11. VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
12. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NUMBER, 45.

TABLE I

THERMOCOUPLE DESIGNATION	THERMOCOUPLE LOCATION WITH RESPECT TO NEAREST MODULE	DESIGNATION NO. (REF.)
TC 1	3200 CPS, 1% AMPLIFIER	GG 8110 T
TC 2	800 CPS, 5% AMPLIFIER	GG 8111 T
TC 3	800 CPS, 5% AMPLIFIER	GG 8112 T



5.90
5.30
A
A
TC 1 / 6 SEE NOTE 4 & 6
TC 2 / 7 SEE NOTE 4 & 6
TC 3 / 8 SEE NOTE 4 & 6
1.12
A
A
A A
1.76
1 15
.18
.04
.12
.50
12 SEE NOTE 6
PARTIAL VIEW A - A
TYPICAL 3 PLACES
SCALE 4/1
14
.25 ±.03
PARTIAL SECTION A-A
5 2 REQD, SEE NOTES 2 & 9 .150-.190 THRU, .62 C'BORE x .38 DEEP
10 2 REQD
SURFACE A
2
3
4 2 REQD
SEE NOTE 3
1.464
1.474
1.60
.03 MAX.
.03 MAX.
.50
1.75
9 3 REQD SEE NOTES 5 & 12
11 SEE NOTE 8 & 10
.25 THRU SEE NOTES 2 & 4
NASA

REVISIONS

ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 29599		27 MAY 66	
	B	REVISED PER TDRR 32397		12 JAN 67	REP 6/8

			QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			1	-		15	6007200-061	POWER & SERVO ASSEMBLY
			1	1		14	1010490-108	INSULATION SLEEVING ELEC
SEE NOTE 11			AR	AR		13	2021593	ADHESIVE
			AR	AR		12	MIL-I-15126	INSULATION TAPE PRESSURE SENSITIVE, TYPE MFT 2.5
			1	1		11	1004260-516	NAMEPLATE
SEE NOTE 11			2	2		10	1001489-24	SCREW, HEX. SOC. HD.
SEE NOTE 11			3	3		9	1010490-142	INSULATION, SLEEVING
			1	1		8	2010746-005	THERMOCOUPLE, CONTACT
			1	1		7	2010746-007	THERMOCOUPLE, CONTACT
			1	1		6	2010746-006	THERMOCOUPLE, CONTACT
			2	2		5	1016151-006	NUT, SELF LOCKING
			2	2		4	MS35233-15	SCREW, PAN HEAD
			1	1		3	2010739	CLAMP
			1	1		2	2010740	BRACKET
			-	1		1	6007200-031	POWER AND SERVO ASSY.

LIST OF PARTS AND MATERIALS

APPLICABLE DASH NO.	NEXT ASSY	USED ON
	APPLICATION	

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± .02
3 PLACE DECIMALS ± .005
ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL —
APPROVAL

AC ELECTRONICS DIVISION
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER, SERVO & THERMOCOUPLE ASSEMBLY (LEM)

SIZE E
CODE IDENT NO. 80230
6010655
SCALE 1/1
SHEET 1 OF 1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242					.19	NO		34	BRANCH 6
			P14-24					.13	NO		30	
A 6	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 6A	5		SHLD A6					.20	NO			
			P3-642					.19	NO		33	BRANCH 7
A 6B	5		P14-23					.13	NO		30	
			SHLD A6					.20	NO			
A 6R			P3-442					.19	NO		34	BRANCH 7
			P14-9					.13	NO		30	
A 6Y			P3-542					.19	NO		34	BRANCH 7
			P14-22					.13	NO		30	
A 7	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 7A	6		SHLD A7					.20	NO			
			P3-343					.19	NO		33	BRANCH 7
A 7B	5		P14-29					.13	NO		30	
			SHLD A7					.20	NO			
A 7R			P3-143					.19	NO			BRANCH 7
			P14-13					.13	NO		30	
A 7Y			P3-243					.19	NO			BRANCH 7
			P14-28					.13	NO		30	
A 8	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8					.20	NO			
			P3-643					.19	NO		33	BRANCH 7
A 8B	5		P14-27					.13	NO		30	
			SHLD A8					.20	NO			
A 8R			P3-443					.19	NO			BRANCH 7
			P14-12					.13	NO		30	
A 8Y			P3-543					.19	NO			BRANCH 7
			P14-26					.13	NO		30	
A 9	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 9A	5		SHLD A9					.20	NO			
			P3-344					.19	NO		33	BRANCH 7
A 9B	5		P14-54					.13	NO		30	
			SHLD A9					.20	NO			
A 9R			P3-144					.19	NO		34	BRANCH 7
			P14-31					.13	NO		30	
A 9Y			P3-244					.19	NO		34	BRANCH 7
			P14-53					.13	NO		30	
A 10	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 10A	5		SHLD A10					.20	NO			
			P3-644					.19	NO		33	BRANCH 7
A 10B	5		P14-52					.13	NO		30	
			SHLD A10					.20	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444					.19	NO		34	BRANCH 7
			P14-30					.13	NO		30	
A 10Y			P3-544					.19	NO		34	BRANCH 7
			P14-51					.13	NO		30	
A 11	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 11A	6		SHLD A11					.20	NO			
			P3-345					.19	NO		33	BRANCH 7
A 11B	5		P14-57					.13	NO		30	
			SHLD A11					.20	NO			
A 11R			P3-145					.19	NO			BRANCH 7
			P14-34					.13	NO		30	
A 11Y			P3-245					.19	NO			BRANCH 7
			P14-56					.13	NO		30	
A 12	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 12A	6		SHLD A12					.20	NO			
			P3-645					.19	NO		33	BRANCH 7
A 12B	5		P14-33					.13	NO		30	
			SHLD A12					.20	NO			
A 12R			P3-445					.19	NO			BRANCH 7
			P14-32					.13	NO		30	
A 12Y			P3-545					.19	NO			BRANCH 7
			P14-55					.13	NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 13A	6		SHLD A13					.20	NO			
			P3-346					.19	NO		33	BRANCH 7
A 13B	5		P12-57					.13	NO		30	
			SHLD A13					.20	NO			
A 13R			P3-146					.19	NO			BRANCH 7
			P12-81					.13	NO		30	
A 13Y			P3-246					.19	NO			BRANCH 7
			P12-56					.13	NO		30	
A 14	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 14A	6		SHLD A14					.20	NO			
			P3-646					.19	NO		33	BRANCH 7
A 14B	5		P12-83					.13	NO		30	
			SHLD A14					.20	NO			
A 14R			P3-446					.19	NO			BRANCH 7
			P12-82					.13	NO		30	
A 14Y			P3-546					.19	NO			BRANCH 7
			P12-58					.13	NO		30	
A 15	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 15A	6		SHLD A15					.20	NO			
			P3-347					.19	NO		33	BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211					.19	NO		34	BRANCH 5
			P4-615					.19	NO		34	BRANCH 8
A 42	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 42A	5		SHLD A42					.20	NO			
			P3-410					.19	NO		33	BRANCH 5
A 42B	5		E7					.19	NO			
			SHLD A42					.20	NO			
A 42R			P3-610					.19	NO		34	BRANCH 5
			P4-332					.19	NO		34	BRANCH 9
A 42Y			P3-510					.19	NO		34	BRANCH 5
			P4-432					.19	NO		34	BRANCH 9
A 43	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 43A	5		SHLD A43					.20	NO			
			P3-110					.19	NO		33	BRANCH 5
A 43B	5		E7					.19	NO			
			SHLD A43					.20	NO			
A 43R			P3-310					.19	NO		34	BRANCH 5
			P4-330					.19	NO		34	BRANCH 9
A 43Y			P3-210					.19	NO		34	BRANCH 5
			P4-430					.19	NO		34	BRANCH 9
A 44	16				1.00	.75				68	37	
					1.00	.75				68	37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44					.20	NO			
			P3-409					.19	NO		33	BRANCH 5
A 44B	5		E6					.19	NO			
			SHLD A44					.20	NO			
A 44R			P3-609					.19	NO		34	BRANCH 5
			P4-329					.19	NO		34	BRANCH 9
A 44Y			P3-509					.19	NO		34	BRANCH 5
			P4-429					.19	NO		34	BRANCH 9
A 45	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 45A	5		SHLD A45					.20	NO			
			P3-109					.19	NO		33	BRANCH 5
A 45B	5		E6					.19	NO			
			SHLD A45					.20	NO			
A 45R			P3-309					.19	NO		34	BRANCH 5
			P4-328					.19	NO		34	BRANCH 9
A 45Y			P3-209					.19	NO		34	BRANCH 5
			P4-428					.19	NO		34	BRANCH 9
A 46	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 46A	5		SHLD A46					.20	NO			
			P3-408					.19	NO		33	BRANCH 5
A 46B	5		E7					.19	NO			
			SHLD A46					.20	NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608					.19	NO		34	BRANCH 5
			P4-334					.19	NO		34	BRANCH 9
A 46Y			P3-508					.19	NO		34	BRANCH 5
			P4-434					.19	NO		34	BRANCH 9
A 47	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 47A	5		SHLD A47					.20	NO			
			P3-108					.19	NO		33	BRANCH 5
A 47B	5		E7					.19	NO		70	
			SHLD A47					.20	NO			
A 47R			P3-308					.19	NO		34	BRANCH 5
			P4-333					.19	NO		34	BRANCH 9
A 47Y			P3-208					.19	NO		34	BRANCH 5
			P4-433					.19	NO		34	BRANCH 9
A 48	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 48A	5		SHLD A48					.20	NO			
			P3-407					.19	NO		33	BRANCH 5
A 48B	5		E8					.19	NO			
			SHLD A48					.20	NO			
A 48R			P3-607					.19	NO		34	BRANCH 5
			P4-338					.19	NO		34	BRANCH 9
A 48Y			P3-507					.19	NO		34	BRANCH 5
			P4-438					.19	NO		34	BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 49A	5		SHLD A49					.20	NO			
			P3-107					.19	NO		33	BRANCH 5
A 49B	5		E8					.19	NO			
			SHLD A49					.20	NO			
A 49R			P3-307					.19	NO		34	BRANCH 5
			P4-337					.19	NO		34	BRANCH 9
A 49Y			P3-207					.19	NO		34	BRANCH 5
			P4-437					.19	NO		34	BRANCH 9
A 50	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 50A	5		SHLD A50					.20	NO			
			P3-406					.19	NO		33	BRANCH 5
A 50B	5		E7					.19	NO			
			SHLD A50					.20	NO			
A 50R			P3-606					.19	NO		34	BRANCH 5
			P4-336					.19	NO		34	BRANCH 9
A 50Y			P3-506					.19	NO		34	BRANCH 5
			P4-436					.19	NO		34	BRANCH 9
A 51	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 51A	5		SHLD A51					.20	NO			
			P3-106					.19	NO		33	BRANCH 5

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7 SHLD A51					.19 .20	NO NO			
A 51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 54	16				1.00 1.00	.75 .75				68 68	37 37	
A 54A	5		SHLD A54 P3-405					.20 .19	NO NO		 33	 BRANCH 5
A 54B	5		E10 SHLD A54					.19 .20	NO NO			
A 54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55	16				1.00 1.00	.75 .75				68 68	37 37	
A 55A	5		SHLD A55 P3-105					.20 .19	NO NO		 33	 BRANCH 5

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 31 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10 SHLD A55					.19 .20	NO NO			
A 55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56	16				1.00 1.00	.75 .75				68 68	37 37	
A 56A	5		SHLD A56 P3-404					.20 .19	NO NO		 33	 BRANCH 5
A 56B	5		E10 SHLD A56					.19 .20	NO NO			
A 56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 57	16				1.00 1.00	.75 .75				68 68	37 37	
A 57A	5		SHLD A57 P3-104					.20 .19	NO NO		 33	 BRANCH 5
A 57B	5		E8 SHLD A57					.19 .20	NO NO			
A 57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 32 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58	16				1.00 1.00	.75 .75				68 68	37 37	
A 58A	5		SHLD A58 P3-403					.20 .19	NO NO		 33	 BRANCH 5
A 58B	5		E9 SHLD A58					.19 .20	NO NO			
A 58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59	16				1.00 1.00	.75 .75				68 68	37 37	
A 59A	5		SHLD A59 P3-103					.20 .19	NO NO		 33	 BRANCH 5
A 59B	5		E10 SHLD A59					.19 .20	NO NO			
A 59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 33 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	TERM.JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60 P3-402					.20 .19	NO NO		 33	 BRANCH 5
A 60B	5		E9 SHLD A60					.19 .20	NO NO			
A 60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61	16				1.00 1.00	.75 .75				68 68	37 37	
A 61A	5		SHLD A61 P3-102					.20 .19	NO NO		 33	 BRANCH 5
A 61B	5		E9 SHLD A61					.19 .20	NO NO		70	
A 61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62	16				1.00 1.00	.75 .75				68 68	37 37	
A 62A	5		SHLD A62 P3-401					.20 .19	NO NO		 33	 BRANCH 5
A 62B	5		E9 SHLD A62					.19 .20	NO NO			

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 34 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601					.19	NO		34	BRANCH 5
			P4-150					.19	NO		34	BRANCH 10
A 62Y			P3-501					.19	NO		34	BRANCH 5
			P4-250					.19	NO		34	BRANCH 10
A 63	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 63A	5		SHLD A63					.20	NO			
			P3-101					.19	NO		33	BRANCH 5
A 63B	5		E9					.19	NO			
			SHLD A63					.20	NO			
A 63R			P3-301					.19	NO		34	BRANCH 5
			P4-149					.19	NO		34	BRANCH 10
A 63Y			P3-201					.19	NO		34	BRANCH 5
			P4-249					.19	NO		34	BRANCH 10
A 64	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 64A	6		SHLD A64					.20	NO			
			P3-649					.19	NO		33	BRANCH 7
A 64B	5		P12-40					.13	NO		30	
			SHLD A64					.20	NO			
A 64R			P3-449					.19	NO			BRANCH 7
			P12-64					.13	NO		30	
A 64Y			P3-549					.19	NO			BRANCH 7
			P12-65					.13	NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR ✗A	SHEET 35 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 65A	5		SHLD A65					.20	NO			
			E14					.19	NO			
A 65B	5		P9-26					.13	NO		30	
			SHLD A65					.20	NO			
A 65R			P3-115					.19	NO		34	BRANCH 5
			P9-46					.13	NO		30	
A 65Y			P3-215					.19	NO		34	BRANCH 5
			P9-47					.13	NO		30	
A 66	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 66A	5		SHLD A66					.20	NO			
			E14					.19	NO			
A 66B	5		P9-15					.13	NO		30	
			SHLD A66					.20	NO			
A 66R			P3-315					.19	NO		34	BRANCH 5
			P9-30					.13	NO		30	
A 66Y			P3-415					.19	NO		34	BRANCH 5
			P9-31					.13	NO		30	
A 67	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 67A	5		SHLD A67					.20	NO			
			E14					.19	NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR ✗A	SHEET 36 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14					.13	NO		30	
			SHLD A67					.20	NO			
A 67R			P3-515					.19	NO		34	BRANCH 5
			P9-4					.13	NO		30	
A 67Y			P3-615					.19	NO		34	BRANCH 5
			P9-5					.13	NO		30	
A 68	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 68A	5		SHLD A68					.20	NO			
			E14					.19	NO			
A 68B	5		P9-24					.13	NO		30	
			SHLD A68					.20	NO			
A 68R			P3-116					.19	NO		34	BRANCH 5
			P9-25					.13	NO		30	
A 68Y			P3-216					.19	NO		34	BRANCH 5
			P9-11					.13	NO		30	
A 69	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 69A	5		SHLD A69					.20	NO			
			E14					.19	NO			
A 69B	5		P9-51					.13	NO		30	
			SHLD A69					.20	NO			
A 69R			P3-316					.19	NO		34	BRANCH 5
			P9-29					.13	NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR ✗A	SHEET 37 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416					.19	NO		34	BRANCH 5
			P9-50					.13	NO		30	
A 70	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 70A	5		SHLD A70					.20	NO			
			E14					.19	NO			
A 70B	5		P9-13					.13	NO		30	
			SHLD A70					.20	NO			
A 70R			P3-516					.19	NO		34	BRANCH 6
			P9-27					.13	NO		30	
A 70Y			P3-616					.19	NO		34	BRANCH 6
			P9-28					.13	NO		30	
A 71	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 71A	5		SHLD A71					.20	NO			
			E14					.19	NO		70	
A 71B	5		P9-9					.13	NO		30	
			SHLD A71					.20	NO			
A 71R			P3-117					.19	NO		34	BRANCH 6
			P9-22					.13	NO		30	
A 71Y			P3-217					.19	NO		34	BRANCH 6
			P9-23					.13	NO		30	
A 72	15				1.00	.75				6B	37	
					1.75	1.50				6B	37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR ✗A	SHEET 38 UF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 67 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 68 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	NO NO			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 9
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 69 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	NO NO		76	
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 9
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 9
A 250	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO		 70	
A 250B	5		E19 SHLD A250					.19 .20	NO NO			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 9
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 9
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E,BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 70 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E, BRANCH 10
A 252	9											E, BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E, BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E, BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G, BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G, BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G, BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G, BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G, BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G, BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G, BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G, BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G, BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G, BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G, BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G, BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G, BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G, BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G, BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G, BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G, BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G, BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G, BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G, BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G, BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G, BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G, BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G, BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M, BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M, BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M, BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M, BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M, BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M,BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M,BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M,BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E,BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E,BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E,BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E,BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E,BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E,BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E,BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E,BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A,BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A,BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A,BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A,BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A,BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A,BRANCH 8

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A,BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A,BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B,BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B,BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B,BRANCH 8
A 300	4.		P4-605 P5-41					.19 .13	NO NO		34 29	B,BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B,BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B,BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B,BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B,BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B,BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B,BRANCH 8

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B,BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B,BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B,BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B,BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B,BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B,BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B,BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B,BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B,BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B,BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B,BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B,BRANCH 8

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 443A	5		SHLD A443					.20	NO			
			P1-F23					.19	NO		33	BRANCH 1
A 443B	6		P3-348					.19	NO			BRANCH 7
			SHLD A443					.20	NO			
A 443R			P1-F21					.19	NO		34	BRANCH 1
			P3-148					.19	NO		33	BRANCH 7
A 443Y			P1-F22					.19	NO		34	BRANCH 1
			P3-248					.19	NO		33	BRANCH 7
A 444	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 444A	5		SHLD A444					.20	NO			
			P1-C23					.19	NO		33	BRANCH 1
A 444B	6		P3-648					.19	NO			BRANCH 7
			SHLD A444					.20	NO			
A 444R			P1-C21					.19	NO		34	BRANCH 1
			P3-448					.19	NO		33	BRANCH 7
A 444Y			P1-C22					.19	NO		34	BRANCH 1
			P3-548					.19	NO		33	BRANCH 7
A 445	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 445A	5		SHLD A445					.20	NO			
			P1-B23					.19	NO		33	BRANCH 1

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346					.19	NO			BRANCH 7
			SHLD A445					.20	NO			
A 445R			P1-B21					.19	NO		34	BRANCH 1
			P3-146					.19	NO		33	BRANCH 7
A 445Y			P1-B22					.19	NO		34	BRANCH 1
			P3-246					.19	NO		33	BRANCH 7
A 446	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 446A	5		SHLD A446					.20	NO			
			P1-B17					.19	NO		33	BRANCH 1
A 446B	5		E4					.19	NO		70	
			SHLD A446					.20	NO			
A 446R			P1-B16					.19	NO		34	BRANCH 1
			P4-316					.19	NO		33	BRANCH 8
A 446Y			P1-B15					.19	NO		34	BRANCH 1
			P4-416					.19	NO		33	BRANCH 8
A 448	9											
A 448R			P1-A31					.19	NO		34	BRANCH 2
			P2-A27					.19	NO		34	BRANCH 4
A 448Y			P1-B31					.19	NO		34	BRANCH 2
			P2-B27					.19	NO		34	BRANCH 4
A 449	9											

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31					.19	NO		34	BRANCH 2
			P2-A29					.19	NO		34	BRANCH 4
A 449Y			P1-D31					.19	NO		34	BRANCH 2
			P2-B29					.19	NO		33	BRANCH 4
A 450	9											
A 450R			P1-F31					.19	NO		34	BRANCH 2
			P2-A31					.19	NO		34	BRANCH 4
A 450Y			P1-G31					.19	NO		34	BRANCH 2
			P2-B31					.19	NO		33	BRANCH 4
A 451	2		P6-85					.13	NO		29	
			E18						NO			
A 452	4		P1-G11					.19	NO		34	BRANCH 1
			P6-74					.13	NO		29	
A 453	4		P1-F11					.19	NO		34	BRANCH 1
			P6-75					.13	NO		29	
A 454	4		P1-G9					.19	NO		34	BRANCH 1
			P10-24					.13	NO		30	
A 455	4		P1-C13					.19	NO		34	BRANCH 1
			P10-26					.13	NO		30	
A 456	4		P1-C7					.19	NO		34	BRANCH 1
			P10-33					.13	NO		30	
A 457	4		P1-B7					.19	NO		34	BRANCH 1
			P10-56					.13	NO		30	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7					.19	NO		34	BRANCH 1
			P10-81					.13	NO		30	
A 460	16				1.00	.75				68	37	
					1.75	1.50				6A	37	
A 460A	5		SHLD A460					.20	NO			
			E6					.19	NO			
A 460B	5		E19					.19	NO			
			SHLD A460					.20	NO			
A 460R			P4-129					.19	NO			BRANCH 9
			P6-62					.13	NO		29	
A 460Y			P4-229					.19	NO			BRANCH 9
			P6-38					.13	NO		29	
A 461	16				1.00	.75				68	37	
					1.75	1.50				6A	37	
A 461A	5		SHLD A461					.20	NO			
			E6					.19	NO			
A 461B	5		E19					.19	NO		76	
			SHLD A461					.20	NO			
A 461R			P4-128					.19	NO			BRANCH 9
			P6-64					.13	NO		29	
A 461Y			P4-228					.19	NO			BRANCH 9
			P6-39					.13	NO		29	
A 462	16				1.00	.75				7	38	
					1.00	.75				68	37	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J,BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J,BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J,BRANCH 10
A 486	4		P4-644 P6-9					.18 .13	NO NO		34 29	J,BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J,BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J,BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J,BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J,BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C,BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C,BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C,BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J,BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J,BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J,BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J,BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F,BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F,BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F,BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F,BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F,BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F,BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F,BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F,BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F,BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F,BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F,BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J,BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J,BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J,BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J,BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J,BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J,BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J,BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J,BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J,BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J,BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J,BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J,BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J,BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J,BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J,BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D,BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D,BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D,BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J,BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J,BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J,BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J,BRANCH 10

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555					.18	NO		34	J.BRANCH 10
			P6-49					.13	NO		29	
A 532	4		P4-556					.18	NO		34	J.BRANCH 10
			P6-28					.13	NO		29	
A 533	4		P4-602					.18	NO		34	J.BRANCH 10
			P6-22					.13	NO		29	
A 534	4		P4-101					.18	NO		34	J.BRANCH 10
			P6-41					.13	NO		29	
A 535	4		P4-113					.18	NO		34	C.BRANCH 8
			P9-32					.13	NO		29	
A 536	4		P4-112					.18	NO		34	C.BRANCH 8
			P9-16					.13	NO		30	
A 537	14				1.00	.75				68	37	
					1.75	1.50				68	37	
A 537A	5		SHLD A537					.20	NO			
			E43					.30	NO			LARGE END.
A 537B	5		P14-69					.19	NO		30	
			SHLD A537					.20	NO			
A 537Y			P2-G18					.18	NO		33	BRANCH 4
			P14-25					.13	NO		30	
A 539	4		P4-538					.18	NO		34	
			P4-637					.18	NO		34	
A 540	4		P4-613					.18	NO		34	D.BRANCH 9
			P7-66					.13	NO		29	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513					.18	NO		34	D.BRANCH 9
			P7-67					.13	NO		29	
A 551	17		E17						NO		80	A
			E35						NO		80	
A 552	17		E17						NO		76, 80	B
			E35						NO		80	
A 553	17		E35						NO		80	C
			E38						NO		80	
A 554	17		E20						NO		80	D
			E37						NO		80	
A 555	17		E20						NO		76, 80	E
			E34						NO		80	
A 556	17		E37						NO		80	F
			E39						NO		80	
A 557	17		E36						NO		80	G
			E39						NO		76, 80	
A 558	17		E35						NO		70, 80	H
			E38						NO		76, 80	
A 559	17		E19						NO		80	J
			E34						NO		70, 80	
A 560	17		E22						NO		76, 80	M
			E36						NO		80	
A 561	17		E34						NO		70, 80	N
			E42						NO		76, 80	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 562	17		E16						NO		80	O
			E37						NO		80	
A 563	17		E43						NO		80	LARGE END.P
			E37						NO		80	
A 564	17		P1-F19					.18	NO		80, 33	Q
			E34						NO		70, 80	
A 565	2		P8-D					.22	NO			
			P8-F					.22	NO			
A 566	2		P8-D					.22	NO		32	
			P8-F					.22	NO			
A 567	2		P8-E					.22	NO			
			P8-F					.22	NO			
A 568	2		P8-E					.22	NO		32	
			P8-F					.22	NO		32	
A 569	2		P8-H					.22	NO			
			P8-M					.22	NO			
A 570	2		P8-H					.22	NO		32	
			P8-M					.22	NO			
A 571	2		P8-J					.22	NO			
			P8-M					.22	NO			
A 572	2		P8-J					.22	NO		32	
			P8-M					.22	NO		32	
A 573	4		P4-628					.18	NO		34	J. BRANCH 10
			P6-83					.13	NO		29	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 574	4		P4-528					.18	NO		34	J. BRANCH 10
			P6-59					.13	NO		29	
A 575	4		P4-626					.18	NO		34	J. BRANCH 10
			P6-36					.13	NO		29	
A 576	4		P4-526					.18	NO		34	J. BRANCH 10
			P6-35					.13	NO		29	
A 577	4		P4-519					.18	NO		34	J. BRANCH 10
			P6-34					.13	NO		29	
A 578	2		E43					.30	NO		91, 92	SMALL END.
			P2-D9					.18	NO		33	
A 579	4		P4-627					.18	NO		34	J. BRANCH 10
			P6-57					.13	NO		29	
A 580	4		P4-527					.18	NO		34	J. BRANCH 10
			P6-33					.13	NO		29	

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APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
6014515	6014515	A	INITIAL RELEASE CLASS A PER TDRR 31139	7 Jun '66	
		B	REVISED PER TDRR 31207	4 OCT. 66	SPW

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS OF SHEETS	REV					B	B	A	B	A	B	A	A	A	B	B	B	A	A	A	A	A	A	A
	SHEET					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAFTSMAN Koehn 29 JUN 66 (DAY MO YR)
CHECKER Diehl 1 JUL '66
ENGINEER D. [illegible] 5 JUL 66
APPROVAL [illegible]
CONTR NO. NAS 9-497
NASA APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS A
(LEM)

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REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	A	80	A														
47	A	81	A														
48	A	82	A														
49	A	83	A														
50	A	84	A														
51	A	85	A														
52	A	86	A														
53	A	87	A														
54	A	88	A														
55	A	89	A														
56	A	90	A														
57	A	91	A														
58	A	92	A														
59	A	93	A														
60	A	94	A														
61	A	95	A														
62	A	96	A														
63	A	97	B														
64	A	98	A														
65	A	99	A														
66	A	100	A														
67	A	101	A														
68	A	102	A														
69	A	103	A														
70	A	104	A														
71	A	105	A														
72	A	106	A														
73	A	107	B														
74	A																
75	A																
76	A																
77	A																
78	A																
79	A																

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NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6014504.

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
   A- FROM END OF SHIELD
   B- TO END OF SHIELD
   G- GREEN
   K- BLACK
   L- BLUE
   N- BROWN
   R- RED
   W- WHITE
   Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 3 OF 107

NOTE NUMBER — GENERAL NOTES DESCRIPTION

10 CRIMP CONTACTS PER ND1002032.

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
   CONNECTOR 56P8, USE ITEM NUMBER 36
   CONNECTOR 56P11, USE ITEM NUMBER 62
   CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

12 LACE HARNESS PER ND1002032 USING ITEM 44.

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019, CENTRALIZE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR B	SHEET 4 OF 107

NOTE NUMBER — GENERAL NOTES DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
   1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
   2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING - THREAD ONE CONTINUOUS LENGTH OF GROUND WIRE, ITEM 17, THROUGH CENTER OF EMI/RFI SHIELDING TAPE, ITEM 62. ALLOW 6 INCHES OF GROUND WIRE TO EXTEND BEYOND ENDS OF SHIELDING TAPE. WRAP CABLE WITH ONE CONTINUOUS LENGTH OF PREPARED SHIELDING. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH ONE CONTINUOUS WRAP OF INSULATION TAPE, ITEM 45. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

27 ASSEMBLE INSULATION TUBING ITEM 80, OVER GROUND WIRE AS REQUIRED TO REACH TERMINATION. ASSEMBLE SHRINK SLEEVING AS SHOWN.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 5 OF 107

NOTE NUMBER — GENERAL NOTES DESCRIPTION

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR B	SHEET 6 OF 107

LIMA 101266 HARNESS A 6010659 B

SEE NOTE

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE
	70	17	MS25036-52	TERMINAL LUG
	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
	78	9	1006783- 93	SCREW, BUTTON HD
	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	80	AR	1006776- 19	SLEEVE, INSULATION, 10 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
	91	1	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
	92	1	1010945- 1	SPLICE-REDUCER.
	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	B	SHEET 11 OF 107

MIL 2084 9-65

LIMA 1C1266 HARNESS A 6010659 B

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX,
9	97	AR	1008822	COLORANT, EPOXY BASE
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	B	SHEET 12 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	16			1.00 1.75	.75 1.50				68 68	37 37	
A	1A	5	SHLD A1 P3-340					.20 .19	NO NO		33	BRANCH 6
A	1B	5	P14-6 SHLD A1					.13 .20	NO NO		30	
A	1R		P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A	1Y		P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A	2	16			1.00 1.75	.75 1.50				68 68	37 37	
A	2A	5	SHLD A2 P3-640					.20 .19	NO NO		33	BRANCH 6
A	2B	5	P14-15 SHLD A2					.13 .20	NO NO		30	
A	2R		P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A	2Y		P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A	3	16			1.00 1.75	.75 1.50				68 68	37 37	
A	3A	6	SHLD A3 P3-341					.20 .19	NO NO		33	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	A	SHEET 13 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3B	5	P14-21 SHLD A3					.13 .20	NO NO		30	
A	3R		P3-141 P14-8					.19 .13	NO NO		30	BRANCH 6
A	3Y		P3-241 P14-20					.19 .13	NO NO		30	BRANCH 6
A	4	16			1.00 1.75	.75 1.50				68 68	37 37	
A	4A	6	SHLD A4 P3-641					.20 .19	NO NO		33	BRANCH 7
A	4B	5	P14-19 SHLD A4					.13 .20	NO NO		30	
A	4R		P3-441 P14-7					.19 .13	NO NO		30	BRANCH 7
A	4Y		P3-541 P14-18					.19 .13	NO NO		30	BRANCH 7
A	5	16			1.00 1.75	.75 1.50				68 68	37 37	
A	5A	5	SHLD A5 P3-342					.20 .19	NO NO		33	BRANCH 6
A	5B	5	P14-11 SHLD A5					.13 .20	NO NO		30	
A	5R		P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	A	SHEET 14 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A 6	16				1.00 1.75	.75 1.50				68 68	37 37	
A 6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A 6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A 6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A 6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A 7	16				1.00 1.75	.75 1.50				68 68	37 37	
A 7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A 7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A 7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A 7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A 8	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 15 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A 8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A 8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A 8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A 9	16				1.00 1.75	.75 1.50				68 68	37 37	
A 9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A 9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A 9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A 9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A 10	16				1.00 1.75	.75 1.50				68 68	37 37	
A 10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A 10B	5		P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 16 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A 10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A 11	16				1.00 1.75	.75 1.50				68 68	37 37	
A 11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A 11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A 11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A 11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A 12	16				1.00 1.75	.75 1.50				68 68	37 37	
A 12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A 12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A 12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A 12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 17 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00 1.75	.75 1.50				68 68	37 37	
A 13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A 13R			P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A 13Y			P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A 14	16				1.00 1.75	.75 1.50				68 68	37 37	
A 14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A 14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A 14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A 14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A 15	16				1.00 1.75	.75 1.50				68 68	37 37	
A 15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 18 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211 P4-615					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8
A 42	16				1.00 1.00	.75 .75				68 68	37 37	
A 42A	5		SHLD A42 P3-410					.20 .19	NO NO		33	BRANCH 5
A 42B	5		E7 SHLD A42					.19 .20	NO NO			
A 42R			P3-610 P4-332					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 42Y			P3-510 P4-432					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43	16				1.00 1.00	.75 .75				68 68	37 37	
A 43A	5		SHLD A43 P3-110					.20 .19	NO NO		33	BRANCH 5
A 43B	5		E7 SHLD A43					.19 .20	NO NO			
A 43R			P3-310 P4-330					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43Y			P3-210 P4-430					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 27 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44 P3-409					.20 .19	NO NO		33	BRANCH 5
A 44B	5		E6 SHLD A44					.19 .20	NO NO			
A 44R			P3-609 P4-329					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44Y			P3-509 P4-429					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45	16				1.00 1.00	.75 .75				68 68	37 37	
A 45A	5		SHLD A45 P3-109					.20 .19	NO NO		33	BRANCH 5
A 45B	5		E6 SHLD A45					.19 .20	NO NO			
A 45R			P3-309 P4-328					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45Y			P3-209 P4-428					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46	16				1.00 1.00	.75 .75				68 68	37 37	
A 46A	5		SHLD A46 P3-408					.20 .19	NO NO		33	BRANCH 5
A 46B	5		E7 SHLD A46					.19 .20	NO NO			

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 28 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608 P4-334					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46Y			P3-508 P4-434					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47	16				1.00 1.00	.75 .75				68 68	37 37	
A 47A	5		SHLD A47 P3-108					.20 .19	NO NO		33	BRANCH 5
A 47B	5		E7 SHLD A47					.19 .20	NO NO		70	
A 47R			P3-308 P4-333					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47Y			P3-208 P4-433					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48	16				1.00 1.00	.75 .75				68 68	37 37	
A 48A	5		SHLD A48 P3-407					.20 .19	NO NO		33	BRANCH 5
A 48B	5		E8 SHLD A48					.19 .20	NO NO			
A 48R			P3-607 P4-338					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48Y			P3-507 P4-438					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 29 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00 1.00	.75 .75				68 68	37 37	
A 49A	5		SHLD A49 P3-107					.20 .19	NO NO		33	BRANCH 5
A 49B	5		E8 SHLD A49					.19 .20	NO NO			
A 49R			P3-307 P4-337					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 49Y			P3-207 P4-437					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50	16				1.00 1.00	.75 .75				68 68	37 37	
A 50A	5		SHLD A50 P3-406					.20 .19	NO NO		33	BRANCH 5
A 50B	5		E7 SHLD A50					.19 .20	NO NO			
A 50R			P3-606 P4-336					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50Y			P3-506 P4-436					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51	16				1.00 1.00	.75 .75				68 68	37 37	
A 51A	5		SHLD A51 P3-106					.20 .19	NO NO		33	BRANCH 5

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 30 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7 SHLD A51					.19 .20	NO NO			
A 51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O. BRANCH 5 BRANCH 8
A 53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O. BRANCH 5 BRANCH 8
A 54	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 54A	5		SHLD A54 P3-405					.20 .19	NO NO		 33	 BRANCH 5
A 54B	5		E10 SHLD A54					.19 .20	NO NO			
A 54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55	16				1.00 1.00	.75 .75				68 68	37 37	
A 55A	5		SHLD A55 P3-105					.20 .19	NO NO		 33	 BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 31 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10 SHLD A55					.19 .20	NO NO			
A 55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56	16				1.00 1.00	.75 .75				68 68	37 37	
A 56A	5		SHLD A56 P3-404					.20 .19	NO NO		 33	 BRANCH 5
A 56B	5		E10 SHLD A56					.19 .20	NO NO			
A 56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 57	16				1.00 1.00	.75 .75				6B 68	37 37	
A 57A	5		SHLD A57 P3-104					.20 .19	NO NO		 33	 BRANCH 5
A 57B	5		E8 SHLD A57					.19 .20	NO NO			
A 57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 32 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 58A	5		SHLD A58 P3-403					.20 .19	NO NO		 33	 BRANCH 5
A 58B	5		E9 SHLD A58					.19 .20	NO NO			
A 58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59	16				1.00 1.00	.75 .75				6B 68	37 37	
A 59A	5		SHLD A59 P3-103					.20 .19	NO NO		 33	 BRANCH 5
A 59B	5		E10 SHLD A59					.19 .20	NO NO			
A 59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 33 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60 P3-402					.20 .19	NO NO		 33	 BRANCH 5
A 60B	5		E9 SHLD A60					.19 .20	NO NO			
A 60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 61A	5		SHLD A61 P3-102					.20 .19	NO NO		 33	 BRANCH 5
A 61B	5		E9 SHLD A61					.19 .20	NO NO		70	
A 61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62	16				1.00 1.00	.75 .75				68 68	37 37	
A 62A	5		SHLD A62 P3-401					.20 .19	NO NO		 33	 BRANCH 5
A 62B	5		E9 SHLD A62					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 34 OF 107

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	72A	5		SHLD A72 E12					.20 .19	NO NO			
A	72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A	72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A	72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A	73	16				1.00 1.75	.75 1.50				68 68	37 37	
A	73A	5		SHLD A73 E11					.20 .19	NO NO			
A	73B	5		P13-9 SHLD A73					.13 .20	NO NO		30	
A	73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A	73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A	74	16				1.00 1.75	.75 1.50				68 68	37 37	
A	74A	5		SHLD A74 E11					.20 .19	NO NO			
A	74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 39 OF 107

MIL 2084 9-65

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A	74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A	75	16				1.00 1.75	.75 1.50				68 68	37 37	
A	75A	5		SHLD A75 E11					.20 .19	NO NO			
A	75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A	75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A	75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A	76	16				1.00 1.75	.75 1.50				68 68	37 37	
A	76A	5		SHLD A76 E11					.20 .19	NO NO			
A	76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A	76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A	76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 40 OF 107

MIL 2084 9-65

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	77	16				1.00 1.75	.75 1.50				68 68	37 37	
A	77A	5		SHLD A77 E11					.20 .19	NO NO			
A	77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A	77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A	77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A	78	16				1.00 1.75	.75 1.50				68 68	37 37	
A	78A	5		SHLD A78 E11					.20 .19	NO NO		 70	
A	78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A	78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A	78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A	79	16				1.00 1.75	.75 1.50				68 68	37 37	
A	79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 41 OF 107

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A	79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A	79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A	80	9											
A	80R			P1-A17 P13-61					.19 .13	NO NO		34 30	BRANCH 1
A	80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A	81	9											
A	81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A	81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A	82	9											
A	82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A	82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 42 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				68 68	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				68 68	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 43 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				68 68	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 44 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				68 68	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				68 68	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 45 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				68 68	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				68 68	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 46 OF 107

MIL 2084 9-65

HARNESS A

6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A94 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A94					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				68 68	37 37	
A 95A	5		SHLD A95 E13					.20 .19	NO NO		70	
A 95B	5		P13-54 SHLD A95					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				68 68	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO		70	
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 47 OF 107

MIL 2084 9-65

HARNESS A

6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				68 68	37 37	
A 97A	5		SHLD A97 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A97					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P,BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 48 OF 107

MIL 2084 9-65

HARNESS A

6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 49 OF 107

MIL 2084 9-65

HARNESS A

6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 50 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 1C8Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 1C9R			P2-A14 P11-S					.19 .19	NO NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 51 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 52 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 4
A 128	8											

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 53 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		33	BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		33	BRANCH 3
A 134	16				1.00 1.00	.75 .75				68 68	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		33	BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 135	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 54 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-102					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-8					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 63 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q. BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q. BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q. BRANCH 1 BRANCH 10
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q. BRANCH 1 BRANCH 10
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 64 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 65 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 66 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E,BRANCH 10
A 252	9											E,BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E,BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E,BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G,BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G,BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G,BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G,BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G,BRANCH 9

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SCALE-NONE | REV LTR A | SHEET 71 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G,BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G,BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G,BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G,BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G,BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G,BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G,BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 72 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G,BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G,BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G,BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G,BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G,BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G,BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G,BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 73 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G,BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G,BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G,BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M,BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M,BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M,BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M,BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M,BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 74 OF 107

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M,BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M,BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M,BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E,BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E,BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E,BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E,BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E,BRANCH 10

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CODE IDENT NO. 80230
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SCALE-NONE
REV LTR A
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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E,BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E,BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E,BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A,BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A,BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A,BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A,BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A,BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A,BRANCH 8

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 76 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A,BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A,BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B,BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B,BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B,BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B,BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B,BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B,BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B,BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B,BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B,BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B,BRANCH 8

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 77 OF 107

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B,BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B,BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B,BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B,BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B,BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B,BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B,BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B,BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B,BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B,BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B,BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B,BRANCH 8

SIZE A
CODE IDENT NO. 80230
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SCALE-NONE
REV LTR A
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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H,BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H,BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H,BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H,BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H,BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H,BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H,BRANCH 8
A 414	4		P4-611 P9-58					.19 .13	NO NO		34 29	H,BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H,BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 87 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 88 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 89 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-79					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				68 68	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		 33	 BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 90 OF 107

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 443A	5		SHLD A443 P1-F23					.20 .19	NO NO		 33	 BRANCH 1
A 443B	6		P3-348 SHLD A443					.19 .20	NO NO			BRANCH 7
A 443R			P1-F21 P3-148					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 443Y			P1-F22 P3-248					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 444A	5		SHLD A444 P1-C23					.20 .19	NO NO		 33	 BRANCH 1
A 444B	6		P3-648 SHLD A444					.19 .20	NO NO			BRANCH 7
A 444R			P1-C21 P3-448					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444Y			P1-C22 P3-548					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 445A	5		SHLD A445 P1-B23					.20 .19	NO NO		 33	 BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 91 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346 SHLD A445					.19 .20	NO NO			BRANCH 7
A 445R			P1-B21 P3-146					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445Y			P1-B22 P3-246					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 446	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 446A	5		SHLD A446 P1-B17					.20 .19	NO NO		 33	 BRANCH 1
A 446B	5		E4 SHLD A446					.19 .20	NO NO		70	
A 446R			P1-B16 P4-316					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 446Y			P1-B15 P4-416					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 448	9											
A 448R			P1-A31 P2-A27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 448Y			P1-B31 P2-B27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449	9											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 92 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31 P2-A29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449Y			P1-D31 P2-B29					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 4
A 450	9											
A 450R			P1-F31 P2-A31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450Y			P1-G31 P2-B31					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 4
A 451	2		P6-85 E18					.13	NO NO		29	
A 452	4		P1-G11 P6-74					.19 .13	NO NO		34 29	BRANCH 1
A 453	4		P1-F11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 454	4		P1-G9 P10-24					.19 .13	NO NO		34 30	BRANCH 1
A 455	4		P1-C13 P10-26					.19 .13	NO NO		34 30	BRANCH 1
A 456	4		P1-C7 P10-33					.19 .13	NO NO		34 30	BRANCH 1
A 457	4		P1-B7 P10-56					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 93 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7 P10-81					.19 .13	NO NO		34 30	BRANCH 1
A 460	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 460A	5		SHLD A460 E6					.20 .19	NO NO			
A 460B	5		E19 SHLD A460					.19 .20	NO NO			
A 460R			P4-129 P6-62					.19 .13	NO NO		 29	BRANCH 9
A 460Y			P4-229 P6-38					.19 .13	NO NO		 29	BRANCH 9
A 461	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 461A	5		SHLD A461 E6					.20 .19	NO NO			
A 461B	5		E19 SHLD A461					.19 .20	NO NO		76	
A 461R			P4-128 P6-64					.19 .13	NO NO		 29	BRANCH 9
A 461Y			P4-228 P6-39					.19 .13	NO NO		 29	BRANCH 9
A 462	16				1.00 1.00	.75 .75				7 6B	38 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 94 OF 107

HARNESS A ▼ 6010659 ✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6					.19	NO			
			SHLD A462					.20	NO			
A 462R			P1-D35					.19	NO		34	BRANCH 2
			P4-129					.19	NO		33	BRANCH 9
A 462Y			P1-F35					.19	NO		34	BRANCH 2
			P4-229					.19	NO		33	BRANCH 9
A 463	16				1.00	.75				7	38	
					1.00	.75				6B	37	
A 463B	5		E6					.19	NO		70	
			SHLD A463					.20	NO			
A 463R			P1-D36					.19	NO		34	BRANCH 2
			P4-128					.19	NO		33	BRANCH 9
A 463Y			P1-F36					.19	NO		34	BRANCH 2
			P4-228					.19	NO		33	BRANCH 9
A 464	16				1.00	.75				6B	37	
					1.75	1.50				6A	37	
A 464A	5		SHLD A464					.20	NO			
			E8					.19	NO		70	
A 464B	5		E21					.19	NO			
			SHLD A464					.20	NO			
A 464R			P4-351					.19	NO		34	BRANCH 10
			P9-21					.13	NO		30	
A 464Y			P4-451					.19	NO		34	BRANCH 10
			P9-40					.13	NO		30	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 95 OF 107

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HARNESS A ▼ 6010659 ✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00	.75				6B	37	
					1.75	1.50				6A	37	
A 466A	5		SHLD A466					.20	NO			
			E4					.19	NO			
A 466B	5		E22					.19	NO			
			SHLD A466					.20	NO			
A 466R			P4-516					.19	NO		34	BRANCH 8
			P10-77					.13	NO		30	
A 466Y			P4-616					.19	NO		34	BRANCH 8
			P10-76					.13	NO		30	
A 467	10											N
A 467G			P4-561					.19	NO		33	N,BRANCH 10
			P8-E					.19	NO			
A 467R			P4-559					.19	NO		33	N,BRANCH 10
			P8-E					.19	NO			
A 467Y			P4-560					.19	NO		33	N,BRANCH 10
			P8-G					.19	NO			
A 468	10											N
A 468G			P4-661					.19	NO		33	N,BRANCH 10
			P8-E					.19	NO			
A 468R			P4-659					.19	NO		33	N,BRANCH 10
			P8-E					.19	NO			

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 96 OF 107

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LIMA 101266 HARNESS A ▼ 6010659 B

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660					.19	NO		33	N,BRANCH 10
			P8-G					.19	NO		32	
A 469	4		P2-B8					.19	NO		34	BRANCH 3
			P14-50					.13	NO		30	
A 471	2		P2-K4					.19	NO		33	BRANCH 3
			P8-F					.19	NO			
A 472	9											
A 472R			P2-C8					.19	NO		34	BRANCH 3
			P5-14					.13	NO		29	
A 472Y			P2-D8					.19	NO		34	BRANCH 3
			P5-32					.13	NO		29	
A 474	4		P2-A8					.19	NO		34	BRANCH 3
			P8-L					.19	NO		32	
A 475	2		P5-13					.13	NO		29	B
											93	
A 476	2		P5-74					.13	NO		29	B
											93	
A 477	15				1.00	.75				6B	37	
					1.75	1.50				6A	37	
A 477A	5		SHLD A477					.20	NO			
			E43					.30	NO			LARGE END
A 477B	5		E20					.19	NO			
			SHLD A477					.20	NO			

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR B		SHEET 97 OF 107

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HARNESS A ▼ 6010659 ✓

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16					.18	NO		33	BRANCH 3
			P7-61					.13	NO		29	
A 477Y			P2-G16					.18	NO		33	BRANCH 3
			P7-62					.13	NO		29	
A 478	18				1.00	.75				6B	37	
					1.75	1.50				6A	37	
A 478A	5		SHLD A478					.20	NO			
			E9					.19	NO			
A 478B	5		E21					.19	NO		76	
			SHLD A478					.20	NO			
A 478G			P4-656					.18	NO		33	BRANCH 10
			P9-3					.13	NO		30	
A 478R			P4-532					.18	NO		33	BRANCH 10
			P9-2					.13	NO		30	
A 478Y			P4-632					.18	NO		33	BRANCH 10
			P9-1					.13	NO		30	
A 479	4		P4-542					.18	NO		34	J,BRANCH 10
			P6-45					.13	NO		29	
A 480	4		P4-646					.18	NO		34	J,BRANCH 10
			P6-46					.13	NO		29	
A 481	4		P4-546					.18	NO		34	J,BRANCH 10
			P6-70					.13	NO		29	
A 482	4		P4-539					.18	NO		34	J,BRANCH 10
			P6-7					.13	NO		29	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A		SHEET 98 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J.BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J.BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J.BRANCH 10
A 486	4		P4-644 P6-9					.18 .13	NO NO		34 29	J.BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J.BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J.BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J.BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J.BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C.BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C.BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C.BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J.BRANCH 10

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CODE IDENT NO. 80230
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SCALE-NONE
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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J.BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J.BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J.BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F.BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F.BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F.BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F.BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F.BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F.BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F.BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F.BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F.BRANCH 9

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F.BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F.BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J.BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J.BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J.BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J.BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J.BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J.BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J.BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J.BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J.BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J.BRANCH 10

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CODE IDENT NO. 80230
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SCALE-NONE
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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J.BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J.BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J.BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J.BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J.BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D.BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D.BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D.BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J.BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J.BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J.BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J.BRANCH 10

SIZE A
CODE IDENT NO. 80230
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SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555					.18	NO		34	J.BRANCH 10
			P6-49					.13	NO		29	
A 532	4		P4-556					.18	NO		34	J.BRANCH 10
			P6-28					.13	NO		29	
A 533	4		P4-602					.18	NO		34	J.BRANCH 10
			P6-22					.13	NO		29	
A 534	4		P4-101					.18	NO		34	J.BRANCH 10
			P6-41					.13	NO		29	
A 535	4		P4-113					.18	NO		34	C.BRANCH 8
			P9-32					.13	NO		29	
A 536	4		P4-112					.18	NO		34	C.BRANCH 8
			P9-16					.13	NO		30	
A 537	14				1.00	.75				68	37	
					1.75	1.50				68	37	
A 537A	5		SHLD A537					.20	NO			
			E43					.30	NO			LARGE END.
A 537B	5		P14-69					.19	NO		30	
			SHLD A537					.20	NO			
A 537Y			P2-G18					.18	NO		33	BRANCH 4
			P14-25					.13	NO		30	
A 539	4		P4-538					.18	NO		34	
			P4-637					.18	NO		34	
A 540	4		P4-613					.18	NO		34	D.BRANCH 9
			P7-66					.13	NO		29	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 103 OF 107

MIL 2084 9 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513					.18	NO		34	D.BRANCH 9
			P7-67					.13	NO		29	
A 551	17		E17						NO		80	A
			E35						NO		80	
A 552	17		E17						NO		76, 80	B
			E35						NO		80	
A 553	17		E35						NO		80	C
			E38						NO		80	
A 554	17		E20						NO		80	D
			E37						NO		80	
A 555	17		E20						NO		76, 80	E
			E34						NO		80	
A 556	17		E37						NO		80	F
			E39						NO		80	
A 557	17		E36						NO		80	G
			E39						NO		76, 80	
A 558	17		E35						NO		70, 80	H
			E38						NO		76, 80	
A 559	17		E19						NO		80	J
			E34						NO		70, 80	
A 560	17		E22						NO		76, 80	M
			E36						NO		80	
A 561	17		E34						NO		70, 80	N
			E42						NO		76, 80	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 104 OF 107

MIL 2084 9 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 562	17		E16						NO		80	O
			E37						NO		80	
A 563	17		E43						NO		80	LARGE END.P
			E37						NO		80	
A 564	17		P1-F19					.18	NO		80, 33	Q
			E34						NO		70, 80	
A 565	2		P8-D					.22	NO			
			P8-F					.22	NO			
A 566	2		P8-D					.22	NO		32	
			P8-F					.22	NO			
A 567	2		P8-E					.22	NO			
			P8-F					.22	NO			
A 568	2		P8-E					.22	NO		32	
			P8-F					.22	NO		32	
A 569	2		P8-H					.22	NO			
			P8-M					.22	NO			
A 570	2		P8-H					.22	NO		32	
			P8-M					.22	NO			
A 571	2		P8-J					.22	NO			
			P8-M					.22	NO			
A 572	2		P8-J					.22	NO		32	
			P8-M					.22	NO		32	
A 573	4		P4-628					.18	NO		34	J. BRANCH 10
			P6-83					.13	NO		29	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 105 OF 107

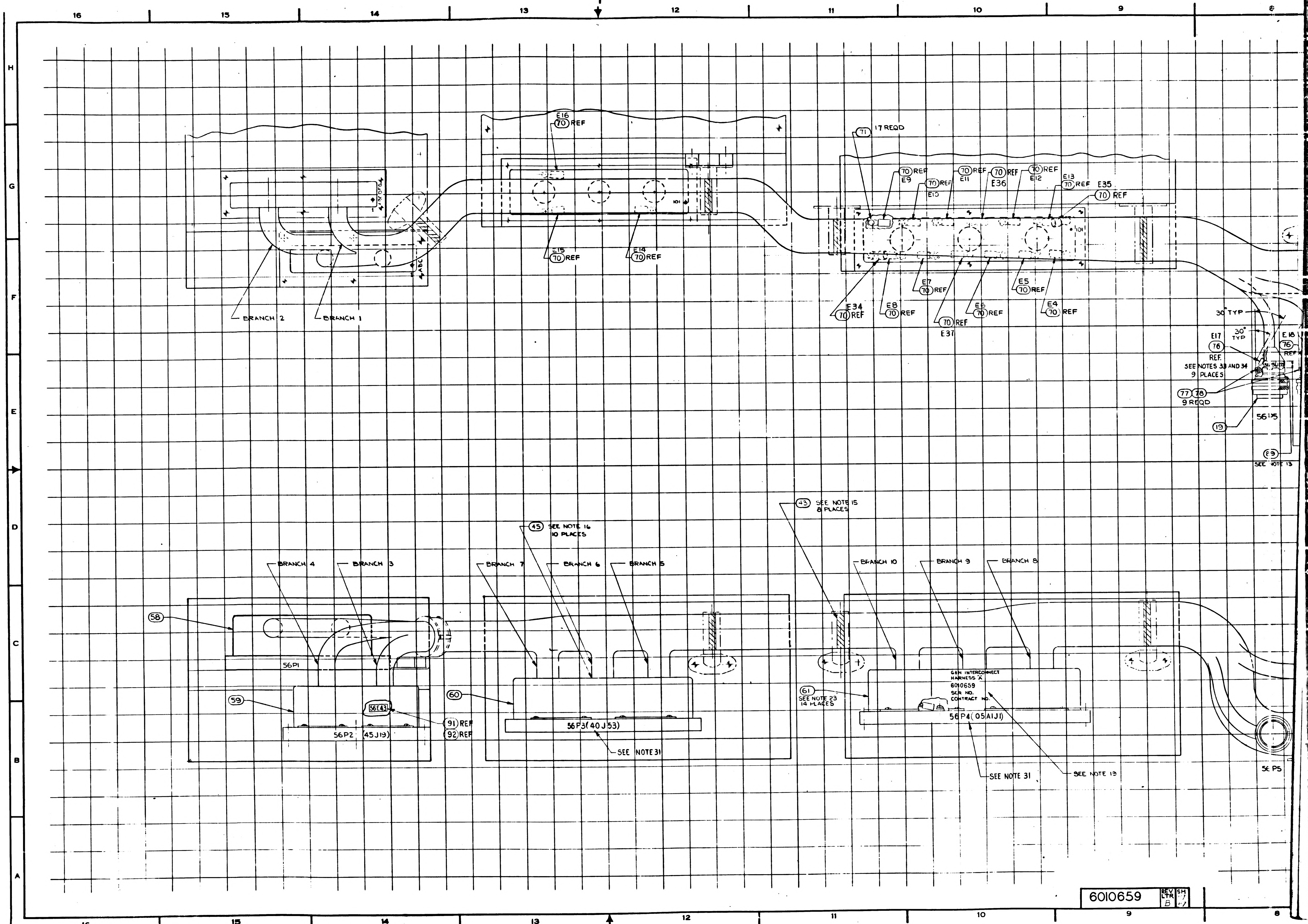
MIL 2084 9 65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 574	4		P4-528					.18	NO		34	J. BRANCH 10
			P6-59					.13	NO		29	
A 575	4		P4-626					.18	NO		34	J. BRANCH 10
			P6-36					.13	NO		29	
A 576	4		P4-526					.18	NO		34	J. BRANCH 10
			P6-35					.13	NO		29	
A 577	4		P4-519					.18	NO		34	J. BRANCH 10
			P6-34					.13	NO		29	
A 578	2		E43					.30	NO		91, 92	SMALL END.
			P2-D9					.18	NO		33	
A 579	4		P4-627					.18	NO		34	J. BRANCH 10
			P6-57					.13	NO		29	
A 580	4		P4-527					.18	NO		34	J. BRANCH 10
			P6-33					.13	NO		29	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 106 OF 107

MIL 2084 9 65


6010659
16
15
14
13
12
11
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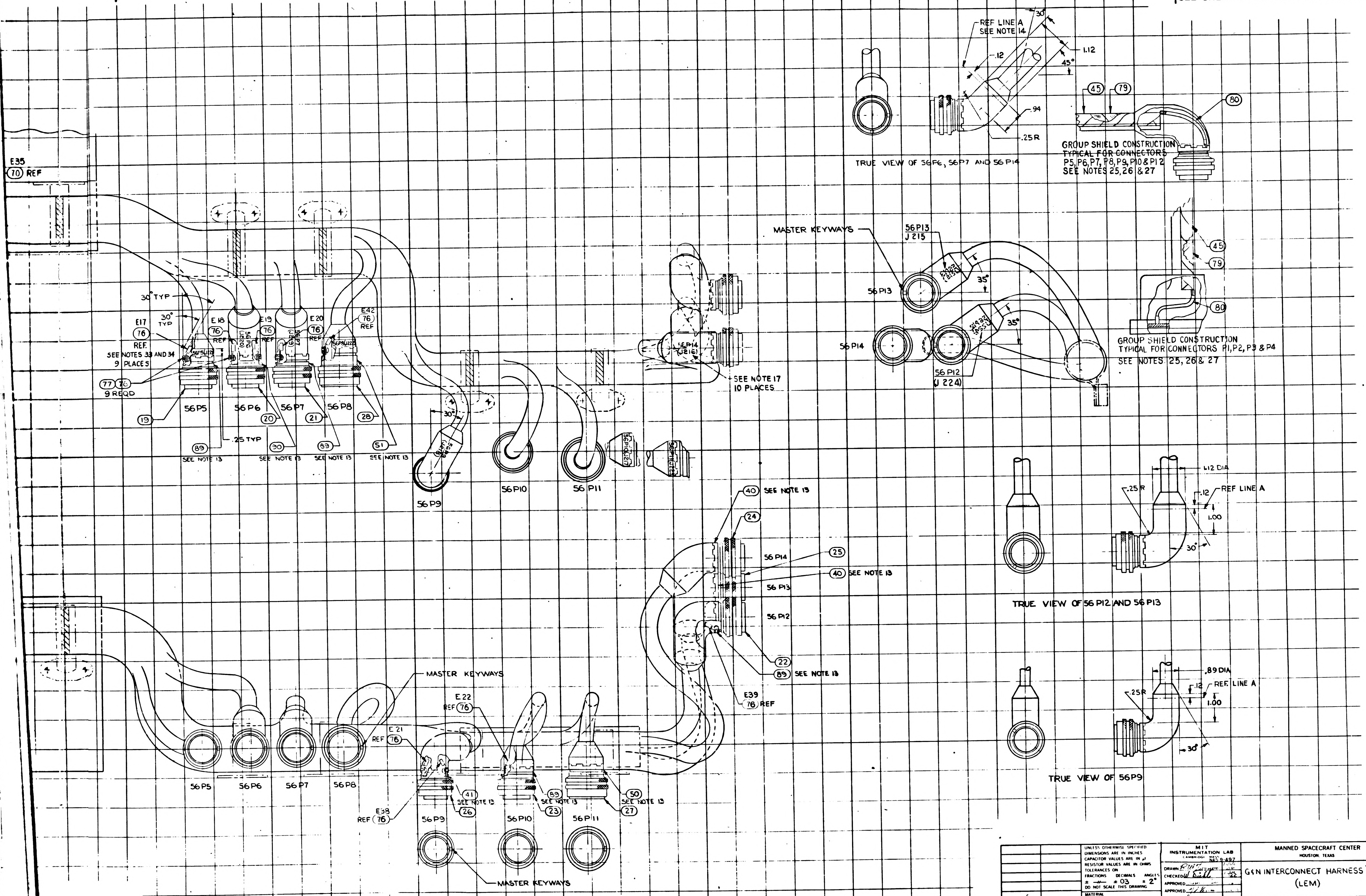
9
8
H
G
F
E
D
C
B
A
E16
70 REF
101
71 17 REQD
70 REF
E9
70 REF
E10
70 REF
E11
70 REF
E36
70 REF
E12
E13
70 REF
E35
70 REF
101
BRANCH 2
BRANCH 1
E15
70 REF
E14
70 REF
E7
70 REF
E34
70 REF
E8
70 REF
70 REF
E37
E6
70 REF
E5
70 REF
E4
70 REF
30° TYP
30° TYP
E17
76
REF.
SEE NOTES 33 AND 34
9 PLACES
E18
76
REF
77 78
9 REQD
56J5
19
89
SEE NOTE 13
43 SEE NOTE 15
8 PLACES
45 SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
58
56P1
59
56E43
91 REF
92 REF
56P2 (45J19)
60
56P3(40J53)
SEE NOTE 31
61
SEE NOTE 23
14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010659
SER NO.
CONTRACT NO.
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 13
56 P5
6010659
REV LTR B
SH 17

17 6010659

REVISIONS TDRR 31139

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD



E35
(70) REF
30° TYP
30° TYP
E17
(76)
REF.
SEE NOTES 33 AND 34
9 PLACES
(77) (76)
9 REQD
E18
(76) REF
E19
(76) REF
E20
(76) REF
E42
(76) REF
56P5(J222)
56P6 (J220)
56P7 (J219)
56P8(J222)
56P5
56P6
56P7
56P8
(19)
(20)
(21)
(28)
.25 TYP
(89) SEE NOTE 13
(90) SEE NOTE 13
(89) SEE NOTE 13
(51) SEE NOTE 13
30°
56P9
56P10
56P11
56P14 (J216)
SEE NOTE 17
10 PLACES
REF LINE A
SEE NOTE 14
30
.12
1.12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
(45)
(79)
(80)
GROUP SHIELD CONSTRUCTION
TYPICAL FOR CONNECTORS
P5, P6, P7, P8, P9, P10 & P12
SEE NOTES 25, 26 & 27
MASTER KEYWAYS
56P13
J215
35°
56P13
56P14
56P12
(J224)
35°
(45)
(79)
(80)
GROUP SHIELD CONSTRUCTION
TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25, 26 & 27
1.12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
(40) SEE NOTE 13
(24)
56P14
(25)
(40) SEE NOTE 13
56P13
56P12
(22)
(89) SEE NOTE 13
E39
(76) REF
.89 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
MASTER KEYWAYS
E22
REF (76)
E21
REF (76)
56P5
56P6
56P7
56P8
E38
REF (76)
(41) SEE NOTE 13
(26)
(89) SEE NOTE 13
(23)
(50) SEE NOTE 13
(27)
56P9
56P10
56P11
MASTER KEYWAYS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS — DECIMALS ±.03 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL —

NEXT ASSY	USED ON
APPLICATION	

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN R W Turner 1 Jul 66
CHECKED W Diehl 1 Jul 66
APPROVED
APPROVED
APPROVED CCB 9/12/66
APPROVED MSC R. Jacob

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A"
(LEM)

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6010659

SCALE 1/1
SHEET 10 OF 17

59 REV LTR B SH 1

2/6010659

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE
	70	17	MS25036-52	TERMINAL LUG
	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
	78	9	1006783- 53	SCREW, BUTTON HD
	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	80		1006776- 19	DELETED
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
	91	1	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
	92	1	1010945- 1	SPLICE-REDUCER.
	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 11 OF

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	95	AR	SN 60.WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX,
9	97	AR	1008822	COLORANT, EPOXY BASE
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 12 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	1A	5	SHLD A1 P3-340					.20 .19	NO NO		33	BRANCH 6
A	1B	5	P14-6 SHLD A1					.13 .20	NO NO		30	
A	1R		P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A	1Y		P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A	2	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	2A	5	SHLD A2 P3-640					.20 .19	NO NO		33	BRANCH 6
A	2B	5	P14-15 SHLD A2					.13 .20	NO NO		30	
A	2R		P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A	2Y		P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A	3	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	3A	6	SHLD A3 P3-341					.20 .19	NO NO		33	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 13 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3B	5	P14-21 SHLD A3					.13 .20	NO NO		30	
A	3R		P3-141 P14-8					.19 .13	NO NO		30	BRANCH 6
A	3Y		P3-241 P14-20					.19 .13	NO NO		30	BRANCH 6
A	4	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	4A	6	SHLD A4 P3-641					.20 .19	NO NO		33	BRANCH 7
A	4B	5	P14-19 SHLD A4					.13 .20	NO NO		30	
A	4R		P3-441 P14-7					.19 .13	NO NO		30	BRANCH 7
A	4Y		P3-541 P14-18					.19 .13	NO NO		30	BRANCH 7
A	5	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	5A	5	SHLD A5 P3-342					.20 .19	NO NO		33	BRANCH 6
A	5B	5	P14-11 SHLD A5					.13 .20	NO NO		30	
A	5R		P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 14 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242 P14-24					.19 .13	NO NC		34 30	BRANCH 6
A 6	16				1.00 1.75	.75 1.50				68 68	37 37	
A 6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A 6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A 6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A 6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A 7	16				1.00 1.75	.75 1.50				68 68	37 37	
A 7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A 7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A 7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A 7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A 8	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 15 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A 8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A 8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A 8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A 9	16				1.00 1.75	.75 1.50				68 68	37 37	
A 9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A 9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A 9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A 9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A 10	16				1.00 1.75	.75 1.50				68 68	37 37	
A 10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A 10B	5		P14-52 SHLD A10					.13 .20	NC NO		30	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 16 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A 10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A 11	16				1.00 1.75	.75 1.50				68 68	37 37	
A 11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A 11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A 11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A 11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A 12	16				1.00 1.75	.75 1.50				68 68	37 37	
A 12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A 12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A 12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A 12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 17 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00 1.75	.75 1.50				68 68	37 37	
A 13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A 13R			P3-146 P12-91					.19 .13	NO NO		30	BRANCH 7
A 13Y			P3-246 P12-56					.19 .13	NO NC		30	BRANCH 7
A 14	16				1.00 1.75	.75 1.50				68 68	37 37	
A 14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A 14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A 14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A 14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A 15	16				1.00 1.75	.75 1.50				68 68	37 37	
A 15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 18 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NC NO		30	
A 15R			P3-147 P12-16					.19 .13	NC NO		 30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		 30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NC		 33	 BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NC NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NC		 30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		 30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		 33	 BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		 30	BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 19 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		 30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		 33	 BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		 30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		 30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		 33	 BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		 30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		 30	BRANCH 7
A 20	8											

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 20 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NC NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				68 68	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		 33	 BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NC		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				68 6B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		 33	 BRANCH 4

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 21 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				68 68	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		 33	 BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NC		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		 33	 BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 22 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34 P3-530					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26	16				1.00 1.00	.75 .75				68 68	37 37	
A 26A	5		SHLD A26 P2-F33					.20 .19	NC NO		33	BRANCH 4
A 26B	5		P3-331 SHLD A26					.19 .20	NO NO		33	BRANCH 6
A 26R			P2-F35 P3-131					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26Y			P2-F34 P3-231					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 27	16				1.00 1.00	.75 .75				68 68	37 37	
A 27A	5		SHLD A27 P2-H33					.20 .19	NO NO		33	BRANCH 4
A 27B	5		P3-631 SHLD A27					.19 .20	NO NO		33	BRANCH 6
A 27R			P2-H35 P3-431					.19 .19	NC NO		34 34	BRANCH 4 BRANCH 6
A 27Y			P2-H34 P3-531					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 28	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 23 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28 E15					.20 .19	NC NC			
A 28B	5		P7-54 SHLD A28					.13 .20	NO NO		29	
A 28R			P3-132 P7-78					.19 .13	NC NO		29	BRANCH 6
A 28Y			P3-232 P7-53					.19 .13	NO NO		29	BRANCH 6
A 29	16				1.00 1.75	.75 1.50				68 68	37 37	
A 29A	5		SHLD A29 E16					.20 .19	NO NO			
A 29B	5		P7-80 SHLD A29					.13 .20	NO NO		29	
A 29R			P3-432 P7-79					.19 .13	NO NO		29	BRANCH 6
A 29Y			P3-532 P7-55					.19 .13	NO NO		29	BRANCH 6
A 30	16				1.00 1.75	.75 1.50				68 68	37 37	
A 30A	5		SHLD A30 E15					.20 .19	NO NO			
A 30B	5		P7-33 SHLD A30					.13 .20	NO NO		29	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 24 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133 P7-16					.19 .13	NO NO		29	BRANCH 6
A 30Y			P3-233 P7-32					.19 .13	NO NC		29	BRANCH 6
A 31	16				1.00 1.75	.75 1.50				68 68	37 37	
A 31A	5		SHLD A31 E16					.20 .19	NO NO			
A 31B	5		P7-57 SHLD A31					.13 .20	NO NO		29	
A 31R			P3-433 P7-81					.19 .13	NO NO		29	BRANCH 6
A 31Y			P3-533 P7-56					.19 .13	NO NO		29	BRANCH 6
A 32	16				1.00 1.75	.75 1.50				68 68	37 37	
A 32A	5		SHLD A32 E15					.20 .19	NO NO			
A 32B	5		P7-35 SHLD A32					.13 .20	NO NO		29	
A 32R			P3-134 P7-34					.19 .13	NO NO		29	BRANCH 6
A 32Y			P3-234 P7-17					.19 .13	NO NO		29	BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 25 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8 P3-136					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 34	2		P2-K8 P3-336					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 35	4		P3-113 P4-514					.19 .19	NO NO		34 34	0, BRANCH 5 BRANCH 8
A 36	4		P3-612 P4-314					.19 .19	NO NO		34 34	0, BRANCH 5 BRANCH 8
A 37	4		P3-512 P4-414					.19 .19	NO NO		34 34	0, BRANCH 5 BRANCH 8
A 38	4		P3-412 P4-614					.19 .19	NC NO		34 34	0, BRANCH 5 BRANCH 8
A 39	4		P3-312 P4-313					.19 .19	NO NO		34 34	0, BRANCH 5 BRANCH 8
A 40	4		P3-112 P4-412					.19 .19	NO NO		34 34	0, BRANCH 5 BRANCH 8
A 41	16				1.00 1.00	.75 .75				68 68	37 37	
A 41A	5		SHLD A41 P3-111					.20 .19	NO NO		33	BRANCH 5
A 41B	5		E4 SHLD A41					.19 .20	NO NO			
A 41R			P3-311 P4-515					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 26 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211 P4-615					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8
A 42	16				1.00 1.00	.75 .75				68 68	37 37	
A 42A	5		SHLD A42 P3-410					.20 .19	NO NO		33	BRANCH 5
A 42B	5		E7 SHLD A42					.19 .20	NO NO			
A 42R			P3-610 P4-332					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 42Y			P3-510 P4-432					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43	16				1.00 1.00	.75 .75				68 68	37 37	
A 43A	5		SHLD A43 P3-110					.20 .19	NO NO		33	BRANCH 5
A 43B	5		E7 SHLD A43					.19 .20	NO NO			
A 43R			P3-310 P4-330					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43Y			P3-210 P4-430					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 27 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44 P3-409					.20 .19	NO NO		33	BRANCH 5
A 44B	5		E6 SHLD A44					.19 .20	NO NO			
A 44R			P3-609 P4-329					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44Y			P3-509 P4-429					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45	16				1.00 1.00	.75 .75				68 68	37 37	
A 45A	5		SHLD A45 P3-109					.20 .19	NO NO		33	BRANCH 5
A 45B	5		E6 SHLD A45					.19 .20	NO NO			
A 45R			P3-309 P4-328					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45Y			P3-209 P4-428					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46	16				1.00 1.00	.75 .75				68 68	37 37	
A 46A	5		SHLD A46 P3-408					.20 .19	NO NO		33	BRANCH 5
A 46B	5		E7 SHLD A46					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 28 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608 P4-334					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46Y			P3-508 P4-434					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47	16				1.00 1.00	.75 .75				68 68	37 37	
A 47A	5		SHLD A47 P3-108					.20 .19	NO NO		33	BRANCH 5
A 47B	5		E7 SHLD A47					.19 .20	NO NO		70	
A 47R			P3-308 P4-333					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47Y			P3-208 P4-433					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48	16				1.00 1.00	.75 .75				68 68	37 37	
A 48A	5		SHLD A48 P3-407					.20 .19	NO NO		33	BRANCH 5
A 48B	5		E8 SHLD A48					.19 .20	NO NO			
A 48R			P3-607 P4-338					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48Y			P3-507 P4-438					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 29 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00 1.00	.75 .75				68 68	37 37	
A 49A	5		SHLD A49 P3-107					.20 .19	NO NO		33	BRANCH 5
A 49B	5		E8 SHLD A49					.19 .20	NO NO			
A 49R			P3-307 P4-337					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 49Y			P3-207 P4-437					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50	16				1.00 1.00	.75 .75				68 68	37 37	
A 50A	5		SHLD A50 P3-406					.20 .19	NO NO		33	BRANCH 5
A 50B	5		E7 SHLD A50					.19 .20	NO NO			
A 50R			P3-606 P4-336					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50Y			P3-506 P4-436					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51	16				1.00 1.00	.75 .75				68 68	37 37	
A 51A	5		SHLD A51 P3-106					.20 .19	NO NO		33	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 30 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7 SHLD A51					.19 .20	NO NO			
A 51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 54	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 54A	5		SHLD A54 P3-405					.20 .19	NO NO		33	BRANCH 5
A 54B	5		E10 SHLD A54					.19 .20	NO NO			
A 54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 55A	5		SHLD A55 P3-105					.20 .19	NO NO		33	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 31 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10 SHLD A55					.19 .20	NO NO			
A 55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 56A	5		SHLD A56 P3-404					.20 .19	NO NO		33	BRANCH 5
A 56B	5		E10 SHLD A56					.19 .20	NO NO			
A 56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 57	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 57A	5		SHLD A57 P3-104					.20 .19	NO NO		33	BRANCH 5
A 57B	5		E8 SHLD A57					.19 .20	NO NO			
A 57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 32 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 58A	5		SHLD A58 P3-403					.20 .19	NO NO		33	BRANCH 5
A 58B	5		E9 SHLD A58					.19 .20	NO NO			
A 58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 59A	5		SHLD A59 P3-103					.20 .19	NO NO		33	BRANCH 5
A 59B	5		E10 SHLD A59					.19 .20	NO NO			
A 59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60	16				1.00 1.00	.75 .75				6B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 33 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60 P3-402					.20 .19	NO NO		33	BRANCH 5
A 60B	5		E9 SHLD A60					.19 .20	NO NO			
A 60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 61A	5		SHLD A61 P3-102					.20 .19	NO NO		33	BRANCH 5
A 61B	5		E9 SHLD A61					.19 .20	NO NO		70	
A 61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 62A	5		SHLD A62 P3-401					.20 .19	NO NO		33	BRANCH 5
A 62B	5		E9 SHLD A62					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 34 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 63A	5		SHLD A63 P3-101					.20 .19	NO NO		33	BRANCH 5
A 63B	5		E9 SHLD A63					.19 .20	NO NO			
A 63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 64	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 64A	6		SHLD A64 P3-649					.20 .19	NO NO		33	BRANCH 7
A 64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A 64R			P3-449 P12-64					.19 .13	NO NO		30	BRANCH 7
A 64Y			P3-549 P12-65					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 35 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 65A	5		SHLD A65 E14					.20 .19	NO NO			
A 65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A 65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A 65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A 66	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 66A	5		SHLD A66 E14					.20 .19	NO NO			
A 66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A 66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A 66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A 67	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 67A	5		SHLD A67 E14					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 36 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A 67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A 67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A 68	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 68A	5		SHLD A68 E14					.20 .19	NO NO			
A 68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A 68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A 68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A 69	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 69A	5		SHLD A69 E14					.20 .19	NO NO			
A 69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A 69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 37 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A 70	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 70A	5		SHLD A70 E14					.20 .19	NO NO			
A 70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A 70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A 70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A 71	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 71A	5		SHLD A71 E14					.20 .19	NO NO		70	
A 71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A 71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A 71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A 72	15				1.00 1.75	.75 1.50				6B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 38 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A94 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A94					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				68 68	37 37	
A 95A	5		SHLD A95 E13					.20 .19	NO NO		70	
A 95B	5		P13-54 SHLD A95					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				68 68	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO		70	
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 47 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				68 68	37 37	
A 97A	5		SHLD A97 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A97					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P,BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 48 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 49 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 50 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 108Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 109R			P2-A14 P11-S					.19 .19	NO NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 4
A 128	8											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		33	BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		33	BRANCH 3
A 134	16				1.00 1.00	.75 .75				68 68	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		33	BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 135	16				1.00 1.00	.75 .75				68 68	37 37	

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E,BRANCH 10
A 252	9											E,BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E,BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E,BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G,BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G,BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G,BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G,BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 71 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G,BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G,BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G,BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G,BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G,BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G,BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G,BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 72 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G,BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G,BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G,BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G,BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G,BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G,BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G,BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 73 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G,BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G,BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G,BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M,BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M,BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M,BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M,BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M,BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 74 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P1C-73					.19 .13	NO NO		34 30	M, BRANCH 9
A 275	9											M
A 275R			P4-352 P1C-72					.19 .13	NO NO		34 30	M, BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M, BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E, BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E, BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E, BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E, BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 75 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E, BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E, BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E, BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A, BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A, BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A, BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A, BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A, BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A, BRANCH 8

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 76 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A, BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A, BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B, BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B, BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B, BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B, BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B, BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B, BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B, BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B, BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B, BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 77 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B, BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B, BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B, BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B, BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B, BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B, BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B, BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B, BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B, BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B, BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B, BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 78 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555 P6-49					.18 .13	NO NO		34 29	J,BRANCH 10
A 532	4		P4-556 P6-28					.18 .13	NO NO		34 29	J,BRANCH 10
A 533	4		P4-602 P6-22					.18 .13	NO NC		34 29	J,BRANCH 10
A 534	4		P4-101 P6-41					.18 .13	NO NO		34 29	J,BRANCH 10
A 535	4		P4-113 P9-32					.18 .13	NO NO		34 29	C,BRANCH 8
A 536	4		P4-112 P9-16					.18 .13	NO NC		34 30	C,BRANCH 8
A 537	14				1.00 1.75	.75 1.50				6B 6B	37 37	
A 537A	5		SHLD A537 E43					.20 .30	NO NO			LARGE END.
A 537B	5		P14-69 SHLD A537					.19 .20	NO NO		30	
A 537Y			P2-G18 P14-25					.18 .13	NO NC		33 30	BRANCH 4
A 539	4		P4-538 P4-637					.18 .18	NO NO		34 34	
A 540	4		P4-613 P7-66					.18 .13	NO NO		34 29	D,BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 103 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513 P7-67					.18 .13	NO NO		34 29	D,BRANCH 9
A 551			DELETED									
A 552			DELETED									
A 553			DELETED									
A 554			DELETED									
A 555			DELETED									
A 556			DELETED									
A 557			DELETED									
A 558			DELETED									
A 559			DELETED									
A 560			DELETED									
A 561			DELETED									

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 104 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 562			DELETED									
A 563			DELETED									
A 564			DELETED									
A 565	2		P8-D P8-F					.22 .22	NO NO			
A 566	2		P8-D P8-F					.22 .22	NO NC		32	
A 567	2		P8-E P8-F					.22 .22	NO NO			
A 568	2		P8-E P8-F					.22 .22	NO NO		32 32	
A 569	2		P8-H P8-M					.22 .22	NO NO			
A 570	2		P8-H P8-M					.22 .22	NO NO		32	
A 571	2		P8-J P8-M					.22 .22	NC NO			
A 572	2		P8-J P8-M					.22 .22	NO NO		32 32	
A 573	4		P4-628 P6-83					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 105 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

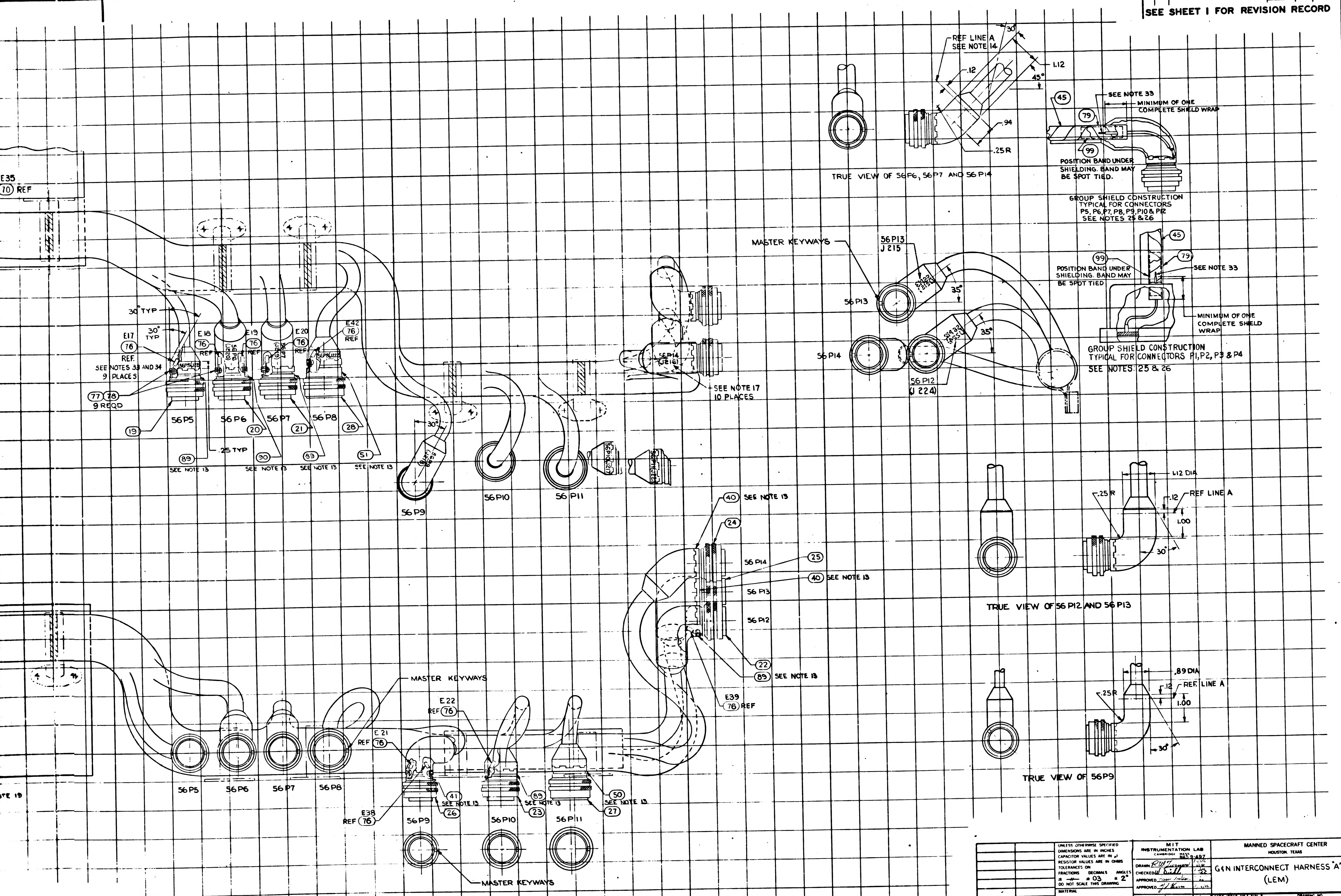
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 574	4		P4-528 P6-59					.18 .13	NO NO		34 29	J, BRANCH 10
A 575	4		P4-626 P6-36					.18 .13	NO NC		34 29	J, BRANCH 10
A 576	4		P4-526 P6-35					.18 .13	NO NO		34 29	J, BRANCH 10
A 577	4		P4-519 P6-34					.18 .13	NO NO		34 29	J, BRANCH 10
A 578	2		E43 P2-D9					.30 .18	NO NO		91, 92 33	SMALL END.
A 579	4		P4-627 P6-57					.18 .13	NO NC		34 29	J, BRANCH 10
A 580	4		P4-527 P6-33					.18 .13	NC NO		34 29	J, BRANCH 10
A 581	2		E17 SHLD A					.19 .25	YES YES			A
A 582	2		SHLD A E35					.25 .19	YES NO			A
A 583	2		E17 SHLD B					.19 .25	YES NO		76	B
A 584	2		SHLD B E35					.25 .19	YES NO			B
A 585	2		E35 SHLD C					.19 .25	NO YES			C

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 106 OF

FORM 2084 9-65

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



REF LINE A
SEE NOTE 14
30
.12
1.12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
45
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
79
99
POSITION BAND UNDER SHIELDING. BAND MAY BE SPOT TIED.
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P5, P6, P7, P8, P9, P10 & P12 SEE NOTES 25 & 26
E35
70 REF
MASTER KEYWAYS
56P13
J215
35°
56P14
56P12
(J224)
POSITION BAND UNDER SHIELDING. BAND MAY BE SPOT TIED
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25 & 26
30° TYP
30° TYP
E17
76
REF.
SEE NOTES 33 AND 34
9 PLACES
77 78
9 REQD
E18
76
REF
E19
76
REF
E20
76
REF
E42
76
REF
56P5
56P6
56P7
56P8
19
20
21
28
89
SEE NOTE 13
.25 TYP
90
SEE NOTE 13
89
SEE NOTE 13
51
SEE NOTE 13
56P14
(J216)
SEE NOTE 17
10 PLACES
30°
56P9
56P10
56P11
40 SEE NOTE 13
24
56P14
25
40 SEE NOTE 13
56P13
56P12
22
89 SEE NOTE 13
E39
76 REF
1.12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
.89 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
MASTER KEYWAYS
E22
REF 76
E21
REF 76
56P5
56P6
56P7
56P8
41
SEE NOTE 13
26
89
SEE NOTE 13
23
50
SEE NOTE 13
27
E38
REF 76
56P9
56P10
56P11
MASTER KEYWAYS
NOTE 13

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.03 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN	R W Turner	1 JUL 66
CHECKED	W Diehl	1 JUL 66
APPROVED	[illegible]	[illegible]
APPROVED	[illegible]	[illegible]
APPROVED CCB	[illegible]	9/1/66
APPROVED MSC	R. Jacobs	9/23/66
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A"
(LEM)

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6010659
SCALE 1/1		SHEET 1C4 OF 1C4

6010659

6010659

6010659

6010659

CYZMOURE 110366 HARNESS A 6010659 C

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6014504.

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 3 OF

FORM 2064 9-65

GRIESMAN 012067 HARNESS A 6010659 D

NOTE GENERAL NOTES

NUMBER DESCRIPTION

10 CRIMP CONTACTS PER ND1002032.

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
CONNECTOR 56P8, USE ITEM NUMBER 36
CONNECTOR 56P11, USE ITEM NUMBER 62
CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

12 LACE HARNESS PER ND1002032 USING ITEM 100.

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019, CENTRALIZE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR D
SHEET 4

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE GENERAL NOTES

NUMBER DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

27 DELETED

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 5 OF

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE GENERAL NOTES

NUMBER DESCRIPTION

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 6 OF

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE NUMBER	GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 7 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010659-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010659-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010659-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010659-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010659-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010659-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010659-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010659-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010659-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010659-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010659-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010659-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010659-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 8 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010659-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010659-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	17		6010659-017	DELETED
	18	1	6010659-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
9	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 9 OF

FORM 2084 9-68

GRIESMAN 012067 HARNESS A 6010659 D

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE
11	36	6	1010958- 5	PLUG, PROTECTIVE
9	37	228	1010402- 2	SLEEVE, SOLDER
	38	.2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	44		1012507- 4	DELETED
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
	53	AR	1010661	EPOXY RESIN
	54	AR	1010679	ADHESIVE, ACTIVATOR
	57	AR	1012504	PRIMER, METAL PARTS

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR D	SHEET 10

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7 SHLD A51					.19 .20	NO NO			
A 51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 54	16				1.00 1.00	.75 .75				68 68	37 37	
A 54A	5		SHLD A54 P3-405					.20 .19	NO NO		33	BRANCH 5
A 54B	5		E10 SHLD A54					.19 .20	NO NO			
A 54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55	16				1.00 1.00	.75 .75				68 68	37 37	
A 55A	5		SHLD A55 P3-105					.20 .19	NO NO		33	BRANCH 5

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 31 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10 SHLD A55					.19 .20	NO NO			
A 55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56	16				1.00 1.00	.75 .75				68 68	37 37	
A 56A	5		SHLD A56 P3-404					.20 .19	NO NO		33	BRANCH 5
A 56B	5		E10 SHLD A56					.19 .20	NO NO			
A 56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 57	16				1.00 1.00	.75 .75				68 68	37 37	
A 57A	5		SHLD A57 P3-104					.20 .19	NO NO		33	BRANCH 5
A 57B	5		E8 SHLD A57					.19 .20	NO NO			
A 57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 32 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58	16				1.00 1.00	.75 .75				68 68	37 37	
A 58A	5		SHLD A58 P3-403					.20 .19	NO NO		33	BRANCH 5
A 58B	5		E9 SHLD A58					.19 .20	NO NO			
A 58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59	16				1.00 1.00	.75 .75				68 68	37 37	
A 59A	5		SHLD A59 P3-103					.20 .19	NO NO		33	BRANCH 5
A 59B	5		E10 SHLD A59					.19 .20	NO NO			
A 59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 33 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60 P3-402					.20 .19	NO NO		33	BRANCH 5
A 60B	5		E9 SHLD A60					.19 .20	NO NO			
A 60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61	16				1.00 1.00	.75 .75				68 68	37 37	
A 61A	5		SHLD A61 P3-102					.20 .19	NO NO		33	BRANCH 5
A 61B	5		E9 SHLD A61					.19 .20	NO NO		70	
A 61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62	16				1.00 1.00	.75 .75				68 68	37 37	
A 62A	5		SHLD A62 P3-401					.20 .19	NO NO		33	BRANCH 5
A 62B	5		E9 SHLD A62					.19 .20	NO NO			

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 34 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601					.19	NO		34	BRANCH 5
			P4-150					.19	NO		34	BRANCH 10
A 62Y			P3-501					.19	NO		34	BRANCH 5
			P4-250					.19	NO		34	BRANCH 10
A 63	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 63A	5		SHLD A63					.20	NO			
			P3-101					.19	NO		33	BRANCH 5
A 63B	5		E9					.19	NO			
			SHLD A63					.20	NO			
A 63R			P3-301					.19	NO		34	BRANCH 5
			P4-149					.19	NO		34	BRANCH 10
A 63Y			P3-201					.19	NO		34	BRANCH 5
			P4-249					.19	NO		34	BRANCH 10
A 64	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 64A	6		SHLD A64					.20	NO			
			P3-649					.19	NO		33	BRANCH 7
A 64B	5		P12-40					.13	NO		30	
			SHLD A64					.20	NO			
A 64R			P3-449					.19	NO			BRANCH 7
			P12-64					.13	NO		30	
A 64Y			P3-549					.19	NO			BRANCH 7
			P12-65					.13	NO		30	

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 35 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 65A	5		SHLD A65					.20	NO			
			E14					.19	NO			
A 65B	5		P9-26					.13	NO		30	
			SHLD A65					.20	NO			
A 65R			P3-115					.19	NO		34	BRANCH 5
			P9-46					.13	NO		30	
A 65Y			P3-215					.19	NO		34	BRANCH 5
			P9-47					.13	NO		30	
A 66	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 66A	5		SHLD A66					.20	NO			
			E14					.19	NO			
A 66B	5		P9-15					.13	NO		30	
			SHLD A66					.20	NO			
A 66R			P3-315					.19	NO		34	BRANCH 5
			P9-30					.13	NO		30	
A 66Y			P3-415					.19	NO		34	BRANCH 5
			P9-31					.13	NO		30	
A 67	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 67A	5		SHLD A67					.20	NO			
			E14					.19	NO			

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 36 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14					.13	NO		30	
			SHLD A67					.20	NO			
A 67R			P3-515					.19	NO		34	BRANCH 5
			P9-4					.13	NO		30	
A 67Y			P3-615					.19	NO		34	BRANCH 5
			P9-5					.13	NO		30	
A 68	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 68A	5		SHLD A68					.20	NO			
			E14					.19	NO			
A 68B	5		P9-24					.13	NO		30	
			SHLD A68					.20	NO			
A 68R			P3-116					.19	NO		34	BRANCH 5
			P9-25					.13	NO		30	
A 68Y			P3-216					.19	NO		34	BRANCH 5
			P9-11					.13	NO		30	
A 69	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 69A	5		SHLD A69					.20	NO			
			E14					.19	NO			
A 69B	5		P9-51					.13	NO		30	
			SHLD A69					.20	NO			
A 69R			P3-316					.19	NO		34	BRANCH 5
			P9-29					.13	NO		30	

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 37 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416					.19	NO		34	BRANCH 5
			P9-50					.13	NO		30	
A 70	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 70A	5		SHLD A70					.20	NO			
			E14					.19	NO			
A 70B	5		P9-13					.13	NO		30	
			SHLD A70					.20	NO			
A 70R			P3-516					.19	NO		34	BRANCH 6
			P9-27					.13	NO		30	
A 70Y			P3-616					.19	NO		34	BRANCH 6
			P9-28					.13	NO		30	
A 71	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 71A	5		SHLD A71					.20	NO			
			E14					.19	NO		70	
A 71B	5		P9-9					.13	NO		30	
			SHLD A71					.20	NO			
A 71R			P3-117					.19	NO		34	BRANCH 6
			P9-22					.13	NO		30	
A 71Y			P3-217					.19	NO		34	BRANCH 6
			P9-23					.13	NO		30	
A 72	15				1.00	.75				68	37	
					1.75	1.50				68	37	

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 38 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 72A	5		SHLD A72 E12					.20 .19	NO NO			
A 72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A 72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A 72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A 73	16				1.00 1.75	.75 1.50				68 68	37 37	
A 73A	5		SHLD A73 E11					.20 .19	NO NO			
A 73B	5		P13-9 SHLD A73					.13 .20	NO NO		30	
A 73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A 73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A 74	16				1.00 1.75	.75 1.50				68 68	37 37	
A 74A	5		SHLD A74 E11					.20 .19	NO NO			
A 74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 39 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A 74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A 75	16				1.00 1.75	.75 1.50				68 68	37 37	
A 75A	5		SHLD A75 E11					.20 .19	NO NO			
A 75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A 75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A 75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A 76	16				1.00 1.75	.75 1.50				68 68	37 37	
A 76A	5		SHLD A76 E11					.20 .19	NO NO			
A 76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A 76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A 76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 40 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77	16				1.00 1.75	.75 1.50				68 68	37 37	
A 77A	5		SHLD A77 E11					.20 .19	NO NO			
A 77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A 77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A 77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A 78	16				1.00 1.75	.75 1.50				68 68	37 37	
A 78A	5		SHLD A78 E11					.20 .19	NO NO		70	
A 78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A 78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A 78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A 79	16				1.00 1.75	.75 1.50				68 68	37 37	
A 79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 41 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A 79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A 79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A 80	9											
A 80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A 80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A 81	9											
A 81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A 81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A 82	9											
A 82P			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A 82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 42 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				68 68	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				68 68	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				68 68	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				68 68	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				68 68	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				68 68	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				68 68	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				68 68	37 37	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A94 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A94					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				68 68	37 37	
A 95A	5		SHLD A95 E13					.20 .19	NO NO		70	
A 95B	5		P13-54 SHLD A95					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				68 68	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO		70	
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				68 68	37 37	
A 97A	5		SHLD A97 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A97					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P, BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 48 OF

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 49 OF

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		 31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		 31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 50 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32					.19	NO		33	BRANCH 2
			P4-102					.19	NO		33	BRANCH 8
A 163Y			P1-G32					.19	NO		33	BRANCH 2
			P4-202					.19	NO		33	BRANCH 8
A 164	7											
A 164R			P1-C32					.19	NO		33	BRANCH 2
			P13-7					.13	NO		30	
A 164Y			P1-D32					.19	NO		33	BRANCH 2
			P13-8					.13	NO		30	
A 165	8											
A 165R			P1-A32					.19	NO		33	BRANCH 2
			P2-B23					.19	NO		33	BRANCH 4
A 165Y			P1-B32					.19	NO		33	BRANCH 2
			P2-A23					.19	NO		33	BRANCH 4
A 169	9											
A 169R			P1-C19					.19	NO		34	BRANCH 1
			P14-47					.13	NO		30	
A 169Y			P1-C20					.19	NO		34	BRANCH 1
			P14-48					.13	NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14					.19	NO		34	BRANCH 1
			P14-49					.13	NO		30	
A 171	10											
A 171G			P1-D17					.19	NO		33	BRANCH 1
			P2-F9					.19	NO		33	BRANCH 3
A 171R			P1-C18					.19	NO		33	BRANCH 1
			P2-G8					.19	NO		33	BRANCH 3
A 171Y			P1-D18					.19	NO		33	BRANCH 1
			P2-G9					.19	NO		33	BRANCH 3
A 174	4		P1-F17					.19	NO		34	Q, BRANCH 1
			P4-652					.19	NO		34	BRANCH 10
A 175	4		P1-F18					.19	NO		34	Q, BRANCH 1
			P4-551					.19	NO		34	BRANCH 10
A 176	4		P1-G17					.19	NO		34	Q, BRANCH 1
			P4-651					.19	NO		34	BRANCH 10
A 177	4		P1-G18					.19	NO		34	Q, BRANCH 1
			P4-552					.19	NO		34	BRANCH 10
A 179	4		P1-B1					.19	NO		34	BRANCH 1
			P10-62					.13	NO		30	
A 180	4		P1-B2					.19	NO		34	BRANCH 1
			P10-38					.13	NO		30	
A 181	4		P1-C1					.19	NO		34	BRANCH 1
			P10-63					.13	NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1					.19	NO		34	BRANCH 1
			P10-64					.13	NO		30	
A 183	4		P1-F1					.19	NO		34	BRANCH 1
			P10-65					.13	NO		30	
A 184	4		P1-D2					.19	NO		34	BRANCH 1
			P10-40					.13	NO		30	
A 185	4		P1-C2					.19	NO		34	BRANCH 1
			P10-39					.13	NO		30	
A 186	4		P1-A3					.19	NO		34	BRANCH 1
			P10-85					.13	NO		30	
A 187	4		P1-B3					.19	NO		34	BRANCH 1
			P10-61					.13	NO		30	
A 188	4		P1-C3					.19	NO		34	BRANCH 1
			P10-37					.13	NO		30	
A 189	4		P1-A4					.19	NO		34	BRANCH 1
			P10-84					.13	NO		30	
A 190	4		P1-A5					.19	NO		34	BRANCH 1
			P10-83					.13	NO		30	
A 191	4		P1-C4					.19	NO		34	BRANCH 1
			P10-59					.13	NO		30	
A 192	4		P1-B4					.19	NO		34	BRANCH 1
			P10-60					.13	NO		30	
A 193	4		P1-D8					.19	NO		34	BRANCH 1
			P10-8					.13	NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7					.19	NO		34	BRANCH 1
			P10-20					.13	NO		30	
A 195	4		P1-F7					.19	NO		34	BRANCH 1
			P10-21					.13	NO		30	
A 196	4		P1-G8					.19	NO		34	BRANCH 1
			P10-10					.13	NO		30	
A 196	4		P1-G7					.19	NO		34	BRANCH 1
			P10-23					.13	NO		30	
A 199	4		P1-F8					.19	NO		34	BRANCH 1
			P10-9					.13	NO		30	
A 200	4		P1-C5					.19	NO		34	BRANCH 1
			P10-36					.13	NO		30	
A 201	4		P1-D6					.19	NO		34	BRANCH 1
			P10-35					.13	NO		30	
A 202	4		P1-F6					.19	NO		34	BRANCH 1
			P10-17					.13	NO		30	
A 203	4		P1-D5					.19	NO		34	BRANCH 1
			P10-19					.13	NO		30	
A 204	4		P1-G5					.19	NO		34	BRANCH 1
			P10-7					.13	NO		30	
A 205	4		P1-G6					.19	NO		34	BRANCH 1
			P10-6					.13	NO		30	
A 206	4		P1-F5					.19	NO		34	BRANCH 1
			P10-18					.13	NO		30	

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M,BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M,BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M,BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E,BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E,BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E,BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E,BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 75 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E,BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E,BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E,BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A,BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A,BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A,BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A,BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A,BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A,BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 76 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A,BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A,BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B,BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B,BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B,BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B,BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B,BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B,BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B,BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B,BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B,BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B,BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 77 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B,BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B,BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B,BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B,BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B,BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B,BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B,BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B,BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B,BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B,BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B,BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B,BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 78 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				68 68	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 83 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			~~P3-337~~ P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				68 68	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO		70	
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	O,BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 84 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 ~~P8-C~~					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 85 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H,BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H,BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H,BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H,BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H,BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H,BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H,BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 86 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J,BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J,BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J,BRANCH 10
A 486	4		P4-644 P6-9					.18 .13	NO NO		34 29	J,BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J,BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J,BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J,BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J,BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C,BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C,BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C,BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR C	SHEET 99 OF	

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J,BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J,BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J,BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F,BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F,BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F,BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F,BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F,BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F,BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F,BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F,BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F,BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR C	SHEET 100 OF	

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F,BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F,BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J,BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J,BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J,BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J,BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J,BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J,BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J,BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J,BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J,BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR C	SHEET 101 OF	

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J,BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J,BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J,BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J,BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J,BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D,BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D,BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D,BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J,BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J,BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J,BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J,BRANCH 10

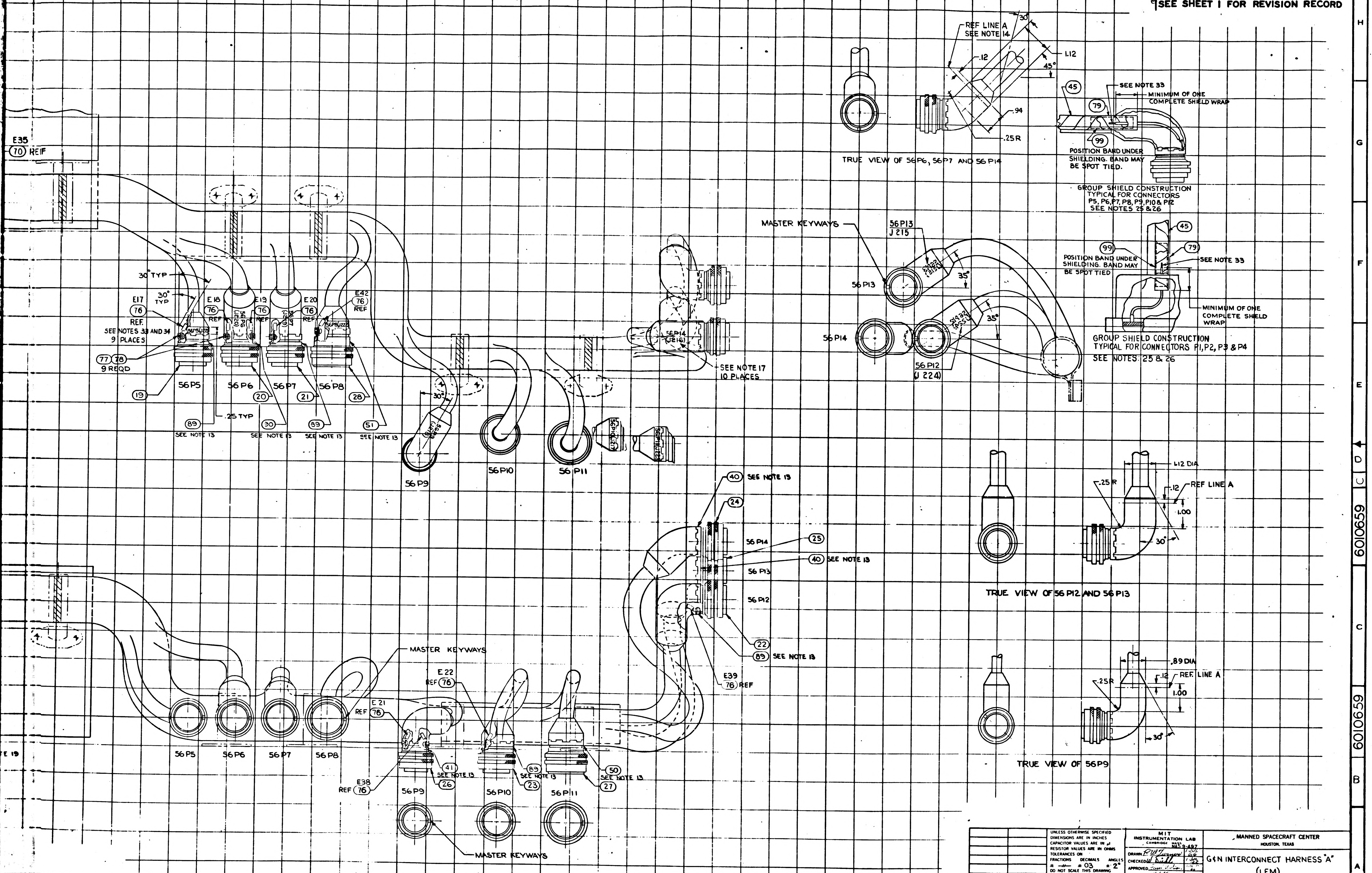
SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR C	SHEET 102 OF	

FORM 2064 9-65

REVISIONS TDRR 31139

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD

SEE SHEET I FOR REVISION RECORD



REF LINE A
SEE NOTE 14
30
1.12
.12
45°
.94
.25 R
TRUE VIEW OF 56P6, 56P7 AND 56P14
45
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
79
99
POSITION BAND UNDER SHIELDING. BAND MAY BE SPOT TIED.
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P5, P6, P7, P8, P9, P10 & P12
SEE NOTES 25 & 26
E35
70 REF
MASTER KEYWAYS
56P13
J215
35°
56P14
56P12
(J224)
SEE NOTE 17
10 PLACES
56P14 (J216)
POSITION BAND UNDER SHIELDING. BAND MAY BE SPOT TIED
MINIMUM OF ONE COMPLETE SHIELD WRAP
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25 & 26
30° TYP
30° TYP
E17
76
REF.
SEE NOTES 33 AND 34
9 PLACES
77
78
9 REQD
E18
E19
E20
E42
REF
19
56P5
56P6
56P7
56P8
20
21
28
.25 TYP
89
30
51
SEE NOTE 13
30°
56P9
56P10
56P11
40 SEE NOTE 13
24
25
40 SEE NOTE 13
22
89 SEE NOTE 13
E39
76 REF
1.12 DIA
.25 R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
.89 DIA
.25 R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
MASTER KEYWAYS
E22
REF 76
E21
REF 76
E38
REF 76
41
SEE NOTE 13
26
89
SEE NOTE 13
23
50
SEE NOTE 13
27
MASTER KEYWAYS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN R.W. Turner 1 JUL 66
CHECKED W. Diehl 1 Jul 66
APPROVED Paul Ostor 7/6/66
APPROVED J.L. Kern 7/16/66
APPROVED CCB 9/12/66
APPROVED MSC R. Jacobs 9/23/66
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A"
(LEM)

CODE IDENT NO	SIZE	DRAWING NO.
80230	J	6010659

SCALE 1/1
SHEET 109 OF 109

6010659

6010659

0106.59 REV LTR C SH 109 OF 109

2760106 59

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 31139	7 JUL '66	E.A.T. W.D.

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS OF SHEETS	REV					A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN: I. Keahn 29 JUN 66 (DAY MO YR)
CHECKER: W. Diehl 1 JUL '66
ENGINEER: D. Batta 5 JUL 66
APPROVAL: 8/15/66
CONTR NO. NAS 9-497
NASA APPROVAL R. Jacob
CCB ~~[illegible]~~ APPROVAL E.A.T.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS A
(LEM)

SIZE A
CODE IDENT. NO 80230
6010659
SCALE NONE
SHEET 1 OF 107

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	A	80	A												
47	A	81	A												
48	A	82	A												
49	A	83	A												
50	A	84	A												
51	A	85	A												
52	A	86	A												
53	A	87	A												
54	A	88	A												
55	A	89	A												
56	A	90	A												
57	A	91	A												
58	A	92	A												
59	A	93	A												
60	A	94	A												
61	A	95	A												
62	A	96	A												
63	A	97	A												
64	A	98	A												
65	A	99	A												
66	A	100	A												
67	A	101	A												
68	A	102	A												
69	A	103	A												
70	A	104	A												
71	A	105	A												
72	A	106	A												
73	A	107	A												
74	A														
75	A														
76	A														
77	A														
78	A														
79	A														

SIZE A
CODE IDENT. NO. 80230
6010659
SCALE NONE
REV LTR A
SHEET 2 OF 107

MIL 1377A3 8-65

NOTE NUMBER	GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 7 OF 107

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010659-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010659-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010659-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010659-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010659-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010659-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010659-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010659-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010659-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010659-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010659-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010659-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010659-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 8 OF 107

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010659-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010659-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	17	1	6010659-017	WIRE PER QQ-W-343, TYPE C, CLASS C UNCOATED, SILVER PLATED, 22AWG, 300 FT TOT LG
	18	1	6010659-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 9 OF 107

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947
9	33	545	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE
11	36	6	1010958- 5	PLUG, PROTECTIVE
9	37	228	1010402- 2	SLEEVE, SOLDER
	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	44	AR	1012507- 4	TAPE, LACING
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
	53	AR	1010661	EPOXY RESIN
	54	AR	1010679	ADHESIVE, ACTIVATOR

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 10 OF 107

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE
	70	17	MS25036-52	TERMINAL LUG
	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
	78	9	1006783- 93	SCREW, BUTTON HD
	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	80	AR	1006776- 19	SLEEVE, INSULATION, 10 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
	91	1	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
	92	1	1010945- 1	SPLICE-REDUCER.
	93	864	1010490-114	INSULATION SLEEVING (HEAT SHRINK)

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 11 OF 107

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX.

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 12 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	1A	5	SHLD A1 P3-340					.20 .19	NO NO		 33	 BRANCH 6
A	1B	5	P14-6 SHLD A1					.13 .20	NO NO		30	
A	1R		P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A	1Y		P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A	2	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	2A	5	SHLD A2 P3-640					.20 .19	NO NO		 33	 BRANCH 6
A	2B	5	P14-15 SHLD A2					.13 .20	NO NO		30	
A	2R		P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A	2Y		P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A	3	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	3A	6	SHLD A3 P3-341					.20 .19	NO NO		 33	 BRANCH 6

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 13 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3B	5	P14-21 SHLD A3					.13 .20	NO NO		30	
A	3R		P3-141 P14-8					.19 .13	NO NO		 30	BRANCH 6
A	3Y		P3-241 P14-20					.19 .13	NO NO		 30	BRANCH 6
A	4	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	4A	6	SHLD A4 P3-641					.20 .19	NO NO		 33	 BRANCH 7
A	4B	5	P14-19 SHLD A4					.13 .20	NO NO		30	
A	4R		P3-441 P14-7					.19 .13	NO NO		 30	BRANCH 7
A	4Y		P3-541 P14-18					.19 .13	NO NO		 30	BRANCH 7
A	5	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	5A	5	SHLD A5 P3-342					.20 .19	NO NO		 33	 BRANCH 6
A	5B	5	P14-11 SHLD A5					.13 .20	NO NO		30	
A	5R		P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 14 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		 30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		 30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		 33	 BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		 30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		 30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		 33	 BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		 30	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 19 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		 30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		 33	 BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		 30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		 30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		 33	 BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		 30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		 30	BRANCH 7
A 20	8											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 20 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		 33	 BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		 33	 BRANCH 4

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 21 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		 33	 BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		 33	 BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 22 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34					.19	NO		34	BRANCH 4
			P3-530					.19	NO		34	BRANCH 6
A 26	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 26A	5		SHLD A26					.20	NO			
			P2-F33					.19	NO		33	BRANCH 4
A 26B	5		P3-331					.19	NO		33	BRANCH 6
			SHLD A26					.20	NO			
A 26R			P2-F35					.19	NO		34	BRANCH 4
			P3-131					.19	NO		34	BRANCH 6
A 26Y			P2-F34					.19	NO		34	BRANCH 4
			P3-231					.19	NO		34	BRANCH 6
A 27	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 27A	5		SHLD A27					.20	NO			
			P2-H33					.19	NO		33	BRANCH 4
A 27B	5		P3-631					.19	NO		33	BRANCH 6
			SHLD A27					.20	NO			
A 27R			P2-H35					.19	NO		34	BRANCH 4
			P3-431					.19	NO		34	BRANCH 6
A 27Y			P2-H34					.19	NO		34	BRANCH 4
			P3-531					.19	NO		34	BRANCH 6
A 28	16				1.00	.75				68	37	
					1.75	1.50				68	37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 23 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28					.20	NO			
			E15					.19	NO			
A 28B	5		P7-54					.13	NO		29	
			SHLD A28					.20	NO			
A 28R			P3-132					.19	NO			BRANCH 6
			P7-78					.13	NO		29	
A 28Y			P3-232					.19	NO			BRANCH 6
			P7-53					.13	NO		29	
A 29	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 29A	5		SHLD A29					.20	NO			
			E16					.19	NO			
A 29B	5		P7-80					.13	NO		29	
			SHLD A29					.20	NO			
A 29R			P3-432					.19	NO			BRANCH 6
			P7-79					.13	NO		29	
A 29Y			P3-532					.19	NO			BRANCH 6
			P7-55					.13	NO		29	
A 30	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 30A	5		SHLD A30					.20	NO			
			E15					.19	NO			
A 30B	5		P7-33					.13	NO		29	
			SHLD A30					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 24 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133					.19	NO			BRANCH 6
			P7-16					.13	NO		29	
A 30Y			P3-233					.19	NO			BRANCH 6
			P7-32					.13	NO		29	
A 31	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 31A	5		SHLD A31					.20	NO			
			E16					.19	NO			
A 31B	5		P7-57					.13	NO		29	
			SHLD A31					.20	NO			
A 31R			P3-433					.19	NO			BRANCH 6
			P7-81					.13	NO		29	
A 31Y			P3-533					.19	NO			BRANCH 6
			P7-56					.13	NO		29	
A 32	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 32A	5		SHLD A32					.20	NO			
			E15					.19	NO			
A 32B	5		P7-35					.13	NO		29	
			SHLD A32					.20	NO			
A 32R			P3-134					.19	NO			BRANCH 6
			P7-34					.13	NO		29	
A 32Y			P3-234					.19	NO			BRANCH 6
			P7-17					.13	NO		29	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 25 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8					.19	NO		33	BRANCH 3
			P3-136					.19	NO		33	BRANCH 6
A 34	2		P2-K8					.19	NO		33	BRANCH 3
			P3-336					.19	NO		33	BRANCH 6
A 35	4		P3-113					.19	NO		34	O, BRANCH 5
			P4-514					.19	NO		34	BRANCH 8
A 36	4		P3-612					.19	NO		34	O, BRANCH 5
			P4-314					.19	NO		34	BRANCH 8
A 37	4		P3-512					.19	NO		34	O, BRANCH 5
			P4-414					.19	NO		34	BRANCH 8
A 38	4		P3-412					.19	NO		34	O, BRANCH 5
			P4-614					.19	NO		34	BRANCH 8
A 39	4		P3-312					.19	NO		34	O, BRANCH 5
			P4-313					.19	NO		34	BRANCH 8
A 40	4		P3-112					.19	NO		34	O, BRANCH 5
			P4-412					.19	NO		34	BRANCH 8
A 41	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 41A	5		SHLD A41					.20	NO			
			P3-111					.19	NO		33	BRANCH 5
A 41B	5		E4					.19	NO			
			SHLD A41					.20	NO			
A 41R			P3-311					.19	NO		34	BRANCH 5
			P4-515					.19	NO		34	BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 26 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 72A	5		SHLD A72 E12					.20 .19	NO NO			
A 72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A 72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A 72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A 73	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 73A	5		SHLD A73 E11					.20 .19	NO NO			
A 73B	5		P13-9 SHLD A73					.13 .20	NO NO		30	
A 73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A 73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A 74	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 74A	5		SHLD A74 E11					.20 .19	NO NO			
A 74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR A | SHEET 39 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A 74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A 75	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 75A	5		SHLD A75 E11					.20 .19	NO NO			
A 75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A 75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A 75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A 76	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 76A	5		SHLD A76 E11					.20 .19	NO NO			
A 76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A 76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A 76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR A | SHEET 40 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 77	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 77A	5		SHLD A77 E11					.20 .19	NO NO			
A 77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A 77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A 77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A 78	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 78A	5		SHLD A78 E11					.20 .19	NO NO		 70	
A 78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A 78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A 78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A 79	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR A | SHEET 41 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A 79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A 79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A 80	9											
A 80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A 80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A 81	9											
A 81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A 81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A 82	9											
A 82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A 82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR A | SHEET 42 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				68 68	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				68 68	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 43 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				68 68	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 44 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				68 68	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				68 68	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 45 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				68 68	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				68 68	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 46 OF 107

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	94A	5		SHLD A94 E13					.20 .19	NO NO			
A	94B	5		P13-52 SHLD A94					.13 .20	NO NO		30	
A	94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A	94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A	95	16				1.00 1.75	.75 1.50				68 68	37 37	
A	95A	5		SHLD A95 E13					.20 .19	NO NO		70	
A	95B	5		P13-54 SHLD A95					.13 .20	NO NO		30	
A	95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A	95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A	96	16				1.00 1.75	.75 1.50				68 68	37 37	
A	96A	5		SHLD A96 E5					.20 .19	NO NO		70	
A	96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 47 OF 107

MIL 2084 9-65

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A	96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A	97	16				1.00 1.75	.75 1.50				68 68	37 37	
A	97A	5		SHLD A97 E5					.20 .19	NO NO			
A	97B	5		P13-45 SHLD A97					.13 .20	NO NO		30	
A	97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A	97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A	98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P,BRANCH 4 BRANCH 9
A	99	7											
A	99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A	99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A	100	12											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 48 OF 107

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HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A	100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A	100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A	100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A	101	13											
A	101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A	101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A	101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A	101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A	102	7											
A	102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A	102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 49 OF 107

MIL 2084 9-65

HARNESS A 6010659

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	103	7											
A	103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A	103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A	104	7											
A	104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A	104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A	105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A	107	7											
A	107R			P8-L P11-M					.19 .19	NO NO		 31	
A	107Y			P8-H P11-B*					.19 .19	NO NO		 31	
A	108	10											
A	108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 50 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12					.19	NO		33	BRANCH 3
			P11-B					.19	NO			
A 1C8Y			P2-G12					.19	NO		33	BRANCH 3
			P11-C					.19	NO			
A 109	7											
A 109R			P2-A14					.19	NO		33	BRANCH 3
			P11-S					.19	NO		31	
A 109Y			P2-B14					.19	NO		33	BRANCH 3
			P11-T					.19	NO		31	
A 110	7											
A 110R			P2-H13					.19	NO		33	BRANCH 3
			P11-P					.19	NO			
A 110Y			P2-K13					.19	NO		33	BRANCH 3
			P11-R					.19	NO			
A 111	2		E43					.30	NO			LARGE END BR3
			P11-X					.25	NO			
A 112	9											
A 112R			P1-G15					.19	NO		34	BRANCH 1
			P2-H14					.19	NO		34	BRANCH 3
A 112Y			P1-G16					.19	NO		34	BRANCH 1
			P2-K14					.19	NO		34	BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14					.19	NO		33	BRANCH 1
			P11-X					.25	NO			
A 114	4		P1-B33					.19	NO		34	BRANCH 2
			P3-620					.19	NO		34	BRANCH 6
A 115	4		P1-B34					.19	NO		34	BRANCH 2
			P3-121					.19	NO		34	BRANCH 6
A 116	4		P1-C33					.19	NO		34	BRANCH 2
			P3-221					.19	NO		34	BRANCH 6
A 117	4		P1-C34					.19	NO		34	BRANCH 2
			P3-321					.19	NO		34	BRANCH 6
A 118	4		P1-D33					.19	NO		34	BRANCH 2
			P3-421					.19	NO		34	BRANCH 6
A 119	4		P1-D34					.19	NO		34	BRANCH 2
			P3-521					.19	NO		34	BRANCH 6
A 120	4		P1-F33					.19	NO		34	BRANCH 2
			P3-621					.19	NO		34	BRANCH 6
A 121	4		P1-F34					.19	NO		34	BRANCH 2
			P3-122					.19	NO		34	BRANCH 6
A 122	4		P1-G33					.19	NO		34	BRANCH 2
			P3-222					.19	NO		34	BRANCH 6
A 123	4		P1-G34					.19	NO		34	BRANCH 2
			P3-322					.19	NO		34	BRANCH 6
A 124	7											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26					.19	NO		33	BRANCH 4
			P14-35					.13	NO		30	
A 124Y			P2-B26					.19	NO		33	BRANCH 4
			P14-36					.13	NO		30	
A 125	7											
A 125R			P2-A28					.19	NO		33	BRANCH 4
			P14-37					.13	NO		30	
A 125Y			P2-B28					.19	NO		33	BRANCH 4
			P14-38					.13	NO		30	
A 126	7											
A 126R			P2-A30					.19	NO		33	BRANCH 4
			P14-39					.13	NO		30	
A 126Y			P2-B30					.19	NO		33	BRANCH 4
			P14-40					.13	NO		30	
A 127	9											
A 127R			P1-A15					.19	NO		34	BRANCH 1
			P2-B24					.19	NO		34	BRANCH 4
A 127Y			P1-A16					.19	NO		34	BRANCH 1
			P2-B25					.19	NO		33	BRANCH 4
A 128	8											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21					.19	NO		33	BRANCH 4
			P3-238					.19	NO		33	BRANCH 6
A 128Y			P2-A21					.19	NO		33	BRANCH 4
			P3-338					.19	NO		33	BRANCH 6
A 129	3		P2-B17					.19	NO		33	BRANCH 4
			P3-138					.19	NO		33	BRANCH 6
A 131	7											
A 131R			P8-K					.19	NO			
			P2-G4					.19	NO		33	BRANCH 3
A 131Y			P8-M					.19	NO			
			P2-G5					.19	NO		33	BRANCH 3
A 134	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 134A	5		SHLD A134					.20	NO			
			P2-G23					.19	NO		33	BRANCH 4
A 134B	5		E12					.19	NO			
			SHLD A134					.20	NO			
A 134R			P2-H23					.19	NO		34	BRANCH 4
			P4-324					.19	NO		34	BRANCH 9
A 134Y			P2-K23					.19	NO		34	BRANCH 4
			P4-424					.19	NO		34	BRANCH 9
A 135	16				1.00	.75				68	37	
					1.00	.75				68	37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135					.20	NO			
			P2-G24					.19	NO		33	BRANCH 4
A 135B	5		E12					.19	NO			
			SHLD A135					.20	NO			
A 135R			P2-H24					.19	NO		34	BRANCH 4
			P4-323					.19	NO		34	BRANCH 8
A 135Y			P2-K24					.19	NO		34	
			P4-423					.19	NO		34	
A 136	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 136A	5		SHLD A136					.20	NO			
			P2-G25					.19	NO		33	BRANCH 4
A 136B	5		E12					.19	NO		70	
			SHLD A136					.20	NO			
A 136R			P2-H25					.19	NO		34	BRANCH 4
			P4-322					.19	NO		34	BRANCH 8
A 136Y			P2-K25					.19	NO		34	BRANCH 4
			P4-422					.19	NO		34	BRANCH 8
A 137	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 137A	5		SHLD A137					.20	NO			
			P2-G21					.19	NO		33	BRANCH 4
A 137B	5		E4					.19	NO			
			SHLD A137					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 55 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21					.19	NO		34	BRANCH 4
			P4-316					.19	NO			BRANCH 8
A 137Y			P2-K21					.19	NO		34	BRANCH 4
			P4-416					.19	NO			BRANCH 8
A 139	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 139A	5		SHLD A139					.20	NO			
			P2-G22					.19	NO		33	BRANCH 4
A 139B	5		E4					.19	NO			
			SHLD A139					.20	NO			
A 139R			P2-H22					.19	NO		34	BRANCH 4
			P4-315					.19	NO		34	BRANCH 8
A 139Y			P2-K22					.19	NO		34	BRANCH 4
			P4-415					.19	NO		34	BRANCH 8
A 141	4		P1-C17					.19	NO		34	BRANCH 1
			P8-L					.19	NO			
A 143	11											
A 143G			P1-F15					.19	NO		34	BRANCH 1
			P2-D15					.19	NO		34	BRANCH 3
A 143R			P1-D16					.19	NO		34	BRANCH 1
			P2-G15					.19	NO		34	BRANCH 3
A 143Y			P1-F16					.19	NO		34	BRANCH 1
			P2-F15					.19	NO		34	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 56 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36					.19	NO		34	BRANCH 2
			P2-G28					.19	NO		34	BRANCH 4
A 144N			P1-A37					.19	NO		34	BRANCH 2
			P2-G31					.19	NO		34	BRANCH 4
A 144R			P1-B37					.19	NO		34	BRANCH 2
			P2-G30					.19	NO		34	BRANCH 4
A 144Y			P1-A36					.19	NO		34	BRANCH 2
			P2-G29					.19	NO		34	BRANCH 4
A 148	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 148A	5		SHLD A148					.20	NO			
			P1-A30					.19	NO		33	BRANCH 2
A 148B	6		P3-341					.19	NO			BRANCH 6
			SHLD A148					.20	NO			
A 148R			P1-A29					.19	NO		34	BRANCH 2
			P3-141					.19	NO		33	BRANCH 6
A 148Y			P1-A28					.19	NO		34	BRANCH 2
			P3-241					.19	NO		33	BRANCH 6
A 149	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 149A	5		SHLD A149					.20	NO			
			P1-B30					.19	NO		33	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 57 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641					.19	NO			BRANCH 6
			SHLD A149					.20	NO			
A 149R			P1-B29					.19	NO		34	BRANCH 2
			P3-441					.19	NO		33	BRANCH 6
A 149Y			P1-B28					.19	NO		34	BRANCH 2
			P3-541					.19	NO		33	BRANCH 6
A 150	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 150A	5		SHLD A150					.20	NO			
			P1-C30					.19	NO		33	BRANCH 2
A 150B	6		P3-343					.19	NO			BRANCH 7
			SHLD A150					.20	NO			
A 150R			P1-C29					.19	NO		34	BRANCH 2
			P3-143					.19	NO		33	BRANCH 7
A 150Y			P1-C28					.19	NO		34	BRANCH 2
			P3-243					.19	NO		33	BRANCH 7
A 151	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 151A	5		SHLD A151					.20	NO			
			P1-D30					.19	NO		33	BRANCH 2
A 151B	6		P3-643					.19	NO			BRANCH 7
			SHLD A151					.20	NO			
A 151R			P1-D29					.19	NO		34	BRANCH 2
			P3-443					.19	NO		33	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 58 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28					.19	NO		34	BRANCH 2
			P3-543					.19	NO		33	BRANCH 7
A 152	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 152A	5		SHLD A152					.20	NO			
			P1-F30					.19	NO		33	BRANCH 2
A 152B	6		P3-345					.19	NO			BRANCH 7
			SHLD A152					.20	NO			
A 152R			P1-F29					.19	NO		34	BRANCH 2
			P3-145					.19	NO		33	BRANCH 7
A 152Y			P1-F28					.19	NO		34	BRANCH 2
			P3-245					.19	NO		33	BRANCH 7
A 153	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 153A	5		SHLD A153					.20	NO			
			P1-G30					.19	NO		33	BRANCH 2
A 153B	6		P3-645					.19	NO			BRANCH 7
			SHLD A153					.20	NO			
A 153R			P1-G29					.19	NO		34	BRANCH 2
			P3-445					.19	NO		33	BRANCH 7
A 153Y			P1-G28					.19	NO		34	BRANCH 2
			P3-545					.19	NO		33	BRANCH 7
A 154	16				1.00	.75				68	37	
					1.00	.75				68	37	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 59 OF 107	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154					.20	NO			
			P1-A27					.19	NO		33	BRANCH 2
A 154B	6		P3-347					.19	NO			BRANCH 7
			SHLD A154					.20	NO			
A 154R			P1-A26					.19	NO		34	BRANCH 2
			P3-147					.19	NO		33	BRANCH 7
A 154Y			P1-A25					.19	NO		34	BRANCH 2
			P3-247					.19	NO		33	BRANCH 7
A 155	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 155A	5		SHLD A155					.20	NO			
			P1-B27					.19	NO		33	BRANCH 2
A 155B	6		P3-647					.19	NO			BRANCH 7
			SHLD A155					.20	NO			
A 155R			P1-B26					.19	NO		34	BRANCH 2
			P3-447					.19	NO		33	BRANCH 7
A 155Y			P1-B25					.19	NO		34	BRANCH 2
			P3-547					.19	NO		33	BRANCH 7
A 156	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 156A	5		SHLD A156					.20	NO			
			P1-C27					.19	NO		33	BRANCH 2
A 156B	6		P3-349					.19	NO			BRANCH 7
			SHLD A156					.20	NO			

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 60 OF 107	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26					.19	NO		34	BRANCH 2
			P3-149					.19	NO		33	BRANCH 7
A 156Y			P1-C25					.19	NO		34	BRANCH 2
			P3-249					.19	NO		33	BRANCH 7
A 157	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 157A	5		SHLD A157					.20	NO			
			P1-D27					.19	NO		33	BRANCH 2
A 157B	6		P3-649					.19	NO			BRANCH 7
			SHLD A157					.20	NO			
A 157R			P1-D26					.19	NO		34	BRANCH 2
			P3-449					.19	NO		33	BRANCH 7
A 157Y			P1-D25					.19	NO		34	BRANCH 2
			P3-549					.19	NO		33	BRANCH 7
A 158	3		P1-A33					.19	NO		33	BRANCH 2
			P3-119					.19	NO		33	BRANCH 6
A 159	4		P1-A34					.19	NO		34	BRANCH 2
			P3-422					.19	NO		34	BRANCH 6
A 160	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 160A	5		SHLD A160					.20	NO			
			P1-C37					.19	NO		33	BRANCH 2
A 160B	5		E15					.19	NO			
			SHLD A160					.20	NO			

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 61 OF 107	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37					.19	NO		34	BRANCH 2
			P3-132					.19	NO		33	BRANCH 6
A 160Y			P1-F37					.19	NO		34	BRANCH 2
			P3-232					.19	NO		33	BRANCH 6
A 161	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 161A	5		SHLD A161					.20	NO			
			P1-C38					.19	NO		33	BRANCH 2
A 161B	5		E16					.19	NO			
			SHLD A161					.20	NO			
A 161R			P1-D38					.19	NO		34	BRANCH 2
			P3-432					.19	NO		33	BRANCH 6
A 161Y			P1-F38					.19	NO		34	BRANCH 2
			P3-532					.19	NO		33	BRANCH 6
A 162	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 162A	5		SHLD A162					.20	NO			
			P1-C39					.19	NO		33	BRANCH 2
A 162B	5		E15					.19	NO		70	
			SHLD A162					.20	NO			
A 162R			P1-D39					.19	NO		34	BRANCH 2
			P3-133					.19	NO		33	BRANCH 6
A 162Y			P1-F39					.19	NO		34	BRANCH 2
			P3-233					.19	NO		33	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 62 OF 107	

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-102					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-8					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 63 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 64 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 65 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 66 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B,BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B,BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B,BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B,BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B,BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B,BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B,BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B,BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B,BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G,BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 79 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G,BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G,BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A,BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A,BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B,BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		 31	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 80 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		 31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 81 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 82 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				68 68	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 83 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				68 68	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO		 70	
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	O,BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 84 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 85 OF 107

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H,BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H,BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H,BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H,BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H,BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H,BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H,BRANCH 8

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR A | SHEET 86 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H,BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H,BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H,BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H,BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H,BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H,BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H,BRANCH 8
A 414	4		P4-611 P9-58					.19 .13	NO NO		34 29	H,BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H,BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 87 OF 107	

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N,BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 88 OF 107	

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 89 OF 107	

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-79					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				68 68	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		 33	 BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 90 OF 107	

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-D35 P4-129					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 462Y			P1-F35 P4-229					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463	16				1.00 1.00	.75 .75				7 6B	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO		70	
A 463R			P1-D36 P4-128					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463Y			P1-F36 P4-228					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 464	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO		70	
A 464B	5		E21 SHLD A464					.19 .20	NO NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 95 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	NO NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 96 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N,BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29	B
A 476	2		P5-74					.13	NO		29	B
A 477	15				1.00 1.75	.75 1.50				6B 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			LARGE END
A 477B	5		E20 SHLD A477					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 97 OF 107

MIL 2084 9-65

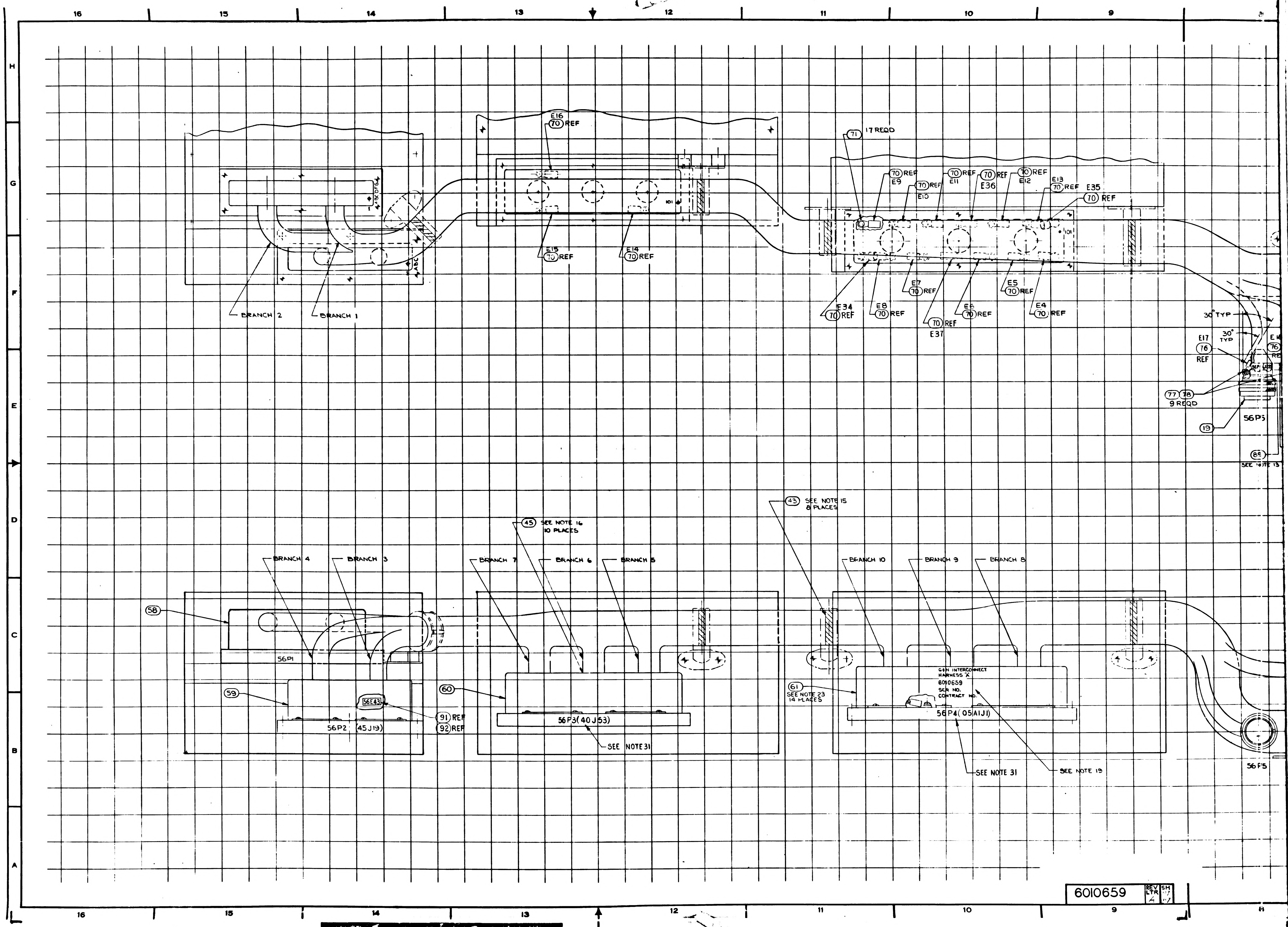
HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				6B 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	NO NO		76	
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J,BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J,BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J,BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 98 OF 107

MIL 2084 9-65

6010659


16
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C
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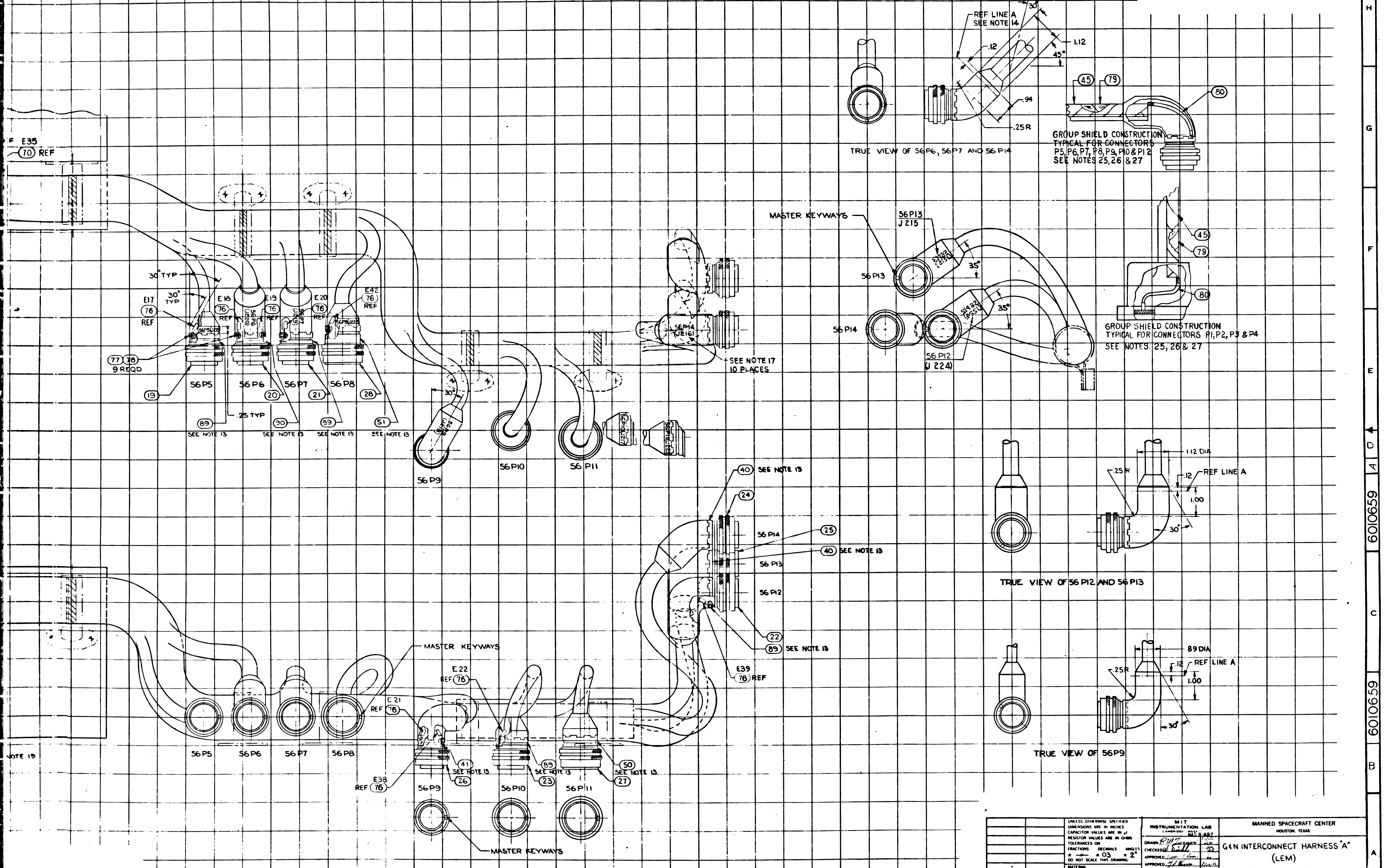
A
E16
70 REF
71 17 REQD
70 REF E9
70 REF E10
70 REF E11
70 REF E36
70 REF E12
E13 70 REF
E35 70 REF
101
E15 70 REF
E14 70 REF
E7 70 REF
E5 70 REF
E34 70 REF
E8 70 REF
E37 70 REF
E6 70 REF
E4 70 REF
BRANCH 2
BRANCH 1
30° TYP
30° TYP
E17 76 REF
E1 76 RE
77 78 9 REQD
19
56P5
89 SEE NOTE 13
43 SEE NOTE 15 8 PLACES
45 SEE NOTE 16 10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
58
56P1
59
56E43
56P2 (45J19)
91 REF
92 REF
60
56P3(40J53)
SEE NOTE 31
61 SEE NOTE 23 14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010659
SER NO.
CONTRACT NO.
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
56P5
6010659
REV LTR 4
SH 17

1/6010659

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



F E35
70 REF
30° TYP
30° TYP
E17
76
REF
E18
76
REF
E19
76
REF
E20
76
E42
76
REF
77 78
9 REQD
19
56P5
56P6
56P7
56P8
20
21
28
.25 TYP
89
SEE NOTE 13
30
SEE NOTE 13
89
SEE NOTE 13
51
SEE NOTE 13
30°
56P9
56P10
56P11
56P14 (J216)
SEE NOTE 17
10 PLACES
REF LINE A
SEE NOTE 14
30
.12
1.12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
45
79
80
GROUP SHIELD CONSTRUCTION
TYPICAL FOR CONNECTORS
P5, P6, P7, P8, P9, P10 & P12
SEE NOTES 25, 26 & 27
MASTER KEYWAYS
56P13
J215
35°
56P13
56P14
56P12
(J224)
35°
45
79
80
GROUP SHIELD CONSTRUCTION
TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25, 26 & 27
1.12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
40 SEE NOTE 13
24
56P14
25
40 SEE NOTE 13
56P13
56P12
22
89 SEE NOTE 13
E39
76 REF
.89 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
NOTE 13
MASTER KEYWAYS
E22
REF 76
E21
REF 76
56P5
56P6
56P7
56P8
41
SEE NOTE 13
26
89
SEE NOTE 13
23
50
SEE NOTE 13
27
E38
REF 76
56P9
56P10
56P11
MASTER KEYWAYS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.03 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL —

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN R W Turner 1 Jul 66
CHECKED W Diehl 1 Jul 66
APPROVED
APPROVED 8/4/66
APPROVED CCB 9/12/66
APPROVED MSC 9/23/66
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A"
(LEM)

CODE IDENT NO	SIZE	DRAWING NO
80230	J	6010659

SCALE 1/1 SHEET 107 OF 107

6010659 REV LTR A SH 107

6010659

2/6010659

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 7 OF 107	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010659-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010659-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010659-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010659-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010659-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010659-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010659-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010659-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010659-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010659-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010659-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010659-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010659-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 8 OF 107	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010659-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010659-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	17	1	6010659-017	WIRE PER QQ-W-343, TYPE C, CLASS C UNCOATED, SILVER PLATED, 22AWG, 300 FT TOT LG
	18	1	6010659-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR A	SHEET 9 OF 107	

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947
9	33	261	1010955-1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE
11	36	6	1010958- 5	PLUG, PROTECTIVE
9	37	228	1010402- 2	SLEEVE, SOLDER
	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	44	AR	1012507- 4	TAPE, LACING
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
	53	AR	1010661	EPOXY RESIN
	54	AR	1010679	ADHESIVE, ACTIVATOR

SIZE A	CODE IDENT NO. 80230	6010659	
SCALE-NONE	REV LTR B	SHEET 10 OF 107	

HARNESS A ▼ 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				68 68	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		33	BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				68 68	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		33	BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 19 OF 107	

HARNESS A ▼ 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				68 68	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		33	BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				68 68	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		33	BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		30	BRANCH 7
A 20	8											

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 20 OF 107	

HARNESS A ▼ 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				68 68	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		33	BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				68 68	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		33	BRANCH 4

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 21 OF 107	

HARNESS A ▼ 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				68 68	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		33	BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				68 68	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		33	BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR A	SHEET 22 OF 107	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34 P3-530					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26	16				1.00 1.00	.75 .75				68 68	37 37	
A 26A	5		SHLD A26 P2-F33					.20 .19	NO NO		33	BRANCH 4
A 26B	5		P3-331 SHLD A26					.19 .20	NO NO		33	BRANCH 6
A 26R			P2-F35 P3-131					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26Y			P2-F34 P3-231					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 27	16				1.00 1.00	.75 .75				68 68	37 37	
A 27A	5		SHLD A27 P2-H33					.20 .19	NO NO		33	BRANCH 4
A 27B	5		P3-631 SHLD A27					.19 .20	NO NO		33	BRANCH 6
A 27R			P2-H35 P3-431					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 27Y			P2-H34 P3-531					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 28	16				1.00 1.75	.75 1.50				68 68	37 37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28 E15					.20 .19	NO NO			
A 28B	5		P7-54 SHLD A28					.13 .20	NO NO		29	
A 28R			P3-132 P7-78					.19 .13	NO NO		29	BRANCH 6
A 28Y			P3-232 P7-53					.19 .13	NO NO		29	BRANCH 6
A 29	16				1.00 1.75	.75 1.50				68 68	37 37	
A 29A	5		SHLD A29 E16					.20 .19	NO NO			
A 29B	5		P7-80 SHLD A29					.13 .20	NO NO		29	
A 29R			P3-432 P7-79					.19 .13	NO NO		29	BRANCH 6
A 29Y			P3-532 P7-55					.19 .13	NO NO		29	BRANCH 6
A 30	16				1.00 1.75	.75 1.50				68 68	37 37	
A 30A	5		SHLD A30 E15					.20 .19	NO NO			
A 30B	5		P7-33 SHLD A30					.13 .20	NO NO		29	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133 P7-16					.19 .13	NO NO		29	BRANCH 6
A 30Y			P3-233 P7-32					.19 .13	NO NO		29	BRANCH 6
A 31	16				1.00 1.75	.75 1.50				68 68	37 37	
A 31A	5		SHLD A31 E16					.20 .19	NO NO			
A 31B	5		P7-57 SHLD A31					.13 .20	NO NO		29	
A 31R			P3-433 P7-81					.19 .13	NO NO		29	BRANCH 6
A 31Y			P3-533 P7-56					.19 .13	NO NO		29	BRANCH 6
A 32	16				1.00 1.75	.75 1.50				68 68	37 37	
A 32A	5		SHLD A32 E15					.20 .19	NO NO			
A 32B	5		P7-35 SHLD A32					.13 .20	NO NO		29	
A 32R			P3-134 P7-34					.19 .13	NO NO		29	BRANCH 6
A 32Y			P3-234 P7-17					.19 .13	NO NO		29	BRANCH 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8 P3-136					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 34	2		P2-K8 P3-336					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 35	4		P3-113 P4-514					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 36	4		P3-612 P4-314					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 37	4		P3-512 P4-414					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 38	4		P3-412 P4-614					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 39	4		P3-312 P4-313					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 40	4		P3-112 P4-412					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 41	16				1.00 1.00	.75 .75				68 68	37 37	
A 41A	5		SHLD A41 P3-111					.20 .19	NO NO		33	BRANCH 5
A 41B	5		E4 SHLD A41					.19 .20	NO NO			
A 41R			P3-311 P4-515					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63	16				1.00 1.00	.75 .75				68 68	37 37	
A 63A	5		SHLD A63 P3-101					.20 .19	NO NO		33	BRANCH 5
A 63B	5		E9 SHLD A63					.19 .20	NO NO			
A 63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 64	16				1.00 1.75	.75 1.50				68 68	37 37	
A 64A	6		SHLD A64 P3-649					.20 .19	NO NO		33	BRANCH 7
A 64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A 64R			P3-449 P12-64					.19 .13	NO NO		30	BRANCH 7
A 64Y			P3-549 P12-65					.19 .13	NO NO		30	BRANCH 7

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SCALE-NONE	REV LTR A	SHEET 35 OF 107

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00 1.75	.75 1.50				68 68	37 37	
A 65A	5		SHLD A65 E14					.20 .19	NO NO			
A 65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A 65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A 65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A 66	16				1.00 1.75	.75 1.50				68 68	37 37	
A 66A	5		SHLD A66 E14					.20 .19	NO NO			
A 66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A 66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A 66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A 67	16				1.00 1.75	.75 1.50				68 68	37 37	
A 67A	5		SHLD A67 E14					.20 .19	NO NO			

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 36 OF 107

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HARNESS A

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A 67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A 67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A 68	16				1.00 1.75	.75 1.50				68 68	37 37	
A 68A	5		SHLD A68 E14					.20 .19	NO NO			
A 68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A 68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A 68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A 69	16				1.00 1.75	.75 1.50				68 68	37 37	
A 69A	5		SHLD A69 E14					.20 .19	NO NO			
A 69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A 69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 37 OF 107

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A 70	16				1.00 1.75	.75 1.50				68 68	37 37	
A 70A	5		SHLD A70 E14					.20 .19	NO NO			
A 70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A 70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A 70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A 71	16				1.00 1.75	.75 1.50				68 68	37 37	
A 71A	5		SHLD A71 E14					.20 .19	NO NO		70	
A 71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A 71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A 71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A 72	15				1.00 1.75	.75 1.50				68 68	37 37	

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR A	SHEET 38 OF 107

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HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135 P2-G24					.20 .19	NO NO		33	BRANCH 4
A 135B	5		E12 SHLD A135					.19 .20	NO NO			
A 135R			P2-H24 P4-323					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135Y			P2-K24 P4-423					.19 .19	NO NO		34 34	
A 136	16				1.00 1.00	.75 .75				68 68	37 37	
A 136A	5		SHLD A136 P2-G25					.20 .19	NO NO		33	BRANCH 4
A 136B	5		E12 SHLD A136					.19 .20	NO NO		70	
A 136R			P2-H25 P4-322					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 136Y			P2-K25 P4-422					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 137	16				1.00 1.00	.75 .75				68 68	37 37	
A 137A	5		SHLD A137 P2-G21					.20 .19	NO NO		33	BRANCH 4
A 137B	5		E4 SHLD A137					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 55 OF 107

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21 P4-316					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 137Y			P2-K21 P4-416					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 139	16				1.00 1.00	.75 .75				68 68	37 37	
A 139A	5		SHLD A139 P2-G22					.20 .19	NO NO		33	BRANCH 4
A 139B	5		E4 SHLD A139					.19 .20	NO NO			
A 139R			P2-H22 P4-315					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 139Y			P2-K22 P4-415					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 141	4		P1-C17 P8-L					.19 .19	NO NO		34	BRANCH 1
A 143	11											
A 143G			P1-F15 P2-D15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143R			P1-D16 P2-G15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143Y			P1-F16 P2-F15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 56 OF 107

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36 P2-G28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144N			P1-A37 P2-G31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144R			P1-B37 P2-G30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144Y			P1-A36 P2-G29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 148	16				1.00 1.00	.75 .75				68 68	37 37	
A 148A	5		SHLD A148 P1-A30					.20 .19	NO NO		33	BRANCH 2
A 148B	6		P3-341 SHLD A148					.19 .20	NO NO			BRANCH 6
A 148R			P1-A29 P3-141					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 148Y			P1-A28 P3-241					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149	16				1.00 1.00	.75 .75				68 68	37 37	
A 149A	5		SHLD A149 P1-B30					.20 .19	NO NO		33	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 57 OF 107

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641 SHLD A149					.19 .20	NO NO			BRANCH 6
A 149R			P1-B29 P3-441					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149Y			P1-B28 P3-541					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 150	16				1.00 1.00	.75 .75				68 68	37 37	
A 150A	5		SHLD A150 P1-C30					.20 .19	NO NO		33	BRANCH 2
A 150B	6		P3-343 SHLD A150					.19 .20	NO NO			BRANCH 7
A 150R			P1-C29 P3-143					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 150Y			P1-C28 P3-243					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 151	16				1.00 1.00	.75 .75				68 68	37 37	
A 151A	5		SHLD A151 P1-D30					.20 .19	NO NO		33	BRANCH 2
A 151B	6		P3-643 SHLD A151					.19 .20	NO NO			BRANCH 7
A 151R			P1-D29 P3-443					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 58 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28 P3-543					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152	16				1.00 1.00	.75 .75				68 68	37 37	
A 152A	5		SHLD A152 P1-F30					.20 .19	NO NO		33	BRANCH 2
A 152B	6		P3-345 SHLD A152					.19 .20	NO NO			BRANCH 7
A 152R			P1-F29 P3-145					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152Y			P1-F28 P3-245					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153	16				1.00 1.00	.75 .75				68 68	37 37	
A 153A	5		SHLD A153 P1-G30					.20 .19	NO NO		33	BRANCH 2
A 153B	6		P3-645 SHLD A153					.19 .20	NO NO			BRANCH 7
A 153R			P1-G29 P3-445					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153Y			P1-G28 P3-545					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154	16				1.00 1.00	.75 .75				68 68	37 37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154 P1-A27					.20 .19	NO NO		33	BRANCH 2
A 154B	6		P3-347 SHLD A154					.19 .20	NO NO			BRANCH 7
A 154R			P1-A26 P3-147					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154Y			P1-A25 P3-247					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155	16				1.00 1.00	.75 .75				68 68	37 37	
A 155A	5		SHLD A155 P1-B27					.20 .19	NO NO		33	BRANCH 2
A 155B	6		P3-647 SHLD A155					.19 .20	NO NO			BRANCH 7
A 155R			P1-B26 P3-447					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155Y			P1-B25 P3-547					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156	16				1.00 1.00	.75 .75				68 68	37 37	
A 156A	5		SHLD A156 P1-C27					.20 .19	NO NO		33	BRANCH 2
A 156B	6		P3-349 SHLD A156					.19 .20	NO NO			BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26 P3-149					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156Y			P1-C25 P3-249					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157	16				1.00 1.00	.75 .75				68 68	37 37	
A 157A	5		SHLD A157 P1-D27					.20 .19	NO NO		33	BRANCH 2
A 157B	6		P3-649 SHLD A157					.19 .20	NO NO			BRANCH 7
A 157R			P1-D26 P3-449					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157Y			P1-D25 P3-549					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 158	3		P1-A33 P3-119					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 6
A 159	4		P1-A34 P3-422					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 160	16				1.00 1.00	.75 .75				68 68	37 37	
A 160A	5		SHLD A160 P1-C37					.20 .19	NO NO		33	BRANCH 2
A 160B	5		E15 SHLD A160					.19 .20	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37 P3-132					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 160Y			P1-F37 P3-232					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161	16				1.00 1.00	.75 .75				68 68	37 37	
A 161A	5		SHLD A161 P1-C38					.20 .19	NO NO		33	BRANCH 2
A 161B	5		E16 SHLD A161					.19 .20	NO NO			
A 161R			P1-D38 P3-432					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161Y			P1-F38 P3-532					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162	16				1.00 1.00	.75 .75				68 68	37 37	
A 162A	5		SHLD A162 P1-C39					.20 .19	NO NO		33	BRANCH 2
A 162B	5		E15 SHLD A162					.19 .20	NO NO		70	
A 162R			P1-D39 P3-133					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162Y			P1-F39 P3-233					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-D5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 68 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	NO NO			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 9
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 9

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 69 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	NO NO		76	
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 9
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 9
A 250	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO		70	
A 250B	5		E19 SHLD A250					.19 .20	NO NO			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 9
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 9
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E,BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR A
SHEET 70 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B,BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B,BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B,BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B,BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B,BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B,BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B,BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B,BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B,BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G,BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 79 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G,BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G,BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A,BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A,BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B,BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		 31	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 80 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		 31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 81 OF 107

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 82 OF 107

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				68 68	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 83 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-B3 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				68 68	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO		 70	
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	O,BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 84 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 85 OF 107

MIL 2084 9-65

HARNESS A 6010659

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H,BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H,BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H,BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H,BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H,BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H,BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H,BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR A	SHEET 86 OF 107

MIL 2084 9-65

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
6014515	6014515	A	INITIAL RELEASE CLASS A PER TDRR 31139	7 Jul '66	WD.
		B	REVISED PER TDRR 31207	4 OCT. 66	ME
		C	REVISED PER TDRR 31210	25 OCT 66	EC

REV	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45

REV STATUS OF SHEETS																							
REV					C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

I. Keahn 29 JUN 66
DRAFTSMAN DAY MO YR
W. Diehl 1 JUL '66
CHECKER
NEA D. Datta 5 JUL 66
ENGINEER
APPROVAL 8/1/66
CONTR NO. NAS 9-497

NASA APPROVAL R. Jacob
CCB APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS A
(LEM)

SIZE	CODE IDENT. NO	
A	80230	6010659
SCALE NONE		SHEET 1 OF 109

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	C	80	C														
47	C	81	C														
48	C	82	C														
49	C	83	C														
50	C	84	C														
51	C	85	C														
52	C	86	C														
53	C	87	C														
54	C	88	C														
55	C	89	C														
56	C	90	C														
57	C	91	C														
58	C	92	C														
59	C	93	C														
60	C	94	C														
61	C	95	C														
62	C	96	C														
63	C	97	C														
64	C	98	C														
65	C	99	C														
66	C	100	C														
67	C	101	C														
68	C	102	C														
69	C	103	C														
70	C	104	C														
71	C	105	C														
72	C	106	C														
73	C	107	C														
74	C	108	C														
75	C	109	C														
76	C																
77	C																
78	C																
79	C																

SIZE	CODE IDENT. NO.	
A	80230	6010659
SCALE NONE	REV LTR C	SHEET 2 OF 109

MIL 1377A3 8-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6014504.

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 3 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

10 CRIMP CONTACTS PER ND1002032.

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
CONNECTOR 56P8, USE ITEM NUMBER 36
CONNECTOR 56P11, USE ITEM NUMBER 62
CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

12 LACE HARNESS PER ND1002032 USING ITEM 44.

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019, CENTRALIZE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 4 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

27 DELETED

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 5 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

SIZE A	CODE IDENT NO. 80230	6010659
SCALE-NONE	REV LTR C	SHEET 6 OF

FORM 2084 9-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 7 OF

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010659-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010659-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010659-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010659-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010659-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010659-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010659-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010659-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010659-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010659-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010659-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010659-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010659-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 8 OF

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010659-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010659-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	17		6010659-017	DELETED
	18	1	6010659-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
9	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 9 OF

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE
11	36	6	1010958- 5	PLUG, PROTECTIVE
9	37	228	1010402- 2	SLEEVE, SOLDER
	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	44	AR	1012507- 4	TAPE, LACING
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
	53	AR	1010661	EPOXY RESIN
	54	AR	1010679	ADHESIVE, ACTIVATOR
	57	AR	1012504	PRIMER, METAL PARTS

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 10 OF

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 72A	5		SHLD A72 E12					.20 .19	NO NO			
A 72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A 72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A 72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A 73	16				1.00 1.75	.75 1.50				68 68	37 37	
A 73A	5		SHLD A73 E11					.20 .19	NO NO			
A 73B	5		P13-9 SHLD A73					.13 .20	NO NO		30	
A 73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A 73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A 74	16				1.00 1.75	.75 1.50				68 68	37 37	
A 74A	5		SHLD A74 E11					.20 .19	NO NO			
A 74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 39 OF

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CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A 74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A 75	16				1.00 1.75	.75 1.50				68 68	37 37	
A 75A	5		SHLD A75 E11					.20 .19	NO NO			
A 75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A 75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A 75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A 76	16				1.00 1.75	.75 1.50				68 68	37 37	
A 76A	5		SHLD A76 E11					.20 .19	NO NO			
A 76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A 76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A 76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 40 OF

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CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77	16				1.00 1.75	.75 1.50				68 68	37 37	
A 77A	5		SHLD A77 E11					.20 .19	NO NO			
A 77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A 77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A 77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A 78	16				1.00 1.75	.75 1.50				68 68	37 37	
A 78A	5		SHLD A78 E11					.20 .19	NO NO		70	
A 78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A 78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A 78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A 79	16				1.00 1.75	.75 1.50				68 68	37 37	
A 79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 41 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A 79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A 79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A 80	9											
A 80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A 80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A 81	9											
A 81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A 81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A 82	9											
A 82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A 82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 42 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				68 68	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				68 68	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 43 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				68 68	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 44 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				68 68	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				68 68	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 45 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				68 68	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				68 68	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 46 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135 P2-G24					.20 .19	NO NO		33	BRANCH 4
A 135B	5		E12 SHLD A135					.19 .20	NO NO			
A 135R			P2-H24 P4-323					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135Y			P2-K24 P4-423					.19 .19	NO NO		34 34	
A 136	16				1.00 1.00	.75 .75				68 68	37 37	
A 136A	5		SHLD A136 P2-G25					.20 .19	NO NO		33	BRANCH 4
A 136B	5		E12 SHLD A136					.19 .20	NO NO		70	
A 136R			P2-H25 P4-322					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 136Y			P2-K25 P4-422					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 137	16				1.00 1.00	.75 .75				68 68	37 37	
A 137A	5		SHLD A137 P2-G21					.20 .19	NO NO		33	BRANCH 4
A 137B	5		E4 SHLD A137					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 55 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21 P4-316					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 137Y			P2-K21 P4-416					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 139	16				1.00 1.00	.75 .75				68 68	37 37	
A 139A	5		SHLD A139 P2-G22					.20 .19	NO NO		33	BRANCH 4
A 139B	5		E4 SHLD A139					.19 .20	NO NO			
A 139R			P2-H22 P4-315					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 139Y			P2-K22 P4-415					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 141	4		P1-C17 P8-L					.19 .19	NO NO		34	BRANCH 1
A 143	11											
A 143G			P1-F15 P2-D15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143R			P1-D16 P2-G15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143Y			P1-F16 P2-F15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 56 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36 P2-G28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144N			P1-A37 P2-G31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144R			P1-B37 P2-G30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144Y			P1-A36 P2-G29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 148	16				1.00 1.00	.75 .75				68 68	37 37	
A 148A	5		SHLD A148 P1-A30					.20 .19	NO NO		33	BRANCH 2
A 148B	6		P3-341 SHLD A148					.19 .20	NO NO			BRANCH 6
A 148R			P1-A29 P3-141					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 148Y			P1-A28 P3-241					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149	16				1.00 1.00	.75 .75				68 68	37 37	
A 149A	5		SHLD A149 P1-B30					.20 .19	NO NO		33	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 57 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641 SHLD A149					.19 .20	NO NO			BRANCH 6
A 149R			P1-B29 P3-441					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149Y			P1-B28 P3-541					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 150	16				1.00 1.00	.75 .75				68 68	37 37	
A 150A	5		SHLD A150 P1-C30					.20 .19	NO NO		33	BRANCH 2
A 150B	6		P3-343 SHLD A150					.19 .20	NO NO			BRANCH 7
A 150R			P1-C29 P3-143					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 150Y			P1-C28 P3-243					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 151	16				1.00 1.00	.75 .75				68 68	37 37	
A 151A	5		SHLD A151 P1-D30					.20 .19	NO NO		33	BRANCH 2
A 151B	6		P3-643 SHLD A151					.19 .20	NO NO			BRANCH 7
A 151R			P1-D29 P3-443					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 58 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28 P3-543					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 152A	5		SHLD A152 P1-F30					.20 .19	NO NO		33	BRANCH 2
A 152B	6		P3-345 SHLD A152					.19 .20	NO NO			BRANCH 7
A 152R			P1-F29 P3-145					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152Y			P1-F28 P3-245					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 153A	5		SHLD A153 P1-G30					.20 .19	NO NO		33	BRANCH 2
A 153B	6		P3-645 SHLD A153					.19 .20	NO NO			BRANCH 7
A 153R			P1-G29 P3-445					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153Y			P1-G28 P3-545					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154	16				1.00 1.00	.75 .75				6B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 59 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154 P1-A27					.20 .19	NO NO		33	BRANCH 2
A 154B	6		P3-347 SHLD A154					.19 .20	NO NO			BRANCH 7
A 154R			P1-A26 P3-147					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154Y			P1-A25 P3-247					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 155A	5		SHLD A155 P1-B27					.20 .19	NO NO		33	BRANCH 2
A 155B	6		P3-647 SHLD A155					.19 .20	NO NO			BRANCH 7
A 155R			P1-B26 P3-447					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155Y			P1-B25 P3-547					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 156A	5		SHLD A156 P1-C27					.20 .19	NO NO		33	BRANCH 2
A 156B	6		P3-349 SHLD A156					.19 .20	NO NO			BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 60 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26 P3-149					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156Y			P1-C25 P3-249					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 157A	5		SHLD A157 P1-D27					.20 .19	NO NO		33	BRANCH 2
A 157B	6		P3-649 SHLD A157					.19 .20	NO NO			BRANCH 7
A 157R			P1-D26 P3-449					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157Y			P1-D25 P3-549					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 158	3		P1-A33 P3-119					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 6
A 159	4		P1-A34 P3-422					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 160	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 160A	5		SHLD A160 P1-C37					.20 .19	NO NO		33	BRANCH 2
A 160B	5		E15 SHLD A160					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 61 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37 P3-132					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 160Y			P1-F37 P3-232					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 161A	5		SHLD A161 P1-C38					.20 .19	NO NO		33	BRANCH 2
A 161B	5		E16 SHLD A161					.19 .20	NO NO			
A 161R			P1-D38 P3-432					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161Y			P1-F38 P3-532					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 162A	5		SHLD A162 P1-C39					.20 .19	NO NO		33	BRANCH 2
A 162B	5		E15 SHLD A162					.19 .20	NO NO		70	
A 162R			P1-D39 P3-133					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162Y			P1-F39 P3-233					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 62 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-102					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-8					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 63 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 64 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 65 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 66 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 67 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 68 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	YES YES			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 9
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 69 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A ▼ 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	YES YES		76	
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 9
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 9
A 250	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO		70	
A 250B	5		E19 SHLD A250					.19 .20	YES YES			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 9
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 9
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 70 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B,BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B,BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B,BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B,BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B,BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B,BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B,BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B,BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B,BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G,BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 79 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G,BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G,BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A,BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A,BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B,BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		 31	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 80 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		 31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 81 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 82 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				68 68	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				68 68	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO		70	
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	O,BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H,BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H,BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H,BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H,BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H,BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H,BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H,BRANCH 8

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H,BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H,BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H,BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H,BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H,BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H,BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H,BRANCH 8
A 414	4		P4-611 P9-58					.19 .13	NO NO		34 29	H,BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H,BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 87 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 428	10											N
A 428G			P4-361 P6-D					.19 .19	NO NO		33	N,BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 88 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 89 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-79					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				68 68	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		33	BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 90 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 443A	5		SHLD A443 P1-F23					.20 .19	NO NO		33	BRANCH 1
A 443B	6		P3-348 SHLD A443					.19 .20	NO NO			BRANCH 7
A 443R			P1-F21 P3-148					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 443Y			P1-F22 P3-248					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 444A	5		SHLD A444 P1-C23					.20 .19	NO NO		33	BRANCH 1
A 444B	6		P3-648 SHLD A444					.19 .20	NO NO			BRANCH 7
A 444R			P1-C21 P3-448					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444Y			P1-C22 P3-548					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 445A	5		SHLD A445 P1-B23					.20 .19	NO NO		33	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 91 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346 SHLD A445					.19 .20	NO NO			BRANCH 7
A 445R			P1-B21 P3-146					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445Y			P1-B22 P3-246					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 446	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 446A	5		SHLD A446 P1-B17					.20 .19	NO NO		33	BRANCH 1
A 446B	5		E4 SHLD A446					.19 .20	NO NO		70	
A 446R			P1-B16 P4-316					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 446Y			P1-B15 P4-416					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 448	9											
A 448R			P1-A31 P2-A27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 448Y			P1-B31 P2-B27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449	9											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 92 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31 P2-A29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449Y			P1-D31 P2-B29					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 4
A 450	9											
A 450R			P1-F31 P2-A31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450Y			P1-G31 P2-B31					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 4
A 451	2		P6-85 E18					.13 .19	NO YES		29	
A 452	4		P1-G11 P6-74					.19 .13	NO NO		34 29	BRANCH 1
A 453	4		P1-F11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 454	4		P1-G9 P10-24					.19 .13	NO NO		34 30	BRANCH 1
A 455	4		P1-C13 P10-26					.19 .13	NO NO		34 30	BRANCH 1
A 456	4		P1-C7 P10-33					.19 .13	NO NO		34 30	BRANCH 1
A 457	4		P1-B7 P10-56					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 93 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7 P10-81					.19 .13	NO NO		34 30	BRANCH 1
A 460	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 460A	5		SHLD A460 E6					.20 .19	NO NO			
A 460B	5		E19 SHLD A460					.19 .20	YES YES			
A 460R			P4-129 P6-62					.19 .13	NO NO		29	BRANCH 9
A 460Y			P4-229 P6-38					.19 .13	NO NO		29	BRANCH 9
A 461	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 461A	5		SHLD A461 E6					.20 .19	NO NO			
A 461B	5		E19 SHLD A461					.19 .20	YES NO		76	
A 461R			P4-128 P6-64					.19 .13	NO NO		29	BRANCH 9
A 461Y			P4-228 P6-39					.19 .13	NO NO		29	BRANCH 9
A 462	16				1.00 1.00	.75 .75				7 6B	38 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 94 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-D35 P4-129					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 462Y			P1-F35 P4-229					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463	16				1.00 1.00	.75 .75				7 6B	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO		70	
A 463R			P1-D36 P4-128					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463Y			P1-F36 P4-228					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 464	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO		70	
A 464B	5		E21 SHLD A464					.19 .20	YES NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR C | SHEET 95 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	YES NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR C | SHEET 96 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N, BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29 93	B
A 476	2		P5-74					.13	NO		29 93	B
A 477	15				1.00 1.75	.75 1.50				6B 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			LARGE END
A 477B	5		E20 SHLD A477					.19 .20	YES NO			

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR C | SHEET 97 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				6B 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	YES NO		76	
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J, BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J, BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J, BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010659
SCALE-NONE | REV LTR C | SHEET 98 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J,BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J,BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J,BRANCH 10
A 486	4		P4-644 P6-9					.18 .13	NO NO		34 29	J,BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J,BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J,BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J,BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J,BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C,BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C,BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C,BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 99 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J,BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J,BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J,BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F,BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F,BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F,BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F,BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F,BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F,BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F,BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F,BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 100 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F,BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F,BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J,BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J,BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J,BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J,BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J,BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J,BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J,BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J,BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J,BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 101 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J,BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J,BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J,BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J,BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J,BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D,BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D,BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D,BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J,BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J,BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J,BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 102 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 586	2		SHLD C E38					.25 .19	YES YES			C
A 587	2		E20 SHLD D					.19 .25	YES YES			D
A 588	2		SHLD D E37					.25 .19	YES NO			D
A 589	2		E20 SHLD E					.19 .25	YES YES		76	E
A 590	2		SHLD E E34					.25 .19	YES NO			E
A 591	2		E37 SHLD F					.19 .25	NO YES			F
A 592	2		SHLD F E39					.25 .19	YES YES			F
A 593	2		E36 SHLD G					.19 .25	NO YES			G
A 594	2		SHLD G E39					.25 .19	YES YES		 76	G
A 595	2		E35 SHLD H					.19 .25	NO YES		70	H
A 596	2		SHLD H E38					.25 .19	YES YES		 76	H
A 597	2		E19 SHLD J					.19 .25	YES YES			J

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 107 OF

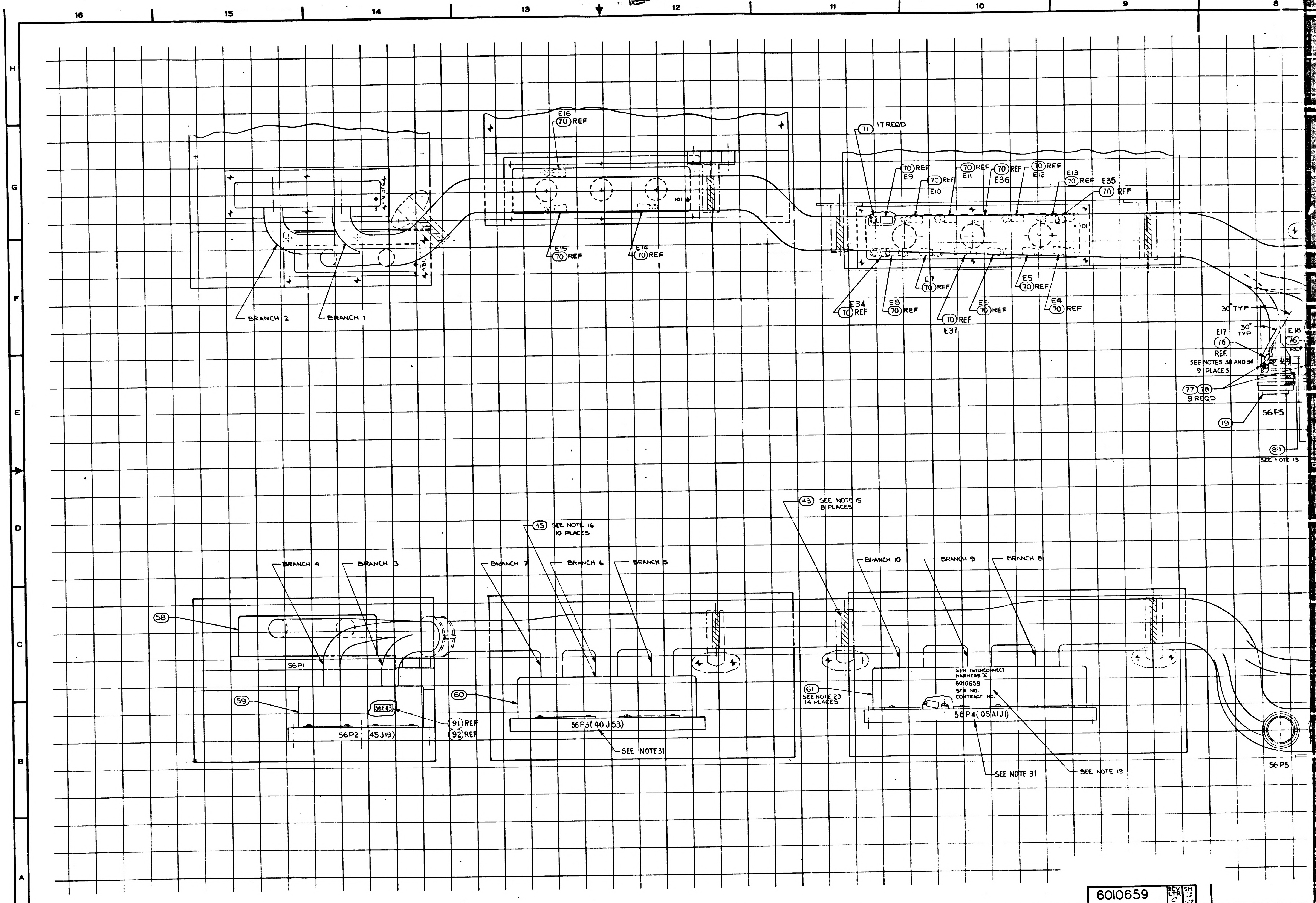
FORM 2064 9 65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 598	2		SHLD J E34					.25 .19	YES NO			J
A 599	2		E22 SHLD M					.19 .25	YES YES		76	M
A 600	2		SHLD M E36					.25 .19	YES NO		 70	M
A 601	2		E34 SHLD N					.19 .25	NO YES			N
A 602	2		SHLD N E42					.25 .19	YES YES		 76	N
A 603	2		E16 SHLD O					.19 .25	YES YES			O
A 604	2		SHLD O E37					.25 .19	YES NO			O
A 605	2		E43 SHLD P					.30 .25	NO YES			LARGE END, P
A 606	2		SHLD P E37					.25 .19	YES NO		 70	P
A 607	2		P1-F19 SHLD Q					.18 .25	NO YES		33	Q
A 608	2		SHLD Q E34					.25 .19	YES YES		 70	Q

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 108 OF

FORM 2084 9-65



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70 REF
71 17 REQD
70 REF
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E36
70 REF
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70 REF
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70 REF
101
101
E15
70 REF
E14
70 REF
BRANCH 2
BRANCH 1
E34
70 REF
E8
70 REF
E7
70 REF
70 REF
E37
E6
70 REF
E5
70 REF
E4
70 REF
30° TYP
30° TYP
E17
76
REF.
SEE NOTES 33 AND 34
9 PLACES
E18
76
REF
77 78
9 REQD
19
56P5
89
SEE NOTE 13
43 SEE NOTE 15
8 PLACES
45 SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
58
56P1
59
56E43
56P2 (45J19)
91 REF
92 REF
60
56P3(40J53)
SEE NOTE 31
61
SEE NOTE 23
14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010659
SER NO.
CONTRACT NO.
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
56P5

6010659

REV LTR C

SH

16 15 14 13 12 11 10 9 8

6010659

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 31139	7 JUL '66	NS.
B	REVISED PER TDRR 31207	4 OCT. 66	ME DPW
C	REVISED PER TDRR 31210	25 OCT 66	EC
D	REVISED PER TDRR 32388	11 JAN 67	JRK RCG

REV		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
SHEET		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
REV STATUS OF SHEETS	REV					D	C	C	D	C	C	C	C	C	D	C	D	C	C	C	C	C	C	C			
	SHEET					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAFTSMAN L. Keahn 29 JUN 66 (DAY MO YR)
CHECKER W. W. Riehl 1 JUL '66
ENGINEER D. Hattie 5 JUL 66
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL R. Jacob
APPROVAL E. A. T.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS A
(LEM)

SIZE A | CODE IDENT. NO 80230 | 6010659
SCALE NONE | SHEET 1 OF 109

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
46	C	80	C														
47	C	81	C														
48	C	82	C														
49	C	83	C														
50	C	84	C														
51	C	85	C														
52	C	86	C														
53	C	87	C														
54	C	88	C														
55	C	89	C														
56	C	90	C														
57	C	91	C														
58	C	92	C														
59	C	93	C														
60	C	94	C														
61	C	95	C														
62	C	96	C														
63	C	97	C														
64	C	98	C														
65	C	99	C														
66	C	100	C														
67	C	101	C														
68	C	102	C														
69	C	103	C														
70	C	104	C														
71	C	105	C														
72	C	106	C														
73	C	107	C														
74	C	108	C														
75	C	109	C														
76	C																
77	C																
78	C																
79	C																

SIZE A | CODE IDENT. NO. 80230 | 6010659
SCALE NONE | REV LTR C | SHEET 2 OF 109

MIL 1377A5 6-65

CYZMOURE 110366 HARNESS A 6010659 C

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE
	70	17	MS25036-52	TERMINAL LUG
	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
	78	9	1006783- 93	SCREW, BUTTON HD
	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	80		1006776- 19	DELETED
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
	91	1	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
	92	1	1010945- 1	SPLICE-REDUCER.
	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 11 OF

FORM 2084 9-65

GRIESMAN 012067 HARNESS A 6010659 D

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX,
9	97	AR	1008822	COLORANT, EPOXY BASE
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE
9	100	AR	1012555-002	TAPE, LACING AND TYING

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	D	SHEET 12

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	16				1.00 1.75	.75 1.50				68 68	37 37	
A 1A	5		SHLD A1 P3-340					.20 .19	NO NO		 33	BRANCH 6
A 1B	5		P14-6 SHLD A1					.13 .20	NO NO		30	
A 1R			P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A 1Y			P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A 2	16				1.00 1.75	.75 1.50				68 68	37 37	
A 2A	5		SHLD A2 P3-640					.20 .19	NO NO		 33	BRANCH 6
A 2B	5		P14-15 SHLD A2					.13 .20	NO NO		30	
A 2R			P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A 2Y			P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A 3	16				1.00 1.75	.75 1.50				68 68	37 37	
A 3A	6		SHLD A3 P3-341					.20 .19	NO NO		 33	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 13 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 3B	5		P14-21 SHLD A3					.13 .20	NO NO		30	
A 3R			P3-141 P14-8					.19 .13	NO NO		 30	BRANCH 6
A 3Y			P3-241 P14-20					.19 .13	NO NO		 30	BRANCH 6
A 4	16				1.00 1.75	.75 1.50				68 68	37 37	
A 4A	6		SHLD A4 P3-641.					.20 .19	NO NO		 33	BRANCH 7
A 4B	5		P14-19 SHLD A4					.13 .20	NO NO		30	
A 4R			P3-441 P14-7					.19 .13	NO NO		 30	BRANCH 7
A 4Y			P3-541 P14-18					.19 .13	NO NO		 30	BRANCH 7
A 5	16				1.00 1.75	.75 1.50				68 68	37 37	
A 5A	5		SHLD A5 P3-342					.20 .19	NO NO		 33	BRANCH 6
A 5B	5		P14-11 SHLD A5					.13 .20	NO NO		30	
A 5R			P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR	C	SHEET 14 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A 6	16				1.00 1.75	.75 1.50				68 68	37 37	
A 6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A 6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A 6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A 6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A 7	16				1.00 1.75	.75 1.50				68 68	37 37	
A 7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A 7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A 7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A 7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A 8	16				1.00 1.75	.75 1.50				68 68	37 37	

SIZE A

CODE IDENT NO. 80230

6010659

SCALE-NONE REV LTR C SHEET 15 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A 8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A 8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A 8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A 9	16				1.00 1.75	.75 1.50				68 68	37 37	
A 9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A 9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A 9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A 9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A 10	16				1.00 1.75	.75 1.50				68 68	37 37	
A 10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A 10B	5		P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE A

CODE IDENT NO. 80230

6010659

SCALE-NONE REV LTR C SHEET 16 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A 10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A 11	16				1.00 1.75	.75 1.50				68 68	37 37	
A 11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A 11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A 11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A 11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A 12	16				1.00 1.75	.75 1.50				68 68	37 37	
A 12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A 12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A 12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A 12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE A

CODE IDENT NO. 80230

6010659

SCALE-NONE REV LTR C SHEET 17 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00 1.75	.75 1.50				68 68	37 37	
A 13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A 13R			P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A 13Y			P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A 14	16				1.00 1.75	.75 1.50				68 68	37 37	
A 14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A 14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A 14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A 14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A 15	16				1.00 1.75	.75 1.50				68 68	37 37	
A 15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE A

CODE IDENT NO. 80230

6010659

SCALE-NONE REV LTR C SHEET 18 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		 30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		 30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		 33	 BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		 30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		 30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		 33	 BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		 30	BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		 30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		 33	 BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		 30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		 30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		 33	 BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		 30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		 30	BRANCH 7
A 20	8											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		 33	 BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		 33	 BRANCH 4

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		 33	 BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		 33	 BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34					.19	NO		34	BRANCH 4
			P3-530					.19	NO		34	BRANCH 6
A 26	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 26A	5		SHLD A26					.20	NO			
			P2-F33					.19	NO		33	BRANCH 4
A 26B	5		P3-331					.19	NO		33	BRANCH 6
			SHLD A26					.20	NO			
A 26R			P2-F35					.19	NO		34	BRANCH 4
			P3-131					.19	NO		34	BRANCH 6
A 26Y			P2-F34					.19	NO		34	BRANCH 4
			P3-231					.19	NO		34	BRANCH 6
A 27	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 27A	5		SHLD A27					.20	NO			
			P2-H33					.19	NO		33	BRANCH 4
A 27B	5		P3-631					.19	NO		33	BRANCH 6
			SHLD A27					.20	NO			
A 27R			P2-H35					.19	NO		34	BRANCH 4
			P3-431					.19	NO		34	BRANCH 6
A 27Y			P2-H34					.19	NO		34	BRANCH 4
			P3-531					.19	NO		34	BRANCH 6
A 28	16				1.00	.75				68	37	
					1.75	1.50				68	37	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR C		SHEET 23 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28					.20	NO			
			E15					.19	NO			
A 28B	5		P7-54					.13	NO		29	
			SHLD A28					.20	NO			
A 28R			P3-132					.19	NO			BRANCH 6
			P7-78					.13	NO		29	
A 28Y			P3-232					.19	NO			BRANCH 6
			P7-53					.13	NO		29	
A 29	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 29A	5		SHLD A29					.20	NO			
			E16					.19	NO			
A 29B	5		P7-80					.13	NO		29	
			SHLD A29					.20	NO			
A 29R			P3-432					.19	NO			BRANCH 6
			P7-79					.13	NO		29	
A 29Y			P3-532					.19	NO			BRANCH 6
			P7-55					.13	NO		29	
A 30	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 30A	5		SHLD A30					.20	NO			
			E15					.19	NO			
A 30B	5		P7-33					.13	NO		29	
			SHLD A30					.20	NO			

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR C		SHEET 24 OF

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133					.19	NO			BRANCH 6
			P7-16					.13	NO		29	
A 30Y			P3-233					.19	NO			BRANCH 6
			P7-32					.13	NO		29	
A 31	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 31A	5		SHLD A31					.20	NO			
			E16					.19	NO			
A 31B	5		P7-57					.13	NO		29	
			SHLD A31					.20	NO			
A 31R			P3-433					.19	NO			BRANCH 6
			P7-81					.13	NO		29	
A 31Y			P3-533					.19	NO			BRANCH 6
			P7-56					.13	NO		29	
A 32	16				1.00	.75				68	37	
					1.75	1.50				68	37	
A 32A	5		SHLD A32					.20	NO			
			E15					.19	NO			
A 32B	5		P7-35					.13	NO		29	
			SHLD A32					.20	NO			
A 32R			P3-134					.19	NO			BRANCH.6
			P7-34					.13	NO		29	
A 32Y			P3-234					.19	NO			BRANCH 6
			P7-17					.13	NO		29	

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR C		SHEET 25 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8					.19	NO		33	BRANCH 3
			P3-136					.19	NO		33	BRANCH 6
A 34	2		P2-K8					.19	NO		33	BRANCH 3
			P3-336					.19	NO		33	BRANCH 6
A 35	4		P3-113					.19	NO		34	O, BRANCH 5
			P4-514					.19	NO		34	BRANCH 8
A 36	4		P3-612					.19	NO		34	O, BRANCH 5
			P4-314					.19	NO		34	BRANCH 8
A 37	4		P3-512					.19	NO		34	O, BRANCH 5
			P4-414					.19	NO		34	BRANCH 8
A 38	4		P3-412					.19	NO		34	O, BRANCH 5
			P4-614					.19	NO		34	BRANCH 8
A 39	4		P3-312					.19	NO		34	O, BRANCH 5
			P4-313					.19	NO		34	BRANCH 8
A 40	4		P3-112					.19	NO		34	O, BRANCH 5
			P4-412					.19	NO		34	BRANCH 8
A 41	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 41A	5		SHLD A41					.20	NO			
			P3-111					.19	NO		33	BRANCH 5
A 41B	5		E4					.19	NO			
			SHLD A41					.20	NO			
A 41R			P3-311					.19	NO		34	BRANCH 5
			P4-515					.19	NO		34	BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010659	
SCALE-NONE	REV LTR C		SHEET 26 OF

FORM 2084 9-68

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211					.19	NO		34	BRANCH 5
			P4-615					.19	NO		34	BRANCH 8
A 42	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 42A	5		SHLD A42					.20	NO			
			P3-410					.19	NO		33	BRANCH 5
A 42B	5		E7					.19	NO			
			SHLD A42					.20	NO			
A 42R			P3-610					.19	NO		34	BRANCH 5
			P4-332					.19	NO		34	BRANCH 9
A 42Y			P3-510					.19	NO		34	BRANCH 5
			P4-432					.19	NO		34	BRANCH 9
A 43	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 43A	5		SHLD A43					.20	NO			
			P3-110					.19	NO		33	BRANCH 5
A 43B	5		E7					.19	NO			
			SHLD A43					.20	NO			
A 43R			P3-310					.19	NO		34	BRANCH 5
			P4-330					.19	NO		34	BRANCH 9
A 43Y			P3-210					.19	NO		34	BRANCH 5
			P4-430					.19	NO		34	BRANCH 9
A 44	16				1.00	.75				68	37	
					1.00	.75				68	37	

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 27 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44					.20	NO			
			P3-409					.19	NO		33	BRANCH 5
A 44B	5		E6					.19	NO			
			SHLD A44					.20	NO			
A 44R			P3-609					.19	NO		34	BRANCH 5
			P4-329					.19	NO		34	BRANCH 9
A 44Y			P3-509					.19	NO		34	BRANCH 5
			P4-429					.19	NO		34	BRANCH 9
A 45	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 45A	5		SHLD A45					.20	NO			
			P3-109					.19	NO		33	BRANCH 5
A 45B	5		E6					.19	NO			
			SHLD A45					.20	NO			
A 45R			P3-309					.19	NO		34	BRANCH 5
			P4-328					.19	NO		34	BRANCH 9
A 45Y			P3-209					.19	NO		34	BRANCH 5
			P4-428					.19	NO		34	BRANCH 9
A 46	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 46A	5		SHLD A46					.20	NO			
			P3-408					.19	NO		33	BRANCH 5
A 46B	5		E7					.19	NO			
			SHLD A46					.20	NO			

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 28 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608					.19	NO		34	BRANCH 5
			P4-334					.19	NO		34	BRANCH 9
A 46Y			P3-508					.19	NO		34	BRANCH 5
			P4-434					.19	NO		34	BRANCH 9
A 47	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 47A	5		SHLD A47					.20	NO			
			P3-108					.19	NO		33	BRANCH 5
A 47B	5		E7					.19	NO		70	
			SHLD A47					.20	NO			
A 47R			P3-308					.19	NO		34	BRANCH 5
			P4-333					.19	NO		34	BRANCH 9
A 47Y			P3-208					.19	NO		34	BRANCH 5
			P4-433					.19	NO		34	BRANCH 9
A 48	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 48A	5		SHLD A48					.20	NO			
			P3-407					.19	NO		33	BRANCH 5
A 48B	5		E8					.19	NO			
			SHLD A48					.20	NO			
A 48R			P3-607					.19	NO		34	BRANCH 5
			P4-338					.19	NO		34	BRANCH 9
A 48Y			P3-507					.19	NO		34	BRANCH 5
			P4-438					.19	NO		34	BRANCH 9

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 29 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 49A	5		SHLD A49					.20	NO			
			P3-107					.19	NO		33	BRANCH 5
A 49B	5		E8					.19	NO			
			SHLD A49					.20	NO			
A 49R			P3-307					.19	NO		34	BRANCH 5
			P4-337					.19	NO		34	BRANCH 9
A 49Y			P3-207					.19	NO		34	BRANCH 5
			P4-437					.19	NO		34	BRANCH 9
A 50	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 50A	5		SHLD A50					.20	NO			
			P3-406					.19	NO		33	BRANCH 5
A 50B	5		E7					.19	NO			
			SHLD A50					.20	NO			
A 50R			P3-606					.19	NO		34	BRANCH 5
			P4-336					.19	NO		34	BRANCH 9
A 50Y			P3-506					.19	NO		34	BRANCH 5
			P4-436					.19	NO		34	BRANCH 9
A 51	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 51A	5		SHLD A51					.20	NO			
			P3-106					.19	NO		33	BRANCH 5

SIZE A
CODE IDENT NO. 80230
6010659
SCALE-NONE
REV LTR C
SHEET 30 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 108Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 109R			P2-A14 P11-S					.19 .19	NC NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 51 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 52 OF

FORM 2064 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 4
A 128	8											

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 53 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		 33	 BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		 33	 BRANCH 3
A 134	16				1.00 1.00	.75 .75				68 68	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		 33	 BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 9
A 135	16				1.00 1.00	.75 .75				68 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 54 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135 P2-G24					.20 .19	NO NO		 33	 BRANCH 4
A 135B	5		E12 SHLD A135					.19 .20	NO NO			
A 135R			P2-H24 P4-323					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135Y			P2-K24 P4-423					.19 .19	NO NO		34 34	
A 136	16				1.00 1.00	.75 .75				68 68	37 37	
A 136A	5		SHLD A136 P2-G25					.20 .19	NO NO		 33	 BRANCH 4
A 136B	5		E12 SHLD A136					.19 .20	NO NO		70	
A 136R			P2-H25 P4-322					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 136Y			P2-K25 P4-422					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 137	16				1.00 1.00	.75 .75				68 68	37 37	
A 137A	5		SHLD A137 P2-G21					.20 .19	NO NO		 33	 BRANCH 4
A 137B	5		E4 SHLD A137					.19 .20	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21 P4-316					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 137Y			P2-K21 P4-416					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 139	16				1.00 1.00	.75 .75				68 68	37 37	
A 139A	5		SHLD A139 P2-G22					.20 .19	NO NO		 33	 BRANCH 4
A 139B	5		E4 SHLD A139					.19 .20	NO NO			
~~A 139R~~			P2-H22 P4-315					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 139Y			P2-K22 P4-415					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 141	4		P1-C17 P8-L					.19 .19	NO NO		34	BRANCH 1
A 143	11											
A 143G			P1-F15 P2-D15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143R			P1-D16 P2-G15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143Y			P1-F16 P2-F15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36 P2-G28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144N			P1-A37 P2-G31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144R			P1-B37 P2-G30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144Y			P1-A36 P2-G29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 148	16				1.00 1.00	.75 .75				68 68	37 37	
A 148A	5		SHLD A148 P1-A30					.20 .19	NO NO		 33	 BRANCH 2
A 148B	6		P3-341 SHLD A148					.19 .20	NC NO			BRANCH 6
A 148R			P1-A29 P3-141					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 148Y			P1-A28 P3-241					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149	16				1.00 1.00	.75 .75				68 68	37 37	
A 149A	5		SHLD A149 P1-B30					.20 .19	NO NO		 33	 BRANCH 2

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641 SHLD A149					.19 .20	NO NO			BRANCH 6
A 149R			P1-B29 P3-441					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149Y			P1-B28 P3-541					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 150	16				1.00 1.00	.75 .75				68 68	37 37	
A 150A	5		SHLD A150 P1-C30					.20 .19	NO NO		 33	 BRANCH 2
A 150B	6		P3-343 SHLD A150					.19 .20	NO NO			BRANCH 7
A 150R			P1-C29 P3-143					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 150Y			P1-C28 P3-243					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 151	16				1.00 1.00	.75 .75				68 68	37 37	
A 151A	5		SHLD A151 P1-D30					.20 .19	NO NO		 33	 BRANCH 2
A 151B	6		P3-643 SHLD A151					.19 .20	NO NO			BRANCH 7
A 151R			P1-D29 P3-443					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28					.19	NO		34	BRANCH 2
			P3-543					.19	NO		33	BRANCH 7
A 152	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 152A	5		SHLD A152					.20	NO			
			P1-F30					.19	NO		33	BRANCH 2
A 152B	6		P3-345					.19	NO			BRANCH 7
			SHLD A152					.20	NO			
A 152R			P1-F29					.19	NO		34	BRANCH 2
			P3-145					.19	NO		33	BRANCH 7
A 152Y			P1-F28					.19	NO		34	BRANCH 2
			P3-245					.19	NO		33	BRANCH 7
A 153	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 153A	5		SHLD A153					.20	NO			
			P1-G30					.19	NO		33	BRANCH 2
A 153B	6		P3-645					.19	NO			BRANCH 7
			SHLD A153					.20	NO			
A 153R			P1-G29					.19	NO		34	BRANCH 2
			P3-445					.19	NO		33	BRANCH 7
A 153Y			P1-G28					.19	NO		34	BRANCH 2
			P3-545					.19	NO		33	BRANCH 7
A 154	16				1.00	.75				68	37	
					1.00	.75				68	37	

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A	80230	6010659
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154					.20	NO			
			P1-A27					.19	NO		33	BRANCH 2
A 154B	6		P3-347					.19	NO			BRANCH 7
			SHLD A154					.20	NO			
A 154R			P1-A26					.19	NO		34	BRANCH 2
			P3-147					.19	NO		33	BRANCH 7
A 154Y			P1-A25					.19	NO		34	BRANCH 2
			P3-247					.19	NO		33	BRANCH 7
A 155	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 155A	5		SHLD A155					.20	NO			
			P1-B27					.19	NO		33	BRANCH 2
A 155B	6		P3-647					.19	NO			BRANCH 7
			SHLD A155					.20	NO			
A 155R			P1-B26					.19	NO		34	BRANCH 2
			P3-447					.19	NO		33	BRANCH 7
A 155Y			P1-B25					.19	NO		34	BRANCH 2
			P3-547					.19	NO		33	BRANCH 7
A 156	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 156A	5		SHLD A156					.20	NO			
			P1-C27					.19	NO		33	BRANCH 2
A 156B	6		P3-349					.19	NO			BRANCH 7
			SHLD A156					.20	NO			

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A	80230	6010659
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26					.19	NO		34	BRANCH 2
			P3-149					.19	NO		33	BRANCH 7
A 156Y			P1-C25					.19	NO		34	BRANCH 2
			P3-249					.19	NO		33	BRANCH 7
A 157	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 157A	5		SHLD A157					.20	NO			
			P1-D27					.19	NO		33	BRANCH 2
A 157B	6		P3-649					.19	NO			BRANCH 7
			SHLD A157					.20	NO			
A 157R			P1-D26					.19	NO		34	BRANCH 2
			P3-449					.19	NO		33	BRANCH 7
A 157Y			P1-D25					.19	NO		34	BRANCH 2
			P3-549					.19	NO		33	BRANCH 7
A 158	3		P1-A33					.19	NO		33	BRANCH 2
			P3-119					.19	NO		33	BRANCH 6
A 159	4		P1-A34					.19	NO		34	BRANCH 2
			P3-422					.19	NO		34	BRANCH 6
A 160	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 160A	5		SHLD A160					.20	NO			
			P1-C37					.19	NO		33	BRANCH 2
A 160B	5		E15					.19	NO			
			SHLD A160					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37					.19	NO		34	BRANCH 2
			P3-132					.19	NO		33	BRANCH 6
A 160Y			P1-F37					.19	NO		34	BRANCH 2
			P3-232					.19	NO		33	BRANCH 6
A 161	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 161A	5		SHLD A161					.20	NO			
			P1-C38					.19	NO		33	BRANCH 2
A 161B	5		E16					.19	NO			
			SHLD A161					.20	NO			
A 161R			P1-D38					.19	NO		34	BRANCH 2
			P3-432					.19	NO		33	BRANCH 6
A 161Y			P1-F38					.19	NO		34	BRANCH 2
			P3-532					.19	NO		33	BRANCH 6
A 162	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 162A	5		SHLD A162					.20	NO			
			P1-C39					.19	NO		33	BRANCH 2
A 162B	5		E15					.19	NO		70	
			SHLD A162					.20	NO			
A 162R			P1-D39					.19	NO		34	BRANCH 2
			P3-133					.19	NO		33	BRANCH 6
A 162Y			P1-F39					.19	NO		34	BRANCH 2
			P3-233					.19	NO		33	BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 62 OF

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	YES YES			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 9
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				68 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	YES YES		76	
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 9
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 9
A 250	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO		 70	
A 250B	5		E19 SHLD A250					.19 .20	YES YES			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 9
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 9
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E, BRANCH 10

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E,BRANCH 10
A 252	9											E,BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E,BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E,BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G,BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G,BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G,BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G,BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G,BRANCH 9

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G,BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G,BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G,BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G,BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G,BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G,BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G,BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G,BRANCH 9

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G,BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G,BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G,BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G,BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G,BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G,BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G,BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 73 OF

FORM 2064 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G,BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G,BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G,BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M,BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M,BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M,BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M,BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M,BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010659

SCALE-NONE | REV LTR C | SHEET 74 OF

FORM 2064 9-68

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B,BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B,BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B,BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B,BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B,BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B,BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B,BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B,BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B,BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G,BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 79 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G,BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G,BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A,BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A,BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B,BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		31	

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 80 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 81 OF

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 82 OF

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H,BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H,BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H,BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H,BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H,BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H,BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H,BRANCH 8
A 414	4		P4-611 P9-58					.19 .13	NO NO		34 29	H,BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H,BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010659		
SCALE-NONE	REV LTR	C	SHEET 87 OF	

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P,BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q,BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N,BRANCH 10

SIZE	CODE IDENT NO.			
A	80230	6010659		
SCALE-NONE	REV LTR	C	SHEET 88 OF	

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N,BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N,BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE	CODE IDENT NO.			
A	80230	6010659		
SCALE-NONE	REV LTR	C	SHEET 89 OF	

FORM 2084 9-68

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-79					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				68 68	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		33	BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE	CODE IDENT NO.			
A	80230	6010659		
SCALE-NONE	REV LTR	C	SHEET 90 OF	

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 443A	5		SHLD A443					.20	NO			
			P1-F23					.19	NO		33	BRANCH 1
A 443B	6		P3-348					.19	NO			BRANCH 7
			SHLD A443					.20	NO			
A 443R			P1-F21					.19	NO		34	BRANCH 1
			P3-148					.19	NO		33	BRANCH 7
A 443Y			P1-F22					.19	NO		34	BRANCH 1
			P3-248					.19	NO		33	BRANCH 7
A 444	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 444A	5		SHLD A444					.20	NO			
			P1-C23					.19	NO		33	BRANCH 1
A 444B	6		P3-648					.19	NO			BRANCH 7
			SHLD A444					.20	NO			
A 444R			P1-C21					.19	NO		34	BRANCH 1
			P3-448					.19	NO		33	BRANCH 7
A 444Y			P1-C22					.19	NO		34	BRANCH 1
			P3-548					.19	NO		33	BRANCH 7
A 445	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 445A	5		SHLD A445					.20	NO			
			P1-B23					.19	NO		33	BRANCH 1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346					.19	NO			BRANCH 7
			SHLD A445					.20	NO			
A 445R			P1-B21					.19	NO		34	BRANCH 1
			P3-146					.19	NO		33	BRANCH 7
A 445Y			P1-B22					.19	NO		34	BRANCH 1
			P3-246					.19	NO		33	BRANCH 7
A 446	16				1.00	.75				68	37	
					1.00	.75				68	37	
A 446A	5		SHLD A446					.20	NO			
			P1-B17					.19	NO		33	BRANCH 1
A 446B	5		E4					.19	NO		70	
			SHLD A446					.20	NO			
A 446R			P1-B16					.19	NO		34	BRANCH 1
			P4-316					.19	NO		33	BRANCH 8
A 446Y			P1-B15					.19	NO		34	BRANCH 1
			P4-416					.19	NO		33	BRANCH 8
A 448	9											
A 448R			P1-A31					.19	NO		34	BRANCH 2
			P2-A27					.19	NO		34	BRANCH 4
A 448Y			P1-B31					.19	NO		34	BRANCH 2
			P2-B27					.19	NO		34	BRANCH 4
A 449	9											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31					.19	NO		34	BRANCH 2
			P2-A29					.19	NO		34	BRANCH 4
A 449Y			P1-D31					.19	NO		34	BRANCH 2
			P2-B29					.19	NO		33	BRANCH 4
A 450	9											
A 450R			P1-F31					.19	NO		34	BRANCH 2
			P2-A31					.19	NO		34	BRANCH 4
A 450Y			P1-G31					.19	NO		34	BRANCH 2
			P2-B31					.19	NO		33	BRANCH 4
A 451	2		P6-85					.13	NO		29	
			E18					.19	YES			
A 452	4		P1-G11					.19	NO		34	BRANCH 1
			P6-74					.13	NO		29	
A 453	4		P1-F11					.19	NO		34	BRANCH 1
			P6-75					.13	NO		29	
A 454	4		P1-G9					.19	NO		34	BRANCH 1
			P10-24					.13	NO		30	
A 455	4		P1-C13					.19	NO		34	BRANCH 1
			P10-26					.13	NO		30	
A 456	4		P1-C7					.19	NO		34	BRANCH 1
			P10-33					.13	NO		30	
A 457	4		P1-B7					.19	NO		34	BRANCH 1
			P10-56					.13	NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7					.19	NO		34	BRANCH 1
			P10-81					.13	NO		30	
A 460	16				1.00	.75				68	37	
					1.75	1.50				6A	37	
A 460A	5		SHLD A460					.20	NO			
			E6					.19	NO			
A 460B	5		E19					.19	YES			
			SHLD A460					.20	YES			
A 460R			P4-129					.19	NO			BRANCH 9
			P6-62					.13	NO		29	
A 460Y			P4-229					.19	NO			BRANCH 9
			P6-38					.13	NO		29	
A 461	16				1.00	.75				68	37	
					1.75	1.50				6A	37	
A 461A	5		SHLD A461					.20	NO			
			E6					.19	NO			
A 461B	5		E19					.19	YES		76	
			SHLD A461					.20	NO			
A 461R			P4-128					.19	NO			BRANCH 9
			P6-64					.13	NO		29	
A 461Y			P4-228					.19	NO			BRANCH 9
			P6-39					.13	NO		29	
A 462	16				1.00	.75				7	38	
					1.00	.75				68	37	

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-035 P4-129					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 462Y			P1-F35 P4-229					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463	16				1.00 1.00	.75 .75				7 68	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO		70	
A 463R			P1-036 P4-128					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 463Y			P1-F36 P4-228					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 9
A 464	16				1.00 1.75	.75 1.50				68 6A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO		 70	
A 464B	5		E21 SHLD A464					.19 .20	YES NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 95 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				68 6A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	YES NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N,BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N,BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 96 OF

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CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N,BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29 93	B
A 476	2		P5-74					.13	NO		29 93	B
A 477	15				1.00 1.75	.75 1.50				68 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			 LARGE END
A 477B	5		E20 SHLD A477					.19 .20	YES NO			

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 97 OF

FORM 2084 9-65

CYZMOURE 110366 HARNESS A 6010659 C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				68 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	YES NO		76	
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J,BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J,BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J,BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J,BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 98 OF

FORM 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555 P6-49					.18 .13	NO NO		34 29	J, BRANCH 10
A 532	4		P4-556 P6-28					.18 .13	NO NO		34 29	J, BRANCH 10
A 533	4		P4-602 P6-22					.18 .13	NO NO		34 29	J, BRANCH 10
A 534	4		P4-101 P6-41					.18 .13	NO NO		34 29	J, BRANCH 10
A 535	4		P4-113 P9-32					.18 .13	NO NO		34 29	C, BRANCH 8
A 536	4		P4-112 P9-16					.18 .13	NO NO		34 30	C, BRANCH 8
A 537	14				1.00 1.75	.75 1.50				68 68	37 37	
A 537A	5		SHLD A537 E43					.20 .30	NO NO			LARGE END.
A 537B	5		P14-69 SHLD A537					.19 .20	NO NO		30	
A 537Y			P2-G18 P14-25					.18 .13	NO NO		33 30	BRANCH 4
A 539	4		P4-538 P4-637					.18 .18	NO NO		34 34	
A 540	4		P4-613 P7-66					.18 .13	NO NO		34 29	D, BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513 P7-67					.18 .13	NO NO		34 29	D, BRANCH 9
A 551			DELETED									
A 552			DELETED									
A 553			DELETED									
A 554			DELETED									
A 555			DELETED									
A 556			DELETED									
A 557			DELETED									
A 558			DELETED									
A 559			DELETED									
A 560			DELETED									
A 561			DELETED									

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 562			DELETED									
A 563			DELETED									
A 564			DELETED									
A 565	2		P8-D P8-F					.22 .22	NO NO			
A 566	2		P8-D P8-F					.22 .22	NO NO		32	
A 567	2		P8-E P8-F					.22 .22	NO NO			
A 568	2		P8-E P8-F					.22 .22	NO NO		32 32	
A 569	2		P8-H P8-M					.22 .22	NO NO			
A 570	2		P8-H P8-M					.22 .22	NO NO		32	
A 571	2		P8-J P8-M					.22 .22	NO NO			
A 572	2		P8-J P8-M					.22 .22	NO NO		32 32	
A 573	4		P4-628 P6-83					.18 .13	NO NO		34 29	J, BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 574	4		P4-528 P6-59					.18 .13	NO NO		34 29	J, BRANCH 10
A 575	4		P4-626 P6-36					.18 .13	NO NO		34 29	J, BRANCH 10
A 576	4		P4-526 P6-35					.18 .13	NO NO		34 29	J, BRANCH 10
A 577	4		P4-519 P6-34					.18 .13	NO NO		34 29	J, BRANCH 10
A 578	2		F43 P2-D9					.30 .18	NO NO		91, 92 33	SMALL END.
A 579	4		P4-627 P6-57					.18 .13	NO NO		34 29	J, BRANCH 10
A 580	4		P4-527 P6-33					.18 .13	NO NO		34 29	J, BRANCH 10
A 581	2		E17 SHLD A					.19 .25	YES YES			A
A 582	2		SHLD A E35					.25 .19	YES NO			A
A 583	2		E17 SHLD B					.19 .25	YES NO		76	B
A 584	2		SHLD B E35					.25 .19	YES NO			B
A 585	2		E35 SHLD C					.19 .25	NO YES			C

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 586	2		SHLD C E38					.25 .19	YES YES			C
A 587	2		E20 SHLD D					.19 .25	YES YES			D
A 588	2		SHLD D E37					.25 .19	YES NO			D
A 589	2		E20 SHLD E					.19 .25	YES YES		76	E
A 590	2		SHLD E E34					.25 .19	YES NO			E
A 591	2		E37 SHLD F					.19 .25	NO YES			F
A 592	2		SHLD F E39					.25 .19	YES YES			F
A 593	2		E36 SHLD G					.19 .25	NO YES			G
A 594	2		SHLD G E39					.25 .19	YES YES		 76	G
A 595	2		E35 SHLD H					.19 .25	NO YES		70	H
A 596	2		SHLD H E38					.25 .19	YES YES		 76	H
A 597	2		E19 SHLD J					.19 .25	YES YES			J

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 107 OF

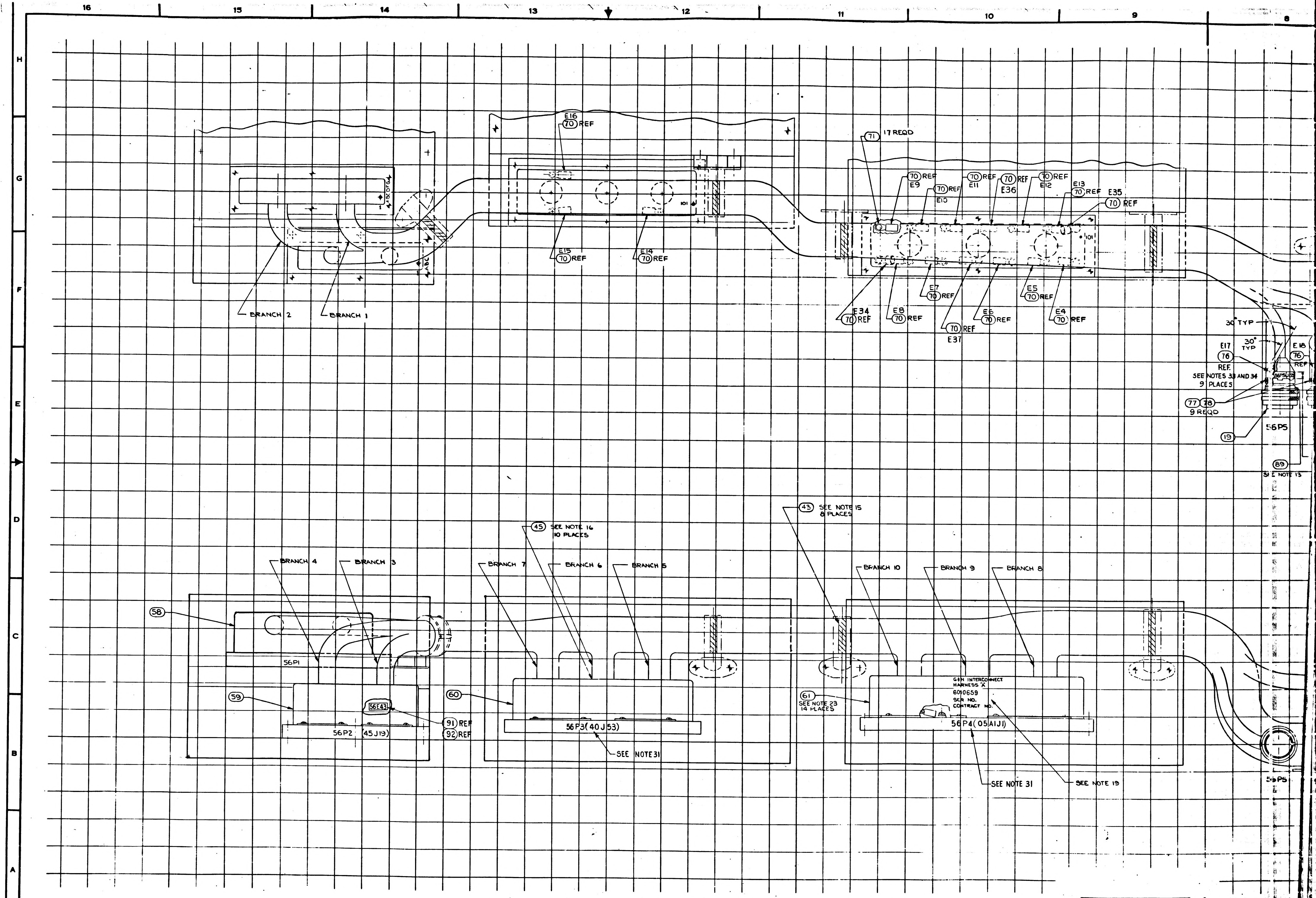
FORM 2064 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 598	2		SHLD J E34					.25 .19	YES NO			J
A 599	2		E22 SHLD M					.19 .25	YES YES		76	M
A 600	2		SHLD M E36					.25 .19	YES NO		 70	M
A 601	2		E34 SHLD N					.19 .25	NO YES			N
A 602	2		SHLD N E42					.25 .19	YES YES		 76	N
A 603	2		E16 SHLD O					.19 .25	YES YES			O
A 604	2		SHLD O E37					.25 .19	YES NO			O
A 605	2		E43 SHLD P					.30 .25	NO YES			LARGE END, P
A 606	2		SHLD P E37					.25 .19	YES NO		 70	P
A 607	2		P1-F19 SHLD Q					.18 .25	NO YES		33	Q
A 608	2		SHLD Q E34					.25 .19	YES YES		 70	Q

SIZE	CODE IDENT NO.	
A	80230	6010659
SCALE-NONE	REV LTR C	SHEET 108 OF

FORM 2064 9-65

6010659



16
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E14
70 REF
101
BRANCH 2
BRANCH 1
71 17 REQD
70 REF
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E6
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70 REF
E4
70 REF
30° TYP
30° TYP
E17
76
REF.
SEE NOTES 33 AND 34
9 PLACES
E18
76
REF
77 78
9 REQD
19
56P5
89
SEE NOTE 13
43 SEE NOTE 15
8 PLACES
45 SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
58
56P1
59
56E43
91 REF
92 REF
56P2 (45J19)
60
56P3(40J53)
SEE NOTE31
61
SEE NOTE 23
14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010659
SER NO.
CONTRACT NO.
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
56P5

6010659	REV LTR	SH
	C	109 OF 109

16 15 14 13 12 11 10 9 8

1/6010659

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 31139	7 JUL '66	W.I.

REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41

REV STATUS OF SHEETS																					
REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN J. Krahn 29 JUN 66 (DAY MO YR)
CHECKER W. Dull 5 JUL 66
ENGINEER D. Buta 5 JUL 66
APPROVAL Aug 15 66
CONTR NO. NAS 9-497
NASA APPROVAL P. Jacob
CCB APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT HARNESS B (LEM)

SIZE	CODE IDENT. NO	
A	80230	6010660
SCALE NONE		SHEET 1 OF 41

MIL 1377A6 12-65

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURES 6B AND 6A AND ND1002032 FOR FIGURE 7

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

3 INTERCONNECT LIST FOR THIS HARNESS IS 6014505

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER
  A - SHIELD LEAD ON FROM END
  B - SHIELD LEAD ON TO END
  G- GREEN
  K- BLACK
  L- BLUE
  N-BROWN
  R-RED
  W-WHITE
  Y-YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION.

8 UNLESS OTHERWISE SPECIFIED, FEATURE CENTER LINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING

10 CRIMP CONTACTS PER ND1002032

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 2 OF 41

NOTE NUMBER | GENERAL NOTES DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH A CONTACT AND/OR SEALING PLUGS AS FOLLOWS
  CONNECTORS 56P15, 16 AND 18 USE ITEM NUMBERS 21 AND 27
  CONNECTOR 56P17 USE ITEM NUMBERS 23 AND 51
  CONNECTOR 56P19 USE ITEM NUMBER 25
  CONNECTORS 56P20 AND 21 USE ITEM NUMBERS 24 AND 28
  CONNECTOR 56J1 USE ITEM NUMBERS 22 AND 27

12 LACE HARNESS PER ND1002032 USING, ITEM NUMBER 43.

13 APPLY BONDING MATERIAL PER ND1002187, TYPE 1, USING ITEMS 56 AND 57 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE ITEM 45 TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019. CENTRALIZE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019. SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM, EXCEPT FOR CONDUCTORS USING ITEM NUMBER 10. THESE SHALL BE LESS THAN 2 OHMS. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 3 OF 41

NOTE NUMBER | GENERAL NOTES DESCRIPTION

21 INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
  A. THE ASSEMBLY PINS AND STRUCTURE GROUND, EXCEPT THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND.
  B. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA

23 ENCAPSULATE BACK OF CONNECTORS AND JUNCTION BOX ASSY PER ND1002236 USING ITEMS 46 AND 55.

24 CONDUCTORS SHALL ENTER CONNECTOR 56P19 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

25 PERFORM WORKMANSHIP VIBRATION
  A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
  B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
  C. MONITOR FOR DISCONTINUITIES OF 10U SECONDS OR GREATER DURING VIBRATION.
  D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

26 ASSEMBLE INSULATION SLEEVE ITEM 64 OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTOR P19. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

27 SOLDER PER ND1002071 USING ITEM 65, OR ITEMS 66 AND 67.

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 4 OF 41

NOTE NUMBER | GENERAL NOTES DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 5 OF 41

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	6010660-001	WIRE PER 1010789-006, 22AWG, YEL, 10 FT TOT LG
	2	1	6010660-002	WIRE PER 1010789-001, 24AWG, YEL, 15 FT TOT LG
	3	1	6010660-003	WIRE PER 1010789-016, 26AWG, YEL, 15 FT TOT LG
	4	1	6010660-004	WIRE PER 1010789-008, 22AWG, YEL, RED, 55 FT TOTAL LG
	5	1	6010660-005	WIRE PER 1010789-003, 24AWG, YEL, RED, 15 FT TOTAL LG
	6	1	6010660-006	WIRE PER 1010789-017, 26AWG, YEL, RED, 20 FT TOT LG
	7	1	6010660-007	WIRE PER 1010789-012, YEL JKT, 24AWG YEL,RED, 10 FT TOT LG
	8	1	6010660-008	WIRE PER 1010789-015, YEL JKT, 26AWG YEL RED, 90 FT TOT LG
	9	1	6010660-009	WIRE PER 1010789-009, 22AWG YEL, RED, GRN, 10 FT TOT LG
	10	1	6010660-010	WIRE PER 1010707-1, RED JKT, 29AWG RED WHT BLU 15 FT TOT LG
	11	1	6010660-011	WIRE PER 1010789-005 24AWG, YEL RED GRN BRN 5 FT TOT LG
	12	1	6010660-012	WIRE PER 1010789-002, 24AWG BLK 80 FT TOT LG
9	13	1	1010929-103	CONNECTOR PLUG ELECTRICAL (56P16)
9	14	1	1010929-104	CONNECTOR PLUG ELECTRICAL (56P18)

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 6 OF 41

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	15	1	1010929-109	CONNECTOR PLUG ELECTRICAL (56P15)
9	16	1	1010930-014	CONNECTOR RECEPTACLE ELECTRICAL (56J1)
9	17	1	1010947-105	CONNECTOR PLUG ELECTRICAL (56P17)
9	18	1	1010965-001	CONNECTOR PLUG ELECTRICAL (56P21)
9	19	1	1010965-002	CONNECTOR PLUG ELECTRICAL (56P20)
	20	1	6014535-021	CONNECTOR ASSEMBLY ELECTRICAL (56P19)
9	21	X	1010770- 1	CONTACTS SUPPLIED WITH CONNECTOR 1010929
9	22	X	1010770- 2	CONTACTS SUPPLIED WITH CONNECTOR 1010930
	23	X	1010964-001	CONTACTS SUPPLIED WITH CONNECTOR 1010947
9	24	X	1010781- 1	CONTACT, SOCKET SUPPLIED WITH CONNECTOR 1010965
9	25	109	1010955-001	CONTACT, ELECTRICAL MINIATURE, MALE
9	26	63	1010955-002	CONTACT, ELECTRICAL MINIATURE, MALE
9	27	78	1010958-001	PLUG PROTECTIVE SEALING
9	28	24	1010984	PLUG PROTECTIVE SEALING
9	29	73	1010402- 2	SLEEVE, SOLDER
9	30	39	1010490-110	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	31	6	1010490-112	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	32	18	1010979- 2	PIN, TAPER

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 7 OF 41

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	33	2	2014670- 4	ADAPTER, SUBMINIATURE CONN.
	34	1	2014670- 6	ADAPTER, SUBMINIATURE CONN.
	35	1	2014670- 7	ADAPTER, SUBMINIATURE CONN.
	36	1	2014670- 9	ADAPTER, SUBMINIATURE CONN.
9	43	AR	1012507-004	TAPE, LACING
	44	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II .25 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
9	47	16	1010862	BUSHING, SLEEVE
9	48	1	1010945- 1	REDUCER, SPLICE
9	49	1	1012534- 95	INSULATION SLEEVING ELECTRICAL HEAT SHRINK
	50	1	2014670- 1	ADAPTER SUBMINIATURE CONN.
9	51	7	1010958- 2	PLUG PROTECTIVE, SEALING
	52	1	6010654-011	JUNCTION BOX ASSEMBLY
9	55	AR	1012504	PRIMER, METAL PARTS
9	56	AR	1010661	EPOXY RESIN
9	57	AR	1010679	ADHESIVE ACTIVATOR
	58	1	6010660-013	WIRE PER 1010789-011, 24AWG, YEL, YEL JKT, 5 FT TOT LG.

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 8 OF 41

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	59	1	2014670-014	ADAPTER, CONNECTOR
	60	1	2021203	TERMINAL LUG, SOLDER
	61	1	MS35333-69	WASHER, LOCK
9	62	1	1006783- 93	SCREW, BUTTON HD
9	63	6	1010763- 2	SLEEVE, SOLDER
	64	119	1010490-114	INSULATION SLEEVING (HEAT SHRINKABLE)
	65	AR	SN 60 WRAP 2	SOLDER QQ-S-571
	66	AR	SN 60 WS	SOLDER QQ-S-571
	67	AR	MIL-F-14256 TYPE A OR W	FLUX
9	68	1	1008808-012	CAP, PROTECTIVE

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 9 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B	1	7			1.75 1.00	1.50 .75				68 68	29 29	
B	1A	12	SHLD B1 P18-17					.20 .13	NO NO		 21	
B	1B	12	P19-A12 SHLD B1					.19 .20	NO NO		25	2
B	1R		P18-16 P19-A10					.13 .19	NO NO		21 25	 2
B	1Y		P18-33 P19-A11					.13 .19	NO NO		21 25	 2
B	2	8			1.75 1.00	1.50 .75				68 68	29 29	
B	2A	12	SHLD B2 P18-9					.20 .13	NO NO		 21	
B	2B	12	P19-A6 SHLD B2					.19 .20	NO NO		25	1
B	2R		P18-22 P19-A4					.13 .19	NO NO		21 26	 1
B	2Y		P18-21 P19-A5					.13 .19	NO NO		21 26	 1
B	3	8			1.75 1.00	1.50 .75				68 68	29 29	
B	3A	12	SHLD B3 P18-24					.20 .13	NO NO		 21	

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR A
SHEET 10 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B	3B	12	P19-B6 SHLD B3					.19 .20	NO NO		25	1
B	3R		P18-10 P19-B4					.13 .19	NO NO		21 26	 1
B	3Y		P18-23 P19-B5					.13 .19	NO NO		21 26	 1
B	4	8			1.75 1.00	1.50 .75				68 68	29 29	
B	4A	12	SHLD B4 P18-26					.20 .13	NO NO		 21	
B	4B	12	P19-C6 SHLD B4					.19 .20	NO NO		25	1
B	4R		P18-11 P19-C4					.13 .19	NO NO		21 26	 1
B	4Y		P18-25 P19-C5					.13 .19	NO NO		21 26	 1
B	5	8			1.75 1.00	1.50 .75				68 68	29 29	
B	5A	12	SHLD B5 P18-13					.20 .13	NO NO		 21	
B	5B	12	P19-D6 SHLD B5					.19 .20	NO NO		25	1
B	5R		P18-12 P19-D4					.13 .19	NO NO		21 26	 1

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR A
SHEET 11 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B	5Y		P18-27 P19-D5					.13 .19	NO NO		21 26	 1
B	6	8			1.75 1.00	1.50 .75				68 68	29 29	
B	6A	12	SHLD B6 P18-30					.20 .13	NO NO		 21	
B	6B	12	P19-F6 SHLD B6					.19 .20	NO NO		25	1
B	6R		P18-14 P19-F4					.13 .19	NO NO		21 26	 1
B	6Y		P18-29 P19-F5					.13 .19	NO NO		21 26	 1
B	7	8			1.75 1.00	1.50 .75				68 68	29 29	
B	7A	12	SHLD B7 P18-32					.20 .13	NO NO		 21	
B	7B	12	P19-G6 SHLD B7					.19 .20	NO NO		25	1
B	7R		P18-15 P19-G4					.13 .19	NO NO		21 26	 1
B	7Y		P18-31 P19-G5					.13 .19	NO NO		21 26	 1
B	8	8			1.75 1.00	1.50 .75				68 68	29 29	

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR A
SHEET 12 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B	8A	12	SHLD B8 P18-38					.20 .13	NO NO		 21	
B	8B	12	P19-F13 SHLD B8					.19 .20	NO NO		25	2
B	8R		P18-63 P19-G13					.13 .19	NO NO		21 26	 2
B	8Y		P18-62 P19-D13					.13 .19	NO NO		21 26	 2
B	9	4										
B	9R		P17-E* P19-A24					.19 .19	NO NO		 25	 2
B	9Y		P17-H* P19-A23					.19 .19	NO NO		 25	 2
B	10	4										
B	10R		P17-F* P19-B26					.19 .19	NO NO		 25	 2
B	10Y		P17-G* P19-B25					.19 .19	NO NO		 25	 2
B	11	4										
B	11R		P17-Y P19-C26					.19 .19	NO NO		 25	 2

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR A
SHEET 13 OF 41

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 11Y			P17-Z P19-C25					.19 .19	NO NO		25	2
B 12	1		P17-A P19-B24					.19 .19	NO NO		23 25	2
B 13	1		P19-B23 P17-X					.19 .19	NO NO		25 23	2
B 14	6											
B 14R			P18-81 P19-G22					.13 .19	NO NO		21 26	2
B 14Y			P18-56 P19-F22					.13 .19	NO NO		21 26	2
B 15	6											
B 15R			P18-2 P19-B21					.13 .19	NO NO		21 26	2
B 15Y			P18-1 P19-B20					.13 .19	NO NO		21 26	2
B 16	6											
B 16R			P18-3 P19-D21					.13 .19	NO NO		21 26	2
B 16Y			P18-4 P19-D20					.13 .19	NO NO		21 26	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 14 OF 41

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HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 17	6											
B 17R			P18-5 P19-G21					.13 .19	NO NO		21 26	2
B 17Y			P18-6 P19-G20					.13 .19	NO NO		21 26	2
B 18	7				1.75 1.00	1.50 .75				6B 6B	29 29	
B 18A	12		SHLD B18 P18-36					.20 .13	NO NO		21	
B 18B	12		P19-C12 SHLD B18					.19 .20	NO NO		25	2
B 18R			P18-18 P19-C10					.13 .19	NO NO		21 25	2
B 18Y			P18-35 P19-C11					.13 .19	NO NO		21 25	2
B 19	7				1.75 1.00	1.50 .75				6B 6B	29 29	
B 19A	12		SHLD B19 P18-20					.20 .13	NO NO		21	
B 19B	12		P19-B12 SHLD B19					.19 .20	NO NO		25	2
B 19R			P18-19 P19-B10					.13 .19	NO NO		21 25	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 15 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 19Y			P18-37 P19-B11					.13 .19	NO NO		21 25	2
B 20	5											
B 20R			P18-85 P19-A21					.13 .19	NO NO		21 25	2
B 20Y			P18-61 P19-A20					.13 .19	NO NO		21 25	2
B 21	5											
B 21R			P18-84 P19-C21					.13 .19	NO NO		21 25	2
B 21Y			P18-59 P19-C20					.13 .19	NO NO		21 25	2
B 22	5											
B 22R			P18-82 P19-F21					.13 .19	NO NO		21 25	2
B 22Y			P18-58 P19-F20					.13 .19	NO NO		21 25	2
B 23	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 23A	12		SHLD B23 P19-B3					.20 .19	NO NO		25	1

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 16 OF 41

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 23R			P19-B1 P20-7					.19 .13	NO NO		26 24	1
B 23Y			P19-B2 P20-6					.19 .13	NO NO		26 24	1
B 24	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 24A	12		SHLD B24 P19-C3					.20 .19	NO NO		25	1
B 24R			P19-C1 P20-18					.19 .13	NO NO		26 24	1
B 24Y			P19-C2 P20-17					.19 .13	NO NO		26 24	1
B 25	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 25A	12		SHLD B25 P19-D3					.20 .19	NO NO		25	1
B 25R			P19-D1 P20-36					.19 .13	NO NO		26 24	1
B 25Y			P19-D2 P20-35					.19 .13	NO NO		26 24	1
B 26	10				1.00 1.75	.75 1.50				6B 7	63 31	
B 26A	12		SHLD B26 P19-B17					.20 .19	NO NO		25	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 17 OF 41

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 26L			P19-F17					.19	NO		26	2
			P20-3					.13	NO		24, 47	
B 26R			P19-C17					.19	NO		26	2
			P20-1					.13	NO		24, 47	
B 26W			P19-D17					.19	NO		26	2
			P20-2					.13	NO		24, 47	
B 27	10				1.00	.75				6B	63	
					1.75	1.50				7	31	
B 27A	12		SHLD B27					.20	NO			
			P19-B18					.19	NO		25	2
B 27L			P19-F18					.19	NO		26	2
			P20-14					.13	NO		24, 47	
B 27R			P19-C18					.19	NO		26	2
			P20-12					.13	NO		24, 47	
B 27W			P19-D18					.19	NO		26	2
			P20-13					.13	NO		24, 47	
B 28	10				1.00	.75				6B	63	
					1.75	1.50				7	31	
B 28A	12		SHLD B28					.20	NO			
			P19-B19					.19	NO		25	2
B 28L			P19-F19					.19	NO		26	2
			P20-61					.13	NO		24, 47	
B 28R			P19-C19					.19	NO		26	2
			P20-59					.13	NO		24, 47	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 18 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 28W			P19-D19					.19	NO		26	2
			P20-60					.13	NO		24, 47	
B 29	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 29A	12		SHLD B29					.20	NO			
			P18-42					.13	NO		21	
B 29B	12		P19-G12					.19	NO		25	1
			SHLD B29					.20	NO			
B 29R			P18-41					.13	NO		21	
			P19-G10					.19	NO		26	1
B 29Y			P18-66					.13	NO		21	
			P19-G11					.19	NO		26	1
B 30	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 30A	12		SHLD B30					.20	NO			
			P18-71					.13	NO		21	
B 30B	12		P19-A9					.19	NO		25	1
			SHLD B30					.20	NO			
B 30R			P18-46					.13	NO		21	
			P19-A7					.19	NO		26	1
B 30Y			P18-70					.13	NO		21	
			P19-A8					.19	NO		26	1
B 31	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 19 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 31A	12		SHLD B31					.20	NO			
			P18-47					.13	NO		21	
B 31B	12		P19-B9					.19	NO		25	1
			SHLD B31					.20	NO			
B 31R			P18-72					.13	NO		21	
			P19-B7					.19	NO		26	1
B 31Y			P18-48					.13	NO		21	
			P19-B8					.19	NO		26	1
B 32	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 32A	12		SHLD B32					.20	NO			
			P18-80					.13	NO		21	
B 32B	12		P19-C9					.19	NO		25	1
			SHLD B32					.20	NO			
B 32R			P18-55					.13	NO		21	
			P19-C7					.19	NO		26	1
B 32Y			P18-79					.13	NO		21	
			P19-C8					.19	NO		26	1
B 33	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 33A	12		SHLD B33					.20	NO			
			P18-40					.13	NO		21	
B 33B	12		P19-D9					.19	NO		25	1
			SHLD B33					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 20 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 33R			P18-64					.13	NO		21	
			P19-D7					.19	NO		26	1
B 33Y			P18-65					.13	NO		21	
			P19-D8					.19	NO		26	1
B 34	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 34A	12		SHLD B34					.20	NO			
			P18-52					.13	NO		21	
B 34B	12		P19-F9					.19	NO		25	1
			SHLD B34					.20	NO			
B 34R			P18-77					.13	NO		21	
			P19-F7					.19	NO		26	1
B 34Y			P18-76					.13	NO		21	
			P19-F8					.19	NO		26	1
B 35	8				1.75	1.50				6B	29	
					1.00	.75				6B	29	
B 35A	12		SHLD B35					.20	NO			
			P18-54					.13	NO		21	
B 35B	12		P19-G9					.19	NO		25	1
			SHLD B35					.20	NO			
B 35R			P18-53					.13	NO		21	
			P19-G7					.19	NO		26	1
B 35Y			P18-78					.13	NO		21	
			P19-G8					.19	NO		26	1

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 21 OF 41

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 36	8				1.75 1.00	1.50 .75				68 68	29 29	
B 36A	12		SHLD B36 P18-68					.20 .13	NO NO		 21	
B 36B	12		P19-F12 SHLD B36					.19 .20	NO NO		25	1
B 36R			P18-43 P19-F10					.13 .19	NO NO		21 26	 1
B 36Y			P18-67 P19-F11					.13 .19	NO NO		21 26	 1
B 37	8				1.75 1.00	1.50 .75				68 68	29 29	
B 37A	12		SHLD B37 P18-45					.20 .13	NO NO		 21	
B 37B	12		P19-D12 SHLD B37					.19 .20	NO NO		25	1
B 37R			P18-44 P19-D10					.13 .19	NO NO		21 26	 1
B 37Y			P18-69 P19-D11					.13 .19	NO NO		21 26	 1
B 38	10				1.00 1.75	.75 1.50				68 .7	63 31	
B 38A	12		SHLD B38 E3					.20 .19	NO NO			 LARGE END

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 22 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 38L			NONE NONE				1.00 1.75					
B 38R			P19-D16 P20-5					.19 .13	NO NO		26 24, 47	2
B 38W			P19-C16 P20-4					.19 .13	NO NO		26 24, 47	2
B 39	10				1.00 1.75	.75 1.50				68 7	63 31	
B 39A	12		SHLD B39 E3					.20 .25	NO NO			 LARGE END
B 39L			NONE NONE				1.00 1.75					
B 39R			P19-D14 P20-16					.19 .13	NO NO		26 24, 47	2
B 39W			P19-C14 P20-15					.19 .13	NO NO		26 24, 47	2
B 40	10				1.00 1.75	.75 1.50				68 7	63 31	
B 40A	12		SHLD B40 E3					.20 .25	NO NO			 LARGE END
B 40L			P19-F14 P20-32					.19 .13	NO NO		26 24, 47	2
B 40R			P19-F15 P20-34					.19 .13	NO NO		26 24, 47	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 23 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 40W			P19-F16 P20-33					.19 .13	NO NO		26 24, 47	2
B 42	1		P21-1 P17-X					.13 .19	NO NO		24	
B 43	4											
B 43R			P17-M P21-2					.19 .13	NO NO		 24	
B 43Y			P17-B* P21-4					.19 .13	NO NO		 24	
B 44	4											
B 44R			P17-L P21-3					.19 .13	NO NO		 24	
B 44Y			P17-A* P21-5					.19 .13	NO NO		 24	
B 45	4											
B 45R			J1-2 P21-6					.13 .13	NO NO		22 24	
B 45Y			J1-9 P21-8					.13 .13	NO NO		22 24	
B 46	4											

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 24 OF 41

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 46R			J1-3 P21-7					.13 .13	NO NO		22 24	
B 46Y			J1-10 P21-9					.13 .13	NO NO		22 24	
B 47	9											
B 47G			P17-W P21-12					.19 .13	NO NO		23 24	
B 47R			P17-D P21-10					.19 .13	NO NO		23 24	
B 47Y			P17-E P21-11					.19 .13	NO NO		23 24	
B 48	5											
B 48R			J1-5 P21-14					.13 .13	NO NO		22 24	
B 48Y			J1-15 P21-15					.13 .13	NO NO		22 24	
B 49	2		J1-14 P21-16					.13 .13	NO NO		22 24	
B 50	5											
B 50R			J1-13 P21-17					.13 .13	NO NO		22 24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 25 OF 41

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HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 50Y			J1-4 P21-18					.13 .13	NO NO		22 24	
B 51	4											
B 51R			P17-B P21-22					.19 .13	NO NO		23 24	
B 51Y			P17-V P21-21					.19 .13	NO NO		 24	
B 52	4											
B 52R			P17-S P20-8					.19 .13	NO NO		23 24	
B 52Y			P17-T P20-9					.19 .13	NO NO		23 24	
B 53	4											
B 53R			P16-60 P20-10					.13 .13	NO NO		21 24	
B 53Y			P16-61 P20-11					.13 .13	NO NO		21 24	
B 55	4											
B 55R			P17-E* P20-38					.19 .13	NO NO		 24	

SIZE A	CODE IDENT NO. 80230	6010660
SCALE-NONE	REV LTR A	SHEET 26 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 55Y			P17-H* P20-37					.19 .13	NO NO		23 24	
B 56	4											
B 56R			P17-P P21-27					.19 .13	NO NO		23 24	
B 56Y			P17-R P21-28					.19 .13	NO NO		23 24	
B 57	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 57A	12		SHLD B57 P16-15					.20 .13	NO NO		 21	
B 57R			P16-5 P21-33					.13 .13	NO NO		21 24	
B 57Y			P16-14 P21-34					.13 .13	NO NO		21 24	
B 58	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 58A	12		SHLD B58 P16-6					.20 .13	NO NO		 21	
B 58R			P16-17 P21-35					.13 .13	NO NO		21 24	
B 58Y			P16-16 P21-36					.13 .13	NO NO		21 24	

SIZE A	CODE IDENT NO. 80230	6010660
SCALE-NONE	REV LTR A	SHEET 27 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 59	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 59B	12		TB2-A1 SHLD B59					.25 .20	NO NO			
B 59R			P21-37 TB2-B1					.13 .25	NO NO		24	
B 59Y			P21-38 TB2-C1					.13 .25	NO NO		24	
B 60	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 60B	12		TB2-A2 SHLD B60					.25 .20	NO NO			
B 60R			P21-39 TB2-B2					.13 .25	NO NO		24	
B 60Y			P21-40 TB2-C2					.13 .25	NO NO		24	
B 61	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 61A	12		SHLD B61 P16-23					.20 .13	NO NO		 21	
B 61R			P16-9 P21-41					.13 .13	NO NO		21 24	
B 61Y			P16-22 P21-42					.13 .13	NO NO		21 24	

SIZE A	CODE IDENT NO. 80230	6010660
SCALE-NONE	REV LTR A	SHEET 28 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 62	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 62A	12		SHLD B62 P16-11					.20 .13	NO NO		 21	
B 62R			P16-10 P21-43					.13 .13	NO NO		21 24	
B 62Y			P16-24 P21-44					.13 .13	NO NO		21 24	
B 63	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 63B	12		TB2-A3 SHLD B63					.25 .20	NO NO			
B 63R			P21-45 TB2-B3					.13 .25	NO NO		24	
B 63Y			P21-46 TB2-C3					.13 .25	NO NO		24	
B 64	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 64B	12		TB2-A4 SHLD B64					.25 .20	NO NO			
B 64R			P21-47 TB2-B4					.13 .25	NO NO		24	
B 64Y			P21-48 TB2-C4					.13 .25	NO NO		24	

SIZE A	CODE IDENT NO. 80230	6010660
SCALE-NONE	REV LTR A	SHEET 29 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 65	8				1.75 1.75	1.50 1.50				68 7	29 30	
B 65A	12		SHLD B65 P16-52					.20 .13	NO NO		 21	
B 65R			P16-30 P21-51					.13 .13	NO NO		21 24	
B 65Y			P16-51 P21-52					.13 .13	NO NO		21 24	
B 66	8				1.75 1.75	1.50 1.50				68 7	29 30	
B 66A	12		SHLD B66 P16-54					.20 .13	NO NO		 21	
B 66R			P16-31 P21-53					.13 .13	NO NO		21 24	
B 66Y			P16-53 P21-54					.13 .13	NO NO		21 24	
B 67	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 67B	12		TB2-A5 SHLD B67					.25 .20	NO NO			
B 67R			P21-55 TB2-B5					.13 .25	NO NO		24	
B 67Y			P21-56 TB2-C5					.13 .25	NO NO		24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 30 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 68	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 68B	12		TB2-A6 SHLD B68					.25 .20	NO NO			
B 68R			P21-57 TB2-B6					.13 .25	NO NO		24	
B 68Y			P21-58 TB2-C6					.13 .25	NO NO		24	
B 69	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 69B	12		TB2-A1 SHLD B69					.25 .20	NO NO			
B 69R			P15-3 TB2-B1					.13 .25	NO NO		21	
B 69Y			P15-10 TB2-C1					.13 .25	NO NO		21	
B 70	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 70B	12		TB2-A2 SHLD B70					.25 .20	NO NO			
B 70R			P15-12 TB2-B2					.13 .25	NO NO		21	
B 70Y			P15-13 TB2-C2					.13 .25	NO NO		21	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 31 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 71	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 71B	12		TB2-A3 SHLD B71					.25 .20	NO NO			
B 71R			P15-7 TB2-B3					.13 .25	NO NO		21	
B 71Y			P15-18 TB2-C3					.13 .25	NO NO		21	
B 72	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 72B	12		TB2-A4 SHLD B72					.25 .20	NO NO			
B 72R			P15-8 TB2-B4					.13 .25	NO NO		21	
B 72Y			P15-9 TB2-C4					.13 .25	NO NO		21	
B 73	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 73B	12		TB2-A5 SHLD B73					.25 .20	NO NO			
B 73R			P15-5 TB2-B5					.13 .25	NO NO		21	
B 73Y			P15-14 TB2-C5					.13 .25	NO NO		21	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 32 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 74	8				1.75 1.25	1.50 1.00				7 68	30 29	
B 74B	12		TB2-A6 SHLD B74					.25 .20	NO NO			
B 74R			P15-16 TB2-B6					.13 .25	NO NO		21	
B 74Y			P15-17 TB2-C6					.13 .25	NO NO		21	
B 75	4											
B 75R			P16-35 P20-40					.13 .13	NO NO		21 24	
B 75Y			P16-36 P20-39					.13 .13	NO NO		21 24	
B 76	4											
B 76R			P16-37 P20-42					.13 .13	NO NO		21 24	
B 76Y			P16-38 P20-41					.13 .13	NO NO		21 24	
B 77	4											
B 77R			P16-39 P20-52					.13 .13	NO NO		21 24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 33 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 77Y			P16-40 P20-51					.13 .13	NO NO		21 24	
B 78	4											
B 78R			P18-7 P19-A22					.13 .19	NO NO		21 25	 2
B 78Y			P18-8 P19-B22					.13 .19	NO NO		21 25	 2
B 82	6											
B 82R			P16-47 P21-29					.13 .13	NO NO		21 24	
B 82Y			P16-48 P21-30					.13 .13	NO NO		21 24	
B 83	3		P16-49 P21-26					.13 .13	NO NO		21 24	
B 85	1		P17-L P17-M					.19 .19	NO NO		23 23	
B 87	1		P17-A* P17-B*					.19 .19	NO NO		23 23	
B 89	4											
B 89R			P17-F* P19-A26					.19 .19	NO NO		23 25	 2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 34 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 89Y			P17-G* P19-A25					.19 .19	NO NO		23 25	 2
B 90	4											
B 90R			P17-Y P19-G26					.19 .19	NO NO		23 25	 2
B 90Y			P17-Z P19-G25					.19 .19	NO NO		23 25	 2
B 91	4											
B 91R			P17-U P19-F26					.19 .19	NO NO		 25	 2
B 91Y			P17-D* P19-F25					.19 .19	NO NO		 25	 2
B 92	4											
B 92R			P17-U P19-D26					.19 .19	NO NO		23 25	 2
B 92Y			P17-D* P19-D25					.19 .19	NO NO		23 25	 2
B 93	6											
B 93R			P16-43 P21-31					.13 .13	NO NO		21 24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 35 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 93Y			P16-44 P21-32					.13 .13	NO NO		21 24	
B 94	3		P16-45 P21-20					.13 .13	NO NO		21 24	
B 95	2		J1-11 P21-19					.13 .13	NO NO		22 24	
B 98	1		P19-D15 E3					.19 .19	NO NO		25 48, 49	2 SMALL END
B 101	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 101A	12		SHLD B101 P16-21					.20 .13	NO NO		 21	
B 101B	12		TB2-A2 SHLD B101					.25 .20	NO NO		32, 30	
B 101R			P16-8 TB2-B2					.13 .25	NO NO		21 32, 30	
B 101Y			P16-20 TB2-C2					.13 .25	NO NO		21 32, 30	
B 102	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 102A	12		SHLD B102 P16-19					.20 .13	NO NO		 21	
B 102B	12		TB2-A1 SHLD B102					.25 .20	NO NO		32, 30	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 36 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 102R			P16-7 TB2-B1					.13 .25	NO NO		21 32, 30	
B 102Y			P16-18 TB2-C1					.13 .25	NO NO		21 32, 30	
B 103	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 103A	12		SHLD B103 P16-29					.20 .13	NO NO		 21	
B 103B	12		TB2-A4 SHLD B103					.25 .20	NO NO		32, 30	
B 103R			P16-13 TB2-B4					.13 .25	NO NO		21 32, 30	
B 103Y			P16-28 TB2-C4					.13 .25	NO NO		21 32, 30	
B 104	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 104A	12		SHLD B104 P16-27					.20 .13	NO NO		 21	
B 104B	12		TB2-A3 SHLD B104					.25 .20	NO NO		32, 30	
B 104R			P16-12 TB2-B3					.13 .25	NO NO		21 32, 30	
B 104Y			P16-26 TB2-C3					.13 .25	NO NO		21 32, 30	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 37 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 105	8				1.75	1.50				6B	29	
					1.25	1.00				6B	29	
B 105A	12		SHLD B105					.20	NO			
			P16-57					.13	NO		21	
B 105B	12		TB2-A6					.25	NO		32, 30	
			SHLD B105					.20	NO			
B 105R			P16-34					.13	NO		21	
			TB2-B6					.25	NO		32, 30	
B 105Y			P16-56					.13	NO		21	
			TB2-C6					.25	NO		32, 30	
B 106	8				1.75	1.50				6B	29	
					1.25	1.00				6B	29	
B 106A	12		SHLD B106					.20	NO			
			P16-33					.13	NO		21	
B 106B	12		TB2-A5					.25	NO		32, 30	
			SHLD B106					.20	NO			
B 106R			P16-32					.13	NO		21	
			TB2-B5					.25	NO		32, 30	
B 106Y			P16-55					.13	NO		21	
			TB2-C5					.25	NO		32, 30	
B 107	9											
B 107G			P17-C					.19	NO		23	
			P21-23					.13	NO		24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 38 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 107R			P17-V					.19	NO			
			P21-24					.13	NO		24	
B 107Y			P17-V					.19	NO		23	
			P21-25					.13	NO		24	
B 112	2		J1-12					.13	NO		22	
			P17-B*					.19	NO			
B 113	3		P16-46					.13	NO		21	
			P20-25					.13	NO		24	
B 117	3		P16-50					.13	NO		21	
			P19-C24					.19	NO		26	2
B 118	3		P17-E*					.19	NO		23	
			P21-59					.13	NO		24	
B 119	58				1.75	1.50				6B	29	
					1.75	1.50				6A	29	
B 119A	12		SHLD B119					.20	NO			
			P16-69					.13	NO		21	
B 119B	1		E40					.25	NO		60	
			SHLD B119					.20	NO			
B 119Y			P16-25					.13	NO		21	
			P21-13					.13	NO		24	
B 120	11											
B 120G			P16-4					.13	NO		21	
			P20-22					.13	NO		24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 39 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 120N			P16-3					.13	NO		21	
			P20-21					.13	NO		24	
B 120R			P16-1					.13	NO		21	
			P20-19					.13	NO		24	
B 120Y			P16-2					.13	NO		21	
			P20-20					.13	NO		24	

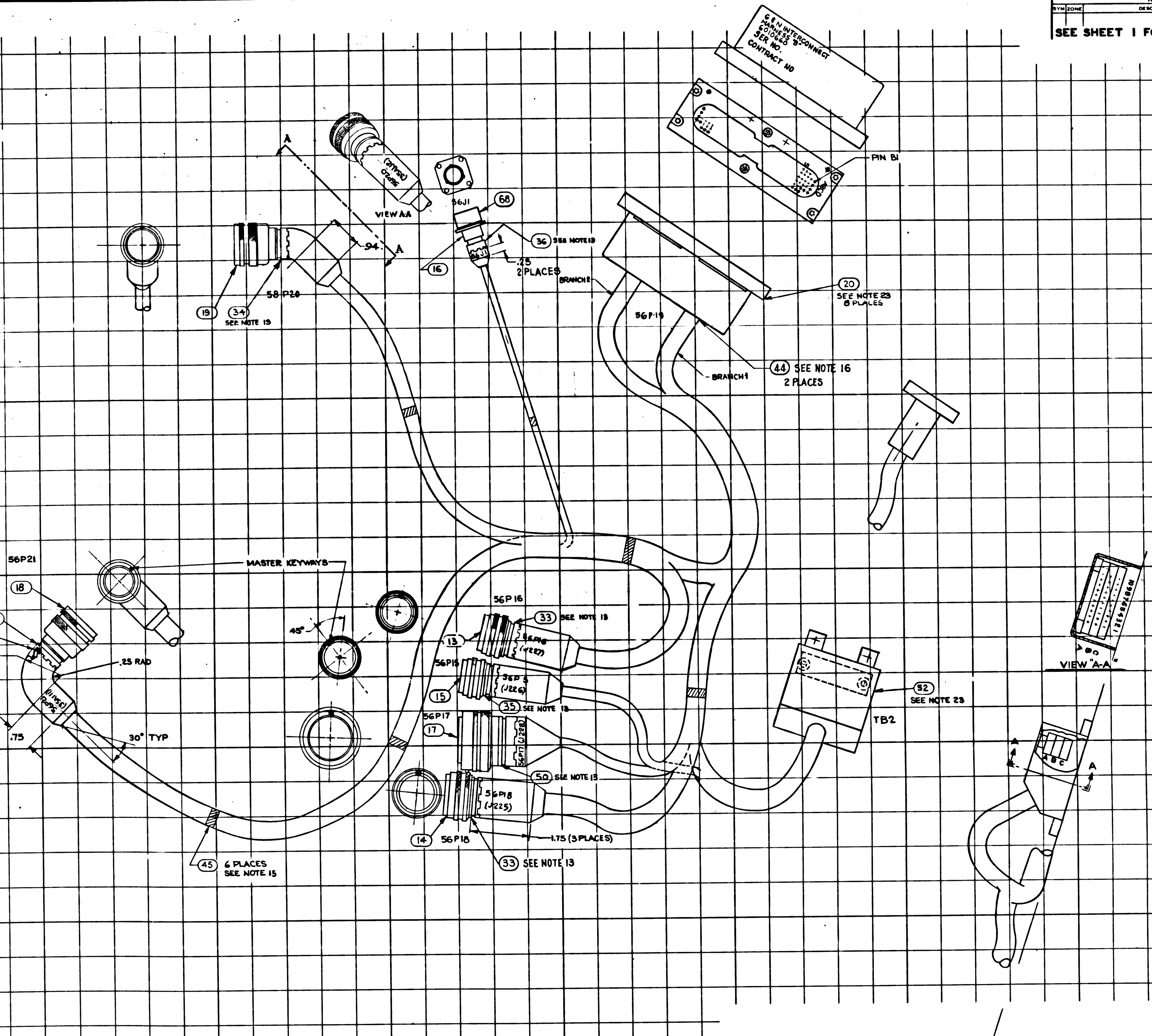
SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 40 OF 41

MIL 2084 9-65

REVISIONS TDRR 31139

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD

SEE SHEET 1 FOR REVISION RECORD



G&N INTERCONNECT HARNESS "B" 6010660 SER NO. CONTRACT NO
PIN B1
VIEW AA
A
.94
56J1
68
36 SEE NOTE 13
16
.25 2 PLACES
BRANCH 2
20 SEE NOTE 23 8 PLACES
56P19
44 SEE NOTE 16 2 PLACES
BRANCH 1
19
34 SEE NOTE 13
58 P20
56P21
18
SEE NOTE 13 59
61 62
RAD.
.25 RAD
.75
30° TYP
MASTER KEYWAYS
45°
56P16
33 SEE NOTE 13
13
56P15
56P3 (J226)
15
35 SEE NOTE 13
56P17
17
50 SEE NOTE 13
56P18 (J225)
14
56P18
1.75 (3 PLACES)
33 SEE NOTE 13
45 6 PLACES SEE NOTE 15
52 SEE NOTE 23
TB2
VIEW "A-A"
A B C
A

6010660

REV LTR A

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —— DECIMALS ± .03 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN R.W. Turner 1 Jul 66
CHECKED W. Scott 5 Jul 66
APPROVED Paul Nelson
APPROVED
APPROVED CCB 9/22/66
APPROVED R. Jacobs 9/28/66
MSC DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "B"
(LEM)

CODE IDENT NO. 80230
SIZE E
DRAWING NO. 6010660
SCALE 1/1
SHEET 2 OF 2

MX-10991

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
6014515	6014515	A	INITIAL RELEASE CLASS A PER TDRR 31139	7 JUL '66	W.S.
		B	REVISED PER TDRR 31208	4 Oct. 66	SS

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B
SHEET		21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
REV STATUS OF SHEETS	REV	B	A	B	B	A	A	B	A	B	A	A	A	A	A	A	A	A	A	A	A	
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN J. Krahn 29 JUN 66 (DAY MO YR)
CHECKER Duell 5 JUL 66
ENGINEER Basta 5 JUL 66
APPROVAL
CONTR NO. NAS 9-497

NASA APPROVAL P. Jacob
CCB APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS B
(LEM)

SIZE A
CODE IDENT. NO 80230
6010660
SCALE NONE
SHEET 1 OF 41

MIL 1377A6 12-65

NOTE GENERAL NOTES

NUMBER DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURES 6B AND 6A AND ND1002032 FOR FIGURE 7

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

3 INTERCONNECT LIST FOR THIS HARNESS IS 6014505

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A LEAD IDENTIFICATION IDENTIFIES A SHIELD LEAD, COLOR OR MARKED LETTER
 A - SHIELD LEAD ON FROM END
 B - SHIELD LEAD ON TO END
 G- GREEN
 K- BLACK
 L- BLUE
 N-BROWN
 R-RED
 W-WHITE
 Y-YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION.

8 UNLESS OTHERWISE SPECIFIED, FEATURE CENTER LINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING

10 CRIMP CONTACTS PER ND1002032

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR A	SHEET 2 OF 41	

NOTE GENERAL NOTES

NUMBER DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
CONNECTORS 56P15, 16, 18, AND J1, USE ITEM NUMBER 27
CONNECTOR 56P17, USE ITEM NUMBER 51
CONNECTORS 56P20 AND 21, USE ITEM NUMBER 28

12 LACE HARNESS PER ND1002032 USING, ITEM NUMBER 43.

13 APPLY BONDING MATERIAL PER ND1002187, TYPE 1, USING ITEMS 56 AND 57 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE ITEM 45 TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

17 MARK CONNECTOR WITH REFERENCE DESIGNATION AS SHOWN .12 HIGH, BLACK, PER ND1002019. CENTRALIZE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019.
SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM, EXCEPT FOR CONDUCTORS USING ITEM NUMBER 10. THESE SHALL BE LESS THAN 2 OHMS. TEST PER MIL-STD-202, METHOD 303.

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR B	SHEET 3 OF 41	

NOTE GENERAL NOTES

NUMBER DESCRIPTION

21 INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
 A. THE ASSEMBLY PINS AND STRUCTURE GROUND, EXCEPT THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND.
 B. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA

23 ENCAPSULATE BACK OF CONNECTORS AND JUNCTION BOX ASSY PER ND1002236 USING ITEMS 46 AND 55.

24 CONDUCTORS SHALL ENTER CONNECTOR 56P19 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

25 PERFORM WORKMANSHIP VIBRATION
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10U SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

26 ASSEMBLE INSULATION SLEEVE ITEM 64 OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTOR P19. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

27 SOLDER PER ND1002071 USING ITEM 65, OR ITEMS 66 AND 67.

28 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187 TYPE III, USING ITEMS 56, 57, 69 AND 70.

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR B	SHEET 4 OF 41	

NOTE GENERAL NOTES

NUMBER DESCRIPTION

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR A	SHEET 5 OF 41	

HARNESS B 6010660

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	1	1	6010660-001	WIRE PER 1010789-006, 22AWG, YEL, 10 FT TOT LG
	2	1	6010660-002	WIRE PER 1010789-001, 24AWG, YEL, 15 FT TOT LG
	3	1	6010660-003	WIRE PER 1010789-016, 26AWG, YEL, 15 FT TOT LG
	4	1	6010660-004	WIRE PER 1010789-008, 22AWG, YEL, RED, 55 FT TOTAL LG
	5	1	6010660-005	WIRE PER 1010789-003, 24AWG, YEL, RED, 15 FT TOTAL LG
	6	1	6010660-006	WIRE PER 1010789-017, 26AWG, YEL, RED, 20 FT TOT LG
	7	1	6010660-007	WIRE PER 1010789-012, YEL JKT, 24AWG YEL,RED, 10 FT TOT LG
	8	1	6010660-008	WIRE PER 1010789-015, YEL JKT, 26AWG YEL RED, 90 FT TOT LG
	9	1	6010660-009	WIRE PER 1010789-009, 22AWG YEL, RED, GRN, 10 FT TOT LG
	10	1	6010660-010	WIRE PER 1010707-1, RED JKT, 29AWG RED WHT BLU 15 FT TOT LG
	11	1	6010660-011	WIRE PER 1010789-005 24AWG, YEL RED GRN BRN 5 FT TOT LG
	12	1	6010660-012	WIRE PER 1010789-002, 24AWG BLK 80 FT TOT LG
9	13	1	1010929-103	CONNECTOR PLUG ELECTRICAL (56P16)
9	14	1	1010929-104	CONNECTOR PLUG ELECTRICAL (56P18)

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR A	SHEET 6 OF 41	

LIMA 101066 HARNESS B 6010660 B

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	15	1	1010929-109	CONNECTOR PLUG ELECTRICAL (56P15)
9	16	1	1010930-014	CONNECTOR RECEPTACLE ELECTRICAL (56J1)
9	17	1	1010947-105	CONNECTOR PLUG ELECTRICAL (56P17)
9	18	1	1010965-001	CONNECTOR PLUG ELECTRICAL (56P21)
9	19	1	1010965-002	CONNECTOR PLUG ELECTRICAL (56P20)
	20	1	6014535-021	CONNECTOR ASSEMBLY ELECTRICAL (56P19)
9	21	X	1010770- 1	CONTACTS SUPPLIED WITH CONNECTOR 1010929
9	22	X	1010770- 2	CONTACTS SUPPLIED WITH CONNECTOR 1010930
	23	X	1010964-001	CONTACTS SUPPLIED WITH CONNECTOR 1010947
9	24	X	1010781- 1	CONTACT, SOCKET SUPPLIED WITH CONNECTOR 1010965
9	25	56	1010955-001	CONTACT, ELECTRICAL MINIATURE, MALE
9	26	63	1010955-002	CONTACT, ELECTRICAL MINIATURE, MALE
9	27	78	1010958-001	PLUG PROTECTIVE SEALING
9	28	24	1010984	PLUG PROTECTIVE SEALING
9	29	73	1010402- 2	SLEEVE, SOLDER
9	30	39	1010490-110	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	31	6	1010490-112	INSULATION SLEEVING, ELECTRICAL, HEAT SHRINK
9	32	18	1010979- 2	PIN, TAPER

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR B	SHEET 7 OF 41	

HARNESS B 6010660

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	33	2	2014670- 4	ADAPTER, SUBMINIATURE CONN.
	34	1	2014670- 6	ADAPTER, SUBMINIATURE CONN.
	35	1	2014670- 7	ADAPTER, SUBMINIATURE CONN.
	36	1	2014670- 9	ADAPTER, SUBMINIATURE CONN.
9	43	AR	1012507-004	TAPE, LACING
	44	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II .25 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
9	47	16	1010862	BUSHING, SLEEVE
9	48	1	1010945- 1	REDUCER, SPLICE
9	49	1	1012534- 95	INSULATION SLEEVING ELECTRICAL HEAT SHRINK
	50	1	2014670- 1	ADAPTER SUBMINIATURE CONN.
9	51	7	1010958- 2	PLUG PROTECTIVE, SEALING
	52	1	6010654-011	JUNCTION BOX ASSEMBLY
9	55	AR	1012504	PRIMER, METAL PARTS
9	56	AR	1010661	EPOXY RESIN
9	57	AR	1010679	ADHESIVE ACTIVATOR
	58	1	6010660-013	WIRE PER 1010789-011, 24AWG, YEL, YEL JKT, 5 FT TOT LG.

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR A	SHEET 8 OF 41	

LIMA 101066 HARNESS B 6010660 B

SEE NOTE LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	59	1	2014670-014	ADAPTER, CONNECTOR
	60	1	2021203	TERMINAL LUG, SOLDER
	61	1	MS35333-69	WASHER, LOCK
9	62	1	1006783- 93	SCREW, BUTTON HD
9	63	6	1010763- 2	SLEEVE, SOLDER
	64	119	1010490-114	INSULATION SLEEVING (HEAT SHRINKABLE)
	65	AR	SN 60 WRAP 2	SOLDER QQ-S-571
	66	AR	SN 60 WS	SOLDER QQ-S-571
	67	AR	MIL-F-14256 TYPE A OR W	FLUX
9	68	1	1008808-012	CAP, PROTECTIVE
9	69	AR	1008822	COLORANT, EPOXY BASE
9	70	AR	1006277	SILICA, PULVERIZED PYROGENIC

SIZE A	CODE IDENT NO. 80230	6010660	
SCALE-NONE	REV LTR B	SHEET 9 OF 41	

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 1	7				1.75 1.00	1.50 .75				68 68	29 29	
B 1A	12		SHLD B1 P18-17					.20 .13	NO NO		21	
B 1B	12		P19-A12 SHLD B1					.19 .20	NO NO		25	2
B 1R			P18-16 P19-A10					.13 .19	NO NO		21 25	2
B 1Y			P18-33 P19-A11					.13 .19	NO NO		21 25	2
B 2	8				1.75 1.00	1.50 .75				68 68	29 29	
B 2A	12		SHLD B2 P18-9					.20 .13	NO NO		21	
B 2B	12		P19-A6 SHLD B2					.19 .20	NO NO		25	1
B 2R			P18-22 P19-A4					.13 .19	NO NO		21 26	1
B 2Y			P18-21 P19-A5					.13 .19	NO NO		21 26	1
B 3	8				1.75 1.00	1.50 .75				68 68	29 29	
B 3A	12		SHLD B3 P18-24					.20 .13	NO NO		21	

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR *A
SHEET 10 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 3B	12		P19-B6 SHLD B3					.19 .20	NO NO		25	1
B 3R			P18-10 P19-B4					.13 .19	NO NO		21 26	1
B 3Y			P18-23 P19-B5					.13 .19	NO NO		21 26	1
B 4	8				1.75 1.00	1.50 .75				68 68	29 29	
B 4A	12		SHLD B4 P18-26					.20 .13	NO NO		21	
B 4B	12		P19-C6 SHLD B4					.19 .20	NO NO		25	1
B 4R			P18-11 P19-C4					.13 .19	NO NO		21 26	1
B 4Y			P18-25 P19-C5					.13 .19	NO NO		21 26	1
B 5	8				1.75 1.00	1.50 .75				68 68	29 29	
B 5A	12		SHLD B5 P18-13					.20 .13	NO NO		21	
B 5B	12		P19-D6 SHLD B5					.19 .20	NO NO		25	1
B 5R			P18-12 P19-D4					.13 .19	NO NO		21 26	1

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR *A
SHEET 11 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 5Y			P18-27 P19-D5					.13 .19	NO NO		21 26	1
B 6	8				1.75 1.00	1.50 .75				68 68	29 29	
B 6A	12		SHLD B6 P18-30					.20 .13	NO NO		21	
B 6B	12		P19-F6 SHLD B6					.19 .20	NO NO		25	1
B 6R			P18-14 P19-F4					.13 .19	NO NO		21 26	1
B 6Y			P18-29 P19-F5					.13 .19	NO NO		21 26	1
B 7	8				1.75 1.00	1.50 .75				68 68	29 29	
B 7A	12		SHLD B7 P18-32					.20 .13	NO NO		21	
B 7B	12		P19-G6 SHLD B7					.19 .20	NO NO		25	1
B 7R			P18-15 P19-G4					.13 .19	NO NO		21 26	1
B 7Y			P18-31 P19-G5					.13 .19	NO NO		21 26	1
B 8	8				1.75 1.00	1.50 .75				68 68	29 29	

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR *A
SHEET 12 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 8A	12		SHLD B8 P18-38					.20 .13	NO NO		21	
B 8B	12		P19-F13 SHLD B8					.19 .20	NO NO		25	2
B 8R			P18-63 P19-G13					.13 .19	NO NO		21 26	2
B 8Y			P18-62 P19-D13					.13 .19	NO NO		21 26	2
B 9	4											
B 9R			P17-E* P19-A24					.19 .19	NO NO		25	2
B 9Y			P17-H* P19-A23					.19 .19	NO NO		25	2
B 10	4											
B 10R			P17-F* P19-B26					.19 .19	NO NO		25	2
B 10Y			P17-G* P19-B25					.19 .19	NO NO		25	2
B 11	4											
B 11R			P17-Y P19-C26					.19 .19	NO NO		25	2

SIZE A
CODE IDENT NO. 80230
6010660
SCALE-NONE
REV LTR *A
SHEET 13 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 11Y			P17-Z P19-C25					.19 .19	NO NO		25	2
B 12	1		P17-A P19-B24					.19 .19	NO NO		23 25	2
B 13	1		P19-B23 P17-X					.19 .19	NO NO		25 23	2
B 14	6											
B 14R			P18-81 P19-G22					.13 .19	NO NO		21 26	2
B 14Y			P18-56 P19-F22					.13 .19	NO NO		21 26	2
B 15	6											
B 15R			P18-2 P19-B21					.13 .19	NO NO		21 26	2
B 15Y			P18-1 P19-B20					.13 .19	NO NO		21 26	2
B 16	6											
B 16R			P18-3 P19-D21					.13 .19	NO NO		21 26	2
B 16Y			P18-4 P19-D20					.13 .19	NO NO		21 26	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 14 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 17	6											
B 17R			P18-5 P19-G21					.13 .19	NO NO		21 26	2
B 17Y			P18-6 P19-G20					.13 .19	NO NO		21 26	2
B 18	7				1.75 1.00	1.50 .75				6B 6B	29 29	
B 18A	12		SHLD B18 P18-36					.20 .13	NO NO		21	
B 18B	12		P19-C12 SHLD B18					.19 .20	NO NO		25	2
B. 18R			P18-18 P19-C10					.13 .19	NO NO		21 25	2
B 18Y			P18-35 P19-C11					.13 .19	NO NO		21 25	2
B 19	7				1.75 1.00	1.50 .75				6B 6B	29 29	
B 19A	12		SHLD B19 P18-20					.20 .13	NO NO		21	
B 19B	12		P19-B12 SHLD B19					.19 .20	NO NO		25	2
B 19R			P18-19 P19-B10					.13 .19	NO NO		21 25	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 15 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 19Y			P18-37 P19-B11					.13 .19	NO NO		21 25	2
B 20	5											
B 20R			P18-85 P19-A21					.13 .19	NO NO		21 25	2
B 20Y			P18-61 P19-A20					.13 .19	NO NO		21 25	2
B 21	5											
B 21R			P18-84 P19-C21					.13 .19	NO NO		21 25	2
B 21Y			P18-59 P19-C20					.13 .19	NO NO		21 25	2
B 22	5											
B 22R			P18-82 P19-F21					.13 .19	NO NO		21 25	2
B 22Y			P18-58 P19-F20					.13 .19	NO NO		21 25	2
B 23	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 23A	12		SHLD B23 P19-B3					.20 .19	NO NO		25	1

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 16 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 23R			P19-B1 P20-7					.19 .13	NO NO		26 24	1
B 23Y			P19-B2 P20-6					.19 .13	NO NO		26 24	1
B 24	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 24A	12		SHLD B24 P19-C3					.20 .19	NO NO		25	1
B 24R			P19-C1 P20-18					.19 .13	NO NO		26 24	1
B 24Y			P19-C2 P20-17					.19 .13	NO NO		26 24	1
B 25	8				1.00 1.75	.75 1.50				6B 7	29 30	
B 25A	12		SHLD B25 P19-D3					.20 .19	NO NO		25	1
B 25R			P19-D1 P20-36					.19 .13	NO NO		26 24	1
B 25Y			P19-D2 P20-35					.19 .13	NO NO		26 24	1
B 26	10				1.00 1.75	.75 1.50				6B 7	63 31	
B 26A	12		SHLD B26 P19-B17					.20 .19	NO NO		25	2

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 17 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 26L			P19-F17 P20-3					.19 .13	NO NO		26 24, 47	2
B 26R			P19-C17 P20-1					.19 .13	NO NO		26 24, 47	2
B 26W			P19-D17 P20-2					.19 .13	NO NO		26 24, 47	2
B 27	10				1.00 1.75	.75 1.50				6B 7	63 31	
B 27A	12		SHLD B27 P19-B18					.20 .19	NO NO		25	2
B 27L			P19-F18 P20-14					.19 .13	NO NO		26 24, 47	2
B 27R			P19-C18 P20-12					.19 .13	NO NO		26 24, 47	2
B 27W			P19-D18 P20-13					.19 .13	NO NO		26 24, 47	2
B 28	10				1.00 1.75	.75 1.50				6B 7	63 31	
B 28A	12		SHLD B28 P19-B19					.20 .19	NO NO		25	2
B 28L			P19-F19 P20-61					.19 .13	NO NO		26 24, 47	2
B 28R			P19-C19 P20-59					.19 .13	NO NO		26 24, 47	2

SIZE	CODE IDENT NO.		
A	80230	6010660	
SCALE-NONE	REV LTR A		SHEET 18 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 28W			P19-D19 P20-60					.19 .13	NO NO		26 24, 47	2
B 29	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 29A	12		SHLD B29 P18-42					.20 .13	NO NO		21	
B 29B	12		P19-G12 SHLD B29					.19 .20	NO NO		25	1
B 29R			P18-41 P19-G10					.13 .19	NO NO		21 26	1
B 29Y			P18-66 P19-G11					.13 .19	NO NO		21 26	1
B 30	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 30A	12		SHLD B30 P18-71					.20 .13	NO NO		21	
B 30B	12		P19-A9 SHLD B30					.19 .20	NO NO		25	1
B 30R			P18-46 P19-A7					.13 .19	NO NO		21 26	1
B 30Y			P18-70 P19-A8					.13 .19	NO NO		21 26	1
B 31	8				1.75 1.00	1.50 .75				6B 6B	29 29	

SIZE	CODE IDENT NO.		
A	80230	6010660	
SCALE-NONE	REV LTR A		SHEET 19 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 31A	12		SHLD B31 P18-47					.20 .13	NO NO		21	
B 31B	12		P19-B9 SHLD B31					.19 .20	NO NO		25	1
B 31R			P18-72 P19-B7					.13 .19	NO NO		21 26	1
B 31Y			P18-48 P19-B8					.13 .19	NO NO		21 26	1
B 32	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 32A	12		SHLD B32 P18-80					.20 .13	NO NO		21	
B 32B	12		P19-C9 SHLD B32					.19 .20	NO NO		25	1
B 32R			P18-55 P19-C7					.13 .19	NO NO		21 26	1
B 32Y			P18-79 P19-C8					.13 .19	NO NO		21 26	1
B 33	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 33A	12		SHLD B33 P18-40					.20 .13	NO NO		21	
B 33B	12		P19-D9 SHLD B33					.19 .20	NO NO		25	1

SIZE	CODE IDENT NO.		
A	80230	6010660	
SCALE-NONE	REV LTR A		SHEET 20 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 33R			P18-64 P19-D7					.13 .19	NO NO		21 26	1
B 33Y			P18-65 P19-D8					.13 .19	NO NO		21 26	1
B 34	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 34A	12		SHLD B34 P18-52					.20 .13	NO NO		21	
B 34B	12		P19-F9 SHLD B34					.19 .20	NO NO		25	1
B 34R			P18-77 P19-F7					.13 .19	NO NO		21 26	1
B 34Y			P18-76 P19-F8					.13 .19	NO NO		21 26	1
B 35	8				1.75 1.00	1.50 .75				6B 6B	29 29	
B 35A	12		SHLD B35 P18-54					.20 .13	NO NO		21	
B 35B	12		P19-G9 SHLD B35					.19 .20	NO NO		25	1
B 35R			P18-53 P19-G7					.13 .19	NO NO		21 26	1
B 35Y			P18-78 P19-G8					.13 .19	NO NO		21 26	1

SIZE	CODE IDENT NO.		
A	80230	6010660	
SCALE-NONE	REV LTR A		SHEET 21 OF 41

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 36	8				1.75 1.00	1.50 .75				68 68	29 29	
B 36A	12		SHLD B36 P18-68					.20 .13	NO NO		21	
B 36B	12		P19-F12 SHLD B36					.19 .20	NO NO		25	1
B 36R			P18-43 P19-F10					.13 .19	NO NO		21 26	1
B 36Y			P18-67 P19-F11					.13 .19	NO NO		21 26	1
B 37	8				1.75 1.00	1.50 .75				68 68	29 29	
B 37A	12		SHLD B37 P18-45					.20 .13	NO NO		21	
B 37B	12		P19-D12 SHLD B37					.19 .20	NO NO		25	1
B 37R			P18-44 P19-D10					.13 .19	NO NO		21 26	1
B 37Y			P18-69 P19-D11					.13 .19	NO NO		21 26	1
B 38	10				1.00 1.75	.75 1.50				68 7	63 31	
B 38A	12		SHLD B38 E3					.20 .19	NO NO			LARGE END

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 22 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 38L			NONE NONE				1.00 1.75					
B 38R			P19-D16 P20-5					.19 .13	NO NO		26 24, 47	2
B 38W			P19-C16 P20-4					.19 .13	NO NO		26 24, 47	2
B 39	10				1.00 1.75	.75 1.50				68 7	63 31	
B 39A	12		SHLD B39 E3					.20 .25	NO NO			LARGE END
B 39L			NONE NONE				1.00 1.75					
B 39R			P19-D14 P20-16					.19 .13	NO NO		26 24, 47	2
B 39W			P19-C14 P20-15					.19 .13	NO NO		26 24, 47	2
B 40	10				1.00 1.75	.75 1.50				68 7	63 31	
B 40A	12		SHLD B40 E3					.20 .25	NO NO			LARGE END
B 40L			P19-F14 P20-32					.19 .13	NO NO		26 24, 47	2
B 40R			P19-F15 P20-34					.19 .13	NO NO		26 24, 47	2

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 23 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 40W			P19-F16 P20-33					.19 .13	NO NO		26 24, 47	2
B 42	1		P21-1 P17-X					.13 .19	NO NO		24	
B 43	4											
B 43R			P17-M P21-2					.19 .13	NO NO		24	
B 43Y			P17-B* P21-4					.19 .13	NO NO		24	
B 44	4											
B 44R			P17-L P21-3					.19 .13	NO NO		24	
B 44Y			P17-A* P21-5					.19 .13	NO NO		24	
B 45	4											
B 45R			J1-2 P21-6					.13 .13	NO NO		22 24	
B 45Y			J1-9 P21-8					.13 .13	NO NO		22 24	
B 46	4											

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 24 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 46R			J1-3 P21-7					.13 .13	NO NO		22 24	
B 46Y			J1-10 P21-9					.13 .13	NO NO		22 24	
B 47	9											
B 47G			P17-W P21-12					.19 .13	NO NO		23 24	
B 47R			P17-D P21-10					.19 .13	NO NO		23 24	
B 47Y			P17-E P21-11					.19 .13	NO NO		23 24	
B 48	5											
B 48R			J1-5 P21-14					.13 .13	NO NO		22 24	
B 48Y			J1-15 P21-15					.13 .13	NO NO		22 24	
B 49	2		J1-14 P21-16					.13 .13	NO NO		22 24	
B 50	5											
B 50R			J1-13 P21-17					.13 .13	NO NO		22 24	

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 25 OF 41

HARNESS B

6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 50Y			J1-4 P21-18					.13 .13	NO NO		22 24	
B 51	4											
B 51R			P17-B P21-22					.19 .13	NO NO		23 24	
B 51Y			P17-V P21-21					.19 .13	NO NO		24	
B 52	4											
B 52R			P17-S P20-8					.19 .13	NO NO		23 24	
B 52Y			P17-T P20-9					.19 .13	NO NO		23 24	
B 53	4											
B 53R			P16-60 P20-10					.13 .13	NO NO		21 24	
B 53Y			P16-61 P20-11					.13 .13	NO NO		21 24	
B 55	4											
B 55R			P17-E* P20-38					.19 .13	NO NO		24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 26 OF 41

MIL 2084 9-65

HARNESS B

6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 55Y			P17-H* P20-37					.19 .13	NO NO		23 24	
B 56	4											
B 56R			P17-P P21-27					.19 .13	NO NO		23 24	
B 56Y			P17-R P21-28					.19 .13	NO NO		23 24	
B 57	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 57A	12		SHLD B57 P16-15					.20 .13	NO NO		21	
B 57R			P16-5 P21-33					.13 .13	NO NO		21 24	
B 57Y			P16-14 P21-34					.13 .13	NO NO		21 24	
B 58	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 58A	12		SHLD B58 P16-6					.20 .13	NO NO		21	
B 58R			P16-17 P21-35					.13 .13	NO NO		21 24	
B 58Y			P16-16 P21-36					.13 .13	NO NO		21 24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 27 OF 41

MIL 2084 9-65

HARNESS B

6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 59	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 59B	12		TB2-A1 SHLD B59					.25 .20	NO NO			
B 59R			P21-37 TB2-B1					.13 .25	NO NO		24	
B 59Y			P21-38 TB2-C1					.13 .25	NO NO		24	
B 60	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 60B	12		TB2-A2 SHLD B60					.25 .20	NO NO			
B 60R			P21-39 TB2-B2					.13 .25	NO NO		24	
B 60Y			P21-40 TB2-C2					.13 .25	NO NO		24	
B 61	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 61A	12		SHLD B61 P16-23					.20 .13	NO NO		21	
B 61R			P16-9 P21-41					.13 .13	NO NO		21 24	
B 61Y			P16-22 P21-42					.13 .13	NO NO		21 24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 28 OF 41

MIL 2084 9-65

HARNESS B

6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 62	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 62A	12		SHLD B62 P16-11					.20 .13	NO NO		21	
B 62R			P16-10 P21-43					.13 .13	NO NO		21 24	
B 62Y			P16-24 P21-44					.13 .13	NO NO		21 24	
B 63	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 63B	12		TB2-A3 SHLD B63					.25 .20	NO NO			
B 63R			P21-45 TB2-B3					.13 .25	NO NO		24	
B 63Y			P21-46 TB2-C3					.13 .25	NO NO		24	
B 64	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 64B	12		TB2-A4 SHLD B64					.25 .20	NO NO			
B 64R			P21-47 TB2-B4					.13 .25	NO NO		24	
B 64Y			P21-48 TB2-C4					.13 .25	NO NO		24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 29 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 65	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 65A	12		SHLD B65 P16-52					.20 .13	NO NO		21	
B 65R			P16-30 P21-51					.13 .13	NO NO		21 24	
B 65Y			P16-51 P21-52					.13 .13	NO NO		21 24	
B 66	8				1.75 1.75	1.50 1.50				6B 7	29 30	
B 66A	12		SHLD B66 P16-54					.20 .13	NO NO		21	
B 66R			P16-31 P21-53					.13 .13	NO NO		21 24	
B 66Y			P16-53 P21-54					.13 .13	NO NO		21 24	
B 67	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 67B	12		TB2-A5 SHLD B67					.25 .20	NO NO			
B 67R			P21-55 TB2-B5					.13 .25	NO NO		24	
B 67Y			P21-56 TB2-C5					.13 .25	NO NO		24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 30 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 68	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 68B	12		TB2-A6 SHLD B68					.25 .20	NO NO			
B 68R			P21-57 TB2-B6					.13 .25	NO NO		24	
B 68Y			P21-58 TB2-C6					.13 .25	NO NO		24	
B 69	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 69B	12		TB2-A1 SHLD B69					.25 .20	NO NO			
B 69R			P15-3 TB2-B1					.13 .25	NO NO		21	
B 69Y			P15-10 TB2-C1					.13 .25	NO NO		21	
B 70	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 70B	12		TB2-A2 SHLD B70					.25 .20	NO NO			
B 70R			P15-12 TB2-B2					.13 .25	NO NO		21	
B 70Y			P15-13 TB2-C2					.13 .25	NO NO		21	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 31 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 71	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 71B	12		TB2-A3 SHLD B71					.25 .20	NO NO			
B 71R			P15-7 TB2-B3					.13 .25	NO NO		21	
B 71Y			P15-18 TB2-C3					.13 .25	NO NO		21	
B 72	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 72B	12		TB2-A4 SHLD B72					.25 .20	NO NO			
B 72R			P15-8 TB2-B4					.13 .25	NO NO		21	
B 72Y			P15-9 TB2-C4					.13 .25	NO NO		21	
B 73	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 73B	12		TB2-A5 SHLD B73					.25 .20	NO NO			
B 73R			P15-5 TB2-B5					.13 .25	NO NO		21	
B 73Y			P15-14 TB2-C5					.13 .25	NO NO		21	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 32 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 74	8				1.75 1.25	1.50 1.00				7 6B	30 29	
B 74B	12		TB2-A6 SHLD B74					.25 .20	NO NO			
B 74R			P15-16 TB2-B6					.13 .25	NO NO		21	
B 74Y			P15-17 TB2-C6					.13 .25	NO NO		21	
B 75	4											
B 75R			P16-35 P20-40					.13 .13	NO NO		21 24	
B 75Y			P16-36 P20-39					.13 .13	NO NO		21 24	
B 76	4											
B 76R			P16-37 P20-42					.13 .13	NO NO		21 24	
B 76Y			P16-38 P20-41					.13 .13	NO NO		21 24	
B 77	4											
B 77R			P16-39 P20-52					.13 .13	NO NO		21 24	

SIZE	CODE IDENT NO.	
A	80230	6010660
SCALE-NONE	REV LTR A	SHEET 33 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 77Y			P16-40 P20-51					.13 .13	NO NO		21 24	
B 78	4											
B 78R			P18-7 P19-A22					.13 .19	NO NO		21 25	2
B 78Y			P18-8 P19-B22					.13 .19	NO NO		21 25	2
B 82	6											
B 82R			P16-47 P21-29					.13 .13	NO NO		21 24	
B 82Y			P16-48 P21-30					.13 .13	NO NO		21 24	
B 83	3		P16-49 P21-26					.13 .13	NO NO		21 24	
B 85	1		P17-L P17-M					.19 .19	NO NO		23 23	
B 87	1		P17-A* P17-B*					.19 .19	NO NO		23 23	
B 89	4											
B 89R			P17-F* P19-A26					.19 .19	NO NO		23 25	2

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 34 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 89Y			P17-G* P19-A25					.19 .19	NO NO		23 25	2
B 90	4											
B 90R			P17-Y P19-G26					.19 .19	NO NO		23 25	2
B 90Y			P17-Z P19-G25					.19 .19	NO NO		23 25	2
B 91	4											
B 91R			P17-U P19-F26					.19 .19	NO NO		25	2
B 91Y			P17-D* P19-F25					.19 .19	NO NO		25	2
B 92	4											
B 92R			P17-U P19-D26					.19 .19	NO NO		23 25	2
B 92Y			P17-D* P19-D25					.19 .19	NO NO		23 25	2
B 93	6											
B 93R			P16-43 P21-31					.13 .13	NO NO		21 24	

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 35 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 93Y			P16-44 P21-32					.13 .13	NO NO		21 24	
B 94	3		P16-45 P21-20					.13 .13	NO NO		21 24	
B 95	2		J1-11 P21-19					.13 .13	NO NO		22 24	
B 98	1		P19-D15 E3					.19 .19	NO NO		25 48, 49	2 SMALL END
B 101	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 101A	12		SHLD B101 P16-21					.20 .13	NO NO		21	
B 101B	12		TB2-A2 SHLD B101					.25 .20	NO NO		32, 30	
B 101R			P16-8 TB2-B2					.13 .25	NO NO		21 32, 30	
B 101Y			P16-20 TB2-C2					.13 .25	NO NO		21 32, 30	
B 102	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 102A	12		SHLD B102 P16-19					.20 .13	NO NO		21	
B 102B	12		TB2-A1 SHLD B102					.25 .20	NO NO		32, 30	

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 36 OF 41

MIL 2084 9-65

HARNESS B 6010660

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 102R			P16-7 TB2-B1					.13 .25	NO NO		21 32, 30	
B 102Y			P16-18 TB2-C1					.13 .25	NO NO		21 32, 30	
B 103	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 103A	12		SHLD B103 P16-29					.20 .13	NO NO		21	
B 103B	12		TB2-A4 SHLD B103					.25 .20	NO NO		32, 30	
B 103R			P16-13 TB2-B4					.13 .25	NO NO		21 32, 30	
B 103Y			P16-28 TB2-C4					.13 .25	NO NO		21 32, 30	
B 104	8				1.75 1.25	1.50 1.00				68 68	29 29	
B 104A	12		SHLD B104 P16-27					.20 .13	NO NO		21	
B 104B	12		TB2-A3 SHLD B104					.25 .20	NO NO		32, 30	
B 104R			P16-12 TB2-B3					.13 .25	NO NO		21 32, 30	
B 104Y			P16-26 TB2-C3					.13 .25	NO NO		21 32, 30	

SIZE A | CODE IDENT NO. 80230 | 6010660
SCALE-NONE | REV LTR A | SHEET 37 OF 41

MIL 2084 9-65

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 105	8				1.75 1.25	1.50 1.00				6B 6B	29 29	
B 105A	12		SHLD B105 P16-57					.20 .13	NO NO		21	
B 105B	12		TB2-A6 SHLD B105					.25 .20	NO NO		32, 30	
B 105R			P16-34 TB2-B6					.13 .25	NO NO		21 32, 30	
B 105Y			P16-56 TB2-C6					.13 .25	NO NO		21 32, 30	
B 106	8				1.75 1.25	1.50 1.00				6B 6B	29 29	
B 106A	12		SHLD B106 P16-33					.20 .13	NO NO		21	
B 106B	12		TB2-A5 SHLD B106					.25 .20	NO NO		32, 30	
B 106R			P16-32 TB2-B5					.13 .25	NO NO		21 32, 30	
B 106Y			P16-55 TB2-C5					.13 .25	NO NO		21 32, 30	
B 107	9											
B 107G			P17-C P21-23					.19 .13	NO NO		23 24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 38 OF 41

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 107R			P17-V P21-24					.19 .13	NO NO		24	
B 107Y			P17-V P21-25					.19 .13	NO NO		23 24	
B 112	2		J1-12 P17-B*					.13 .19	NO NO		22	
B 113	3		P16-46 P20-25					.13 .13	NO NO		21 24	
B 117	3		P16-50 P19-C24					.13 .19	NO NO		21 26	2
B 118	3		P17-E* P21-59					.19 .13	NO NO		23 24	
B 119	58				1.75 1.75	1.50 1.50				6B 6A	29 29	
B 119A	12		SHLD B119 P16-69					.20 .13	NO NO		21	
B 119B	1		F40 SHLD B119					.25 .20	NO NO		60	
B 119Y			P16-25 P21-13					.13 .13	NO NO		21 24	
B 120	11											
B 120G			P16-4 P20-22					.13 .13	NO NO		21 24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 39 OF 41

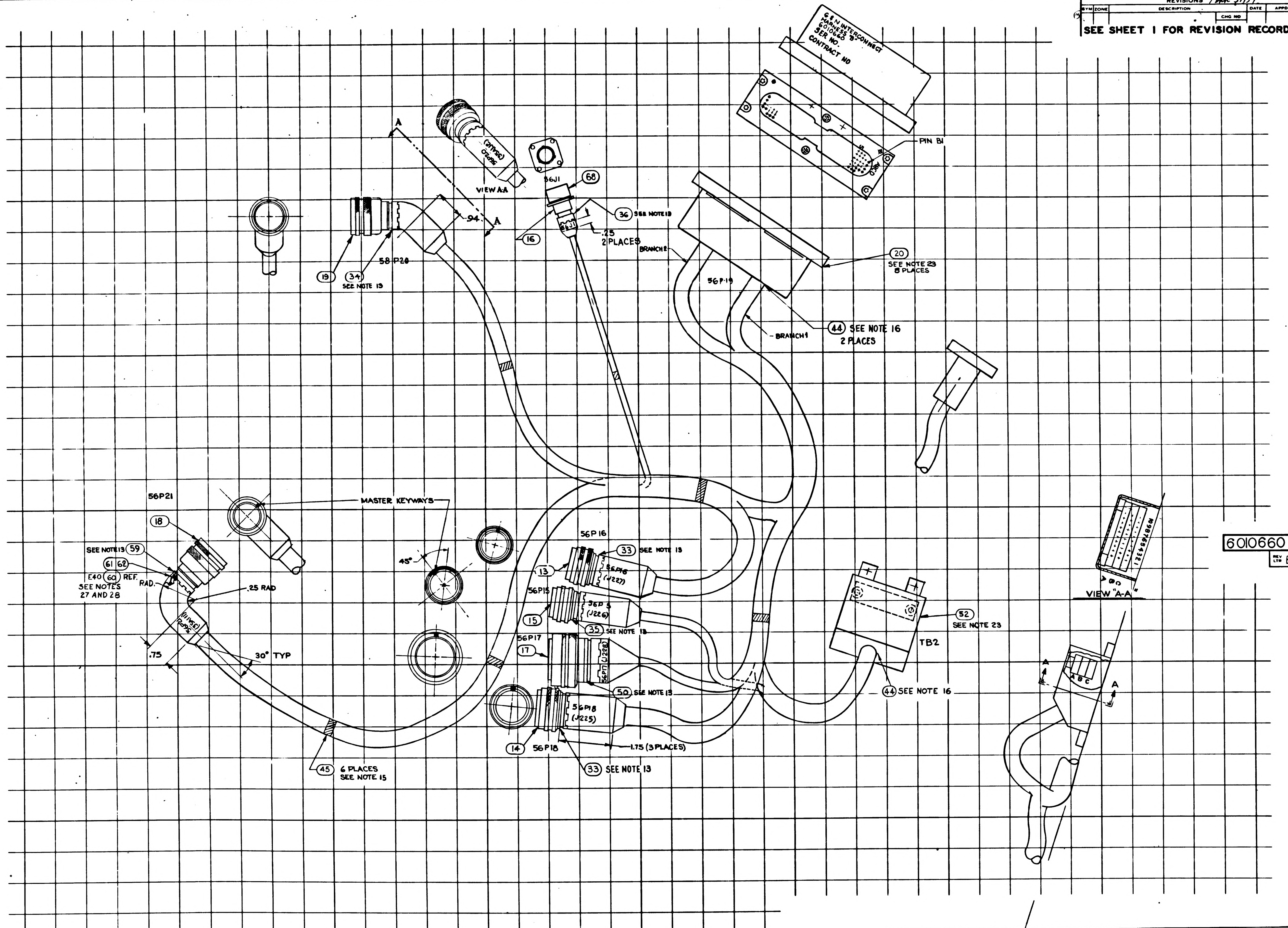
LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS BRANCH
B 120N			P16-3 P20-21					.13 .13	NO NO		21 24	
B 120R			P16-1 P20-19					.13 .13	NO NO		21 24	
B 120Y			P16-2 P20-20					.13 .13	NO NO		21 24	

SIZE A | CODE IDENT NO. 80230 | 6010660

SCALE-NONE | REV LTR A | SHEET 40 OF 41

REVISIONS TDRR 31139				
SYM	ZONE	DESCRIPTION	DATE	APPD
		CHG NO		

SEE SHEET 1 FOR REVISION RECORD



G&N INTERCONNECT
HARNESS "B"
6010660
SER NO.
CONTRACT NO
PIN B1
A
VIEW A-A
.94
A
56J1
68
36 SEE NOTE 13
16
16
.25
2 PLACES
BRANCH 2
58P20
19
34
SEE NOTE 13
20
SEE NOTE 23
8 PLACES
56P19
- BRANCH 1
44 SEE NOTE 16
2 PLACES
56P21
18
MASTER KEYWAYS
SEE NOTE 13 59
61 62
E40 60 REF.
SEE NOTES
27 AND 28
RAD.
.25 RAD
56P21 (J35A11)
.75
30° TYP
45°
56P16
33 SEE NOTE 13
13
56P16 (J227)
56P15
15
56P15 (J226)
35 SEE NOTE 13
56P17
17
56P17 (J228)
50 SEE NOTE 13
56P18 (J225)
14
56P18
1.75 (3 PLACES)
33 SEE NOTE 13
45 6 PLACES
SEE NOTE 15
52
SEE NOTE 23
TB2
44 SEE NOTE 16
VIEW "A-A"
A B C
A
A

6010660

REV LTR B

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN	R.W. Turner	1 JUL 66
CHECKED	W. Swift	5 JUL 66
APPROVED	Jan Wilson	
APPROVED	J. J. Kem	8/1/66
APPROVED ~~MIT~~ CCB		9/22/66
APPROVED MSC	R. Jacob	9/23/66
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "B"
(LEM)

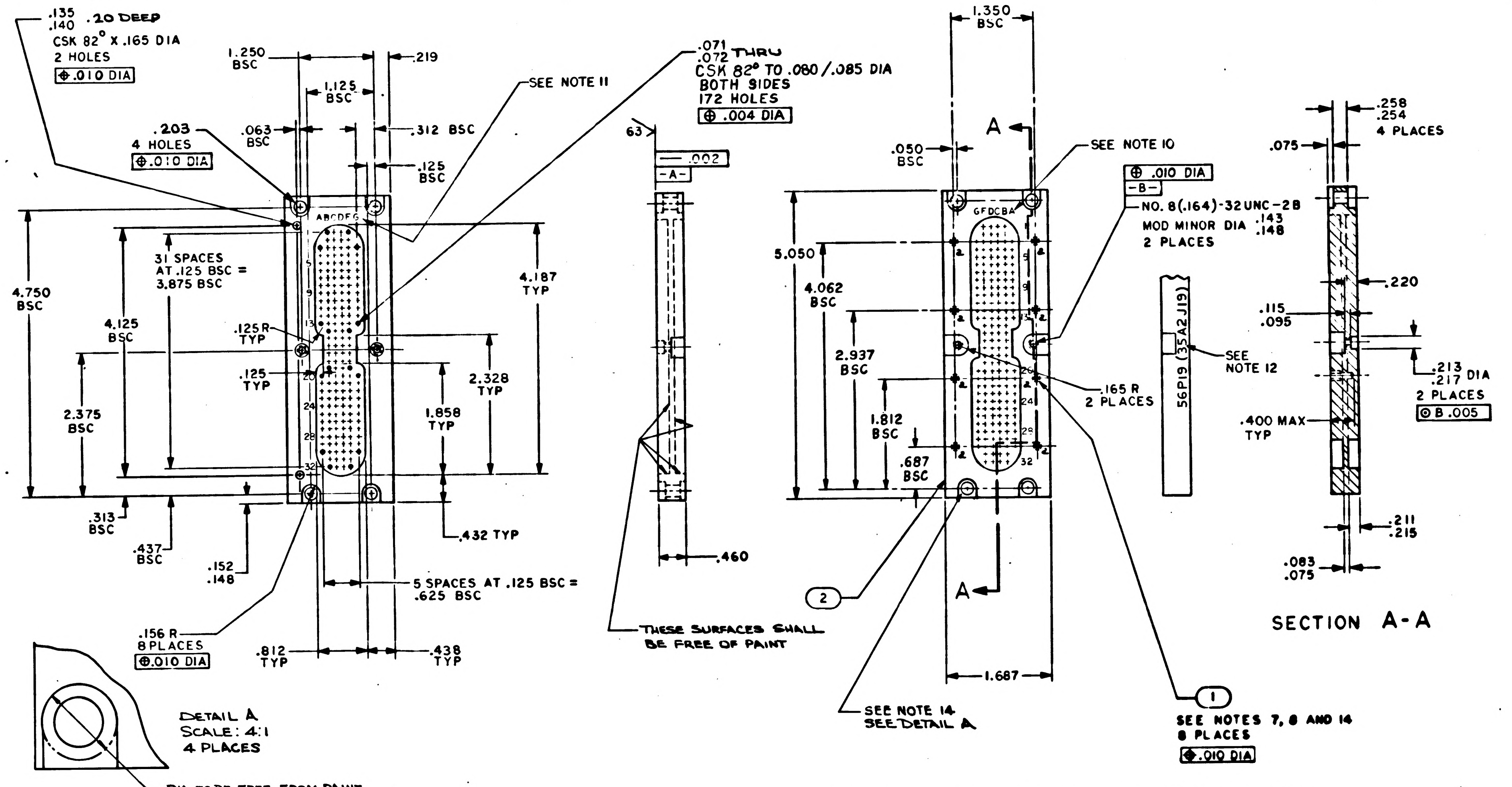
CODE IDENT NO	SIZE	DRAWING NO
80230	E	6010660
SCALE 1/1		SHEET 4 OF 4

MX-10881

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		INITIAL RELEASE CLASS A PER TDRR 31139			5 JULY 66	



.135
.140 .20 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕ .010 DIA
1.250 BSC
1.125 BSC
.219
SEE NOTE 11
.203
4 HOLES
⊕ .010 DIA
.063 BSC
.312 BSC
.125 BSC
ABCDEFG
31 SPACES AT .125 BSC = 3.875 BSC
4.750 BSC
4.125 BSC
.125 R TYP
.125 TYP
2.375 BSC
4.187 TYP
2.328 TYP
1.858 TYP
5
9
13
20
24
28
32
.313 BSC
.437 BSC
.152
.148
.432 TYP
5 SPACES AT .125 BSC = .625 BSC
.156 R
8 PLACES
⊕ .010 DIA
.812 TYP
.438 TYP
.071
.072 THRU
CSK 82° TO .080/.085 DIA
BOTH SIDES
172 HOLES
⊕ .004 DIA
63
.002
-A-
.460
THESE SURFACES SHALL BE FREE OF PAINT
DETAIL A
SCALE: 4:1
4 PLACES
DIA TO BE FREE FROM PAINT
SEE NOTE 15
1.350 BSC
A
.050 BSC
SEE NOTE 10
GFDCBA
5.050
4.062 BSC
2.937 BSC
1.812 BSC
.687 BSC
⊕ .010 DIA
-B-
NO. 8(.164)-32 UNC-2B
MOD MINOR DIA .143 .148
2 PLACES
56P19 (35A2J19)
SEE NOTE 12
.165 R
2 PLACES
1.687
2
SEE NOTE 14
SEE DETAIL A
1
SEE NOTES 7, 8 AND 14
8 PLACES
⊕ .010 DIA
.258
.254
4 PLACES
.075
.220
.115
.095
.213
.217 DIA
2 PLACES
◎ B .005
.400 MAX TYP
.211
.215
.083
.075
SECTION A-A

NOTES :

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44.
3. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C. UNLESS OTHERWISE SPECIFIED.
7. COAT THREADS OF FIND NO. 1 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. 1 WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A- DO NOT APPLY PROTECTIVE COATING
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. 1 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 1, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 1 AS FINAL STEP IN CLEANING OF FIND NO. 1 THREADS
14. INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.
15. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002281 TYPE II PAINT 1012548-009. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
16. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING
17. ALL THREADED HOLES MARKED "2" MUST BE FREE OF ANODIZE AND PAINT.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.	
1	6010661 -001	CONNECTOR BASE	2	SEE NOTE 2
8	1010957-008	INSERT, SCREW THREAD, SELF LOCKING	1	SEE NOTE 16

LIST OF MATERIALS

NEXT ASSY	USED ON
6014535	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ±.01 XXX ±.005 ANGLES ± 2
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

		DATE
DRAWN		21 Jun 66
CHECKED	Ed Foster	23 JUN 66
APPROVED		24 Jun 66
APPROVED		7 Jul 66
APPROVED CCB		9/14/66
APPROVED MSC	R. Jacob	9/23/66

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6010661
SCALE 1/1
SHEET 1 OF 1

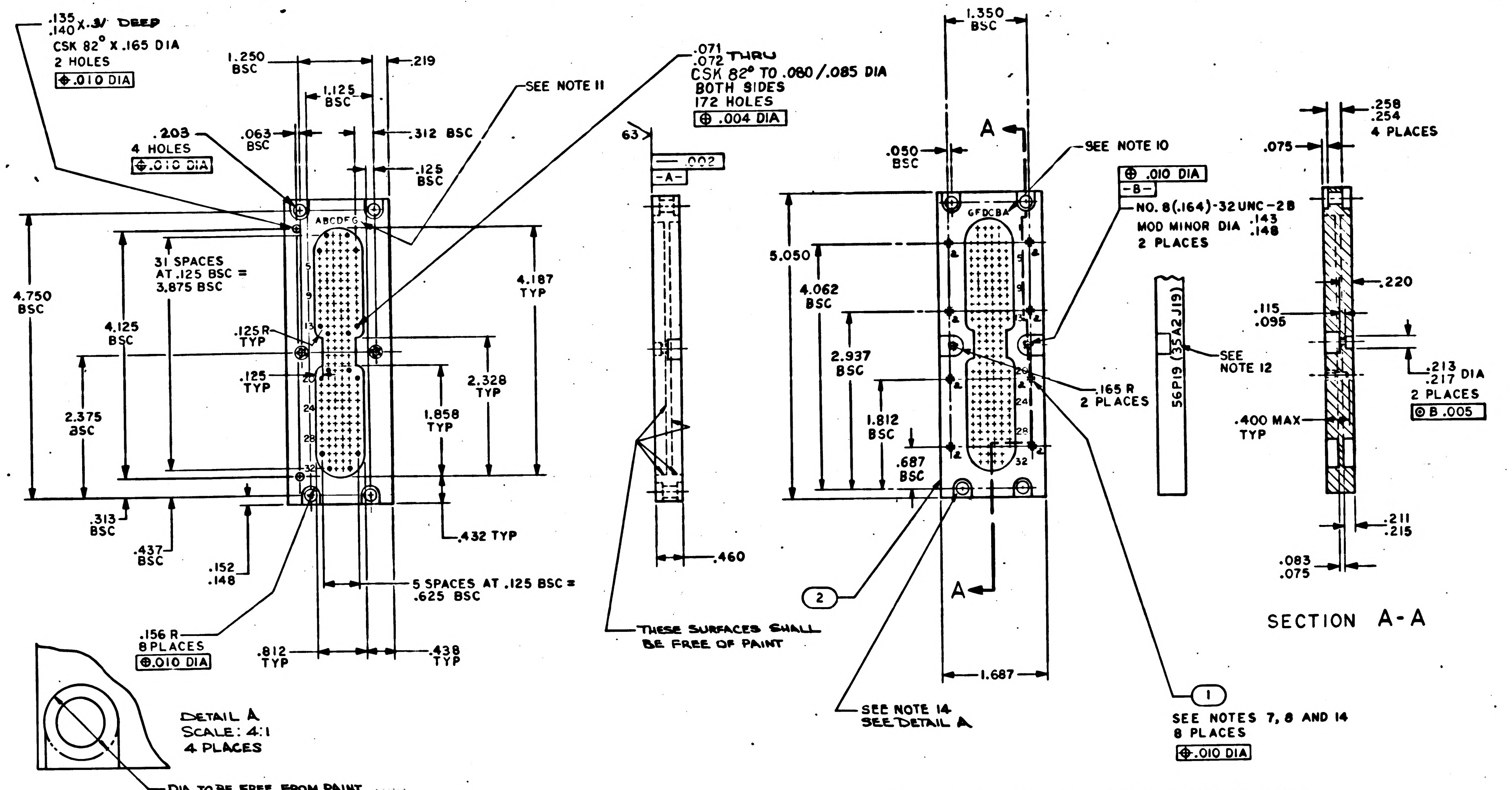
24 JUN 66

6010661 A

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
Ⓜ A		INITIAL RELEASE CLASS A PER TDRR 31139			5 JULY 66	
B		REVISED PER TDRR 31205	WB		10·4·66	JJB


.135 .140 X .31 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕ .010 DIA
1.250 BSC
1.125 BSC
.219
.203
4 HOLES
⊕ .010 DIA
.063 BSC
.312 BSC
.125 BSC
SEE NOTE 11
.071 .072 THRU
CSK 82° TO .080/.085 DIA
BOTH SIDES
172 HOLES
⊕ .004 DIA
63
.002
-A-
ABCDEFG
31 SPACES
AT .125 BSC =
3.875 BSC
4.750 BSC
4.125 BSC
.125 R TYP
.125 TYP
2.375 BSC
4.187 TYP
2.328 TYP
1.858 TYP
.313 BSC
.437 BSC
.152 .148
.432 TYP
5 SPACES AT .125 BSC =
.625 BSC
.156 R
8 PLACES
⊕ .010 DIA
.812 TYP
.438 TYP
.460
THESE SURFACES SHALL
BE FREE OF PAINT
DETAIL A
SCALE: 4:1
4 PLACES
DIA TO BE FREE FROM PAINT
SEE NOTE 15
1.350 BSC
A
.050 BSC
SEE NOTE 10
⊕ .010 DIA
-B-
NO. 8(.164)-32 UNC-2B
MOD MINOR DIA .143 .148
2 PLACES
GFDCBA
5.050
4.062 BSC
2.937 BSC
1.812 BSC
.687 BSC
.165 R
2 PLACES
56P19 (35A2J19)
SEE NOTE 12
2
1.687
SEE NOTE 14
SEE DETAIL A
1
SEE NOTES 7, 8 AND 14
8 PLACES
⊕ .010 DIA
.258 .254
4 PLACES
.075
.220
.115 .095
.213 .217 DIA
2 PLACES
⊚ B .005
.400 MAX
TYP
.211 .215
.083 .075
SECTION A-A

15. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008808-1 AND OVERCOAT PAINT PER ND1002281 TYPE II PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
16. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING
17. ALL THREADED HOLES MARKED "2" MUST BE FREE OF ANODIZE AND PAINT.

NOTES :
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44.
3. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C. UNLESS OTHERWISE SPECIFIED.
7. COAT THREADS OF FIND NO. 1 WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. 1 WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A- DO NOT APPLY PROTECTIVE COATING
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. 1 MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. 1, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. 1 AS FINAL STEP IN CLEANING OF FIND NO. 1 THREADS
14. INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.

LIST OF MATERIALS

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
SEE NOTE 2	1	6010661 -001	CONNECTOR BASE	2
SEE NOTE 16	8	1010957-008	INSERT, SCREW THREAD, SELF LOCKING	1

NEXT ASSY	USED ON
6014535	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .01 XXX ± .005 ANGLES ± 2
DO NOT SCALE THIS DRAWING

MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN		21 Jun 66
CHECKED	Ed Foster	23 JUN 66
APPROVED		24 Jun 66
APPROVED		
APPROVED CCB		9/14/66
APPROVED MSC	R. Jacob	9/23/66
		DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

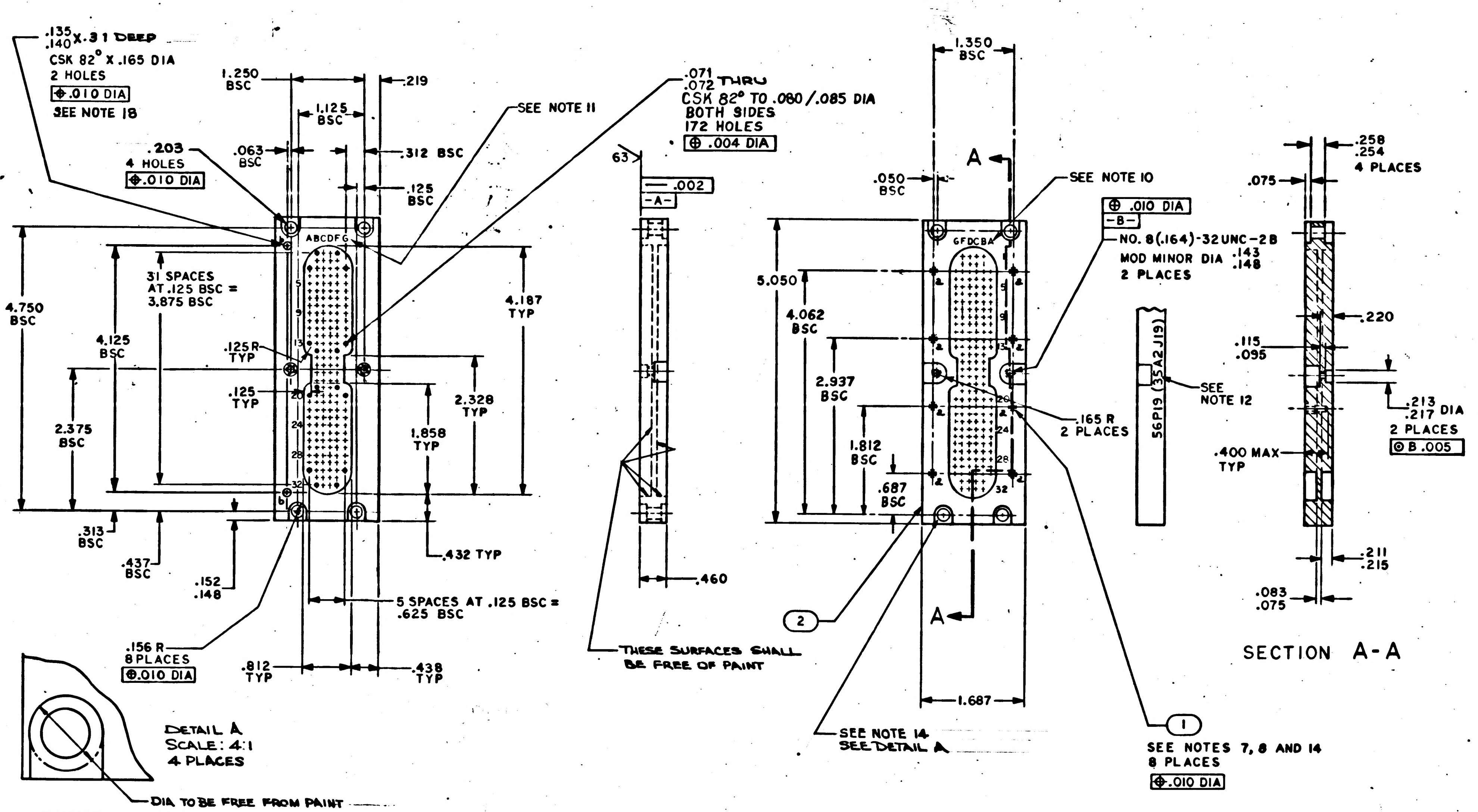
CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6010661
SCALE 1/1
SHEET 1 OF 1

24 JUN 66

6010661 B

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		INITIAL RELEASE CLASS A PER TDRR 31139			5 JULY 66	
B		REVISED PER TDRR 31205	WB		10·4·66	JJD
C		REVISED PER TDRR 32679	ME		24 JAN 67	NE N.W.


.135
.140 X .31 DEEP
CSK 82° X .165 DIA
2 HOLES
⊕.010 DIA
SEE NOTE 18
.203
4 HOLES
⊕.010 DIA
1.250 BSC
1.125 BSC
.219
.063 BSC
.312 BSC
.125 BSC
SEE NOTE 11
.071
.072 THRU
CSK 82° TO .080/.085 DIA
BOTH SIDES
172 HOLES
⊕ .004 DIA
63
.002
-A-
ABCDFG
4.750 BSC
31 SPACES AT .125 BSC = 3.875 BSC
4.125 BSC
.125 R TYP
.125 TYP
2.375 BSC
4.187 TYP
2.328 TYP
1.858 TYP
5
9
13
20
24
28
32
b
.313 BSC
.437 BSC
.152
.148
.432 TYP
.460
5 SPACES AT .125 BSC = .625 BSC
.156 R
8 PLACES
⊕.010 DIA
.812 TYP
.438 TYP
THESE SURFACES SHALL BE FREE OF PAINT
DETAIL A
SCALE: 4:1
4 PLACES
DIA TO BE FREE FROM PAINT
SEE NOTE 15
1.350 BSC
A
.050 BSC
SEE NOTE 10
⊕ .010 DIA
-B-
NO. 8(.164)-32UNC-2B
MOD MINOR DIA .143
.148
2 PLACES
GFDCBA
5.050
4.062 BSC
2.937 BSC
1.812 BSC
.687 BSC
.165 R
2 PLACES
56P19 (35A2J19)
SEE NOTE 12
2
SEE NOTE 14
SEE DETAIL A
1.687
1
SEE NOTES 7, 8 AND 14
8 PLACES
⊕.010 DIA
.258
.254
4 PLACES
.075
.220
.115
.095
.213
.217 DIA
2 PLACES
◎ B .005
.400 MAX TYP
.211
.215
.083
.075
SECTION A-A

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARD FOR PLATING, EXTRUSIONS AND FORGINGS.
3. ALL SURFACES 125√ UNLESS OTHERWISE SPECIFIED
4. REMOVE BURRS AND EDGES .005/.015
5. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .015 MAX
6. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C. UNLESS OTHERWISE SPECIFIED.
7. COAT THREADS OF FIND NO. I WITH MIL-P-8585, COLOR Y
8. INSTALL FIND NO. I WET PER MS-33646. REMOVE DRIVING TANG
9. IDENTIFY WITH PART NO. PER ND1002019
10. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
11. MARK .060/.100 HIGH BLACK CHARACTERS PER ND1002019 AND ND1002122 TYPE II CLASS 2 USING INK 1006271-10. CENTRALIZE AS SHOWN ON SURFACE -A- DO NOT APPLY PROTECTIVE COATING
12. MARK .100/.140 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN
13. THE SURFACES OF FIND NO. I MATING WITH SCREW SHALL BE FREE OF PRIMER OR OTHER CONTAMINANTS. AFTER POST INSTALLATION CLEANING OF FIND NO. I, A STANDARD SCREW SHALL BE ENGAGED AND DISENGAGED THE FULL LENGTH OF FIND NO. I AS FINAL STEP IN CLEANING OF FIND NO. I THREADS
14. INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.
15. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
16. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING
17. ALL THREADED HOLES MARKED "a" MUST BE FREE OF ANODIZE AND PAINT.
18. ALL HOLES MARKED b MUST BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT OR PAINT HOLES.
19. TOUCH UP, EXCLUDING CORROSION PER ND1002040.

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
SEE NOTE 2	1	6010661 -001	CONNECTOR BASE	2
SEE NOTE 16	8	1010957-008	INSERT, SCREW THREAD, SELF LOCKING	1

LIST OF MATERIALS

6014535	6014515
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS XX ± .01 XXX ± .005 ANGLES ± 2
DO NOT SCALE THIS DRAWING
MATERIAL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN G. Michal 21 Jun 66
CHECKED Ed Foster 23 JUN 66
APPROVED D. Barto 24 Jun 66
APPROVED [illegible] 9 Sept 66
APPROVED CCB [illegible] 9/14/66
APPROVED MSC R. Tarot 1/23/66
DATE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR BASE, OUTPUT
INSEPARABLE ASSEMBLY
PTA

CODE IDENT NO. 80230
SIZE D
DRAWING NO. 6010661
SCALE 1/1
SHEET 1 OF 1

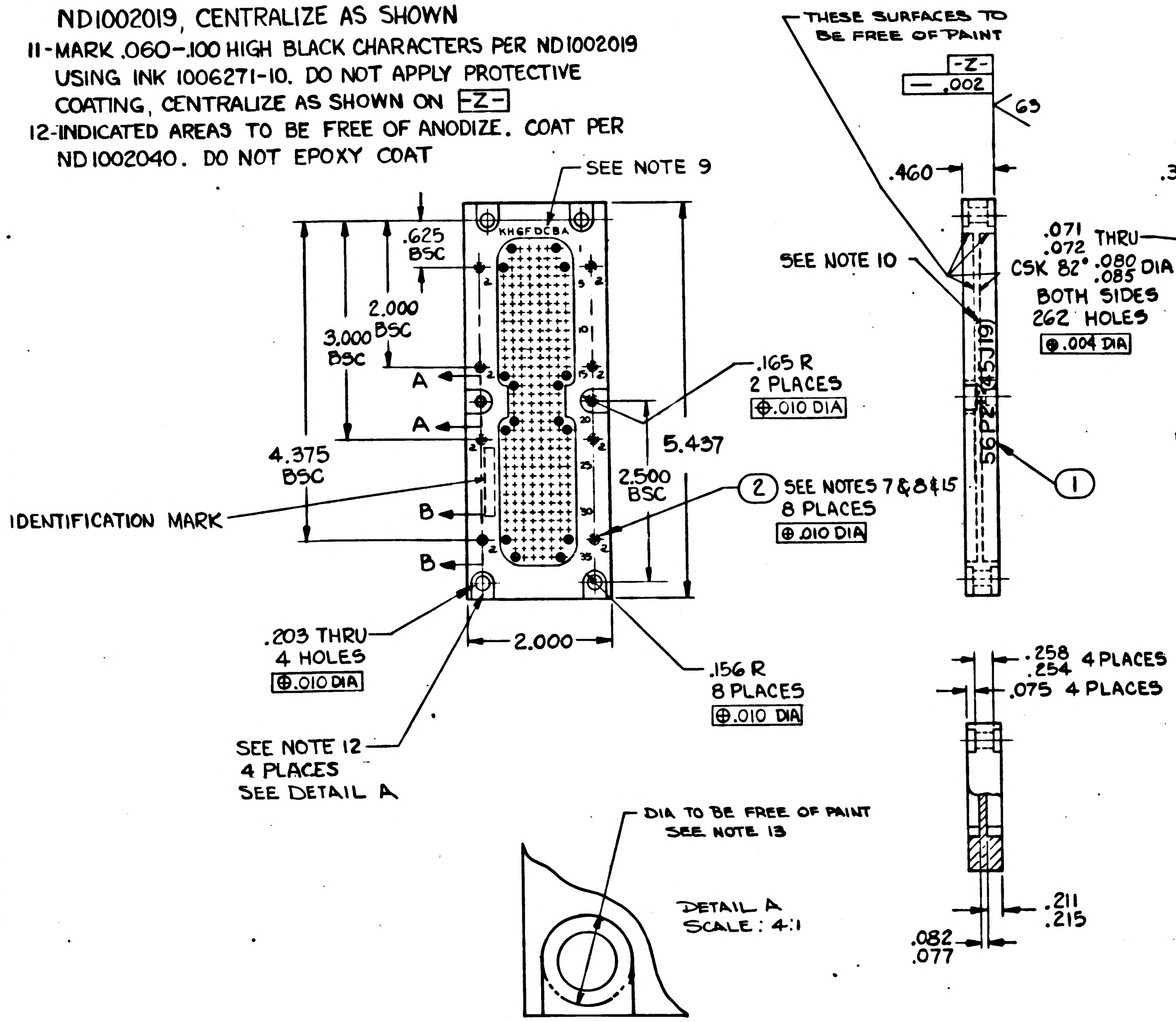
6010661 C

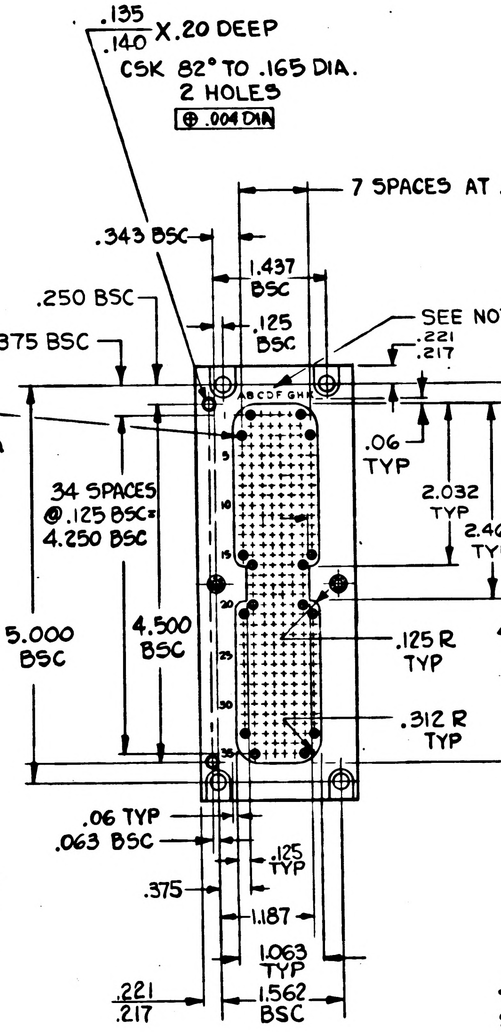
[illegible] 24 JUN 66

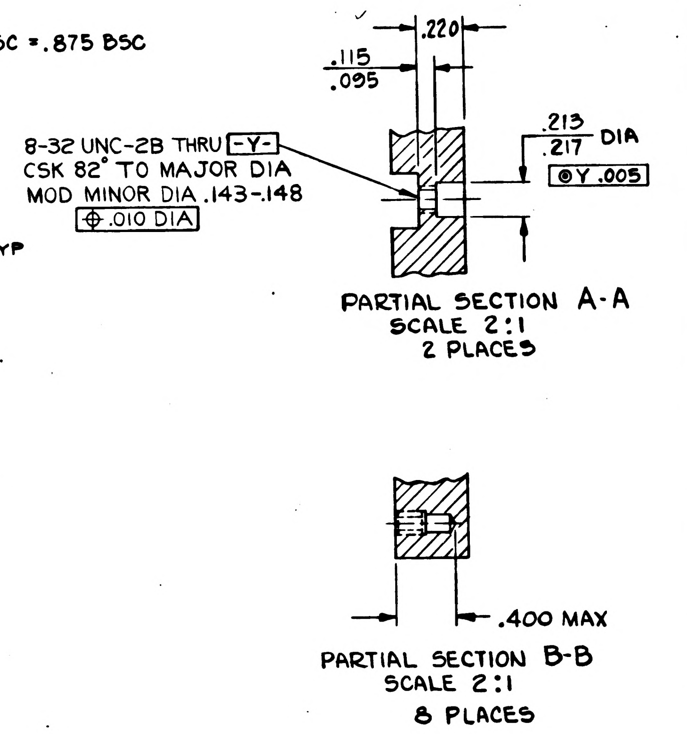
REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 3/134		5 JULY 66	

NOTES:

1-INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2-MATERIAL: MAGNESIUM AZ 31B-H24 PER QQ-M-44
3-FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
4-MUST BE FREE FROM BURRS.
5-UNLESS OTHERWISE SPECIFIED:
  A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
  B. SURFACE ROUGHNESS NOT TO EXCEED $\overset{125}{\checkmark}$.
6-IDENTIFY WITH PART NUMBER PER ND1002019.
7-COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8-INSTALL ITEM ② WET PER MS-33646, REMOVE TANG
9-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
10-MARK .100-.140 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
11-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING, CENTRALIZE AS SHOWN ON $\boxed{-Z-}$
12-INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT
18. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
14. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING
15. ALL THREADED HOLES MARKED "&" MUST BE FREE OF ANODIZE AND PAINT.


SEE NOTE 9
KHGFDCBA
.625 BSC
2.000 BSC
3.000 BSC
4.375 BSC
5.437
2.500 BSC
A
A
B
B
IDENTIFICATION MARK
.165 R
2 PLACES
⊕ .010 DIA
② SEE NOTES 7 & 8 & 15
8 PLACES
⊕ .010 DIA
.203 THRU
4 HOLES
⊕ .010 DIA
2.000
.156 R
8 PLACES
⊕ .010 DIA
SEE NOTE 12
4 PLACES
SEE DETAIL A
THESE SURFACES TO BE FREE OF PAINT
-Z-
— .002
63
.460
SEE NOTE 10
56P2 145J19
①
.071 .072 THRU
CSK 82° .080 .085 DIA
BOTH SIDES
262 HOLES
⊕ .004 DIA
.258 .254 4 PLACES
.075 4 PLACES
.211 .215
.082 .077
DIA TO BE FREE OF PAINT
SEE NOTE 13
DETAIL A
SCALE: 4:1


.135 .140 X .20 DEEP
CSK 82° TO .165 DIA.
2 HOLES
⊕ .004 DIA
7 SPACES AT .125 BSC = .875 BSC
.343 BSC
1.437 BSC
.250 BSC
.125 BSC
.375 BSC
SEE NOTE 11
.221 .217
.250 TYP
ABCDFGHE
.06 TYP
2.032 TYP
2.468 TYP
34 SPACES @ .125 BSC = 4.250 BSC
5.000 BSC
4.500 BSC
4.500 TYP
.125 R TYP
.312 R TYP
.06 TYP
.063 BSC
.375
.125 TYP
1.187
1.063 TYP
.221 .217
1.562 BSC


.220
.115 .095
.213 .217 DIA
⊚ Y .005
8-32 UNC-2B THRU -Y-
CSK 82° TO MAJOR DIA
MOD MINOR DIA .143-.148
⊕ .010 DIA
PARTIAL SECTION A-A
SCALE 2:1
2 PLACES
.400 MAX
PARTIAL SECTION B-B
SCALE 2:1
8 PLACES

SEE NOTE 14	2	8	1010957-008	INSERT, SCR THD, LOCKING
SEE NOTE 2	1	1	6010662 -001	BASE
	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014532	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± —
DECIMALS ±.01 ±.005
ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
Contract NAS 9-497
DRAWN C. Dahd 21 Jun 66
CHECKED Ed Foster 23 JUN 66
APPROVAL D Barta 24 Jun 66
APPROVAL
NASA APPROVAL R. Jacob 9/23/66
CCB APPROVAL 9/26/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL CONNECTOR -(56P2)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010662
SCALE FULL
SHEET 1 OF 1

24 JUN 66

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 31139		5 JULY 66	
	B	REVISED PER TDRR 31205		10-4-66	JJB DIW

NOTES:

1-INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2-MATERIAL : MAGNESIUM AZ 31B-H24 PER QQ-M-44

3-FINISH : ANODIZE PER MIL-M-45202, TYPE I, CLASS C

4-MUST BE FREE FROM BURRS.

5-UNLESS OTHERWISE SPECIFIED:

A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.

B. SURFACE ROUGHNESS NOT TO EXCEED $\overset{125}{\surd}$.

6-IDENTIFY WITH PART NUMBER PER ND1002019.

7-COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y

8-INSTALL ITEM ② WET PER MS-33646, REMOVE TANG

9-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN

10-MARK .100-.140 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN

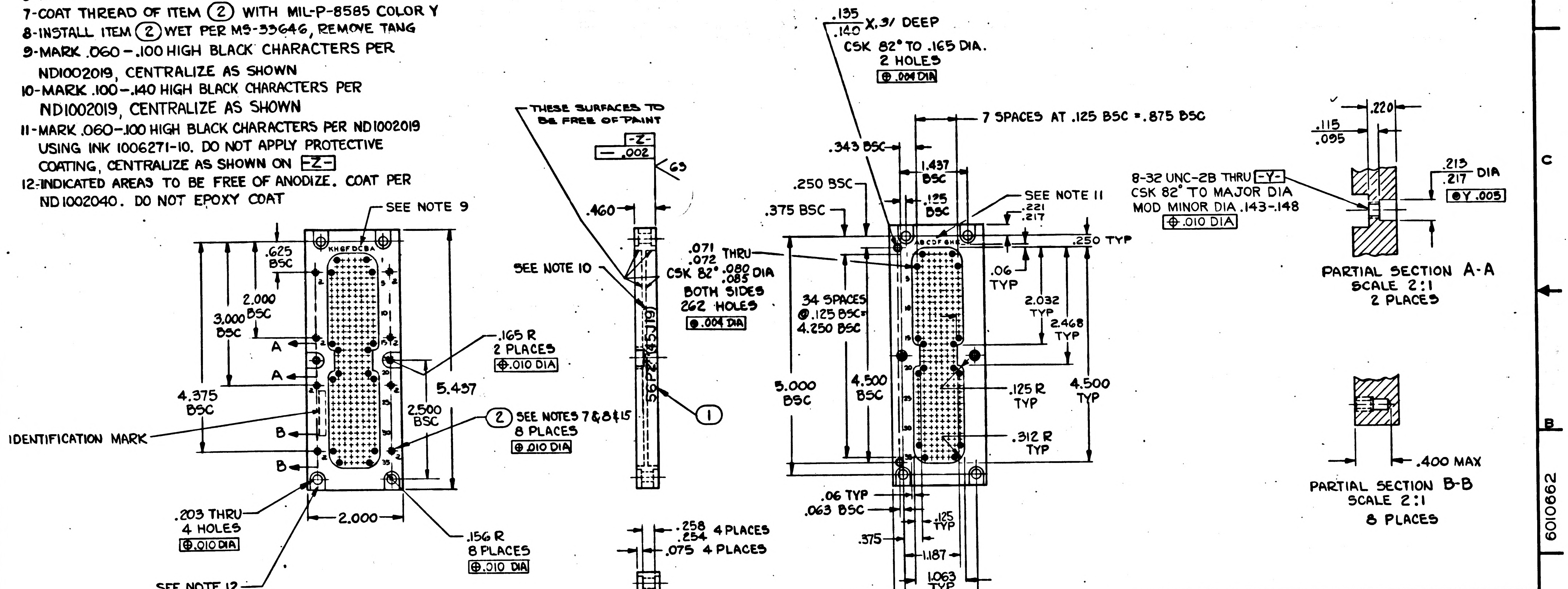
11-MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING, CENTRALIZE AS SHOWN ON -Z-

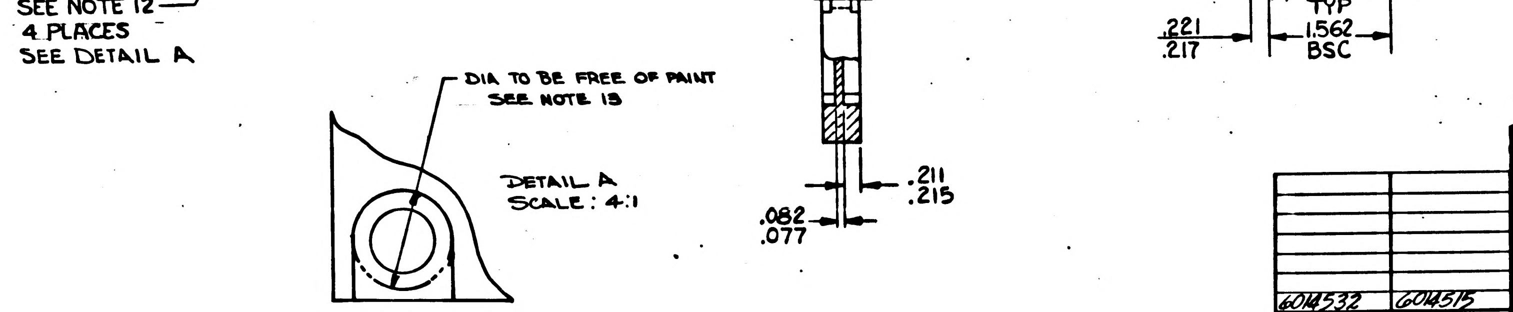
12-INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT

13. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.

14. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING

15. ALL THREADED HOLES MARKED "a" MUST BE FREE OF ANODIZE AND PAINT.


.135
.140 X .31 DEEP
CSK 82° TO .165 DIA.
2 HOLES
⊕ .004 DIA
7 SPACES AT .125 BSC = .875 BSC
THESE SURFACES TO BE FREE OF PAINT
-Z-
— .002
63
.460
SEE NOTE 10
.071
.072 THRU
CSK 82° .080 .085 DIA
BOTH SIDES
262 HOLES
⊕ .004 DIA
SEE NOTE 9
.625 BSC
2.000 BSC
3.000 BSC
4.375 BSC
5.437
2.500 BSC
A
B
.165 R
2 PLACES
⊕ .010 DIA
② SEE NOTES 7 & 8 & 15
8 PLACES
⊕ .010 DIA
IDENTIFICATION MARK
①
56P2 (45119)
KHGFDCBA
.203 THRU
4 HOLES
⊕ .010 DIA
2.000
.156 R
8 PLACES
⊕ .010 DIA
.343 BSC
.250 BSC
.375 BSC
1.437 BSC
.125 BSC
SEE NOTE 11
.221
.217
.250 TYP
.06 TYP
34 SPACES @ .125 BSC = 4.250 BSC
2.032 TYP
2.468 TYP
5.000 BSC
4.500 BSC
4.500 TYP
.125 R TYP
.312 R TYP
.06 TYP
.063 BSC
.125 TYP
.375
1.187
1.063 TYP
.258
.254 4 PLACES
.075 4 PLACES
8-32 UNC-2B THRU -Y-
CSK 82° TO MAJOR DIA
MOD MINOR DIA .143-.148
⊕ .010 DIA
.220
.115
.095
.213
.217 DIA
⊚ Y .005
PARTIAL SECTION A-A
SCALE 2:1
2 PLACES
.400 MAX
PARTIAL SECTION B-B
SCALE 2:1
8 PLACES


SEE NOTE 12
4 PLACES
SEE DETAIL A
DIA TO BE FREE OF PAINT
SEE NOTE 13
DETAIL A
SCALE: 4:1
.082
.077
.211
.215
.221
.217
1.562 BSC

SEE NOTE 14	2	8	1010957-008	INSERT, SCR THD, LOCKING
SEE NOTE 2	1	1	6010662-001	BASE
	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

6014532	6014515
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$\pm$ —	$\pm .01$ $\pm .005$	$\pm 2°$

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
Contract NAS 9-497

DRAWN C. Dichel 21 Jun 66
CHECKED Ed Foster 23 Jun 66
APPROVAL D Gartz 24 Jun 66
APPROVAL
NASA APPROVAL R. Jacob 9/23/66
CCB APPROVAL 9/24/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL
CONNECTOR -(56P2)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO.	SIZE	
80230	D	6010662
SCALE FULL		SHEET 1 OF 1

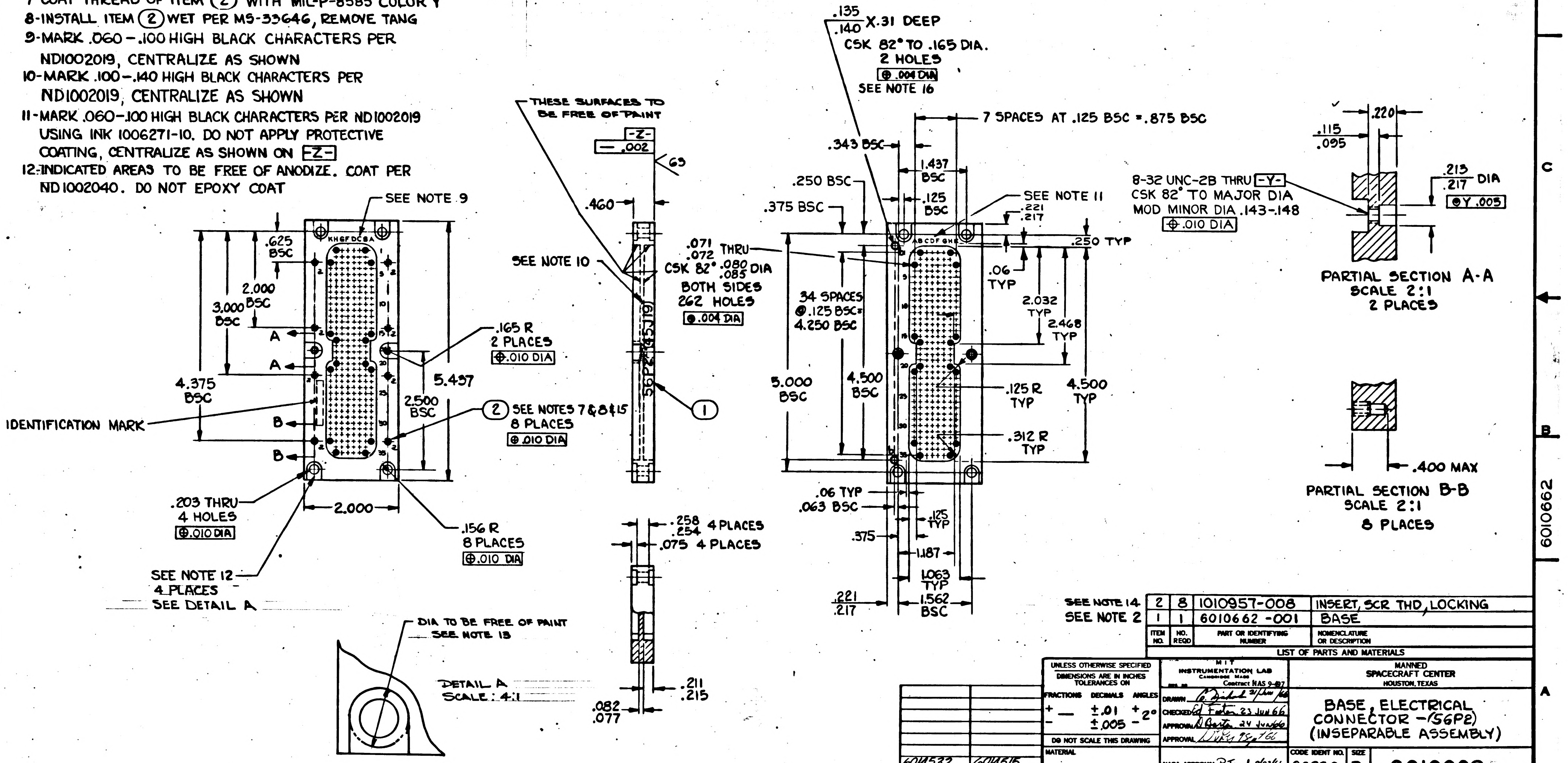
24 JUN 66

6010662

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARD FOR PLATING, EXTRUSIONS AND FORGINGS.
3. FINISH: ANODIZE PER MIL-M-45202, TYPE I, CLASS C
4. MUST BE FREE FROM BURRS.
5. UNLESS OTHERWISE SPECIFIED:
   - A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
   - B. SURFACE ROUGHNESS NOT TO EXCEED $\sqrt{}^{125}$.
6. IDENTIFY WITH PART NUMBER PER ND1002019.
7. COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8. INSTALL ITEM ② WET PER MS-33646, REMOVE TANG
9. MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
10. MARK .100-.140 HIGH BLACK CHARACTERS PER ND1002019, CENTRALIZE AS SHOWN
11. MARK .060-.100 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING, CENTRALIZE AS SHOWN ON -Z-
12. INDICATED AREAS TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT
13. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
14. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING
15. ALL THREADED HOLES MARKED "a" MUST BE FREE OF ANODIZE AND PAINT.
16. ALL HOLES MARKED b MUST BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT OR PAINT HOLES.
17. TOUCH UP, EXCLUDING CORROSION, PER ND1002040.

REVISIONS					
ZONE	LTR	DESCRIPTION	CHG. NO.	DATE	APPROVED
	A	INITIAL RELEASE CLASS A PER TDRR 31139		5 JULY 66	
	B	REVISED PER TDRR 31205		10-4-66	JJB
	C	REVISED PER TDRR 32679		24 JAN 67	ME


SEE NOTE 9
KHGFDCBA
.625 BSC
2.000 BSC
3.000 BSC
4.375 BSC
A
A
B
B
.165 R 2 PLACES ⊕.010 DIA
5.437
2.500 BSC
② SEE NOTES 7&8&15 8 PLACES ⊕.010 DIA
IDENTIFICATION MARK
.203 THRU 4 HOLES ⊕.010 DIA
2.000
.156 R 8 PLACES ⊕.010 DIA
SEE NOTE 12 4 PLACES SEE DETAIL A
THESE SURFACES TO BE FREE OF PAINT
-Z-
.002
63
.460
SEE NOTE 10
56P2 (45J19)
①
.071 .072 THRU CSK 82° .080 .085 DIA BOTH SIDES 262 HOLES ⊕.004 DIA
.258 .254 4 PLACES
.075 4 PLACES
.211 .215
.082 .077
DIA TO BE FREE OF PAINT SEE NOTE 13
DETAIL A SCALE: 4:1
.135 .140 X.31 DEEP CSK 82° TO .165 DIA. 2 HOLES ⊕.004 DIA SEE NOTE 16
7 SPACES AT .125 BSC = .875 BSC
.343 BSC
1.437 BSC
.125 BSC
.250 BSC
.375 BSC
SEE NOTE 11
.221 .217
.250 TYP
ABCDFGHK
.06 TYP
2.032 TYP
2.468 TYP
34 SPACES @ .125 BSC = 4.250 BSC
5.000 BSC
4.500 BSC
.125 R TYP
4.500 TYP
.312 R TYP
.06 TYP
.063 BSC
.125 TYP
.375
1.187
1.063 TYP
.221 .217
1.562 BSC
8-32 UNC-2B THRU -Y- CSK 82° TO MAJOR DIA MOD MINOR DIA .143-.148 ⊕.010 DIA
.220
.115 .095
.213 .217 DIA ⊕Y .005
PARTIAL SECTION A-A SCALE 2:1 2 PLACES
.400 MAX
PARTIAL SECTION B-B SCALE 2:1 8 PLACES

	ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 14	2	8	1010957-008	INSERT, SCR THD, LOCKING
SEE NOTE 2	1	1	6010662-001	BASE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014532	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ — −	±.01 ±.005	+ 2° −

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
Contract NAS 9-497

DRAWN 21 Jun 66
CHECKED Ed Foster 23 Jun 66
APPROVAL D Barta 24 Jun 66
APPROVAL 9 Sep 66
NASA APPROVAL R. Jacob 9/23/66
CCB APPROVAL 9/22/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL
CONNECTOR -(56P2)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010662
SCALE FULL
SHEET 1 OF 1

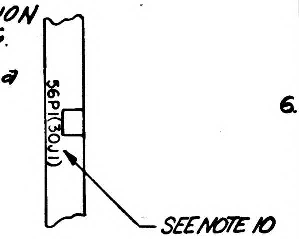
24 JUN 66

A 6010663 2

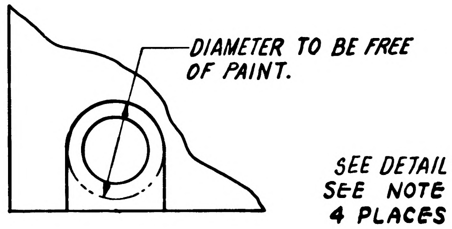
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 31139		5 JULY 66	

NOTES:

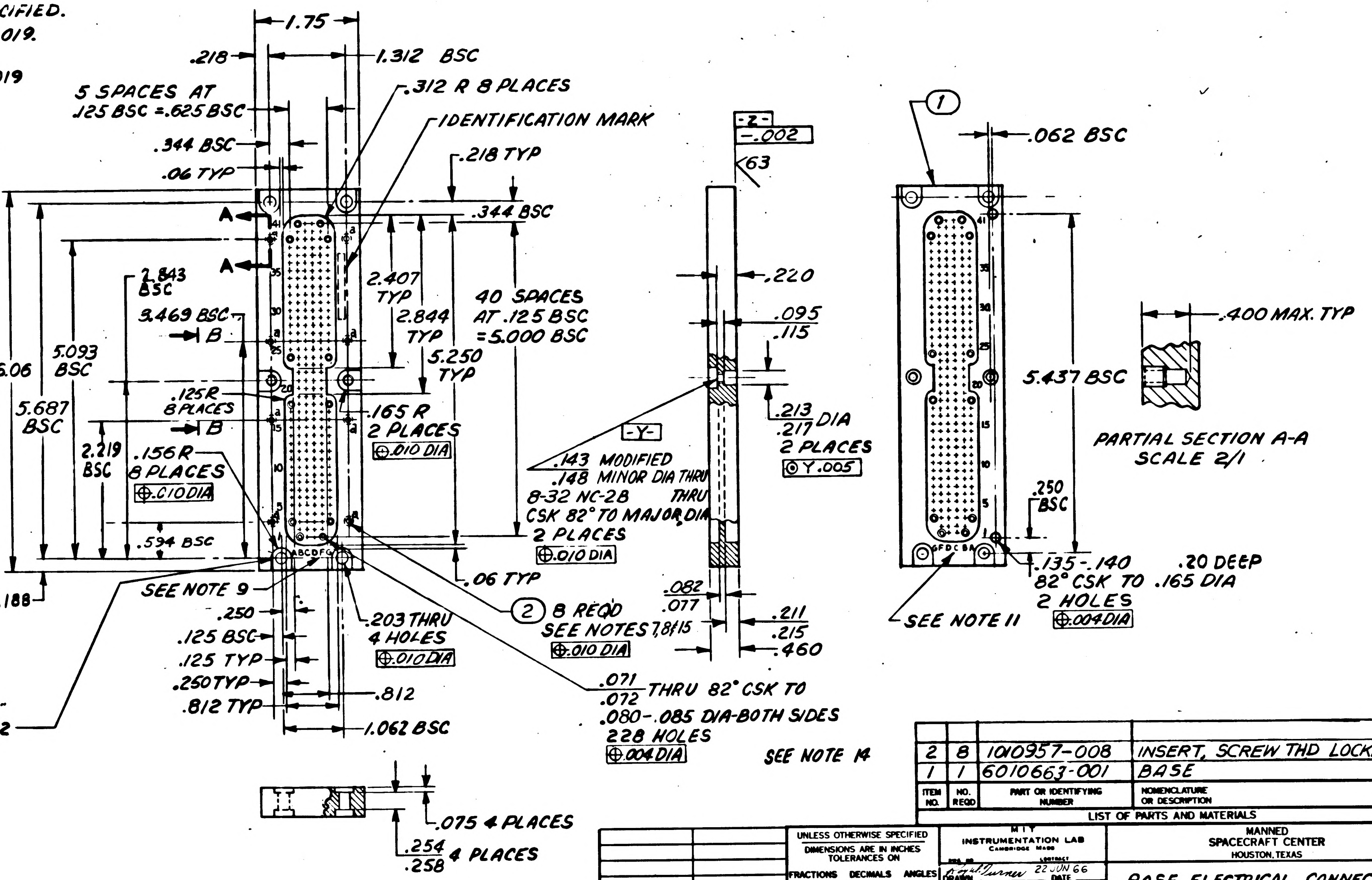
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44
3. FINISH: ANODIZE PER MIL-M-45202 TYPE I CLASS C
4. MUST BE FREE FROM BURRS.
5. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 125.
6. IDENTIFY USING PART NUMBER PER ND1002019.
7. COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8. INSTALL ITEM ② WET PER MS33646. REMOVE TANG.
9. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN, UNLESS OTHERWISE SPECIFIED.
10. MARK .10-.14 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
11. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING. CENTRALIZE AS SHOWN ON -Z-
12. INDICATED AREA TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.
13. PAINT PER ND1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
14. VENDOR ITEM-SEE SPECIFICATION OR SOURCE CONTROL DRAWING.
15. ALL THREADED HOLES MARKED a MUST BE FREE OF ANODIZE AND PAINT.


56P1(30J1)
SEE NOTE 10

VIEW B-B


DIAMETER TO BE FREE OF PAINT.

DETAIL "A"
SCALE 4:1


1.75
.218
1.312 BSC
.312 R 8 PLACES
IDENTIFICATION MARK
5 SPACES AT .125 BSC = .625 BSC
.344 BSC
.06 TYP
.218 TYP
.344 BSC
A
A
2.843 BSC
3.469 BSC
B
B
6.06
5.093 BSC
5.687 BSC
2.219 BSC
.125R 8 PLACES
.156R 8 PLACES
⊕.010 DIA
.594 BSC
2.407 TYP
2.844 TYP
5.250 TYP
40 SPACES AT .125 BSC = 5.000 BSC
.165 R 2 PLACES
⊕.010 DIA
.188
SEE NOTE 9
.250
.125 BSC
.125 TYP
.250 TYP
.812 TYP
.812
1.062 BSC
.203 THRU 4 HOLES
⊕.010 DIA
SEE DETAIL "A" SEE NOTE 12 4 PLACES
.06 TYP
② 8 REQD SEE NOTES 7, 8 & 15
⊕.010 DIA
.071/.072 THRU 82° CSK TO .080-.085 DIA-BOTH SIDES 228 HOLES
⊕.004 DIA
.075 4 PLACES
.254/.258 4 PLACES
-Z-
-.002
63
.220
.095/.115
.213/.217 DIA 2 PLACES
⊚Y.005
-Y-
.143 MODIFIED .148 MINOR DIA THRU 8-32 NC-2B THRU CSK 82° TO MAJOR DIA 2 PLACES
⊕.010 DIA
.082/.077
.211/.215
.460
①
.062 BSC
5.437 BSC
.250 BSC
.135-.140 82° CSK TO .165 DIA 2 HOLES
.20 DEEP
⊕.004 DIA
SEE NOTE 11
.400 MAX. TYP
PARTIAL SECTION A-A SCALE 2/1
SEE NOTE 14

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCREW THD LOCKING
1	1	6010663-001	BASE

LIST OF PARTS AND MATERIALS

6014531	6014515
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — −
DECIMALS ±.005 ±.02
ANGLES +2° −
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN Lloyd Turner DATE 22 JUN 66
CHECKED Ed Foster 23 JUN66
APPROVAL D. Basta 24 JUN66
APPROVAL
NASA APPROVAL R Jacob 9/2/66
CCB APPROVAL 9/21/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL CONNECTOR
SIG COND (56P1)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010663
SCALE 1/1
SHEET 1 OF 1

24 JUN66

6010663

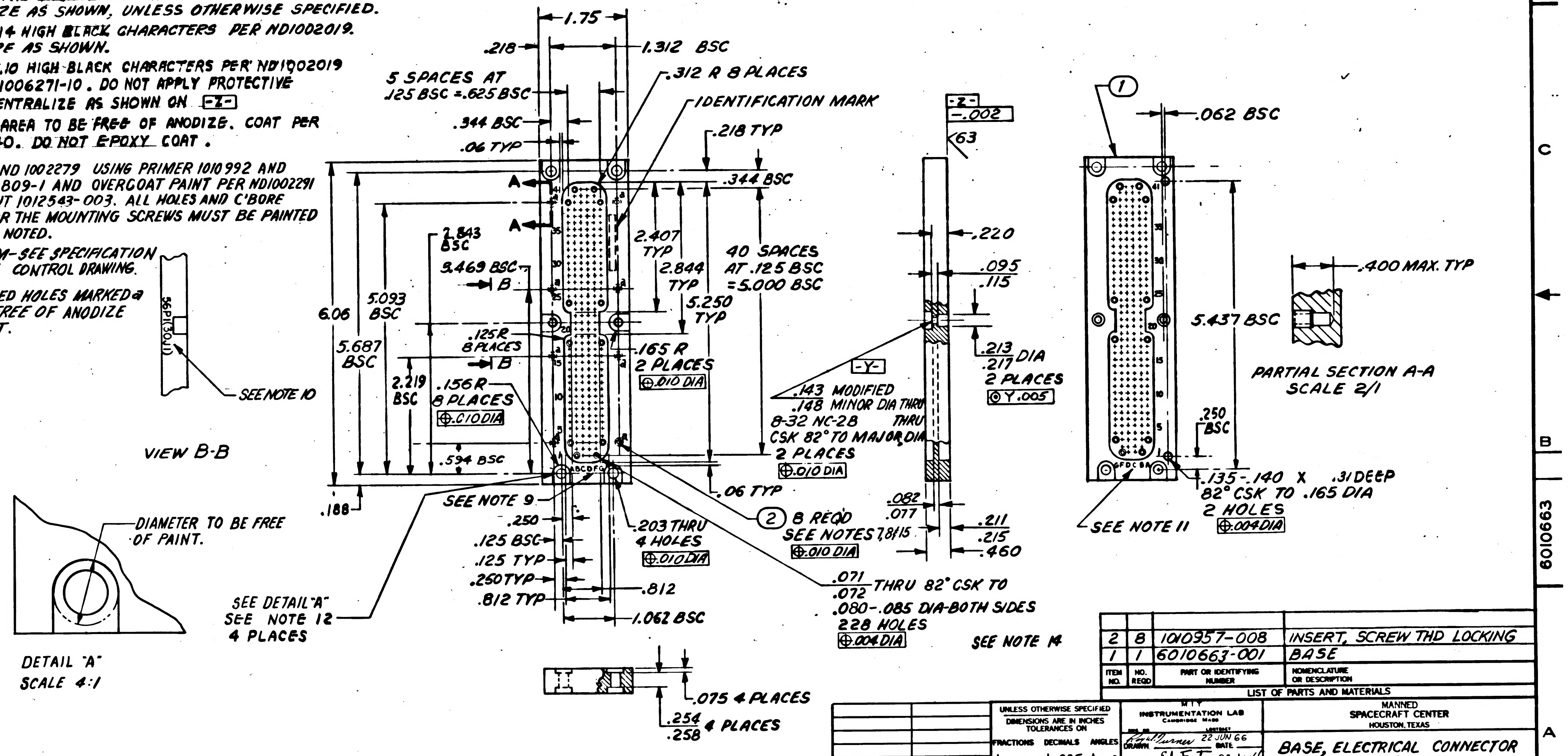
B 6010663

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 31139		5 JULY 66	
B		REVISED PER TDRR 31205		10·4·66	JJB

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44
3. FINISH: ANODIZE PER MIL-M-45202 TYPE I CLASS C
4. MUST BE FREE FROM BURRS.
5. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 125.
6. IDENTIFY USING PART NUMBER PER ND1002019.
7. COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8. INSTALL ITEM ② WET PER MS33646. REMOVE TANG.
9. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN, UNLESS OTHERWISE SPECIFIED.
10. MARK .10-.14 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
11. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING. CENTRALIZE AS SHOWN ON -Z-
12. INDICATED AREA TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.
13. PAINT PER ND 1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1002291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
14. VENDOR ITEM-SEE SPECIFICATION OR SOURCE CONTROL DRAWING.
15. ALL THREADED HOLES MARKED a MUST BE FREE OF ANODIZE AND PAINT.


56P1(30J1)
SEE NOTE 10
VIEW B-B
1.75
.218
1.312 BSC
.312 R 8 PLACES
IDENTIFICATION MARK
5 SPACES AT .125 BSC = .625 BSC
.344 BSC
.06 TYP
.218 TYP
.344 BSC
A
A
2.843 BSC
3.469 BSC
B
B
6.06
5.093 BSC
5.687 BSC
2.219 BSC
.125 R 8 PLACES
.156 R 8 PLACES
⊕.010 DIA
.594 BSC
.188
2.407 TYP
2.844 TYP
5.250 TYP
40 SPACES AT .125 BSC = 5.000 BSC
.165 R 2 PLACES
⊕.010 DIA
.143 MODIFIED .148 MINOR DIA THRU
8-32 NC-2B THRU
CSK 82° TO MAJOR DIA
2 PLACES
⊕.010 DIA
-Y-
.06 TYP
SEE NOTE 9
.250
.125 BSC
.125 TYP
.250 TYP
.812 TYP
.812
1.062 BSC
.203 THRU 4 HOLES
⊕.010 DIA
② 8 REQD
SEE NOTES 7,8 & 15
⊕.010 DIA
.071 .072 THRU 82° CSK TO .080-.085 DIA-BOTH SIDES
228 HOLES
⊕.004 DIA
SEE NOTE 14
.075 4 PLACES
.254 .258 4 PLACES
-Z-
-.002
63
.220
.095 .115
.213 .217 DIA
2 PLACES
◎ Y .005
.082 .077
.211 .215
.460
①
.062 BSC
5.437 BSC
.250 BSC
.135-.140 X .31 DEEP
82° CSK TO .165 DIA
2 HOLES
⊕.004 DIA
SEE NOTE 11
.400 MAX. TYP
PARTIAL SECTION A-A
SCALE 2/1
DIAMETER TO BE FREE OF PAINT.
SEE DETAIL "A"
SEE NOTE 12
4 PLACES
DETAIL "A"
SCALE 4:1

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCREW THD LOCKING
1	1	6010663-001	BASE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014531	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
± —	±.005 ±.02	± 2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN Royal Turner DATE 22 JUN 66
CHECKED Ed Foster 23 JUN 66
APPROVAL D. Basta 24 JUN 66
APPROVAL
NASA APPROVAL R Jacob 9/2/66
CCB APPROVAL 9/21/66

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL CONNECTOR
SIG COND (56P1)
(INSEPARABLE ASSEMBLY)

CODE IDENT NO. 80230
SIZE D
6010663

SCALE 1/1
SHEET 1 OF 1

24 JUN 66

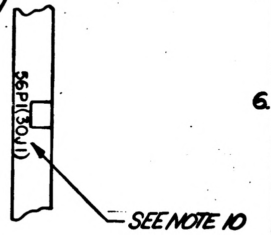
6010663

C 6010663 2

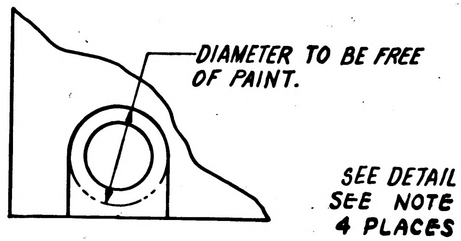
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		INITIAL RELEASE CLASS A PER TDRR 31139		5 JULY 66	
B		REVISED PER TDRR 31205		10-4-66	JUB
C		REVISED PER TDRR 32679		25 JAN 67	NE

NOTES:

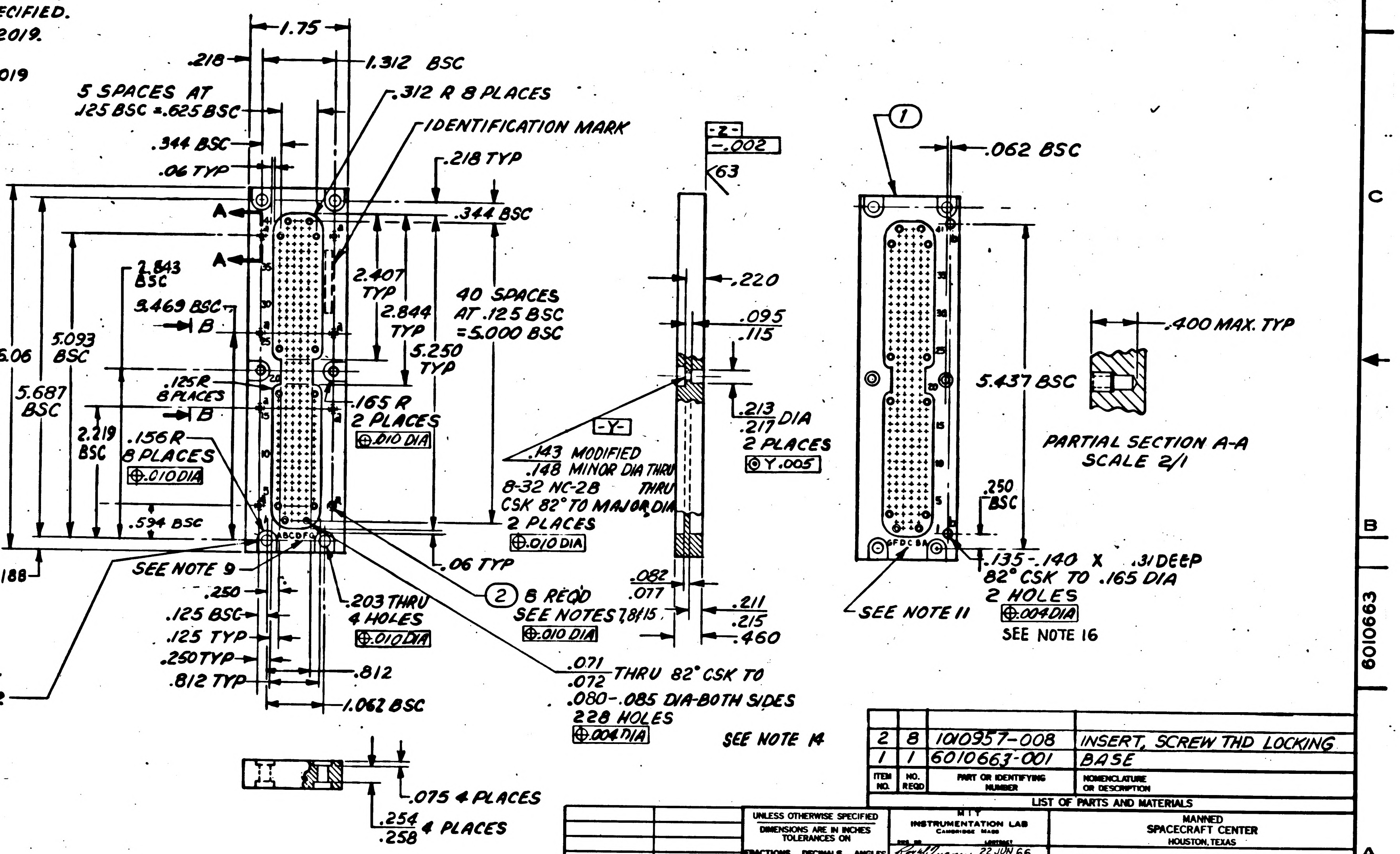
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: MAGNESIUM AZ31B-H24 PER QQ-M-44 MEETING THE CLASS A REQUIREMENTS OF THE ALUMINUM ASSOCIATIONS ULTRASONIC STANDARD FOR PLATING, EXTRUSIONS AND FORGINGS.
3. FINISH: ANODISE PER MIL-M-45202 TYPE I CLASS C.
4. MUST BE FREE FROM BURRS.
5. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS TO BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 125.
6. IDENTIFY USING PART NUMBER PER ND1002019.
7. COAT THREAD OF ITEM ② WITH MIL-P-8585 COLOR Y
8. INSTALL ITEM ② WET PER MS33646. REMOVE TANG.
9. MARK .06-.10 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN, UNLESS OTHERWISE SPECIFIED.
10. MARK .10-.14 HIGH BLACK CHARACTERS PER ND1002019. CENTRALIZE AS SHOWN.
11. MARK .06-.10 HIGH-BLACK CHARACTERS PER ND1002019 USING INK 1006271-10. DO NOT APPLY PROTECTIVE COATING. CENTRALIZE AS SHOWN ON -Z-
12. INDICATED AREA TO BE FREE OF ANODIZE. COAT PER ND1002040. DO NOT EPOXY COAT.
13. PAINT PER ND 1002279 USING PRIMER 1010992 AND PAINT 1008809-1 AND OVERCOAT PAINT PER ND1007291 TYPE III PAINT 1012543-003. ALL HOLES AND C'BORE CAVITIES FOR THE MOUNTING SCREWS MUST BE PAINTED EXCEPT AS NOTED.
14. VENDOR ITEM-SEE SPECIFICATION OR SOURCE CONTROL DRAWING.
15. ALL THREADED HOLES MARKED a MUST BE FREE OF ANODIZE AND PAINT.
16. ALL HOLES MARKED b MUST BE FREE OF ANODIZE. COAT PER ND 1002040. DO NOT EPOXY COAT OR PAINT HOLES.
17. TOUCH UP, EXCLUDING CORROSION, PER ND 1002040.


56P1(30J1)
SEE NOTE 10

VIEW B-B


DIAMETER TO BE FREE OF PAINT.

DETAIL "A"
SCALE 4:1


1.75
.218
1.312 BSC
.312 R 8 PLACES
5 SPACES AT .125 BSC = .625 BSC
IDENTIFICATION MARK
.344 BSC
.06 TYP
.218 TYP
A
A
.344 BSC
2.843 BSC
3.469 BSC
B
B
2.407 TYP
2.844 TYP
40 SPACES AT .125 BSC = 5.000 BSC
5.250 TYP
6.06
5.093 BSC
5.687 BSC
.125 R 8 PLACES
.165 R 2 PLACES
⊕.010 DIA
2.219 BSC
.156 R 8 PLACES
⊕.010 DIA
.594 BSC
.188
SEE NOTE 9
.250
.125 BSC
.125 TYP
.250 TYP
.812 TYP
.812
1.062 BSC
.203 THRU 4 HOLES
⊕.010 DIA
② 8 REQD SEE NOTES 7,8,15
⊕.010 DIA
SEE DETAIL "A" SEE NOTE 12 4 PLACES
.075 4 PLACES
.254 .258 4 PLACES
-Z-
-.002
63
.220
.095 .115
.213 .217 DIA 2 PLACES
⊕Y.005
-Y-
.143 MODIFIED .148 MINOR DIA THRU 8-32 NC-2B THRU CSK 82° TO MAJOR DIA 2 PLACES
⊕.010 DIA
.06 TYP
.082 .077
.211 .215
.460
.071 .072 THRU 82° CSK TO .080-.085 DIA-BOTH SIDES 228 HOLES
⊕.004 DIA
SEE NOTE 14
①
.062 BSC
5.437 BSC
.250 BSC
.135-.140 X .31 DEEP 82° CSK TO .165 DIA 2 HOLES
⊕.004 DIA
SEE NOTE 16
SEE NOTE 11
.400 MAX. TYP
PARTIAL SECTION A-A SCALE 2/1

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	8	1010957-008	INSERT, SCREW THD LOCKING
1	1	6010663-001	BASE

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
6014531	6014515

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 ±.02 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN Royal Turner DATE 22 JUN 66
CHECKED Ed Foster 23 JUN 66
APPROVAL D. Baste 24 JUN 66
APPROVAL
NASA APPROVAL R. Jacob
CCB APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BASE, ELECTRICAL CONNECTOR
SIG COND (56P1)
(INSEPARABLE ASSEMBLY)

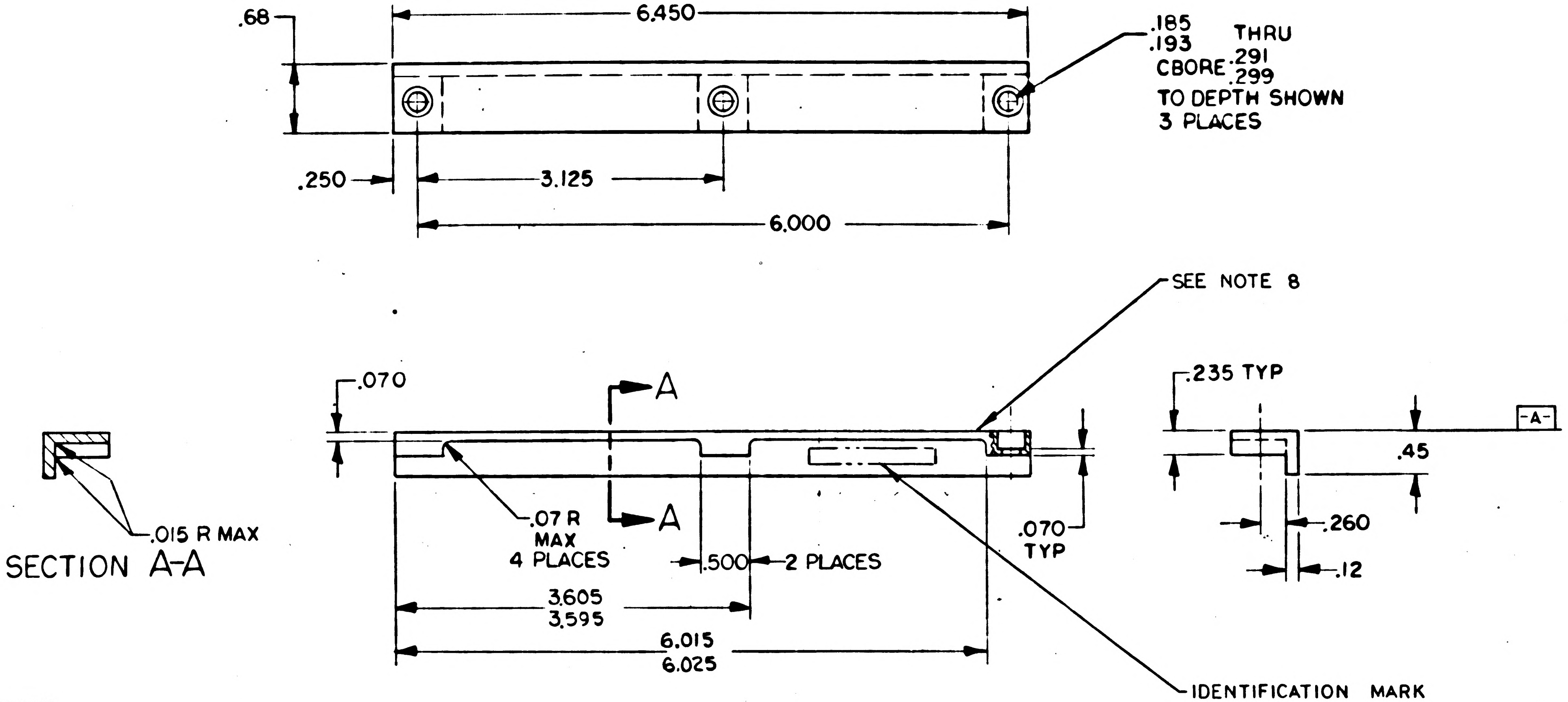
CODE IDENT NO. 80230
SIZE D
6010663
SCALE 1/1
SHEET 1 OF 1

Charleston 24 JUN 66

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
A		INITIAL RELEASE CLASS A PER TDRR 21182		WA	14 JUL '66	



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. MATERIAL: 6061-T651 AL PER QQ-A-250/11, TEMP T651
3. UNLESS OTHERWISE SPECIFIED ALL FILLETS AND RADII TO BE .010 MAX
4. REMOVE BURRS AND SHARP EDGES .005/.015
5. ALL SURFACES 125√
6. FINISH: ANODIZE PER MIL-A-8625, TYPE I, CLEAR
7. IDENTIFY WITH PART NO. PER ND1002019
8. PAINT SURFACE A WITH ZINC CHROMATE PRIMER PER MIL-P-8585 AND 1012543-003 PAINT PER ND1002291, TYPE III.

6007102-021	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± —
DECIMALS .XX ± .01 .XXX ± .005
ANGLES ± —
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN	E. Fitzow	7 JULY 66
CHECKED	W. Diehl	7 JUL 66
APPROVED	J. Petrangi	7 JUL 66
APPROVED		9 Sept 66
APPROVED CCB		9/22/66
APPROVED MSC	R. Jacob 9/23/66	
		DATE

ANGLE SUPPORT
PTA LEM

CODE IDENT NO.	SIZE	DRAWING NO.
80230	C	6010669
SCALE 1/1	NAS 9-497	SHEET 1 OF 1

6010669 A

~~MIT~~

Drawn in ink 7 JUL 66

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	LTR	DESCRIPTION	DATE	APPROVED
6014515	6014515	A	INITIAL RELEASE CLASS A PER TDRR 34366	18 AUG 67	Dal 26 JUN 67 [illegible]

REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS																								
REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
6010674
DO66346

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN	L. Tanko 13 JUN 67 (DAY MO YR)
CHECKER	W. Bell 21 JUN 67
ENGINEER	J. Busta 21 JUN 67
APPROVAL	
CONTR NO.	NAS 9-497
NASA APPROVAL	
MIT APPROVAL	

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS "A" (LEM)

SIZE	CODE IDENT. NO	
A	80230	6010677
SCALE NONE		SHEET 1 OF 109

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A	84	A												
51	A	85	A												
52	A	86	A												
53	A	87	A												
54	A	88	A												
55	A	89	A												
56	A	90	A												
57	A	91	A												
58	A	92	A												
59	A	93	A												
60	A	94	A												
61	A	95	A												
62	A	96	A												
63	A	97	A												
64	A	98	A												
65	A	99	A												
66	A	100	A												
67	A	101	A												
68	A	102	A												
69	A	103	A												
70	A	104	A												
71	A	105	A												
72	A	106	A												
73	A	107	A												
74	A	108	A												
75	A	109	A												
76	A														
77	A														
78	A														
79	A														
80	A														
81	A														
82	A														
83	A														

SIZE	CODE IDENT. NO.		
A	80230	6010677	
SCALE NONE	REV LTR A		SHEET 2

FORM 1377A2 8-65

NOTE NUMBER | GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6010671

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.

A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	3 OF 109

NOTE NUMBER | GENERAL NOTES DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS

CONNECTOR 56P8, USE ITEM NUMBER 36
CONNECTOR 56P11, USE ITEM NUMBER 62
CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	4 OF 109

NOTE NUMBER | GENERAL NOTES DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN

1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA 8.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.

TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	5 OF 109

NOTE NUMBER | GENERAL NOTES DESCRIPTION

30 PERFORM WORKMANSHIP VIBRATION.

A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

35 FABRICATE HARNESS PER ND 1002032.

36 LACE HARNESS USING ITEM 101.

37 ASSEMBLE CONTACTS ITEMS 33 AND 34 INTO INSULATORS PER ND1002136.

38 COMPLETELY COVER THE HARNESS WIRING, EXPOSED PR1538 POTTING, THE TOP OF CONNECTORS P2,P3 AND P4 AND THE SIDE OF P1 WITH A MINIMUM OF TWO WRAPS OF ALUMINUM FOIL TAPE. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE.

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	6 OF 109

NOTE NUMBER	GENERAL NOTES DESCRIPTION
39	MARK BAND WITH CONNECTOR REFERENCE DESIGNATION BY IMPRESSION STAMPING, .12 HIGH, CENTRALIZE AND FILL IMPRESSION WITH BLACK INK PER ND 1002019.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010677-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010677-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010677-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010677-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010677-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010677-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010677-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010677-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010677-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010677-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010677-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010677-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010677-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010677-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010677-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	18	1	6010677-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
11	36	6	1010958- 5	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
9	37	232	1010402- 2	SLEEVE, SOLDER
9	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
9	53	AR	1010661	EPOXY RESIN
9	54	AR	1010679	ADHESIVE, ACTIVATOR
9	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
	70	17	MS25036-52	TERMINAL LUG
9	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
9	78	9	1006783- 93	SCREW, BUTTON HD
9	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
9	91	5	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
9	92	5	1010945- 1	SPLICE-REDUCER.
9	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX.
9	97	AR	1008822	COLORANT, EPOXY BASE

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 11 OF 109	

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE
	101	AR	1008936-001	TAPE,LACING AND TYING
	102	AR	1008937-001	TAPE, ALUMINUM FOIL
	103	AR	1008937-002	TAPE, ALUMINUM FOIL
	104	AR	1008937-003	TAPE, ALUMINUM FOIL
	105	AR	1008937-005	TAPE, ALUMINUM FOIL
	106	AR	1008937-006	TAPE, ALUMINUM FOIL
	107	AR	1008937-007	TAPE, ALUMINUM FOIL
	108	10	1008940-001	BAND, MARKER

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 12 OF 109	

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	1A	5		SHLD A1 P3-340					.20 .19	NO NO		33	BRANCH 6
A	1B	5		P14-6 SHLD A1					.13 .20	NO NO		30	
A	1R			P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A	1Y			P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A	2	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	2A	5		SHLD A2 P3-640					.20 .19	NO NO		33	BRANCH 6
A	2B	5		P14-15 SHLD A2					.13 .20	NO NO		30	
A	2R			P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A	2Y			P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A	3	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	3A	6		SHLD A3 P3-341					.20 .19	NO NO		33	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 13 OF 109	

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3B	5		P14-21 SHLD A3					.13 .20	NO NO		30	
A	3R			P3-141 P14-8					.19 .13	NO NO		30	BRANCH 6
A	3Y			P3-241 P14-20					.19 .13	NO NO		30	BRANCH 6
A	4	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	4A	6		SHLD A4 P3-641					.20 .19	NO NO		33	BRANCH 7
A	4B	5		P14-19 SHLD A4					.13 .20	NO NO		30	
A	4R			P3-441 P14-7					.19 .13	NO NO		30	BRANCH 7
A	4Y			P3-541 P14-18					.19 .13	NO NO		30	BRANCH 7
A	5	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	5A	5		SHLD A5 P3-342					.20 .19	NO NO		33	BRANCH 6
A	5B	5		P14-11 SHLD A5					.13 .20	NO NO		30	
A	5R			P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 14 OF 109	

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	5Y		P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A	6	16			1.00 1.75	.75 1.50				5B 5B	37 37	
A	6A	5	SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A	6B	5	P14-23 SHLD A6					.13 .20	NO NO		30	
A	6R		P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A	6Y		P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A	7	16			1.00 1.75	.75 1.50				6B 5B	37 37	
A	7A	6	SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A	7B	5	P14-29 SHLD A7					.13 .20	NO NO		30	
A	7R		P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A	7Y		P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A	8	16			1.00 1.75	.75 1.50				6B 5B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 15 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	8A	6	SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A	8B	5	P14-27 SHLD A8					.13 .20	NO NO		30	
A	8R		P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A	8Y		P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A	9	16			1.00 1.75	.75 1.50				5B 6B	37 37	
A	9A	5	SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A	9B	5	P14-54 SHLD A9					.13 .20	NO NO		30	
A	9R		P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A	9Y		P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A	10	16			1.00 1.75	.75 1.50				6B 5B	37 37	
A	10A	5	SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A	10B	5	P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 16 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10R		P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A	10Y		P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A	11	16			1.00 1.75	.75 1.50				5B 5B	37 37	
A	11A	6	SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A	11B	5	P14-57 SHLD A11					.13 .20	NO NO		30	
A	11R		P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A	11Y		P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A	12	16			1.00 1.75	.75 1.50				6B 5B	37 37	
A	12A	6	SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A	12B	5	P14-33 SHLD A12					.13 .20	NO NO		30	
A	12R		P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A	12Y		P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 17 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	16			1.00 1.75	.75 1.50				5B 6B	37 37	
A	13A	6	SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A	13B	5	P12-57 SHLD A13					.13 .20	NO NO		30	
A	13R		P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A	13Y		P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A	14	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	14A	6	SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A	14B	5	P12-83 SHLD A14					.13 .20	NO NO		30	
A	14R		P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A	14Y		P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A	15	16			1.00 1.75	.75 1.50				5B 6B	37 37	
A	15A	6	SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 18 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A	15R			P3-147 P12-16					.19 .13	NO NO		 30	BRANCH 7
A	15Y			P3-247 P12-6					.19 .13	NO NO		 30	BRANCH 7
A	16	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	16A	6		SHLD A16 P3-647					.20 .19	NO NO		 33	 BRANCH 7
A	16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A	16R			P3-447 P12-18					.19 .13	NO NO		 30	BRANCH 7
A	16Y			P3-547 P12-36					.19 .13	NO NO		 30	BRANCH 7
A	17	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	17A	6		SHLD A17 P3-348					.20 .19	NO NO		 33	 BRANCH 7
A	17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A	17R			P3-148 P12-84					.19 .13	NO NO		 30	BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR NA	SHEET 19 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	17Y			P3-248 P12-60					.19 .13	NO NO		 30	BRANCH 7
A	18	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	18A	6		SHLD A18 P3-648					.20 .19	NO NO		 33	 BRANCH 7
A	18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A	18R			P3-448 P12-62					.19 .13	NO NO		 30	BRANCH 7
A	18Y			P3-548 P12-38					.19 .13	NO NO		 30	BRANCH 7
A	19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	19A	6		SHLD A19 P3-349					.20 .19	NO NO		 33	 BRANCH 7
A	19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A	19R			P3-149 P12-21					.19 .13	NO NO		 30	BRANCH 7
A	19Y			P3-249 P12-8					.19 .13	NO NO		 30	BRANCH 7
A	20	8											

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR NA	SHEET 20 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG.	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	21	8											
A	21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	22	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	22A	5		SHLD A22 P2-B33					.20 .19	NO NO		 33	 BRANCH 4
A	22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A	22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	23	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	23A	5		SHLD A23 P2-D33					.20 .19	NO NO		 33	 BRANCH 4

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR NA	SHEET 21 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A	23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	24	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	24A	5		SHLD A24 P2-G33					.20 .19	NO NO		 33	 BRANCH 4
A	24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A	24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	25	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	25A	5		SHLD A25 P2-C33					.20 .19	NO NO		 33	 BRANCH 4
A	25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A	25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR NA	SHEET 22 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34 P3-530					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 26A	5		SHLD A26 P2-F33					.20 .19	NO NO		 33	 BRANCH 4
A 26B	5		P3-331 SHLD A26					.19 .20	NO NO		33	BRANCH 6
A 26R			P2-F35 P3-131					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 26Y			P2-F34 P3-231					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 27	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 27A	5		SHLD A27 P2-H33					.20 .19	NO NO		 33	 BRANCH 4
A 27B	5		P3-631 SHLD A27					.19 .20	NO NO		33	BRANCH 6
A 27R			P2-H35 P3-431					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 27Y			P2-H34 P3-531					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 28	16				1.00 1.75	.75 1.50				5B 6B	37 37	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 23 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28 E15					.20 .19	NO NO			
A 28B	5		P7-54 SHLD A28					.13 .20	NO NO		29	
A 28R			P3-132 P7-78					.19 .13	NO NO		 29	BRANCH 6
A 28Y			P3-232 P7-53					.19 .13	NO NO		 29	BRANCH 6
A 29	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 29A	5		SHLD A29 E16					.20 .19	NO NO			
A 29B	5		P7-80 SHLD A29					.13 .20	NO NO		29	
A 29R			P3-432 P7-79					.19 .13	NO NO		 29	BRANCH 6
A 29Y			P3-532 P7-55					.19 .13	NO NO		 29	BRANCH 6
A 30	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 30A	5		SHLD A30 E15					.20 .19	NO NO			
A 30B	5		P7-33 SHLD A30					.13 .20	NO NO		29	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 24 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133 P7-16					.19 .13	NO NO		 29	BRANCH 6
A 30Y			P3-233 P7-32					.19 .13	NO NO		 29	BRANCH 6
A 31	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 31A	5		SHLD A31 E16					.20 .19	NO NO			
A 31B	5		P7-57 SHLD A31					.13 .20	NO NO		29	
A 31R			P3-433 P7-81					.19 .13	NO NO		34 29	BRANCH 6
A 31Y			P3-533 P7-56					.19 .13	NO NO		34 29	BRANCH 6
A 32	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 32A	5		SHLD A32 E15					.20 .19	NO NO			
A 32B	5		P7-35 SHLD A32					.13 .20	NO NO		29	
A 32R			P3-134 P7-34					.19 .13	NO NO		34 29	BRANCH 6
A 32Y			P3-234 P7-17					.19 .13	NO NO		34 29	BRANCH 6

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 25 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8 P3-136					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 34	2		P2-K8 P3-336					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 35	4		P3-113 P4-514					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 36	4		P3-612 P4-314					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 37	4		P3-512 P4-414					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 38	4		P3-412 P4-614					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 39	4		P3-312 P4-313					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 40	4		P3-112 P4-412					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 41	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 41A	5		SHLD A41 P3-111					.20 .19	NO NO		 33	 BRANCH 5
A 41B	5		E4 SHLD A41					.19 .20	NO NO			
A 41R			P3-311 P4-515					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 26 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	41Y			P3-211 P4-615					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8
A	42	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	42A	5		SHLD A42 P3-410					.20 .19	NO NO		33	BRANCH 5
A	42B	5		E7 SHLD A42					.19 .20	NO NO			
A	42R			P3-610 P4-332					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	42Y			P3-510 P4-432					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	43	16				1.00 1.00	.75 .75				5B 5B	37 37	
A	43A	5		SHLD A43 P3-110					.20 .19	NO NO		33	BRANCH 5
A	43B	5		E7 SHLD A43					.19 .20	NO NO			
A	43R			P3-310 P4-330					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	43Y			P3-210 P4-430					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	44	16				1.00 1.00	.75 .75				5B 5B	37 37	

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	27 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	44A	5		SHLD A44 P3-409					.20 .19	NO NO		33	BRANCH 5
A	44B	5		E5 SHLD A44					.19 .20	NO NO			
A	44R			P3-609 P4-329					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	44Y			P3-5C9 P4-429					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	45	16				1.00 1.00	.75 .75				6B 5B	37 37	
A	45A	5		SHLD A45 P3-109					.20 .19	NO NO		33	BRANCH 5
A	45B	5		E6 SHLD A45					.19 .20	NO NO			
A	45R			P3-309 P4-328					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	45Y			P3-209 P4-428					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	46	16				1.00 1.00	.75 .75				6B 5B	37 37	
A	46A	5		SHLD A46 P3-408					.20 .19	NO NO		33	BRANCH 5
A	46B	5		E7 SHLD A46					.19 .20	NO NO			

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	28 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	46R			P3-6C8 P4-334					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	46Y			P3-5C8 P4-434					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	47	16				1.00 1.00	.75 .75				6B 5B	37 37	
A	47A	5		SHLD A47 P3-108					.20 .19	NO NO		33	BRANCH 5
A	47B	5		E7 SHLD A47					.19 .20	NO NO			
A	47R			P3-308 P4-333					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	47Y			P3-2C8 P4-433					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	48	16				1.00 1.00	.75 .75				6B 6B	37 37	
A	48A	5		SHLD A48 P3-407					.20 .19	NO NO		33	BRANCH 5
A	48B	5		E8 SHLD A48					.19 .20	NO NO			
A	48R			P3-6C7 P4-338					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	48Y			P3-5C7 P4-438					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	29 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	49	16				1.00 1.00	.75 .75				6B 6B	37 37	
A	49A	5		SHLD A49 P3-1C7					.20 .19	NO NO		33	BRANCH 5
A	49B	5		E8 SHLD A49					.19 .20	NO NO			
A	49R			P3-3C7 P4-337					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	49Y			P3-207 P4-437					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	50	16				1.00 1.00	.75 .75				6B 6B	37 37	
A	50A	5		SHLD A50 P3-406					.20 .19	NO NO		33	BRANCH 5
A	50B	5		E7 SHLD A50					.19 .20	NO NO			
A	50R			P3-606 P4-336					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	50Y			P3-5C6 P4-436					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	51	16				1.00 1.00	.75 .75				6B 6B	37 37	
A	51A	5		SHLD A51 P3-106					.20 .19	NO NO		33	BRANCH 5

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	30 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7					.19	NO			
			SHLD A51					.20	NO			
A 51R			P3-306					.19	NO		34	BRANCH 5
			P4-335					.19	NO		34	BRANCH 9
A 51Y			P3-206					.19	NO		34	BRANCH 5
			P4-435					.19	NO		34	BRANCH 9
A 52	4		P3-213					.19	NO		34	O, BRANCH 5
			P4-624					.19	NO		34	BRANCH 8
A 53	4		P3-313					.19	NO		34	O, BRANCH 5
			P4-525					.19	NO		34	BRANCH 8
A 54	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 54A	5		SHLD A54					.20	NO			
			P3-405					.19	NO		33	BRANCH 5
A 54B	5		E10					.19	NO			
			SHLD A54					.20	NO			
A 54R			P3-605					.19	NO		34	BRANCH 5
			P4-146					.19	NO		34	BRANCH 10
A 54Y			P3-505					.19	NO		34	BRANCH 5
			P4-246					.19	NO		34	BRANCH 10
A 55	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 55A	5		SHLD A55					.20	NO			
			P3-105					.19	NO		33	BRANCH 5

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10					.19	NO			
			SHLD A55					.20	NO			
A 55R			P3-305					.19	NO		34	BRANCH 5
			P4-145					.19	NO		34	BRANCH 10
A 55Y			P3-205					.19	NO		34	BRANCH 5
			P4-245					.19	NO		34	BRANCH 10
A 56	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 56A	5		SHLD A56					.20	NO			
			P3-404					.19	NO		33	BRANCH 5
A 56B	5		E10					.19	NO			
			SHLD A56					.20	NO			
A 56R			P3-604					.19	NO		34	BRANCH 5
			P4-144					.19	NO		34	BRANCH 10
A 56Y			P3-504					.19	NO		34	BRANCH 5
			P4-244					.19	NO		34	BRANCH 10
A 57	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 57A	5		SHLD A57					.20	NO			
			P3-104					.19	NO		33	BRANCH 5
A 57B	5		E8					.19	NO			
			SHLD A57					.20	NO			
A 57R			P3-304					.19	NO		34	BRANCH 5
			P4-143					.19	NO		34	BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
SHEET 32 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204					.19	NO		34	BRANCH 5
			P4-243					.19	NO		34	BRANCH 10
A 58	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 58A	5		SHLD A58					.20	NO			
			P3-403					.19	NO		33	BRANCH 5
A 58B	5		E9					.19	NO			
			SHLD A58					.20	NO			
A 58R			P3-603					.19	NO		34	BRANCH 5
			P4-148					.19	NO		34	BRANCH 10
A 58Y			P3-503					.19	NO		34	BRANCH 5
			P4-248					.19	NO		34	BRANCH 10
A 59	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 59A	5		SHLD A59					.20	NO			
			P3-103					.19	NO		33	BRANCH 5
A 59B	5		E10					.19	NO			
			SHLD A59					.20	NO			
A 59R			P3-303					.19	NO		34	BRANCH 5
			P4-147					.19	NO		34	BRANCH 10
A 59Y			P3-203					.19	NO		34	BRANCH 5
			P4-247					.19	NO		34	BRANCH 10
A 60	16				1.00	.75				6B	37	
					1.00	.75				6B	37	

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60					.20	NO			
			P3-402					.19	NO		33	BRANCH 5
A 60B	5		E9					.19	NO			
			SHLD A60					.20	NO			
A 60R			P3-602					.19	NO		34	BRANCH 5
			P4-152					.19	NO		34	BRANCH 10
A 60Y			P3-502					.19	NO		34	BRANCH 5
			P4-252					.19	NO		34	BRANCH 10
A 61	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 61A	5		SHLD A61					.20	NO			
			P3-102					.19	NO		33	BRANCH 5
A 61B	5		E9					.19	NO			
			SHLD A61					.20	NO			
A 61R			P3-302					.19	NO		34	BRANCH 5
			P4-151					.19	NO		34	BRANCH 10
A 61Y			P3-202					.19	NO		34	BRANCH 5
			P4-251					.19	NO		34	BRANCH 10
A 62	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 62A	5		SHLD A62					.20	NO			
			P3-401					.19	NO		33	BRANCH 5
A 62B	5		E9					.19	NO			
			SHLD A62					.20	NO			

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
SHEET 34 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 63A	5		SHLD A63 P3-101					.20 .19	NO NO		33	BRANCH 5
A 63B	5		E9 SHLD A63					.19 .20	NO NO			
A 63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 64	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 64A	6		SHLD A64 P3-649					.20 .19	NO NO		33	BRANCH 7
A 64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A 64R			P3-449 P12-64					.19 .13	NO NO		 30	BRANCH 7
A 64Y			P3-549 P12-65					.19 .13	NO NO		 30	BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 35 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 65A	5		SHLD A65 E14					.20 .19	NO NO			
A 65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A 65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A 65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A 66	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 66A	5		SHLD A66 E14					.20 .19	NO NO			
A 66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A 66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A 66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A 67	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 67A	5		SHLD A67 E14					.20 .19	NO NO			

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 36 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A 67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A 67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A 68	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 68A	5		SHLD A68 E14					.20 .19	NO NO			
A 68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A 68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A 68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A 69	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 69A	5		SHLD A69 E14					.20 .19	NO NO			
A 69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A 69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 37 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A 70	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 70A	5		SHLD A70 E14					.20 .19	NO NO			
A 70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A 70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A 70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A 71	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 71A	5		SHLD A71 E14					.20 .19	NO NO			
A 71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A 71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A 71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A 72	15				1.00 1.75	.75 1.50				5B 5B	37 37	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 38 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 72A	5		SHLD A72 E12					.20 .19	NO NO			
A 72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A 72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A 72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A 73	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 73A	5		SHLD A73 E11					.20 .19	NO NO			
A 73B	5		P13-5 SHLD A73					.13 .20	NO NO		30	
A 73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A 73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A 74	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 74A	5		SHLD A74 E11					.20 .19	NO NO			
A 74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR 4A -	SHEET 39 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A 74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A 75	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 75A	5		SHLD A75 E11					.20 .19	NO NO			
A 75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A 75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A 75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A 76	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 76A	5		SHLD A76 E11					.20 .19	NO NO			
A 76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A 76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A 76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR 4A	SHEET 40 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 77A	5		SHLD A77 E11					.20 .19	NO NO			
A 77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A 77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A 77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A 78	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 78A	5		SHLD A78 E11					.20 .19	NO NO			
A 78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A 78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A 78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A 79	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR 4A	SHEET 41 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A 79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A 79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A 80	9											
A 80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A 80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A 81	9											
A 81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A 81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A 82	9											
A 82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A 82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR 4A	SHEET 42 OF 109	

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR NA		SHEET 43 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR NA		SHEET 44 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR NA		SHEET 45 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				6B 6B	37 37	

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR NA		SHEET 46 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A54 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A54					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 95A	5		SHLD A55 E13					.20 .19	NO NO			
A 95B	5		P13-54 SHLD A55					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO			
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 47 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 97A	5		SHLD A57 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A57					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P, BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 48 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 49 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		 31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		 31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 50 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 108Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 109R			P2-A14 P11-S					.19 .19	NO NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 51 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 52 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 128	8											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 53 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		 33	 BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		 33	 BRANCH 3
A 134	16				1.00 1.00	.75 .75				58 58	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		 33	 BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135	16				1.00 1.00	.75 .75				58 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 54 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135					.20	NO			
			P2-G24					.19	NO		33	BRANCH 4
A 135B	5		E12					.19	NO			
			SHLD A135					.20	NO			
A 135R			P2-H24					.19	NO		34	BRANCH 4
			P4-323					.19	NO		34	BRANCH 8
A 135Y			P2-K24					.19	NO		34	
			P4-423					.19	NO		34	
A 136	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 136A	5		SHLD A136					.20	NO			
			P2-G25					.19	NO		33	BRANCH 4
A 136B	5		E12					.19	NO			
			SHLD A136					.20	NO			
A 136R			P2-H25					.19	NO		34	BRANCH 4
			P4-322					.19	NO		34	BRANCH 8
A 136Y			P2-K25					.19	NO		34	BRANCH 4
			P4-422					.19	NO		34	BRANCH 8
A 137	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 137A	5		SHLD A137					.20	NO			
			P2-G21					.19	NO		33	BRANCH 4
A 137B	5		E4					.19	NO			
			SHLD A137					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 55 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21					.19	NO		34	BRANCH 4
			P4-316					.19	NO			BRANCH 8
A 137Y			P2-K21					.19	NO		34	BRANCH 4
			P4-416					.19	NO			BRANCH 8
A 139	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 139A	5		SHLD A139					.20	NO			
			P2-G22					.19	NO		33	BRANCH 4
A 139B	5		E4					.19	NO			
			SHLD A139					.20	NO			
A 139R			P2-H22					.19	NO		34	BRANCH 4
			P4-315					.19	NO		34	BRANCH 8
A 139Y			P2-K22					.19	NO		34	BRANCH 4
			P4-415					.19	NO		34	BRANCH 8
A 141	4		P1-C17					.19	NO		34	BRANCH 1
			P8-L					.19	NO			
A 143	11											
A 143G			P1-F15					.19	NO		34	BRANCH 1
			P2-D15					.19	NO		34	BRANCH 3
A 143R			P1-D16					.19	NO		34	BRANCH 1
			P2-G15					.19	NO		34	BRANCH 3
A 143Y			P1-F16					.19	NO		34	BRANCH 1
			P2-F15					.19	NO		34	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 56 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36					.19	NO		34	BRANCH 2
			P2-G28					.19	NO		34	BRANCH 4
A 144N			P1-A37					.19	NO		34	BRANCH 2
			P2-G31					.19	NO		34	BRANCH 4
A 144R			P1-B37					.19	NO		34	BRANCH 2
			P2-G30					.19	NO		34	BRANCH 4
A 144Y			P1-A36					.19	NO		34	BRANCH 2
			P2-G29					.19	NO		34	BRANCH 4
A 148	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 148A	5		SHLD A148					.20	NO			
			P1-A30					.19	NO		33	BRANCH 2
A 148B	6		P3-341					.19	NO			BRANCH 6
			SHLD A148					.20	NO			
A 148R			P1-A29					.19	NO		34	BRANCH 2
			P3-141					.19	NO		33	BRANCH 6
A 148Y			P1-A28					.19	NO		34	BRANCH 2
			P3-241					.19	NO		33	BRANCH 6
A 149	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 149A	5		SHLD A149					.20	NO			
			P1-B30					.19	NO		33	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 57 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641					.19	NO			BRANCH 6
			SHLD A149					.20	NO			
A 149R			P1-B29					.19	NO		34	BRANCH 2
			P3-441					.19	NO		33	BRANCH 6
A 149Y			P1-B28					.19	NO		34	BRANCH 2
			P3-541					.19	NO		33	BRANCH 6
A 150	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 150A	5		SHLD A150					.20	NO			
			P1-C30					.19	NO		33	BRANCH 2
A 150B	6		P3-343					.19	NO			BRANCH 7
			SHLD A150					.20	NO			
A 150R			P1-C29					.19	NO		34	BRANCH 2
			P3-143					.19	NO		33	BRANCH 7
A 150Y			P1-C28					.19	NO		34	BRANCH 2
			P3-243					.19	NO		33	BRANCH 7
A 151	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 151A	5		SHLD A151					.20	NO			
			P1-D30					.19	NO		33	BRANCH 2
A 151B	6		P3-643					.19	NO			BRANCH 7
			SHLD A151					.20	NO			
A 151R			P1-D29					.19	NO		34	BRANCH 2
			P3-443					.19	NO		33	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 58 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28					.19	NO		34	BRANCH 2
			P3-543					.19	NO		33	BRANCH 7
A 152	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 152A	5		SHLD A152					.20	NO			
			P1-F30					.19	NO		33	BRANCH 2
A 152B	6		P3-345					.19	NO			BRANCH 7
			SHLD A152					.20	NO			
A 152R			P1-F29					.19	NO		34	BRANCH 2
			P3-145					.19	NO		33	BRANCH 7
A 152Y			P1-F28					.19	NO		34	BRANCH 2
			P3-245					.19	NO		33	BRANCH 7
A 153	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 153A	5		SHLD A153					.20	NO			
			P1-G30					.19	NO		33	BRANCH 2
A 153B	6		P3-645					.19	NO			BRANCH 7
			SHLD A153					.20	NO			
A 153R			P1-G29					.19	NO		34	BRANCH 2
			P3-445					.19	NO		33	BRANCH 7
A 153Y			P1-G28					.19	NO		34	BRANCH 2
			P3-545					.19	NO		33	BRANCH 7
A 154	16				1.00	.75				5B	37	
					1.00	.75				6B	37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 59 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154					.20	NO			
			P1-A27					.19	NO		33	BRANCH 2
A 154B	6		P3-347					.19	NO			BRANCH 7
			SHLD A154					.20	NO			
A 154R			P1-A26					.19	NO		34	BRANCH 2
			P3-147					.19	NO		33	BRANCH 7
A 154Y			P1-A25					.19	NO		34	BRANCH 2
			P3-247					.19	NO		33	BRANCH 7
A 155	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 155A	5		SHLD A155					.20	NO			
			P1-B27					.19	NO		33	BRANCH 2
A 155B	6		P3-647					.19	NO			BRANCH 7
			SHLD A155					.20	NO			
A 155R			P1-B26					.19	NO		34	BRANCH 2
			P3-447					.19	NO		33	BRANCH 7
A 155Y			P1-B25					.19	NO		34	BRANCH 2
			P3-547					.19	NO		33	BRANCH 7
A 156	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 156A	5		SHLD A156					.20	NO			
			P1-C27					.19	NO		33	BRANCH 2
A 156B	6		P3-349					.19	NO			BRANCH 7
			SHLD A156					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 60 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26					.19	NO		34	BRANCH 2
			P3-149					.19	NO		33	BRANCH 7
A 156Y			P1-C25					.19	NO		34	BRANCH 2
			P3-249					.19	NO		33	BRANCH 7
A 157	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 157A	5		SHLD A157					.20	NO			
			P1-D27					.19	NO		33	BRANCH 2
A 157B	6		P3-649					.19	NO			BRANCH 7
			SHLD A157					.20	NO			
A 157R			P1-D26					.19	NO		34	BRANCH 2
			P3-449					.19	NO		33	BRANCH 7
A 157Y			P1-D25					.19	NO		34	BRANCH 2
			P3-549					.19	NO		33	BRANCH 7
A 158	3		P1-A33					.19	NO		33	BRANCH 2
			P3-119					.19	NO		33	BRANCH 6
A 159	4		P1-A34					.19	NO		34	BRANCH 2
			P3-422					.19	NO		34	BRANCH 6
A 160	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 160A	5		SHLD A160					.20	NO			
			P1-C37					.19	NO		33	BRANCH 2
A 160B	5		E15					.19	NO			
			SHLD A160					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 61 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37					.19	NO		34	BRANCH 2
			P3-132					.19	NO		33	BRANCH 6
A 160Y			P1-F37					.19	NO		34	BRANCH 2
			P3-232					.19	NO		33	BRANCH 6
A 161	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 161A	5		SHLD A161					.20	NO			
			P1-C38					.19	NO		33	BRANCH 2
A 161B	5		E16					.19	NO			
			SHLD A161					.20	NO			
A 161R			P1-D38					.19	NO		34	BRANCH 2
			P3-432					.19	NO		33	BRANCH 6
A 161Y			P1-F38					.19	NO		34	BRANCH 2
			P3-532					.19	NO		33	BRANCH 6
A 162	16				1.00	.75				6B	37	
					1.00	.75				5B	37	
A 162A	5		SHLD A162					.20	NO			
			P1-C39					.19	NO		33	BRANCH 2
A 162B	5		E15					.19	NO			
			SHLD A162					.20	NO			
A 162R			P1-D39					.19	NO		34	BRANCH 2
			P3-133					.19	NO		33	BRANCH 6
A 162Y			P1-F39					.19	NO		34	BRANCH 2
			P3-233					.19	NO		33	BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 62 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-1C2					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-8					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 63 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 1C
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 1C
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 64 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 65 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 66 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NG		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P1C-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P1C-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-3C					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	YES NO			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 10
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	YES NO			
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 10
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 10
A 250	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO			
A 250B	5		E19 SHLD A250					.19 .20	YES NO			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 10
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 10
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E, BRANCH 10

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E, BRANCH 10
A 252	9											E, BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E, BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E, BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G, BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G, BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G, BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G, BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G, BRANCH 9

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G, BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G, BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G, BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G, BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G, BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G, BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G, BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 72 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G, BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G, BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G, BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G, BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G, BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G, BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G, BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 73 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G, BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G, BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G, BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M, BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M, BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M, BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M, BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M, BRANCH 9

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 74 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M, BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M, BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M, BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E, BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E, BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E, BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E, BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 75 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E, BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E, BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E, BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A, BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A, BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A, BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A, BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A, BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 76 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A, BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A, BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B, BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B, BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B, BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B, BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B, BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B, BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B, BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B, BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B, BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 77 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B, BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B, BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B, BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B, BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B, BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B, BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B, BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B, BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B, BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B, BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B, BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 78 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B, BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B, BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B, BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B, BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B, BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B, BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B, BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B, BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B, BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G, BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 79 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G, BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G, BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A, BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A, BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B, BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		31	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 80 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 81 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 82 OF 109

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 83 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO			
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 84 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 85 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H, BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H, BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H, BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H, BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H, BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H, BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H, BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 86 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H, BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H, BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H, BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H, BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H, BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H, BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H, BRANCH 8
A 414	4		P4-611 P9-56					.19 .13	NO NO		34 29	H, BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H, BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 87 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 88 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 89 OF 109

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DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				58 58	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		 33	 BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 90 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 443A	5		SHLD A443 P1-F23					.20 .19	NO NO		33	BRANCH 1
A 443B	6		P3-348 SHLD A443					.19 .20	NO NO			BRANCH 7
A 443R			P1-F21 P3-148					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 443Y			P1-F22 P3-248					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 444A	5		SHLD A444 P1-C23					.20 .19	NO NO		33	BRANCH 1
A 444B	6		P3-648 SHLD A444					.19 .20	NO NO			BRANCH 7
A 444R			P1-C21 P3-448					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444Y			P1-C22 P3-548					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 445A	5		SHLD A445 P1-B23					.20 .19	NO NO		33	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 91 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346 SHLD A445					.19 .20	NO NO			BRANCH 7
A 445R			P1-B21 P3-146					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445Y			P1-B22 P3-246					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 446	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 446A	5		SHLD A446 P1-B17					.20 .19	NO NO		33	BRANCH 1
A 446B	5		E4 SHLD A446					.19 .20	NO NO			
A 446R			P1-B16 P4-316					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 446Y			P1-B15 P4-416					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 448	9											
A 448R			P1-A31 P2-A27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 448Y			P1-B31 P2-B27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449	9											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 92 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31 P2-A29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449Y			P1-D31 P2-B29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450	9											
A 450R			P1-F31 P2-A31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450Y			P1-G31 P2-B31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 451	2		P6-85 E18					.13 .19	NO YES		29	
A 452	4		P1-G11 P6-74					.19 .13	NO NO		34 29	BRANCH 1
A 453	4		P1-F11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 454	4		P1-G9 P10-24					.19 .13	NO NO		34 30	BRANCH 1
A 455	4		P1-C13 P10-26					.19 .13	NO NO		34 30	BRANCH 1
A 456	4		P1-C7 P10-33					.19 .13	NO NO		34 30	BRANCH 1
A 457	4		P1-B7 P10-56					.19 .13	NO NO		34 30	BRANCH 1

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A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 93 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7 P10-81					.19 .13	NO NO		34 30	BRANCH 1
A 460	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 460A	5		SHLD A460 E6					.20 .19	NO NO			
A 460B	5		E19 SHLD A460					.19 .20	YES NO			
A 460R			E44 P6-62					.30 .13	NO NO		29	BRANCH 9,LARGE END
A 460Y			E45 P6-38					.30 .13	NO NO		29	BRANCH 9,LARGE END
A 461	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 461A	5		SHLD A461 E6					.20 .19	NO NO			
A 461B	5		E19 SHLD A461					.19 .20	YES NO			
A 461R			E46 P6-64					.30 .13	NO NO		29	BRANCH 9,LARGE END
A 461Y			E47 P6-39					.30 .13	NO NO		29	BRANCH 9,LARGE END
A 462	16				1.00 1.00	.75 .75				7 5B	38 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 94 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-D35 E44					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 462Y			P1-F35 E45					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463	16				1.00 1.00	.75 .75				7 6B	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO			
A 463R			P1-D36 E46					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463Y			P1-F36 E47					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 464	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO			
A 464B	5		E21 SHLD A464					.19 .20	YES NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 95 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	YES NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N, BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 96 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N, BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29 93	8
A 476	2		P5-74					.13	NO		29 93	8
A 477	15				1.00 1.75	.75 1.50				5B 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			LARGE END
A 477B	5		E20 SHLD A477					.19 .20	YES NO			

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SCALE-NONE	REV LTR	#A	SHEET 97 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				5B 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	YES NO			
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J, BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J, BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J, BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 98 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J, BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J, BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J, BRANCH 10
A 486	4		P4-644 P6-9					.18 .13	NO NO		34 29	J, BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J, BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J, BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J, BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J, BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C, BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C, BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C, BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 99 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J, BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J, BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J, BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F, BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F, BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F, BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F, BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F, BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F, BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F, BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F, BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F, BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 100 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F, BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F, BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J, BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J, BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J, BRANCH 10
A 512	4		P4-550 P6-43					.13 .13	NO NO		34 29	J, BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J, BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J, BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J, BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J, BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J, BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J, BRANCH 10

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A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 101 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J, BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J, BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J, BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J, BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J, BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D, BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D, BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D, BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J, BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J, BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J, BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 102 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555 P6-49					.18 .13	NO NO		34 29	J, BRANCH 10
A 532	4		P4-556 P6-28					.18 .13	NO NO		34 29	J, BRANCH 10
A 533	4		P4-6C2 P6-22					.18 .13	NO NO		34 29	J, BRANCH 10
A 534	4		P4-101 P6-41					.18 .13	NO NO		34 29	J, BRANCH 10
A 535	4		P4-113 P9-32					.18 .13	NO NO		34 29	C, BRANCH 8
A 536	4		P4-112 P9-16					.18 .13	NO NO		34 30	C, BRANCH 8
A 537	14				1.00 1.75	.75 1.50				58 68	37 37	
A 537A	5		SHLD A537 E43					.20 .30	NO NO			LARGE END.
A 537B	5		P14-69 SHLD A537					.19 .20	NO NO		30	
A 537Y			P2-G18 P14-25					.18 .13	NO NO		33 30	BRANCH 4
A 539	4		P4-538 P4-637					.18 .18	NO NO		34 34	
A 540	4		P4-613 P7-66					.18 .13	NO NO		34 29	D, BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 103 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513 P7-67					.18 .13	NO NO		34 29	D, BRANCH 9
A 565	2		P8-D P8-F					.22 .22	NO NO			
A 566	2		P8-D P8-F					.22 .22	NO NO		32	
A 567	2		P8-E P8-F					.22 .22	NO NO			
A 568	2		P8-E P8-F					.22 .22	NO NO		32 32	
A 569	2		P8-H P8-M					.22 .22	NO NO			
A 570	2		P8-H P8-M					.22 .22	NO NO		32	
A 571	2		P8-J P8-M					.22 .22	NO NO			
A 572	2		P8-J P8-M					.22 .22	NO NO		32 32	
A 573	4		P4-628 P6-83					.18 .13	NO NO		34 29	J, BRANCH 10
A 574	4		P4-528 P6-59					.18 .13	NO NO		34 29	J, BRANCH 10
A 575	4		P4-626 P6-36					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 104 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 576	4		P4-526 P6-35					.18 .13	NO NO		34 29	J, BRANCH 10
A 577	4		P4-519 P6-34					.18 .13	NO NO		34 29	J, BRANCH 10
A 578	2		E43 P2-D9					.30 .18	NO NO		 33	SMALL END.
A 579	4		P4-627 P6-57					.18 .13	NO NO		34 29	J, BRANCH 10
A 580	4		P4-527 P6-33					.18 .13	NO NO		34 29	J, BRANCH 10
A 581	2		E17 SHLD A					.19 .25	YES YES			A
A 582	2		SHLD A E35					.25 .19	YES NO			A
A 583	2		E17 SHLD B					.19 .25	YES YES			B
A 584	2		SHLD B E35					.25 .19	YES NO			B
A 585	2		E35 SHLD C					.19 .25	NO YES			C
A 586	2		SHLD C E38					.25 .19	YES YES			C
A 587	2		E20 SHLD D					.19 .25	YES YES			D

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 105 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 588	2		SHLD D E37					.25 .19	YES NO			D
A 589	2		E2C SHLD E					.19 .25	YES YES			E
A 590	2		SHLD E E34					.25 .19	YES NO			E
A 591	2		E37 SHLD F					.19 .25	NO YES			F
A 592	2		SHLD F E39					.25 .19	YES YES			F
A 593	2		E36 SHLD G					.19 .25	NO YES			G
A 594	2		SHLD G E39					.25 .19	YES YES			G
A 595	2		E35 SHLD H					.19 .25	NO YES			H
A 596	2		SHLD H E38					.25 .19	YES YES			H
A 597	2		E19 SHLD J					.19 .25	YES YES			J
A 598	2		SHLD J E34					.25 .19	YES NO			J
A 599	2		E22 SHLD M					.19 .25	YES YES			M

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 106 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 600	2		SHLD M E36					.25 .19	YES NO			M
A 601	2		E34 SHLD N					.19 .25	NO YES			N
A 602	2		SHLD N E42					.25 .19	YES YES			N
A 603	2		E16 SHLD O					.19 .25	YES YES			O
A 604	2		SHLD O E37					.25 .19	YES NO			O
A 605	2		E43 SHLD P					.30 .25	NO YES			LARGE END, P
A 606	2		SHLD P E37					.25 .19	YES NO			P
A 607	2		P1-F19 SHLD Q					.18 .25	NO YES		33	Q
A 608	2		SHLD Q E34					.25 .19	YES YES			Q
A 609	16				1.00 1.75	.75 1.50				6B 5A	37 37	
A 609A	5		SHLD A609 E36					.20 .19	NO NO			
A 609B	5		E21 SHLD A609					.19 .20	YES NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR	SHEET 107 OF 109

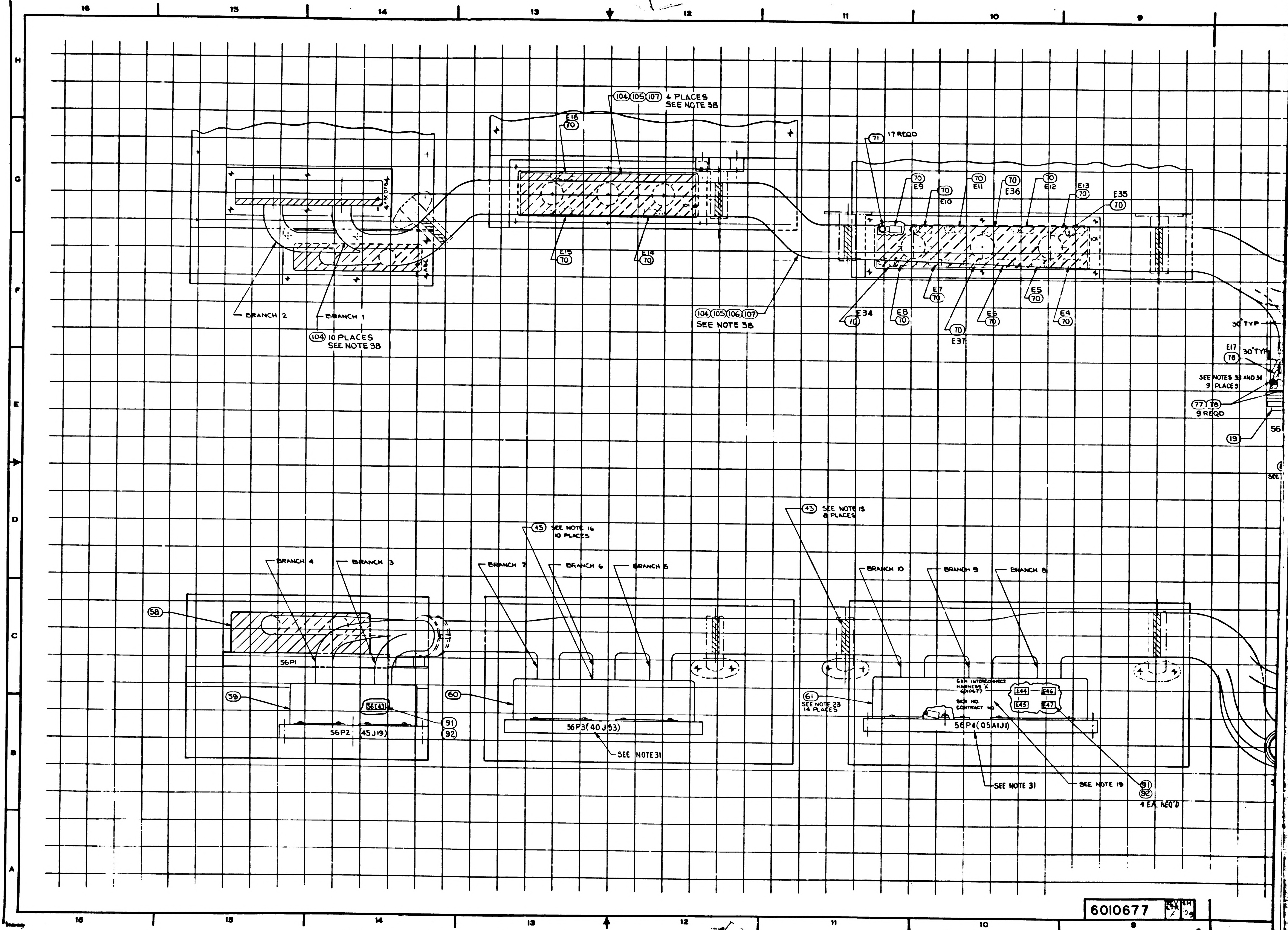
FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 609R			E44 P9-52					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 609Y			E45 P9-53					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 610	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 610A	5		SHLD A610 E36					.20 .19	NO NO			
A 610B	5		E21 SHLD A610					.19 .20	YES NO			
A 610R			E46 P9-48					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 610Y			E47 P9-49					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 611	2		P4-129 E44					.19 .30	NO NO		33	SMALL END
A 612	2		P4-229 E45					.19 .30	NO NO		33	SMALL END
A 613	2		P4-128 E46					.19 .30	NO NO		33	SMALL END
A 614	2		P4-228 E47					.19 .30	NO NO		33	SMALL END

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	A	SHEET 108 OF 10

FORM 2084 REV 367

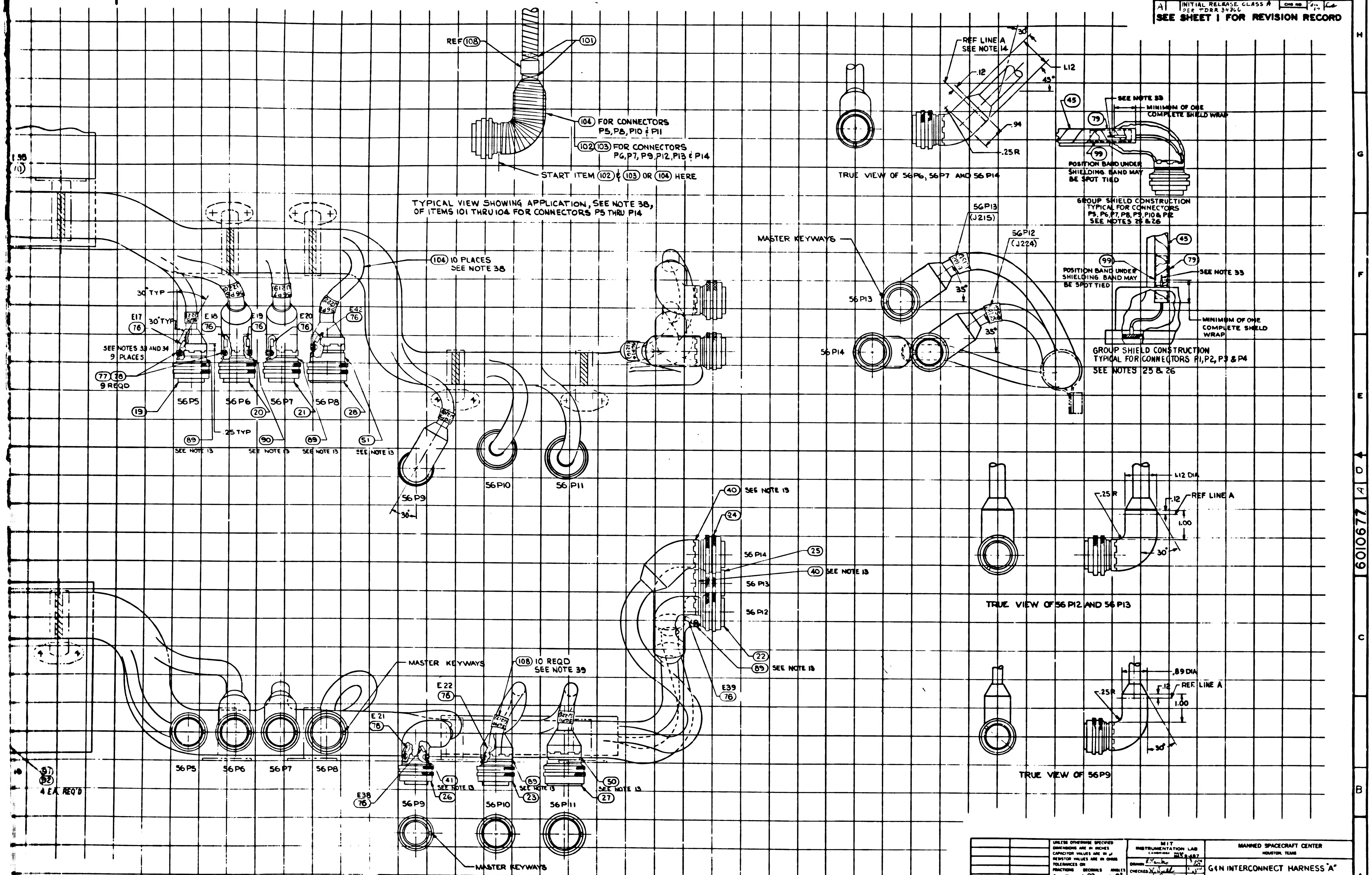

16
15
14
13
12
11
10
9
H
G
F
E
D
C
B
A
104 105 107 4 PLACES
SEE NOTE 38
E16
70
E15
70
E14
70
101
BRANCH 2
BRANCH 1
104 10 PLACES
SEE NOTE 38
104 105 106 107
SEE NOTE 38
71 17 REQD
70
E9
70
E10
70
E11
70
E36
70
E12
E13
70
E35
70
101
E34
10
E8
70
E7
70
E37
70
E6
70
E5
70
E4
70
30° TYP
E17
76
30° TYP
SEE NOTES 33 AND 34
9 PLACES
77 78
9 REQD
19
56
SEE
43 SEE NOTE 15
8 PLACES
45 SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
58
56P1
59
56E43
91
92
56P2 45J19)
60
56P3(40J53)
SEE NOTE 31
61
SEE NOTE 23
14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010677
SER NO.
CONTRACT NO
E44
E46
E45
E47
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
91
92
4 EA. REQ'D

6010677 | REV LTR / | SH 29

1/6010677

SYM	ZONE	DESCRIPTION		DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 34766	CHG NO.	11 Jun 67	

SEE SHEET 1 FOR REVISION RECORD



REF 108
101
104 FOR CONNECTORS P5, P8, P10 & P11
102 103 FOR CONNECTORS P6, P7, P9, P12, P13 & P14
START ITEM 102 & 103 OR 104 HERE
TYPICAL VIEW SHOWING APPLICATION, SEE NOTE 38, OF ITEMS 101 THRU 104 FOR CONNECTORS P5 THRU P14
REF LINE A
SEE NOTE 14
30°
.12
L12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
45
SEE NOTE 33
79
MINIMUM OF ONE COMPLETE SHIELD WRAP
99
POSITION BAND UNDER SHIELDING BAND MAY BE SPOT TIED
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P5, P6, P7, P8, P9, P10 & P12
SEE NOTES 25 & 26
1.50
70
104 10 PLACES SEE NOTE 38
30° TYP
E17
76
30° TYP
E18
E19
E20
E42
SEE NOTES 33 AND 34 9 PLACES
77 78
9 REQD
19
56P5
56P6
56P7
56P8
20
21
28
25 TYP
89
90
51
SEE NOTE 13
56P9
56P10
56P11
30°
MASTER KEYWAYS
56P13 (J215)
56P12 (J224)
35°
56P14
POSITION BAND UNDER SHIELDING BAND MAY BE SPOT TIED
MINIMUM OF ONE COMPLETE SHIELD WRAP
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25 & 26
L12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
40 SEE NOTE 13
24
56P14
25
56P13
56P12
22
89 SEE NOTE 13
E39
76
.89 DIA
TRUE VIEW OF 56P9
108 10 REQD SEE NOTE 39
E22
E21
E38
41
26
23
50
27
57
52
4 EA REQ'D

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN μf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.03 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL —

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAWN K. Tanko 3 Jun 67
CHECKED
APPROVED J. Barta Jun 67
APPROVED
APPROVED
APPROVED MSC

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A"
(LEM)

CODE IDENT NO 80230
SIZE J
DRAWING NO 6010677
SCALE 1/1
SHEET 09

0677 | REV A | SH 09

6010677 A

2/6010677

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515 Ⓜ

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 34466	18 AUG 67	26 JUN 67
B	REVISED PER TDRR 34577	21 SEP 67	

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS OF SHEETS	REV		B	A	A	A	A	A	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
6010674
D066346

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN L. Tanko 13 JUN 67 (DAY MO YR)
CHECKER W. Fuell 21 JUN 67
ENGINEER D. Busta 21 JUN 67
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT
HARNESS "A" (LEM)

SIZE A
CODE IDENT. NO 80230
6010677
SCALE NONE
SHEET 1 OF 109

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A	84	A												
51	A	85	A												
52	A	86	A												
53	A	87	A												
54	A	88	A												
55	A	89	A												
56	A	90	A												
57	A	91	A												
58	A	92	A												
59	A	93	A												
60	A	94	A												
61	A	95	A												
62	A	96	A												
63	A	97	A												
64	A	98	A												
65	A	99	A												
66	A	100	A												
67	A	101	A												
68	A	102	A												
69	A	103	A												
70	A	104	A												
71	A	105	A												
72	A	106	A												
73	A	107	A												
74	A	108	A												
75	A	109	A												
76	A														
77	A														
78	A														
79	A														
80	A														
81	A														
82	A														
83	A														

SIZE A
CODE IDENT. NO. 80230
6010677
SCALE NONE
REV LTR A
SHEET 2

FORM 1377A3 8-65

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6010671

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 3 OF 109

NOTE NUMBER — GENERAL NOTES DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
CONNECTOR 56P8, USE ITEM NUMBER 36
CONNECTOR 56P11, USE ITEM NUMBER 62
CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019. SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 4 OF 109

NOTE NUMBER — GENERAL NOTES DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 5 OF 109

NOTE NUMBER — GENERAL NOTES DESCRIPTION

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

35 FABRICATE HARNESS PER ND 1002032.

36 LACE HARNESS USING ITEM 101.

37 ASSEMBLE CONTACTS ITEMS 33 AND 34 INTO INSULATORS PER ND1002136.

38 COMPLETELY COVER THE HARNESS WIRING, EXPOSED PR1538 POTTING, THE TOP OF CONNECTORS P2,P3 AND P4 AND THE SIDE OF P1 WITH A MINIMUM OF TWO WRAPS OF ALUMINUM FOIL TAPE. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 6 OF 109

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
39	MARK BAND WITH CONNECTOR REFERENCE DESIGNATION BY IMPRESSION STAMPING, .12 HIGH, CENTRALIZE AND FILL IMPRESSION WITH BLACK INK PER ND 1002019.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

NOTE NUMBER	DESCRIPTION
40	APPLY A SMALL AMOUNT OF EPOXY ADHESIVE, USING ITEMS 109 AND 110 PER ND 1002203, TO THE KNOTS OF ALL STARTING, FINISHING, AND SPOT TIES.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR E	SHEET 7 OF 109

FORM 2084 REV. 3-67

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010677-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010677-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010677-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010677-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010677-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010677-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010677-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010677-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010677-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010677-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010677-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010677-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010677-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 8 OF 109

FORM 2084 REV. 3-67

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010677-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010677-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	18	1	6010677-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR - #A	SHEET 9 OF 109

FORM 2084 REV. 3-67

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010555- 2	CONTACT, MALE
11	35	190	1010558- 1	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
11	36	6	1010558- 5	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
9	37	232	1010402- 2	SLEEVE, SOLDER
9	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	43	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1/4 INCH WIDE
	45	AR	MIL-T-23554	TAPE, TEFLON, TYPE II, 1 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
9	53	AR	1010661	EPOXY RESIN
9	54	AR	1010679	ADHESIVE, ACTIVATOR
9	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 10 OF 109

FORM 2084 REV. 3-67

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
	70	17	MS25036-52	TERMINAL LUG
9	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
9	78	9	1006783- 93	SCREW, BUTTON HD .
9	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
9	91	5	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
9	92	5	1010945- 1	SPLICE-REDUCER.
9	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX,
9	97	AR	1008822	COLORANT, EPOXY BASE

SIZE A CODE IDENT NO 80230 6010677

SCALE NONE REV LTR A SHEET 11 OF 109

SEE NOTE LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE
9	101	AR	1008536-001	TAPE,LACING AND TYING
9	102	AR	1008537-001	TAPE, ALUMINUM FOIL
9	103	AR	1008537-002	TAPE, ALUMINUM FOIL
9	104	AR	1008537-003	TAPE, ALUMINUM FOIL
9	105	AR	1008537-005	TAPE, ALUMINUM FOIL
9	106	AR	1008537-006	TAPE, ALUMINUM FOIL
9	107	AR	1008537-007	TAPE, ALUMINUM FOIL
9	108	10	1008540-001	BAND, MARKER
9	109	AR	1010748	RESIN, EPOXY
9	110	AR	1010750	CURING AGENT, POLYAMIDE

SIZE A CODE IDENT NO 80230 6010677

SCALE-NONE REV LTR B SHEET 12 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	1 16				1.00 1.75	.75 1.50				58 58	37 37	
A	1A 5		SHLD A1 P3-340					.20 .19	NO NO		33	BRANCH 6
A	1B 5		P14-6 SHLD A1					.13 .20	NO NO		30	
A	1R		P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A	1Y		P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A	2 16				1.00 1.75	.75 1.50				58 58	37 37	
A	2A 5		SHLD A2 P3-640					.20 .19	NO NO		33	BRANCH 6
A	2B 5		P14-15 SHLD A2					.13 .20	NO NO		30	
A	2R		P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A	2Y		P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A	3 16				1.00 1.75	.75 1.50				58 58	37 37	
A	3A 6		SHLD A3 P3-341					.20 .19	NO NO		33	BRANCH 6

SIZE A CODE IDENT NO. 80230 6010677

SCALE-NONE REV LTR A SHEET 13 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	3B 5		P14-21 SHLD A3					.13 .20	NO NO		30	
A	3R		P3-141 P14-6					.19 .13	NO NO		30	BRANCH 6
A	3Y		P3-241 P14-20					.19 .13	NO NO		30	BRANCH 6
A	4 16				1.00 1.75	.75 1.50				58 58	37 37	
A	4A 6		SHLD A4 P3-641					.20 .19	NO NO		33	BRANCH 7
A	4B 5		P14-19 SHLD A4					.13 .20	NO NO		30	
A	4R		P3-441 P14-7					.19 .13	NO NO		30	BRANCH 7
A	4Y		P3-541 P14-18					.19 .13	NO NO		30	BRANCH 7
A	5 16				1.00 1.75	.75 1.50				58 58	37 37	
A	5A 5		SHLD A5 P3-342					.20 .19	NO NO		33	BRANCH 6
A	5B 5		P14-11 SHLD A5					.13 .20	NO NO		30	
A	5R		P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE A CODE IDENT NO 80230 6010677

SCALE-NONE REV LTR A SHEET 14 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A 6	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A 6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A 6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A 6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A 7	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A 7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A 7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A 7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A 8	16				1.00 1.75	.75 1.50				6B 5B	37 37	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 15 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A 8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A 8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A 8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A 9	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A 9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A 9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A 9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A 10	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A 10B	5		P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 16 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A 10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A 11	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A 11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A 11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A 11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A 12	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A 12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A 12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A 12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 17 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A 13R			P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A 13Y			P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A 14	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A 14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A 14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A 14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A 15	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 18 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		33	BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		33	BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-64					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 19 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		33	BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		33	BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		30	BRANCH 7
A 20	8											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 20 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		33	BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		33	BRANCH 4

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 21 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		33	BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		33	BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 22 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	25Y		P2-C34 P3-530					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	26	16			1.00 1.00	.75 .75				5B 6B	37 37	
A	26A	5	SHLD A26 P2-F33					.20 .19	NO NO		 33	 BRANCH 4
A	26B	5	P3-331 SHLD A26					.19 .20	NO NO		33	BRANCH 6
A	26R		P2-F35 P3-131					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	26Y		P2-F34 P3-231					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	27	16			1.00 1.00	.75 .75				6B 5B	37 37	
A	27A	5	SHLD A27 P2-H33					.20 .19	NO NO		 33	 BRANCH 4
A	27B	5	P3-631 SHLD A27					.19 .20	NO NO		33	BRANCH 6
A	27R		P2-H35 P3-431					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	27Y		P2-H34 P3-531					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	28	16			1.00 1.75	.75 1.50				5B 6B	37 37	

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 23 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	28A	5	SHLD A28 E15					.20 .19	NO NO			
A	28B	5	P7-54 SHLD A28					.13 .20	NO NO		29	
A	28R		P3-132 P7-78					.19 .13	NO NO		 29	BRANCH 6
A	28Y		P3-232 P7-53					.19 .13	NO NO		 29	BRANCH 6
A	29	16			1.00 1.75	.75 1.50				5B 6B	37 37	
A	29A	5	SHLD A29 E16					.20 .19	NO NO			
A	29B	5	P7-80 SHLD A29					.13 .20	NO NO		29	
A	29R		P3-432 P7-79					.19 .13	NO NO		 29	BRANCH 6
A	29Y		P3-532 P7-55					.19 .13	NO NO		 29	BRANCH 6
A	30	16			1.00 1.75	.75 1.50				6B 6B	37 37	
A	30A	5	SHLD A30 E15					.20 .19	NO NO			
A	30B	5	P7-33 SHLD A30					.13 .20	NO NO		29	

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 24 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	30R		P3-133 P7-16					.19 .13	NO NO		 29	BRANCH 6
A	30Y		P3-233 P7-32					.19 .13	NO NO		 29	BRANCH 6
A	31	16			1.00 1.75	.75 1.50				5B 5B	37 37	
A	31A	5	SHLD A31 E16					.20 .19	NO NO			
A	31B	5	P7-57 SHLD A31					.13 .20	NO NO		29	
A	31R		P3-433 P7-61					.19 .13	NO NO		34 29	BRANCH 6
A	31Y		P3-533 P7-56					.19 .13	NO NO		34 29	BRANCH 6
A	32	16			1.00 1.75	.75 1.50				5B 5B	37 37	
A	32A	5	SHLD A32 E15					.20 .19	NO NO			
A	32B	5	P7-35 SHLD A32					.13 .20	NO NO		29	
A	32R		P3-134 P7-34					.19 .13	NO NO		34 29	BRANCH 6
A	32Y		P3-234 P7-17					.19 .13	NO NO		34 29	BRANCH 6

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 25 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A	33	2	P2-H8 P3-136					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	34	2	P2-K8 P3-336					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	35	4	P3-113 P4-514					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	36	4	P3-612 P4-314					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	37	4	P3-512 P4-414					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	38	4	P3-412 P4-614					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	39	4	P3-312 P4-313					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	40	4	P3-112 P4-412					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	41	16			1.00 1.00	.75 .75				5B 5B	37 37	
A	41A	5	SHLD A41 P3-111					.20 .19	NO NO		 33	 BRANCH 5
A	41B	5	E4 SHLD A41					.19 .20	NO NO			
A	41R		P3-311 P4-515					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 26 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211 P4-615					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8
A 42	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 42A	5		SHLD A42 P3-410					.20 .19	NO NO		33	BRANCH 5
A 42B	5		E7 SHLD A42					.19 .20	NO NO			
A 42R			P3-610 P4-332					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 42Y			P3-510 P4-432					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 43A	5		SHLD A43 P3-110					.20 .19	NO NO		33	BRANCH 5
A 43B	5		E7 SHLD A43					.19 .20	NO NO			
A 43R			P3-310 P4-330					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43Y			P3-210 P4-430					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44	16				1.00 1.00	.75 .75				5B 5B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 27 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44 P3-409					.20 .19	NO NO		33	BRANCH 5
A 44B	5		E6 SHLD A44					.19 .20	NO NO			
A 44R			P3-609 P4-329					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44Y			P3-509 P4-429					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 45A	5		SHLD A45 P3-109					.20 .19	NO NO		33	BRANCH 5
A 45B	5		E6 SHLD A45					.19 .20	NO NO			
A 45R			P3-309 P4-328					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45Y			P3-209 P4-428					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 46A	5		SHLD A46 P3-408					.20 .19	NO NO		33	BRANCH 5
A 46B	5		E7 SHLD A46					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 28 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608 P4-334					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46Y			P3-508 P4-434					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 47A	5		SHLD A47 P3-108					.20 .19	NO NO		33	BRANCH 5
A 47B	5		E7 SHLD A47					.19 .20	NO NO			
A 47R			P3-308 P4-333					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47Y			P3-208 P4-433					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 48A	5		SHLD A48 P3-407					.20 .19	NO NO		33	BRANCH 5
A 48B	5		E8 SHLD A48					.19 .20	NO NO			
A 48R			P3-607 P4-338					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48Y			P3-507 P4-438					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 29 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 49A	5		SHLD A49 P3-107					.20 .19	NO NO		33	BRANCH 5
A 49B	5		E8 SHLD A49					.19 .20	NO NO			
A 49R			P3-307 P4-337					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 49Y			P3-207 P4-437					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 50A	5		SHLD A50 P3-406					.20 .19	NO NO		33	BRANCH 5
A 50B	5		E7 SHLD A50					.19 .20	NO NO			
A 50R			P3-606 P4-336					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50Y			P3-506 P4-436					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 51A	5		SHLD A51 P3-106					.20 .19	NO NO		33	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 30 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7 SHLD A51					.19 .20	NO NO			
A 51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A 54	16				1.00 1.00	.75 .75				58 58	37 37	
A 54A	5		SHLD A54 P3-405					.20 .19	NO NO		33	BRANCH 5
A 54B	5		E10 SHLD A54					.19 .20	NO NO			
A 54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55	16				1.00 1.00	.75 .75				68 68	37 37	
A 55A	5		SHLD A55 P3-105					.20 .19	NO NO		33	BRANCH 5

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10 SHLD A55					.19 .20	NO NO			
A 55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56	16				1.00 1.00	.75 .75				58 58	37 37	
A 56A	5		SHLD A56 P3-404					.20 .19	NO NO		33	BRANCH 5
A 56B	5		E10 SHLD A56					.19 .20	NO NO			
A 56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 57	16				1.00 1.00	.75 .75				68 68	37 37	
A 57A	5		SHLD A57 P3-104					.20 .19	NO NO		33	BRANCH 5
A 57B	5		E8 SHLD A57					.19 .20	NO NO			
A 57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58	16				1.00 1.00	.75 .75				68 68	37 37	
A 58A	5		SHLD A58 P3-403					.20 .19	NO NO		33	BRANCH 5
A 58B	5		E9 SHLD A58					.19 .20	NO NO			
A 58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59	16				1.00 1.00	.75 .75				58 68	37 37	
A 59A	5		SHLD A59 P3-103					.20 .19	NO NO		33	BRANCH 5
A 59B	5		E10 SHLD A59					.19 .20	NO NO			
A 59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60	16				1.00 1.00	.75 .75				68 58	37 37	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60 P3-402					.20 .19	NO NO		33	BRANCH 5
A 60B	5		E9 SHLD A60					.19 .20	NO NO			
A 60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61	16				1.00 1.00	.75 .75				68 68	37 37	
A 61A	5		SHLD A61 P3-102					.20 .19	NO NO		33	BRANCH 5
A 61B	5		E9 SHLD A61					.19 .20	NO NO			
A 61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62	16				1.00 1.00	.75 .75				68 58	37 37	
A 62A	5		SHLD A62 P3-401					.20 .19	NO NO		33	BRANCH 5
A 62B	5		E9 SHLD A62					.19 .20	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63	16				1.00 1.00	.75 .75				58 68	37 37	
A 63A	5		SHLD A63 P3-101					.20 .19	NO NO		 33	 BRANCH 5
A 63B	5		E9 SHLD A63					.19 .20	NO NO			
A 63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 64	16				1.00 1.75	.75 1.50				68 58	37 37	
A 64A	6		SHLD A64 P3-649					.20 .19	NO NO		 33	 BRANCH 7
A 64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A 64R			P3-449 P12-64					.19 .13	NO NO		 30	BRANCH 7
A 64Y			P3-549 P12-65					.19 .13	NO NO		 30	BRANCH 7

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00 1.75	.75 1.50				58 58	37 37	
A 65A	5		SHLD A65 E14					.20 .19	NO NO			
A 65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A 65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A 65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A 66	16				1.00 1.75	.75 1.50				58 68	37 37	
A 66A	5		SHLD A66 E14					.20 .19	NO NO			
A 66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A 66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A 66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A 67	16				1.00 1.75	.75 1.50				68 68	37 37	
A 67A	5		SHLD A67 E14					.20 .19	NO NO			

SIZE A
CODE IDENT NO 80230
6010677
SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A 67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A 67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A 68	16				1.00 1.75	.75 1.50				58 68	37 37	
A 68A	5		SHLD A68 E14					.20 .19	NO NO			
A 68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A 68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A 68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A 69	16				1.00 1.75	.75 1.50				58 58	37 37	
A 69A	5		SHLD A69 E14					.20 .19	NO NO			
A 69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A 69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A 70	16				1.00 1.75	.75 1.50				58 58	37 37	
A 70A	5		SHLD A70 E14					.20 .19	NO NO			
A 70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A 70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A 70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A 71	16				1.00 1.75	.75 1.50				58 68	37 37	
A 71A	5		SHLD A71 E14					.20 .19	NO NO			
A 71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A 71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A 71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A 72	15				1.00 1.75	.75 1.50				58 58	37 37	

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR A
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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 72A	5		SHLD A72 E12					.20 .19	NO NO			
A 72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A 72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A 72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A 73	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 73A	5		SHLD A73 E11					.20 .19	NO NO			
A 73B	5		P13-5 SHLD A73					.13 .20	NO NO		30	
A 73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A 73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A 74	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 74A	5		SHLD A74 E11					.20 .19	NO NO			
A 74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A 74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A 75	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 75A	5		SHLD A75 E11					.20 .19	NO NO			
A 75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A 75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A 75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A 76	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 76A	5		SHLD A76 E11					.20 .19	NO NO			
A 76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A 76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A 76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 77	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 77A	5		SHLD A77 E11					.20 .19	NO NO			
A 77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A 77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A 77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A 78	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 78A	5		SHLD A78 E11					.20 .19	NO NO			
A 78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A 78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A 78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A 79	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 79A	5		SHLD A79 E13					.20 .19	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A 79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A 79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A 80	9											
A 80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A 80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A 81	9											
A 81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A 81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A 82	9											
A 82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A 82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				6B 5B	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	43 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	44 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	45 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				6B 6B	37 37	

SIZE	CODE IDENT NO			
A	80230	6010677		
SCALE-NONE	REV LTR	NA	SHEET	46 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A54 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A54					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				58 58	37 37	
A 95A	5		SHLD A55 E13					.20 .19	NO NO			
A 95B	5		P13-54 SHLD A55					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				58 58	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO			
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 47 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				58 58	37 37	
A 97A	5		SHLD A57 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A57					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P, BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 48 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 49 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		 31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		 31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 50 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 108Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 109R			P2-A14 P11-S					.19 .19	NO NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR NA	SHEET 51 OF 109	

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR NA	SHEET 52 OF 109	

FORM 2084 REV 3-67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 128	8											

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR NA	SHEET 53 OF 109	

FORM 2084 REV 3-67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		 33	 BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		 33	 BRANCH 3
A 134	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		 33	 BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135	16				1.00 1.00	.75 .75				5B 6B	37 37	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR NA	SHEET 54 OF 109	

FORM 2084 REV 3-67

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135 P2-G24					.20 .19	NO NO		 33	 BRANCH 4
A 135B	5		E12 SHLD A135					.19 .20	NO NO			
A 135R			P2-H24 P4-323					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135Y			P2-K24 P4-423					.19 .19	NO NO		34 34	
A 136	16				1.00 1.00	.75 .75				58 58	37 37	
A 136A	5		SHLD A136 P2-G25					.20 .19	NO NO		 33	 BRANCH 4
A 136B	5		E12 SHLD A136					.19 .20	NO NO			
A 136R			P2-H25 P4-322					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 136Y			P2-K25 P4-422					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 137	16				1.00 1.00	.75 .75				58 58	37 37	
A 137A	5		SHLD A137 P2-G21					.20 .19	NO NO		 33	 BRANCH 4
A 137B	5		E4 SHLD A137					.19 .20	NO NO			

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 55 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21 P4-316					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 137Y			P2-K21 P4-416					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 139	16				1.00 1.00	.75 .75				58 58	37 37	
A 139A	5		SHLD A139 P2-G22					.20 .19	NO NO		 33	 BRANCH 4
A 139B	5		E4 SHLD A139					.19 .20	NO NO			
A 139R			P2-H22 P4-315					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 139Y			P2-K22 P4-415					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 141	4		P1-C17 P8-L					.19 .19	NO NO		34	BRANCH 1
A 143	11											
A 143G			P1-F15 P2-D15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143R			P1-D16 P2-G15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143Y			P1-F16 P2-F15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 56 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36 P2-G28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144N			P1-A37 P2-G31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144R			P1-B37 P2-G30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144Y			P1-A36 P2-G29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 148	16				1.00 1.00	.75 .75				58 58	37 37	
A 148A	5		SHLD A148 P1-A30					.20 .19	NO NO		 33	 BRANCH 2
A 148B	6		P3-341 SHLD A148					.19 .20	NO NO			BRANCH 6
A 148R			P1-A29 P3-141					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 148Y			P1-A28 P3-241					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149	16				1.00 1.00	.75 .75				58 58	37 37	
A 149A	5		SHLD A149 P1-B30					.20 .19	NO NO		 33	 BRANCH 2

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 57 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE UNE. FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641 SHLD A149					.19 .20	NO NO			BRANCH 6
A 149R			P1-B29 P3-441					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149Y			P1-B28 P3-541					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 150	16				1.00 1.00	.75 .75				58 58	37 37	
A 150A	5		SHLD A150 P1-C30					.20 .19	NO NO		 33	 BRANCH 2
A 150B	6		P3-343 SHLD A150					.19 .20	NO NO			BRANCH 7
A 150R			P1-C29 P3-143					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 150Y			P1-C28 P3-243					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 151	16				1.00 1.00	.75 .75				58 58	37 37	
A 151A	5		SHLD A151 P1-D30					.20 .19	NO NO		 33	 BRANCH 2
A 151B	6		P3-643 SHLD A151					.19 .20	NO NO			BRANCH 7
A 151R			P1-D29 P3-443					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 58 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28 P3-543					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152	16				1.00 1.00	.75 .75				58 58	37 37	
A 152A	5		SHLD A152 P1-F30					.20 .19	NO NO		33	BRANCH 2
A 152B	6		P3-345 SHLD A152					.19 .20	NO NO			BRANCH 7
A 152R			P1-F29 P3-145					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152Y			P1-F28 P3-245					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153	16				1.00 1.00	.75 .75				58 58	37 37	
A 153A	5		SHLD A153 P1-G30					.20 .19	NO NO		33	BRANCH 2
A 153B	6		P3-645 SHLD A153					.19 .20	NO NO			BRANCH 7
A 153R			P1-G29 P3-445					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153Y			P1-G28 P3-545					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154	16				1.00 1.00	.75 .75				58 68	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE NONE	REV LTR NA	SHEET 59 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154 P1-A27					.20 .19	NO NO		33	BRANCH 2
A 154B	6		P3-347 SHLD A154					.19 .20	NO NO			BRANCH 7
A 154R			P1-A26 P3-147					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154Y			P1-A25 P3-247					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155	16				1.00 1.00	.75 .75				58 58	37 37	
A 155A	5		SHLD A155 P1-B27					.20 .19	NO NO		33	BRANCH 2
A 155B	6		P3-647 SHLD A155					.19 .20	NO NO			BRANCH 7
A 155R			P1-B26 P3-447					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155Y			P1-B25 P3-547					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156	16				1.00 1.00	.75 .75				58 68	37 37	
A 156A	5		SHLD A156 P1-C27					.20 .19	NO NO		33	BRANCH 2
A 156B	6		P3-349 SHLD A156					.19 .20	NO NO			BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 60 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26 P3-149					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156Y			P1-C25 P3-249					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157	16				1.00 1.00	.75 .75				58 58	37 37	
A 157A	5		SHLD A157 P1-D27					.20 .19	NO NO		33	BRANCH 2
A 157B	6		P3-649 SHLD A157					.19 .20	NO NO			BRANCH 7
A 157R			P1-D26 P3-449					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157Y			P1-D25 P3-549					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 158	3		P1-A33 P3-119					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 6
A 159	4		P1-A34 P3-422					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 160	16				1.00 1.00	.75 .75				58 68	37 37	
A 160A	5		SHLD A160 P1-C37					.20 .19	NO NO		33	BRANCH 2
A 160B	5		E15 SHLD A160					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 61 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37 P3-132					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 160Y			P1-F37 P3-232					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161	16				1.00 1.00	.75 .75				58 58	37 37	
A 161A	5		SHLD A161 P1-C38					.20 .19	NO NO		33	BRANCH 2
A 161B	5		E16 SHLD A161					.19 .20	NO NO			
A 161R			P1-D38 P3-432					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161Y			P1-F38 P3-532					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162	16				1.00 1.00	.75 .75				68 58	37 37	
A 162A	5		SHLD A162 P1-C39					.20 .19	NO NO		33	BRANCH 2
A 162B	5		E15 SHLD A162					.19 .20	NO NO			
A 162R			P1-D39 P3-133					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162Y			P1-F39 P3-233					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 62 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-102					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-6					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 63 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 64 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 65 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 66 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 67 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 68 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	YES NO			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 10
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 69 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	YES NO			
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 10
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 10
A 250	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO			
A 250B	5		E19 SHLD A250					.19 .20	YES NO			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 10
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 10
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 70 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E, BRANCH 10
A 252	9											E, BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E, BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E, BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G, BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G, BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G, BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G, BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	71 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G, BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G, BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G, BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G, BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G, BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G, BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G, BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	72 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G, BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G, BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G, BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G, BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G, BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G, BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G, BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	73 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G, BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G, BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G, BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M, BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M, BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M, BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M, BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M, BRANCH 9

SIZE	CODE IDENT NO			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	74 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M, BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M, BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M, BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E, BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E, BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E, BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E, BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 75 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E, BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E, BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E, BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A, BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A, BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A, BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A, BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A, BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 76 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A, BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A, BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B, BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B, BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B, BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B, BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B, BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B, BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B, BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B, BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B, BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 77 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B, BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B, BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B, BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B, BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B, BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B, BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B, BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B, BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B, BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B, BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B, BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR	#A	SHEET 78 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B, BRANCH 8
A 320	4		P4-604 P5-45					.19 .13	NO NO		34 29	B, BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B, BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B, BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B, BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B, BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B, BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B, BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B, BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G, BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 79 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G, BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G, BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A, BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A, BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B, BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		 31	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 80 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		 31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 81 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 82 OF 109	

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				58 58	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 83 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				58 58	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO			
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-64					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	D, BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-36					.19 .13	NO NO		33 29	BRANCH 3

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 84 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 85 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H, BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H, BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H, BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H, BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H, BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H, BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H, BRANCH 8

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 86 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H, BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H, BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H, BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H, BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H, BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H, BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H, BRANCH 8
A 414	4		P4-611 P9-56					.19 .13	NO NO		34 29	H, BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H, BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR A | SHEET 87 OF 109

FORM 2084 REV 3/67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N, BRANCH 10

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR A | SHEET 88 OF 109

FORM 2084 REV 3/67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR A | SHEET 89 OF 109

FORM 2084 REV 3/67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				58 58	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		33	BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR A | SHEET 90 OF 109

FORM 2084 REV 3/67

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 443A	5		SHLD A443 P1-F23					.20 .19	NO NO		 33	 BRANCH 1
A 443B	6		P3-348 SHLD A443					.19 .20	NO NO			BRANCH 7
A 443R			P1-F21 P3-148					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 443Y			P1-F22 P3-248					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 444A	5		SHLD A444 P1-C23					.20 .19	NO NO		 33	 BRANCH 1
A 444B	6		P3-648 SHLD A444					.19 .20	NO NO			BRANCH 7
A 444R			P1-C21 P3-448					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444Y			P1-C22 P3-548					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 445A	5		SHLD A445 P1-B23					.20 .19	NO NO		 33	 BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 91 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346 SHLD A445					.19 .20	NO NO			BRANCH 7
A 445R			P1-B21 P3-146					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445Y			P1-B22 P3-246					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 446	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 446A	5		SHLD A446 P1-B17					.20 .19	NO NO		 33	 BRANCH 1
A 446B	5		E4 SHLD A446					.19 .20	NO NO			
A 446R			P1-B16 P4-316					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 446Y			P1-B15 P4-416					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 448	9											
A 448R			P1-A31 P2-A27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 448Y			P1-B31 P2-B27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449	9											

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 92 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31 P2-A29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449Y			P1-D31 P2-B29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450	9											
A 450R			P1-F31 P2-A31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450Y			P1-G31 P2-B31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 451	2		P6-85 E18					.13 .19	NO YES		29	
A 452	4		P1-G11 P6-74					.19 .13	NO NO		34 29	BRANCH 1
A 453	4		P1-F11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 454	4		P1-G9 P10-24					.19 .13	NO NO		34 30	BRANCH 1
A 455	4		P1-C13 P10-26					.19 .13	NO NO		34 30	BRANCH 1
A 456	4		P1-C7 P10-33					.19 .13	NO NO		34 30	BRANCH 1
A 457	4		P1-B7 P10-56					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 93 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7 P10-81					.19 .13	NO NO		34 30	BRANCH 1
A 460	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 460A	5		SHLD A460 E6					.20 .19	NO NO			
A 460B	5		E19 SHLD A460					.19 .20	YES NO			
A 460R			E44 P6-62					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 460Y			E45 P6-38					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 461	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 461A	5		SHLD A461 E6					.20 .19	NO NO			
A 461B	5		E19 SHLD A461					.19 .20	YES NO			
A 461R			E46 P6-64					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 461Y			E47 P6-39					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 462	16				1.00 1.00	.75 .75				7 5B	38 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 94 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-D35 E44					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 462Y			P1-F35 E45					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463	16				1.00 1.00	.75 .75				7 6B	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO			
A 463R			P1-D36 E46					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463Y			P1-F36 E47					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 464	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO			
A 464B	5		E21 SHLD A464					.19 .20	YES NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 95 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	YES NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 96 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N, BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29 93	B
A 476	2		P5-74					.13	NO		29 93	B
A 477	15				1.00 1.75	.75 1.50				5B 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			LARGE END
A 477B	5		E20 SHLD A477					.19 .20	YES NO			

SIZE	CODE IDENT NO.	
A	60230	6010677
SCALE-NONE	REV LTR A	SHEET 97 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				5B 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	YES NO			
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J, BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J, BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J, BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 98 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J, BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J, BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J, BRANCH 10
A 486	4		P4-644 P6-5					.18 .13	NO NO		34 29	J, BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J, BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J, BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J, BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J, BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C, BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C, BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C, BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR #A
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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J, BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J, BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J, BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F, BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F, BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F, BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F, BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F, BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F, BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F, BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F, BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F, BRANCH 9

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR #A
SHEET 100 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F, BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F, BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J, BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J, BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J, BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J, BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J, BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J, BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J, BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J, BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J, BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR #A
SHEET 101 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J, BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J, BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J, BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J, BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J, BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D, BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D, BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D, BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J, BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J, BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J, BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR #A
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FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555 P6-49					.18 .13	NO NO		34 29	J, BRANCH 10
A 532	4		P4-556 P6-28					.18 .13	NO NO		34 29	J, BRANCH 10
A 533	4		P4-602 P6-22					.18 .13	NO NO		34 29	J, BRANCH 10
A 534	4		P4-101 P6-41					.18 .13	NO NO		34 29	J, BRANCH 10
A 535	4		P4-113 P9-32					.18 .13	NO NO		34 29	C, BRANCH 8
A 536	4		P4-112 P9-16					.18 .13	NO NO		34 30	C, BRANCH 8
A 537	14				1.00 1.75	.75 1.50				58 58	37 37	
A 537A	5		SHLD A537 E43					.20 .30	NO NO			LARGE END.
A 537B	5		P14-69 SHLD A537					.19 .20	NO NO		30	
A 537Y			P2-G18 P14-25					.18 .13	NO NO		33 30	BRANCH 4
A 539	4		P4-538 P4-637					.18 .18	NO NO		34 34	
A 540	4		P4-613 P7-66					.18 .13	NO NO		34 29	D, BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 103 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513 P7-67					.18 .13	NO NO		34 29	D, BRANCH 9
A 565	2		P8-D P8-F					.22 .22	NO NO			
A 566	2		P8-D P8-F					.22 .22	NO NO		32	
A 567	2		P8-E P8-F					.22 .22	NO NO			
A 568	2		P8-E P8-F					.22 .22	NO NO		32 32	
A 569	2		P8-H P8-M					.22 .22	NO NO			
A 570	2		P8-H P8-M					.22 .22	NO NO		32	
A 571	2		P8-J P8-M					.22 .22	NO NO			
A 572	2		P8-J P8-M					.22 .22	NO NO		32 32	
A 573	4		P4-628 P6-83					.18 .13	NO NO		34 29	J, BRANCH 10
A 574	4		P4-528 P6-59					.18 .13	NO NO		34 29	J, BRANCH 10
A 575	4		P4-626 P6-36					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 104 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 576	4		P4-526 P6-35					.18 .13	NO NO		34 29	J, BRANCH 10
A 577	4		P4-519 P6-34					.19 .13	NO NO		34 29	J, BRANCH 10
A 578	2		E43 P2-D9					.30 .18	NO NO		33	SMALL END.
A 579	4		P4-627 P6-57					.18 .13	NO NO		34 29	J, BRANCH 10
A 580	4		P4-527 P6-33					.18 .13	NO NO		34 29	J, BRANCH 10
A 581	2		E17 SHLD A					.19 .25	YES YES			A
A 582	2		SHLD A E35					.25 .19	YES NO			A
A 583	2		E17 SHLD B					.19 .25	YES YES			B
A 584	2		SHLD B E35					.25 .19	YES NO			B
A 585	2		E35 SHLD C					.19 .25	NO YES			C
A 586	2		SHLD C E38					.25 .19	YES YES			C
A 587	2		E20 SHLD D					.19 .25	YES YES			D

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 105 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 588	2		SHLD D E37					.25 .19	YES NO			D
A 589	2		E20 SHLD E					.19 .25	YES YES			E
A 590	2		SHLD E E34					.25 .19	YES NO			E
A 591	2		E37 SHLD F					.19 .25	NO YES			F
A 592	2		SHLD F E39					.25 .19	YES YES			F
A 593	2		E36 SHLD G					.19 .25	NO YES			G
A 594	2		SHLD G E39					.25 .19	YES YES			G
A 595	2		E35 SHLD H					.19 .25	NO YES			H
A 596	2		SHLD H E38					.25 .19	YES YES			H
A 597	2		E19 SHLD J					.19 .25	YES YES			J
A 598	2		SHLD J E34					.25 .19	YES NO			J
A 599	2		E22 SHLD M					.19 .25	YES YES			M

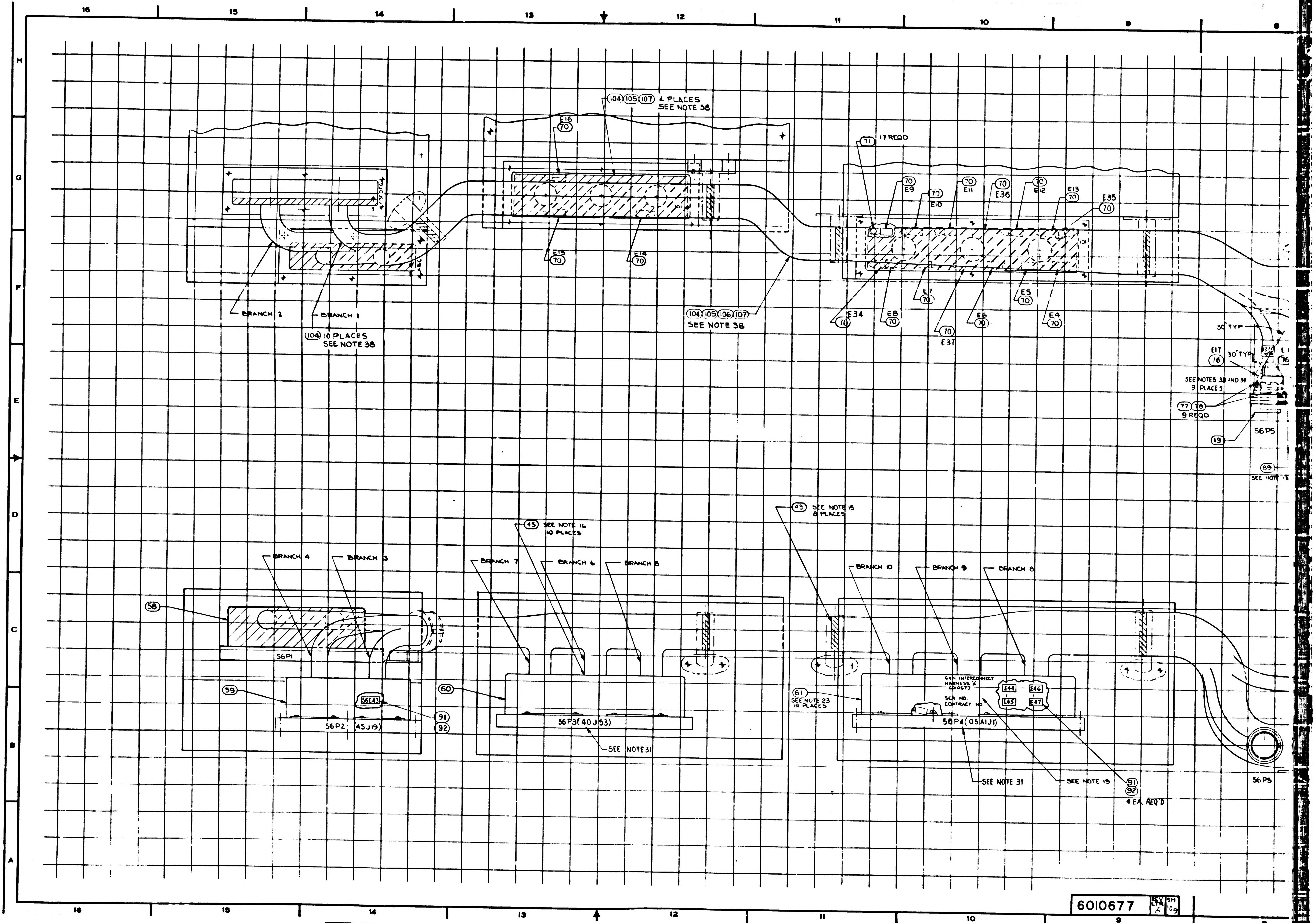
SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 106 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 600	2		SHLD M E36					.25 .19	YES NO			M
A 601	2		E34 SHLD N					.19 .25	NO YES			N
A 602	2		SHLD N E42					.25 .19	YES YES			N
A 603	2		E16 SHLD O					.19 .25	YES YES			O
A 604	2		SHLD O E37					.25 .19	YES NO			O
A 605	2		E43 SHLD P					.30 .25	NO YES			LARGE END, P
A 606	2		SHLD P E37					.25 .19	YES NO			P
A 607	2		P1-F19 SHLD Q					.19 .25	NO YES		33	Q
A 608	2		SHLD Q E34					.25 .19	YES YES			Q
A 609	16				1.00 1.75	.75 1.50				6B 5A	37 37	
A 609A	5		SHLD A609 E36					.20 .19	NO NO			
A 609B	5		E21 SHLD A609					.19 .20	YES NO			

SIZE	CODE IDENT NO	
A	80230	6010677
SCALE-NONE	REV LTR	SHEET 107 OF [illegible]

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 609R			E44 P9-52					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 609Y			E45 P9-53					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 610	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 610A	5		SHLD A610 E36					.20 .19	NO NO			
A 610B	5		E21 SHLD A610					.19 .20	YES NO			
A 610R			E46 P9-48					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 610Y			E47 P9-49					.30 .13	NO NO		30	BRANCH 8,LARGE END
A 611	2		P4-129 E44					.19 .30	NO NO		33	SMALL END
A 612	2		P4-229 E45					.19 .30	NO NO		33	SMALL END
A 613	2		P4-128 E46					.19 .30	NO NO		33	SMALL END
A 614	2		P4-228 E47					.19 .30	NO NO		33	SMALL END

SIZE	CODE IDENT NO	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 108 OF [illegible]

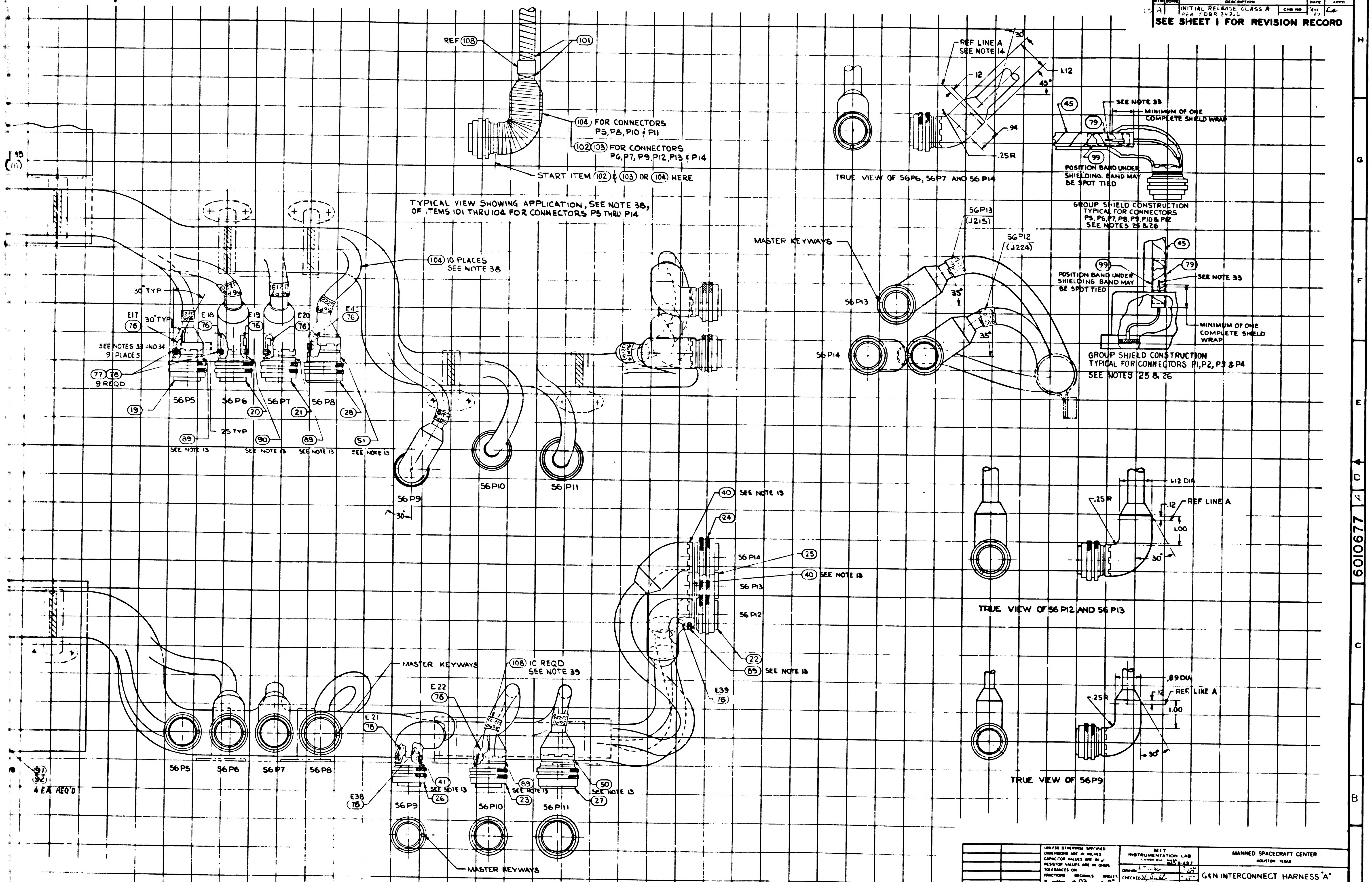


(104)(105)(107) 4 PLACES
SEE NOTE 38
E16
(70)
(71) 17 REQD
(70) E9
(71) E10
(70) E11
(70) E36
(70) E12
E13 (70)
E35 (70)
E15 (70)
E14 (70)
BRANCH 2
BRANCH 1
(104) 10 PLACES
SEE NOTE 38
(104)(105)(106)(107)
SEE NOTE 38
E34 (70)
E8 (70)
E7 (70)
(70) E37
E6 (70)
E5 (70)
E4 (70)
30° TYP
E17 (76)
30° TYP
SEE NOTES 33 AND 34
9 PLACES
(77)(78)
9 REQD
(19)
56P5
(89)
SEE NOTE
(43) SEE NOTE 15
8 PLACES
(45) SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
(58)
56P1
(59)
56E43
(91)
(92)
56P2 (45J19)
(60)
56P3(40J53)
SEE NOTE 31
(61)
SEE NOTE 23
14 PLACES
GSN INTERCONNECT HARNESS 'A' 6010677
SER NO.
CONTRACT NO
E44
E45
E46
E47
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
(91)
(92)
4 EA. REQ'D
56P5
6010677
REV LTR A
SH 109

1/6010677

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 34366		11 AUG 67	

SEE SHEET 1 FOR REVISION RECORD



REF 108
101
104 FOR CONNECTORS P5, P8, P10 & P11
102 103 FOR CONNECTORS P6, P7, P9, P12, P13 & P14
START ITEM 102 & 103 OR 104 HERE
TYPICAL VIEW SHOWING APPLICATION, SEE NOTE 38, OF ITEMS 101 THRU 104 FOR CONNECTORS P5 THRU P14
REF LINE A SEE NOTE 14
30°
.12
1.12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
45
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
79
99
POSITION BAND UNDER SHIELDING BAND MAY BE SPOT TIED
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P5, P6, P7, P8, P9, P10 & P12 SEE NOTES 25 & 26
104 10 PLACES SEE NOTE 38
30° TYP
E17 76
30° TYP
E18 76
E19 76
E20 76
E4 76
SEE NOTES 33 AND 34 9 PLACES
77 78 9 REQD
19
56P5
56P6
56P7
56P8
20
21
28
25 TYP
89 SEE NOTE 13
90 SEE NOTE 13
89 SEE NOTE 13
51 SEE NOTE 13
56P9
30°
56P10
56P11
MASTER KEYWAYS
56P13 (J215)
56P12 (J224)
35°
35°
56P14
45
79
99
SEE NOTE 33
POSITION BAND UNDER SHIELDING BAND MAY BE SPOT TIED
MINIMUM OF ONE COMPLETE SHIELD WRAP
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P1, P2, P3 & P4 SEE NOTES 25 & 26
1.12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
40 SEE NOTE 13
24
56P14
25
40 SEE NOTE 13
56P13
56P12
22
89 SEE NOTE 13
E39 76
.89 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
.99 (91)
91 92 4 EA REQ'D
MASTER KEYWAYS
108 10 REQD SEE NOTE 39
E22 76
E21 76
E38 76
56P5
56P6
56P7
56P8
41 SEE NOTE 13
26
89 SEE NOTE 13
23
50 SEE NOTE 13
27
56P9
56P10
56P11
MASTER KEYWAYS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
± —	± .03	± 2°

DO NOT SCALE THIS DRAWING

MATERIAL —

NEXT ASSY	USED ON
APPLICATION	

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN		3 JUN 67
CHECKED		
APPROVED		
APPROVED		
APPROVED		7/11/67
APPROVED MSC		

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

G&N INTERCONNECT HARNESS "A" (LEM)

CODE IDENT NO	SIZE	DRAWING NO
80230	J	6010677

SCALE 1/1 SHEET 109

6010677 A

0677 REV A SH 109

2/6010677

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515 Ⓜ

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR 34366	14 AUG 67	26 JUN 67
B	REVISED PER TDRR 34577	21 SEP 67	
C	REVISED PER TDRR 34607	30 OCT 67	JWL J.E.G.

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS OF SHEETS	REV		C	C	A	C	A	A	B	A	A	C	A	B	A	A	A	A	A	A	A	A	A	A	A
	SHEET		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
6010674
D066346

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

DRAFTSMAN L. Tanko 13 JUN 67 (DAY MO YR)
CHECKER W. Buell 21 JUN 67
ENGINEER D. Busta 21 JUN 67
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT HARNESS "A" (LEM)

SIZE A | CODE IDENT. NO 80230 | 6010677
SCALE NONE | SHEET 1 OF 109

MIL 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A	84	A														
51	A	85	A														
52	A	86	A														
53	A	87	A														
54	A	88	A														
55	A	89	A														
56	A	90	A														
57	A	91	A														
58	A	92	A														
59	A	93	A														
60	A	94	A														
61	A	95	A														
62	A	96	A														
63	A	97	A														
64	A	98	A														
65	A	99	A														
66	A	100	A														
67	A	101	A														
68	A	102	A														
69	A	103	A														
70	A	104	A														
71	A	105	A														
72	A	106	A														
73	A	107	A														
74	A	108	A														
75	A	109	C														
76	A																
77	A																
78	A																
79	A																
80	A																
81	A																
82	A																
83	A																

SIZE A | CODE IDENT. NO. 80230 | 6010677
SCALE NONE | REV LTR C | SHEET 2

FORM 1377A3 8-65

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6010671

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
A- FROM END OF SHIELD
B- TO END OF SHIELD
G- GREEN
K- BLACK
L- BLUE
N- BROWN
R- RED
W- WHITE
Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM- SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 3 OF 109

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
CONNECTOR 56P8, USE ITEM NUMBER 36
CONNECTOR 56P11, USE ITEM NUMBER 62
CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

~~15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.~~

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR # ~~B~~ C	SHEET 4 OF 109

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 5 OF 109

NOTE NUMBER

GENERAL NOTES

DESCRIPTION

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

35 FABRICATE HARNESS PER ND 1002032.

36 LACE HARNESS USING ITEM 101.

37 ASSEMBLE CONTACTS ITEMS 33 AND 34 INTO INSULATORS PER ND1002136.

38 COMPLETELY COVER THE HARNESS WIRING, EXPOSED PR1538 POTTING, THE TOP OF CONNECTORS P2,P3 AND P4 AND THE SIDE OF P1 WITH A MINIMUM OF TWO WRAPS OF ALUMINUM FOIL TAPE. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 6 OF 109

NOTE NUMBER | **GENERAL NOTES** **DESCRIPTION**

39 MARK BAND WITH CONNECTOR REFERENCE DESIGNATION BY IMPRESSION STAMPING, .12 HIGH, CENTRALIZE AND FILL IMPRESSION WITH BLACK INK PER ND 1002019.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+.12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+.50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

40 APPLY A SMALL AMOUNT OF EPOXY ADHESIVE, USING ITEMS 109 AND 110 PER ND 1002203, TO THE KNOTS OF ALL STARTING, FINISHING, AND SPOT TIES.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR ~~B~~ E	SHEET 7 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010677-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010677-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010677-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010677-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010677-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010677-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010677-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010677-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010677-010	WIRE PER 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010677-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010677-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010677-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010677-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 8 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010677-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010677-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	18	1	6010677-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 9 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
11	36	6	1010958- 5	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
9	37	232	1010402- 2	SLEEVE, SOLDER
9	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	~~43~~	~~AR~~	~~MIL-T-23594~~	~~TAPE, TEFLON, TYPE II, 1/4 INCH WIDE~~
	45	AR	MIL-T-23594	TAPE, TEFLON, TYPE II, 1 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
9	53	AR	1010661	EPOXY RESIN
9	54	AR	1010679	ADHESIVE, ACTIVATOR
9	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (56P2)

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR C	SHEET 10 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
	70	17	MS25036-52	TERMINAL LUG
9	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
9	78	9	1006783- 93	SCREW, BUTTON HD
9	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
9	91	5	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
9	92	5	1010945- 1	SPLICE-REDUCER.
9	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX,
9	97	AR	1008822	COLORANT, EPOXY BASE

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 11 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE
9	101	AR	1008936-001	TAPE,LACING AND TYING
9	102	AR	1008937-001	TAPE, ALUMINUM FOIL
9	103	AR	1008937-002	TAPE, ALUMINUM FOIL
9	104	AR	1008937-003	TAPE, ALUMINUM FOIL
9	105	AR	1008937-005	TAPE, ALUMINUM FOIL
9	106	AR	1008937-006	TAPE, ALUMINUM FOIL
9	107	AR	1008937-007	TAPE, ALUMINUM FOIL
9	108	10	1008940-001	BAND, MARKER
9	109	AR	1010748	RESIN, EPOXY
9	110	AR	1010750	CURING AGENT, POLYAMIDE

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR ~~A~~ B	SHEET 12 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 1	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 1A	5		SHLD A1 P3-340					.20 .19	NO NO		 33	 BRANCH 6
A 1B	5		P14-6 SHLD A1					.13 .20	NO NO		30	
A 1R			P3-140 P14-17					.19 .13	NO NO		34 30	BRANCH 6
A 1Y			P3-240 P14-16					.19 .13	NO NO		34 30	BRANCH 6
A 2	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 2A	5		SHLD A2 P3-640					.20 .19	NO NO		 33	 BRANCH 6
A 2B	5		P14-15 SHLD A2					.13 .20	NO NO		30	
A 2R			P3-440 P14-5					.19 .13	NO NO		34 30	BRANCH 6
A 2Y			P3-540 P14-14					.19 .13	NO NO		34 30	BRANCH 6
A 3	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 3A	6		SHLD A3 P3-341					.20 .19	NO NO		 33	 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 13 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 3B	5		P14-21 SHLD A3					.13 .20	NO NO		30	
A 3R			P3-141 P14-8					.19 .13	NO NO		 30	BRANCH 6
A 3Y			P3-241 P14-20					.19 .13	NO NO		 30	BRANCH 6
A 4	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 4A	6		SHLD A4 P3-641					.20 .19	NO NO		 33	 BRANCH 7
A 4B	5		P14-19 SHLD A4					.13 .20	NO NO		30	
A 4R			P3-441 P14-7					.19 .13	NO NO		 30	BRANCH 7
A 4Y			P3-541 P14-18					.19 .13	NO NO		 30	BRANCH 7
A 5	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 5A	5		SHLD A5 P3-342					.20 .19	NO NO		 33	 BRANCH 6
A 5B	5		P14-11 SHLD A5					.13 .20	NO NO		30	
A 5R			P3-142 P14-10					.19 .13	NO NO		34 30	BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 14 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 5Y			P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A 6	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A 6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A 6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A 6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A 7	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A 7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A 7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A 7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A 8	16				1.00 1.75	.75 1.50				6B 5B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 15 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A 8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A 8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A 8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A 9	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A 9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A 9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A 9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A 10	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A 10B	5		P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 16 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A 10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A 11	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A 11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A 11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A 11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A 12	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A 12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A 12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A 12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 17 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 13	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A 13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A 13R			P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A 13Y			P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A 14	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A 14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A 14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A 14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A 15	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 18 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		33	BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		33	BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		30	BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		33	BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		33	BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		30	BRANCH 7
A 20	8											

LEAD IDENT	WIRE MATL ITEM	LEAD LG.	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		33	BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		33	BRANCH 4

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		33	BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		33	BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

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	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	25Y			P2-C34 P3-530					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	26	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	26A	5		SHLD A26 P2-F33					.20 .19	NO NO		 33	 BRANCH 4
A	26B	5		P3-331 SHLD A26					.19 .20	NO NO		33	BRANCH 6
A	26R			P2-F35 P3-131					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	26Y			P2-F34 P3-231					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	27	16				1.00 1.00	.75 .75				6B 5B	37 37	
A	27A	5		SHLD A27 P2-H33					.20 .19	NO NO		 33	 BRANCH 4
A	27B	5		P3-631 SHLD A27					.19 .20	NO NO		33	BRANCH 6
A	27R			P2-H35 P3-431					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	27Y			P2-H34 P3-531					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A	28	16				1.00 1.75	.75 1.50				6B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 23 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	28A	5		SHLD A28 E15					.20 .19	NO NO			
A	28B	5		P7-54 SHLD A28					.13 .20	NO NO		29	
A	28R			P3-132 P7-78					.19 .13	NO NO		 29	BRANCH 6
A	28Y			P3-232 P7-53					.19 .13	NO NO		 29	BRANCH 6
A	29	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	29A	5		SHLD A29 E16					.20 .19	NO NO			
A	29B	5		P7-80 SHLD A29					.13 .20	NO NO		29	
A	29R			P3-432 P7-79					.19 .13	NO NO		 29	BRANCH 6
A	29Y			P3-532 P7-55					.19 .13	NO NO		 29	BRANCH 6
A	30	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	30A	5		SHLD A30 E15					.20 .19	NO NO			
A	30B	5		P7-33 SHLD A30					.13 .20	NO NO		29	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 24 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	30R			P3-133 P7-16					.19 .13	NO NO		 29	BRANCH 6
A	30Y			P3-233 P7-32					.19 .13	NO NO		 29	BRANCH 6
A	31	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	31A	5		SHLD A31 E16					.20 .19	NO NO			
A	31B	5		P7-57 SHLD A31					.13 .20	NO NO		29	
A	31R			P3-433 P7-81					.19 .13	NO NO		34 29	BRANCH 6
A	31Y			P3-533 P7-56					.19 .13	NO NO		34 29	BRANCH 6
A	32	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	32A	5		SHLD A32 E15					.20 .19	NO NO			
A	32B	5		P7-35 SHLD A32					.13 .20	NO NO		29	
A	32R			P3-134 P7-34					.19 .13	NO NO		34 29	BRANCH 6
A	32Y			P3-234 P7-17					.19 .13	NO NO		34 29	BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 25 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	33	2		P2-H8 P3-136					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	34	2		P2-K8 P3-336					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A	35	4		P3-113 P4-514					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	36	4		P3-612 P4-314					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	37	4		P3-512 P4-414					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	38	4		P3-412 P4-614					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	39	4		P3-312 P4-313					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	40	4		P3-112 P4-412					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	41	16				1.00 1.00	.75 .75				5B 5B	37 37	
A	41A	5		SHLD A41 P3-111					.20 .19	NO NO		 33	 BRANCH 5
A	41B	5		E4 SHLD A41					.19 .20	NO NO			
A	41R			P3-311 P4-515					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 26 OF 109

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	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	41Y			P3-211					.19	NO		34	BRANCH 5
				P4-615					.19	NO		34	BRANCH 8
A	42	16				1.00	.75				5B	37	
						1.00	.75				6B	37	
A	42A	5		SHLD A42					.20	NO			
				P3-410					.19	NO		33	BRANCH 5
A	42B	5		E7					.19	NO			
				SHLD A42					.20	NO			
A	42R			P3-610					.19	NO		34	BRANCH 5
				P4-332					.19	NO		34	BRANCH 9
A	42Y			P3-510					.19	NO		34	BRANCH 5
				P4-432					.19	NO		34	BRANCH 9
A	43	16				1.00	.75				5B	37	
						1.00	.75				5B	37	
A	43A	5		SHLD A43					.20	NO			
				P3-110					.19	NO		33	BRANCH 5
A	43B	5		E7					.19	NO			
				SHLD A43					.20	NO			
A	43R			P3-310					.19	NO		34	BRANCH 5
				P4-330					.19	NO		34	BRANCH 9
A	43Y			P3-210					.19	NO		34	BRANCH 5
				P4-430					.19	NO		34	BRANCH 9
A	44	16				1.00	.75				5B	37	
						1.00	.75				5B	37	

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	44A	5		SHLD A44					.20	NO			
				P3-409					.19	NO		33	BRANCH 5
A	44B	5		E6					.19	NO			
				SHLD A44					.20	NO			
A	44R			P3-609					.19	NO		34	BRANCH 5
				P4-329					.19	NO		34	BRANCH 9
A	44Y			P3-509					.19	NO		34	BRANCH 5
				P4-429					.19	NO		34	BRANCH 9
A	45	16				1.00	.75				6B	37	
						1.00	.75				6B	37	
A	45A	5		SHLD A45					.20	NO			
				P3-109					.19	NO		33	BRANCH 5
A	45B	5		E6					.19	NO			
				SHLD A45					.20	NO			
A	45R			P3-309					.19	NO		34	BRANCH 5
				P4-328					.19	NO		34	BRANCH 9
A	45Y			P3-209					.19	NO		34	BRANCH 5
				P4-428					.19	NO		34	BRANCH 9
A	46	16				1.00	.75				6B	37	
						1.00	.75				5B	37	
A	46A	5		SHLD A46					.20	NO			
				P3-408					.19	NO		33	BRANCH 5
A	46B	5		E7					.19	NO			
				SHLD A46					.20	NO			

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	46R			P3-608					.19	NO		34	BRANCH 5
				P4-334					.19	NO		34	BRANCH 9
A	46Y			P3-508					.19	NO		34	BRANCH 5
				P4-434					.19	NO		34	BRANCH 9
A	47	16				1.00	.75				6B	37	
						1.00	.75				5B	37	
A	47A	5		SHLD A47					.20	NO			
				P3-108					.19	NO		33	BRANCH 5
A	47B	5		E7					.19	NO			
				SHLD A47					.20	NO			
A	47R			P3-308					.19	NO		34	BRANCH 5
				P4-333					.19	NO		34	BRANCH 9
A	47Y			P3-208					.19	NO		34	BRANCH 5
				P4-433					.19	NO		34	BRANCH 9
A	48	16				1.00	.75				6B	37	
						1.00	.75				6B	37	
A	48A	5		SHLD A48					.20	NO			
				P3-407					.19	NO		33	BRANCH 5
A	48B	5		E8					.19	NO			
				SHLD A48					.20	NO			
A	48R			P3-607					.19	NO		34	BRANCH 5
				P4-338					.19	NO		34	BRANCH 9
A	48Y			P3-507					.19	NO		34	BRANCH 5
				P4-438					.19	NO		34	BRANCH 9

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	49	16				1.00	.75				5B	37	
						1.00	.75				6B	37	
A	49A	5		SHLD A49					.20	NO			
				P3-107					.19	NO		33	BRANCH 5
A	49B	5		E8					.19	NO			
				SHLD A49					.20	NO			
A	49R			P3-307					.19	NO		34	BRANCH 5
				P4-337					.19	NO		34	BRANCH 9
A	49Y			P3-207					.19	NO		34	BRANCH 5
				P4-437					.19	NO		34	BRANCH 9
A	50	16				1.00	.75				6B	37	
						1.00	.75				6B	37	
A	50A	5		SHLD A50					.20	NO			
				P3-406					.19	NO		33	BRANCH 5
A	50B	5		E7					.19	NO			
				SHLD A50					.20	NO			
A	50R			P3-606					.19	NO		34	BRANCH 5
				P4-336					.19	NO		34	BRANCH 9
A	50Y			P3-506					.19	NO		34	BRANCH 5
				P4-436					.19	NO		34	BRANCH 9
A	51	16				1.00	.75				6B	37	
						1.00	.75				6B	37	
A	51A	5		SHLD A51					.20	NO			
				P3-106					.19	NO		33	BRANCH 5

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	51B	5		E7 SHLD A51					.19 .20	NO NO			
A	51R			P3-306 P4-335					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	51Y			P3-206 P4-435					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A	52	4		P3-213 P4-624					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	53	4		P3-313 P4-525					.19 .19	NO NO		34 34	O, BRANCH 5 BRANCH 8
A	54	16				1.00 1.00	.75 .75				58 68	37 37	
A	54A	5		SHLD A54 P3-405					.20 .19	NO NO		33	BRANCH 5
A	54B	5		E10 SHLD A54					.19 .20	NO NO			
A	54R			P3-605 P4-146					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	54Y			P3-505 P4-246					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	55	16				1.00 1.00	.75 .75				68 68	37 37	
A	55A	5		SHLD A55 P3-105					.20 .19	NO NO		33	BRANCH 5

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CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
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	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	55B	5		E10 SHLD A55					.19 .20	NO NO			
A	55R			P3-305 P4-145					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	55Y			P3-205 P4-245					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	56	16				1.00 1.00	.75 .75				68 68	37 37	
A	56A	5		SHLD A56 P3-404					.20 .19	NO NO		33	BRANCH 5
A	56B	5		E10 SHLD A56					.19 .20	NO NO			
A	56R			P3-604 P4-144					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	56Y			P3-504 P4-244					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	57	16				1.00 1.00	.75 .75				68 68	37 37	
A	57A	5		SHLD A57 P3-104					.20 .19	NO NO		33	BRANCH 5
A	57B	5		E8 SHLD A57					.19 .20	NO NO			
A	57R			P3-304 P4-143					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
SHEET 32 OF 109

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	57Y			P3-204 P4-243					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	58	16				1.00 1.00	.75 .75				68 68	37 37	
A	58A	5		SHLD A58 P3-403					.20 .19	NO NO		33	BRANCH 5
A	58B	5		E9 SHLD A58					.19 .20	NO NO			
A	58R			P3-603 P4-148					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	58Y			P3-503 P4-248					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	59	16				1.00 1.00	.75 .75				58 68	37 37	
A	59A	5		SHLD A59 P3-103					.20 .19	NO NO		33	BRANCH 5
A	59B	5		E10 SHLD A59					.19 .20	NO NO			
A	59R			P3-303 P4-147					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	59Y			P3-203 P4-247					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	60	16				1.00 1.00	.75 .75				68 58	37 37	

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
SHEET 33 OF 109

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	60A	5		SHLD A60 P3-402					.20 .19	NO NO		33	BRANCH 5
A	60B	5		E9 SHLD A60					.19 .20	NO NO			
A	60R			P3-602 P4-152					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	60Y			P3-502 P4-252					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	61	16				1.00 1.00	.75 .75				68 68	37 37	
A	61A	5		SHLD A61 P3-102					.20 .19	NO NO		33	BRANCH 5
A	61B	5		E9 SHLD A61					.19 .20	NO NO			
A	61R			P3-302 P4-151					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	61Y			P3-202 P4-251					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	62	16				1.00 1.00	.75 .75				68 58	37 37	
A	62A	5		SHLD A62 P3-401					.20 .19	NO NO		33	BRANCH 5
A	62B	5		E9 SHLD A62					.19 .20	NO NO			

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE
REV LTR NA
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	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	63	16				1.00 1.00	.75 .75				5B 6B	37 37	
A	63A	5		SHLD A63 P3-101					.20 .19	NO NO		 33	 BRANCH 5
A	63B	5		E9 SHLD A63					.19 .20	NO NO			
A	63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A	64	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	64A	6		SHLD A64 P3-649					.20 .19	NO NO		 33	 BRANCH 7
A	64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A	64R			P3-449 P12-64					.19 .13	NO NO		 30	BRANCH 7
A	64Y			P3-549 P12-65					.19 .13	NO NO		 30	BRANCH 7

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 35 OF 109

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	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	65	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	65A	5		SHLD A65 E14					.20 .19	NO NO			
A	65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A	65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A	65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A	66	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	66A	5		SHLD A66 E14					.20 .19	NO NO			
A	66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A	66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A	66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A	67	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	67A	5		SHLD A67 E14					.20 .19	NO NO			

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SCALE-NONE | REV LTR #A | SHEET 36 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A	67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A	67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A	68	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	68A	5		SHLD A68 E14					.20 .19	NO NO			
A	68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A	68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A	68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A	69	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	69A	5		SHLD A69 E14					.20 .19	NO NO			
A	69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A	69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 37 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A	70	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	70A	5		SHLD A70 E14					.20 .19	NO NO			
A	70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A	70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A	70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A	71	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	71A	5		SHLD A71 E14					.20 .19	NO NO			
A	71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A	71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A	71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A	72	15				1.00 1.75	.75 1.50				5B 5B	37 37	

SIZE A | CODE IDENT NO. 80230 | 6010677

SCALE-NONE | REV LTR #A | SHEET 38 OF 109

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LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	72A	5		SHLD A72 E12					.20 .19	NO NO			
A	72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A	72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A	72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A	73	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	73A	5		SHLD A73 E11					.20 .19	NO NO			
A	73B	5		P13-5 SHLD A73					.13 .20	NO NO		30	
A	73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A	73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A	74	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	74A	5		SHLD A74 E11					.20 .19	NO NO			
A	74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 39 OF 109

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LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A	74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A	75	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	75A	5		SHLD A75 E11					.20 .19	NO NO			
A	75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A	75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A	75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A	76	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	76A	5		SHLD A76 E11					.20 .19	NO NO			
A	76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A	76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A	76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 40 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	77	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	77A	5		SHLD A77 E11					.20 .19	NO NO			
A	77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A	77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A	77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A	78	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	78A	5		SHLD A78 E11					.20 .19	NO NO			
A	78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A	78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A	78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A	79	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 41 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A	79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A	79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A	80	9											
A	80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A	80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A	81	9											
A	81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A	81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A	82	9											
A	82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A	82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 42 OF 109

FORM 2084 REV 367

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	83	9											
A	83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A	83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A	84	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A	84A	5		SHLD A84 E12					.20 .19	NO NO			
A	84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A	84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A	84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A	85	15				1.00 1.75	.75 1.50				6B 5B	37 37	
A	85A	5		SHLD A85 E12					.20 .19	NO NO			
A	85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A	85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 43 OF 109

FORM 2084 REV 367

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A	86	8											
A	86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A	86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A	87	8											
A	87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A	87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A	88	8											
A	88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A	88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A	89	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	89A	5		SHLD A89 E5					.20 .19	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 44 OF 109

FORM 2084 REV 367

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A	89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A	89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A	90	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	90A	5		SHLD A90 E5					.20 .19	NO NO			
A	90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A	90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A	90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A	91	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	91A	5		SHLD A91 E5					.20 .19	NO NO			
A	91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A	91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 45 OF 109

FORM 2084 REV 367

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A	92	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	92A	5		SHLD A92 E13					.20 .19	NO NO			
A	92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A	92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A	92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A	93	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	93A	5		SHLD A93 E13					.20 .19	NO NO			
A	93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A	93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A	93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A	94	16				1.00 1.75	.75 1.50				5B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 46 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 94A	5		SHLD A54 E13					.20 .19	NO NO			
A 94B	5		P13-52 SHLD A54					.13 .20	NO NO		30	
A 94R			P4-120 P13-77					.19 .13	NO NO		34 30	BRANCH 8
A 94Y			P4-220 P13-76					.19 .13	NO NO		34 30	BRANCH 8
A 95	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 95A	5		SHLD A55 E13					.20 .19	NO NO			
A 95B	5		P13-54 SHLD A55					.13 .20	NO NO		30	
A 95R			P4-121 P13-53					.19 .13	NO NO		34 30	BRANCH 8
A 95Y			P4-221 P13-78					.19 .13	NO NO		34 30	BRANCH 8
A 96	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 96A	5		SHLD A96 E5					.20 .19	NO NO			
A 96B	5		P13-68 SHLD A96					.13 .20	NO NO		30	

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 47 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 96R			P4-319 P13-43					.19 .13	NO NO		34 30	BRANCH 8
A 96Y			P4-419 P13-67					.19 .13	NO NO		34 30	BRANCH 8
A 97	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 97A	5		SHLD A57 E5					.20 .19	NO NO			
A 97B	5		P13-45 SHLD A57					.13 .20	NO NO		30	
A 97R			P4-318 P13-44					.19 .13	NO NO		34 30	BRANCH 8
A 97Y			P4-418 P13-69					.19 .13	NO NO		34 30	BRANCH 8
A 98	3		P2-G19 P4-524					.19 .19	NO NO		33 33	P, BRANCH 4 BRANCH 9
A 99	7											
A 99R			P2-A24 P14-60					.19 .13	NO NO		33 30	BRANCH 4
A 99Y			P2-A25 P14-61					.19 .13	NO NO		33 30	BRANCH 4
A 100	12											

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 48 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 100G			P2-K31 P14-4					.19 .13	NO NO		33 30	BRANCH 4
A 100N			P2-K30 P14-3					.19 .13	NO NO		33 30	BRANCH 4
A 100R			P2-K29 P14-1					.19 .13	NO NO		33 30	BRANCH 4
A 100Y			P2-K28 P14-2					.19 .13	NO NO		33 30	BRANCH 4
A 101	13											
A 101G			P1-G39 P2-H31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101N			P1-G38 P2-H30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101R			P1-G37 P2-H29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 101Y			P1-G36 P2-H28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 102	7											
A 102R			P2-K6 P11-E*					.19 .19	NO NO		33 31	BRANCH 3
A 102Y			P2-K7 P11-H*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 49 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 103	7											
A 103R			P2-D6 P11-F*					.19 .19	NO NO		33	BRANCH 3
A 103Y			P2-D7 P11-G*					.19 .19	NO NO		33	BRANCH 3
A 104	7											
A 104R			P2-C6 P11-Y					.19 .19	NO NO		33	BRANCH 3
A 104Y			P2-C7 P11-Z					.19 .19	NO NO		33	BRANCH 3
A 105	2		P2-F8 P11-A					.19 .19	NO NO		33 31	BRANCH 3
A 107	7											
A 107R			P8-L P11-M					.19 .19	NO NO		 31	
A 107Y			P8-H P11-B*					.19 .19	NO NO		 31	
A 108	10											
A 108G			P2-F12 P11-V					.19 .19	NO NO		33	BRANCH 3

SIZE A CODE IDENT NO. 80230 6010677
SCALE-NONE REV LTR #A SHEET 50 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 108R			P2-D12 P11-B					.19 .19	NO NO		33	BRANCH 3
A 108Y			P2-G12 P11-C					.19 .19	NO NO		33	BRANCH 3
A 109	7											
A 109R			P2-A14 P11-S					.19 .19	NO NO		33 31	BRANCH 3
A 109Y			P2-B14 P11-T					.19 .19	NO NO		33 31	BRANCH 3
A 110	7											
A 110R			P2-H13 P11-P					.19 .19	NO NO		33	BRANCH 3
A 110Y			P2-K13 P11-R					.19 .19	NO NO		33	BRANCH 3
A 111	2		E43 P11-X					.30 .25	NO NO			LARGE END BR3
A 112	9											
A 112R			P1-G15 P2-H14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 112Y			P1-G16 P2-K14					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

SIZE A | CODE IDENT NO. 80230 | 6010677
SCALE-NONE | REV LTR #A | SHEET 51 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 113	2		P1-G14 P11-X					.19 .25	NO NO		33	BRANCH 1
A 114	4		P1-B33 P3-620					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 115	4		P1-B34 P3-121					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 116	4		P1-C33 P3-221					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 117	4		P1-C34 P3-321					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 118	4		P1-D33 P3-421					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 119	4		P1-D34 P3-521					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 120	4		P1-F33 P3-621					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 121	4		P1-F34 P3-122					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 122	4		P1-G33 P3-222					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 123	4		P1-G34 P3-322					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 124	7											

SIZE A | CODE IDENT NO. 80230 | 6010677
SCALE-NONE | REV LTR #A | SHEET 52 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 124R			P2-A26 P14-35					.19 .13	NO NO		33 30	BRANCH 4
A 124Y			P2-B26 P14-36					.19 .13	NO NO		33 30	BRANCH 4
A 125	7											
A 125R			P2-A28 P14-37					.19 .13	NO NO		33 30	BRANCH 4
A 125Y			P2-B28 P14-38					.19 .13	NO NO		33 30	BRANCH 4
A 126	7											
A 126R			P2-A30 P14-39					.19 .13	NO NO		33 30	BRANCH 4
A 126Y			P2-B30 P14-40					.19 .13	NO NO		33 30	BRANCH 4
A 127	9											
A 127R			P1-A15 P2-B24					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 127Y			P1-A16 P2-B25					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 4
A 128	8											

SIZE A | CODE IDENT NO. 80230 | 6010677
SCALE-NONE | REV LTR #A | SHEET 53 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 128R			P2-B21 P3-238					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 128Y			P2-A21 P3-338					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 129	3		P2-B17 P3-138					.19 .19	NO NO		33 33	BRANCH 4 BRANCH 6
A 131	7											
A 131R			P8-K P2-G4					.19 .19	NO NO		 33	 BRANCH 3
A 131Y			P8-M P2-G5					.19 .19	NO NO		 33	 BRANCH 3
A 134	16				1.00 1.00	.75 .75				58 58	37 37	
A 134A	5		SHLD A134 P2-G23					.20 .19	NO NO		 33	 BRANCH 4
A 134B	5		E12 SHLD A134					.19 .20	NO NO			
A 134R			P2-H23 P4-324					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 134Y			P2-K23 P4-424					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135	16				1.00 1.00	.75 .75				58 68	37 37	

SIZE A | CODE IDENT NO. 80230 | 6010677
SCALE-NONE | REV LTR #A | SHEET 54 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 135A	5		SHLD A135 P2-G24					.20 .19	NO NO		33	BRANCH 4
A 135B	5		E12 SHLD A135					.19 .20	NO NO			
A 135R			P2-H24 P4-323					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 135Y			P2-K24 P4-423					.19 .19	NO NO		34 34	
A 136	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 136A	5		SHLD A136 P2-G25					.20 .19	NO NO		33	BRANCH 4
A 136B	5		E12 SHLD A136					.19 .20	NO NO			
A 136R			P2-H25 P4-322					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 136Y			P2-K25 P4-422					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 137	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 137A	5		SHLD A137 P2-G21					.20 .19	NO NO		33	BRANCH 4
A 137B	5		E4 SHLD A137					.19 .20	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 137R			P2-H21 P4-316					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 137Y			P2-K21 P4-416					.19 .19	NO NO		34	BRANCH 4 BRANCH 8
A 139	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 139A	5		SHLD A139 P2-G22					.20 .19	NO NO		33	BRANCH 4
A 139B	5		E4 SHLD A139					.19 .20	NO NO			
A 139R			P2-H22 P4-315					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 139Y			P2-K22 P4-415					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 8
A 141	4		P1-C17 P8-L					.19 .19	NO NO		34	BRANCH 1
A 143	11											
A 143G			P1-F15 P2-D15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143R			P1-D16 P2-G15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3
A 143Y			P1-F16 P2-F15					.19 .19	NO NO		34 34	BRANCH 1 BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 144	13											
A 144G			P1-B36 P2-G28					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144N			P1-A37 P2-G31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144R			P1-B37 P2-G30					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 144Y			P1-A36 P2-G29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 148	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 148A	5		SHLD A148 P1-A30					.20 .19	NO NO		33	BRANCH 2
A 148B	6		P3-341 SHLD A148					.19 .20	NO NO			BRANCH 6
A 148R			P1-A29 P3-141					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 148Y			P1-A28 P3-241					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 149A	5		SHLD A149 P1-B30					.20 .19	NO NO		33	BRANCH 2

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 149B	6		P3-641 SHLD A149					.19 .20	NO NO			BRANCH 6
A 149R			P1-B29 P3-441					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 149Y			P1-B28 P3-541					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 150	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 150A	5		SHLD A150 P1-C30					.20 .19	NO NO		33	BRANCH 2
A 150B	6		P3-343 SHLD A150					.19 .20	NO NO			BRANCH 7
A 150R			P1-C29 P3-143					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 150Y			P1-C28 P3-243					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 151	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 151A	5		SHLD A151 P1-D30					.20 .19	NO NO		33	BRANCH 2
A 151B	6		P3-643 SHLD A151					.19 .20	NO NO			BRANCH 7
A 151R			P1-D29 P3-443					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 151Y			P1-D28 P3-543					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 152A	5		SHLD A152 P1-F30					.20 .19	NO NO		33	BRANCH 2
A 152B	6		P3-345 SHLD A152					.19 .20	NO NO			BRANCH 7
A 152R			P1-F29 P3-145					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 152Y			P1-F28 P3-245					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 153A	5		SHLD A153 P1-G30					.20 .19	NO NO		33	BRANCH 2
A 153B	6		P3-645 SHLD A153					.19 .20	NO NO			BRANCH 7
A 153R			P1-G29 P3-445					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 153Y			P1-G28 P3-545					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154	16				1.00 1.00	.75 .75				5B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 59 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 154A	5		SHLD A154 P1-A27					.20 .19	NO NO		33	BRANCH 2
A 154B	6		P3-347 SHLD A154					.19 .20	NO NO			BRANCH 7
A 154R			P1-A26 P3-147					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 154Y			P1-A25 P3-247					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 155A	5		SHLD A155 P1-B27					.20 .19	NO NO		33	BRANCH 2
A 155B	6		P3-647 SHLD A155					.19 .20	NO NO			BRANCH 7
A 155R			P1-B26 P3-447					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 155Y			P1-B25 P3-547					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 156A	5		SHLD A156 P1-C27					.20 .19	NO NO		33	BRANCH 2
A 156B	6		P3-349 SHLD A156					.19 .20	NO NO			BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 60 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 156R			P1-C26 P3-149					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 156Y			P1-C25 P3-249					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 157A	5		SHLD A157 P1-D27					.20 .19	NO NO		33	BRANCH 2
A 157B	6		P3-649 SHLD A157					.19 .20	NO NO			BRANCH 7
A 157R			P1-D26 P3-449					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 157Y			P1-D25 P3-549					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 7
A 158	3		P1-A33 P3-119					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 6
A 159	4		P1-A34 P3-422					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 6
A 160	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 160A	5		SHLD A160 P1-C37					.20 .19	NO NO		33	BRANCH 2
A 160B	5		E15 SHLD A160					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 61 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 160R			P1-D37 P3-132					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 160Y			P1-F37 P3-232					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 161A	5		SHLD A161 P1-C38					.20 .19	NO NO		33	BRANCH 2
A 161B	5		E16 SHLD A161					.19 .20	NO NO			
A 161R			P1-D38 P3-432					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 161Y			P1-F38 P3-532					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162	16				1.00 1.00	.75 .75				6B 5B	37 37	
A 162A	5		SHLD A162 P1-C39					.20 .19	NO NO		33	BRANCH 2
A 162B	5		E15 SHLD A162					.19 .20	NO NO			
A 162R			P1-D39 P3-133					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6
A 162Y			P1-F39 P3-233					.19 .19	NO NO		34 33	BRANCH 2 BRANCH 6

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 62 OF 109

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 163	8											
A 163R			P1-F32 P4-102					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 163Y			P1-G32 P4-202					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 8
A 164	7											
A 164R			P1-C32 P13-7					.19 .13	NO NO		33 30	BRANCH 2
A 164Y			P1-D32 P13-8					.19 .13	NO NO		33 30	BRANCH 2
A 165	8											
A 165R			P1-A32 P2-B23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 165Y			P1-B32 P2-A23					.19 .19	NO NO		33 33	BRANCH 2 BRANCH 4
A 169	9											
A 169R			P1-C19 P14-47					.19 .13	NO NO		34 30	BRANCH 1
A 169Y			P1-C20 P14-48					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 63 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 170	4		P1-F14 P14-49					.19 .13	NO NO		34 30	BRANCH 1
A 171	10											
A 171G			P1-D17 P2-F9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171R			P1-C18 P2-G8					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 171Y			P1-D18 P2-G9					.19 .19	NO NO		33 33	BRANCH 1 BRANCH 3
A 174	4		P1-F17 P4-652					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 175	4		P1-F18 P4-551					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 176	4		P1-G17 P4-651					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 177	4		P1-G18 P4-552					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 179	4		P1-B1 P10-62					.19 .13	NO NO		34 30	BRANCH 1
A 180	4		P1-B2 P10-38					.19 .13	NO NO		34 30	BRANCH 1
A 181	4		P1-C1 P10-63					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 64 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 182	4		P1-D1 P10-64					.19 .13	NO NO		34 30	BRANCH 1
A 183	4		P1-F1 P10-65					.19 .13	NO NO		34 30	BRANCH 1
A 184	4		P1-D2 P10-40					.19 .13	NO NO		34 30	BRANCH 1
A 185	4		P1-C2 P10-39					.19 .13	NO NO		34 30	BRANCH 1
A 186	4		P1-A3 P10-85					.19 .13	NO NO		34 30	BRANCH 1
A 187	4		P1-B3 P10-61					.19 .13	NO NO		34 30	BRANCH 1
A 188	4		P1-C3 P10-37					.19 .13	NO NO		34 30	BRANCH 1
A 189	4		P1-A4 P10-84					.19 .13	NO NO		34 30	BRANCH 1
A 190	4		P1-A5 P10-83					.19 .13	NO NO		34 30	BRANCH 1
A 191	4		P1-C4 P10-59					.19 .13	NO NO		34 30	BRANCH 1
A 192	4		P1-B4 P10-60					.19 .13	NO NO		34 30	BRANCH 1
A 193	4		P1-D8 P10-8					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 65 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 194	4		P1-D7 P10-20					.19 .13	NO NO		34 30	BRANCH 1
A 195	4		P1-F7 P10-21					.19 .13	NO NO		34 30	BRANCH 1
A 196	4		P1-G8 P10-10					.19 .13	NO NO		34 30	BRANCH 1
A 198	4		P1-G7 P10-23					.19 .13	NO NO		34 30	BRANCH 1
A 199	4		P1-F8 P10-9					.19 .13	NO NO		34 30	BRANCH 1
A 200	4		P1-C5 P10-36					.19 .13	NO NO		34 30	BRANCH 1
A 201	4		P1-D6 P10-35					.19 .13	NO NO		34 30	BRANCH 1
A 202	4		P1-F6 P10-17					.19 .13	NO NO		34 30	BRANCH 1
A 203	4		P1-D5 P10-19					.19 .13	NO NO		34 30	BRANCH 1
A 204	4		P1-G5 P10-7					.19 .13	NO NO		34 30	BRANCH 1
A 205	4		P1-G6 P10-6					.19 .13	NO NO		34 30	BRANCH 1
A 206	4		P1-F5 P10-18					.19 .13	NO NO		34 30	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 66 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 207	4		P1-D3 P10-41					.19 .13	NO NO		34 30	BRANCH 1
A 208	4		P1-D4 P10-22					.19 .13	NO NO		34 30	BRANCH 1
A 209	4		P1-F2 P10-66					.19 .13	NO NO		34 30	BRANCH 1
A 210	4		P1-G3 P10-67					.19 .13	NO NO		34 30	BRANCH 1
A 211	4		P1-F4 P10-43					.19 .13	NO NO		34 30	BRANCH 1
A 212	4		P1-G4 P10-68					.19 .13	NO NO		34 30	BRANCH 1
A 213	4		P1-F3 P10-42					.19 .13	NO NO		34 30	BRANCH 1
A 217	4		P1-B5 P10-82					.19 .13	NO NO		34 30	BRANCH 1
A 218	4		P1-C6 P10-58					.19 .13	NO NO		34 30	BRANCH 1
A 219	4		P1-A6 P10-57					.19 .13	NO NO		34 30	BRANCH 1
A 220	4		P1-B6 P10-34					.19 .13	NO NO		34 30	BRANCH 1
A 221	11											

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 221G			P1-A10 P10-16					.19 .13	NO NO		34 30	BRANCH 1
A 221R			P1-B10 P10-5					.19 .13	NO NO		34 30	BRANCH 1
A 221Y			P1-A11 P10-15					.19 .13	NO NO		34 30	BRANCH 1
A 224	13											
A 224G			P5-84 P10-1					.13 .13	NO NO		29 30	
A 224N			P5-83 P10-2					.13 .13	NO NO		29 30	
A 224R			P5-31 P10-11					.13 .13	NO NO		29 30	
A 224Y			P5-57 P10-3					.13 .13	NO NO		29 30	
A 228	4		P1-D13 P10-46					.19 .13	NO NO		34 30	BRANCH 1
A 229	4		P1-G13 P10-70					.19 .13	NO NO		34 30	BRANCH 1
A 230	4		P1-D12 P10-44					.19 .13	NO NO		34 30	BRANCH 1
A 231	4		P1-G12 P10-69					.19 .13	NO NO		34 30	BRANCH 1

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 232	4		P1-F13 P10-45					.19 .13	NO NO		34 30	BRANCH 1
A 233	4		P1-F12 P10-25					.19 .13	NO NO		34 30	BRANCH 1
A 234	4		P1-G10 P6-30					.19 .13	NO NO		34 29	BRANCH 1
A 235	4		P1-F9 P6-52					.19 .13	NO NO		34 29	BRANCH 1
A 236	4		P1-D9 P6-77					.19 .13	NO NO		34 29	BRANCH 1
A 237	4		P1-D10 P6-76					.19 .13	NO NO		34 29	BRANCH 1
A 238	4		P1-F10 P6-51					.19 .13	NO NO		34 29	BRANCH 1
A 248	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 248A	5		SHLD A248 E8					.20 .19	NO NO			
A 248B	5		E18 SHLD A248					.19 .20	YES NO			
A 248R			P4-142 P6-84					.19 .13	NO NO		34 29	BRANCH 10
A 248Y			P4-242 P6-60					.19 .13	NO NO		34 29	BRANCH 10

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 249	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 249A	5		SHLD A249 E8					.20 .19	NO NO			
A 249B	5		E18 SHLD A249					.19 .20	YES NO			
A 249R			P4-141 P6-82					.19 .13	NO NO		34 29	BRANCH 10
A 249Y			P4-241 P6-58					.19 .13	NO NO		34 29	BRANCH 10
A 250	16				1.00 1.75	.75 1.50				5B 5A	37 37	
A 250A	5		SHLD A250 E10					.20 .19	NO NO			
A 250B	5		E19 SHLD A250					.19 .20	YES NO			
A 250R			P4-140 P6-81					.19 .13	NO NO		34 29	BRANCH 10
A 250Y			P4-240 P6-56					.19 .13	NO NO		34 29	BRANCH 10
A 251	9											E
A 251R			P4-354 P7-72					.19 .13	NO NO		34 29	E, BRANCH 10

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 251Y			P4-454 P7-73					.19 .13	NO NO		34 29	E, BRANCH 10
A 252	9											E, BRANCH 10
A 252R			P4-353 P7-48					.19 .13	NO NO		34 29	E, BRANCH 10
A 252Y			P4-453 P7-28					.19 .13	NO NO		34 29	E, BRANCH 10
A 256	9											G
A 256R			P4-127 P12-66					.19 .13	NO NO		34 30	G, BRANCH 9
A 256Y			P4-227 P12-67					.19 .13	NO NO		34 30	G, BRANCH 9
A 258	9											G
A 258R			P4-348 P12-27					.19 .13	NO NO		34 30	G, BRANCH 9
A 258Y			P4-448 P12-28					.19 .13	NO NO		34 30	G, BRANCH 9
A 259	9											G
A 259R			P4-347 P12-47					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 71 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 259Y			P4-447 P12-48					.19 .13	NO NO		34 30	G, BRANCH 9
A 260	9											G
A 260R			P4-346 P12-72					.19 .13	NO NO		34 30	G, BRANCH 9
A 260Y			P4-446 P12-73					.19 .13	NO NO		34 30	G, BRANCH 9
A 261	9											G
A 261R			P4-345 P12-13					.19 .13	NO NO		34 30	G, BRANCH 9
A 261Y			P4-445 P12-29					.19 .13	NO NO		34 30	G, BRANCH 9
A 262	9											G
A 262R			P4-125 P12-68					.19 .13	NO NO		34 30	G, BRANCH 9
A 262Y			P4-225 P12-69					.19 .13	NO NO		34 30	G, BRANCH 9
A 263	9											G
A 263R			P4-124 P12-43					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 72 OF 109

FORM 2084 REV 367

DIEHL 062C67 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 263Y			P4-224 P12-44					.19 .13	NO NO		34 30	G, BRANCH 9
A 266	9											G
A 266R			P4-344 P12-70					.19 .13	NO NO		34 30	G, BRANCH 9
A 266Y			P4-444 P12-71					.19 .13	NO NO		34 30	G, BRANCH 9
A 267	9											G
A 267R			P4-343 P12-45					.19 .13	NO NO		34 30	G, BRANCH 9
A 267Y			P4-443 P12-46					.19 .13	NO NO		34 30	G, BRANCH 9
A 268	9											G
A 268R			P4-342 P12-25					.19 .13	NO NO		34 30	G, BRANCH 9
A 268Y			P4-442 P12-26					.19 .13	NO NO		34 30	G, BRANCH 9
A 269	9											G
A 269R			P4-341 P12-24					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 73 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 269Y			P4-441 P12-10					.19 .13	NO NO		34 30	G, BRANCH 9
A 270	9											G
A 270R			P4-340 P12-4					.19 .13	NO NO		34 30	G, BRANCH 9
A 270Y			P4-440 P12-14					.19 .13	NO NO		34 30	G, BRANCH 9
A 272	9											M
A 272R			P4-133 P10-51					.19 .13	NO NO		34 30	M, BRANCH 9
A 272Y			P4-233 P10-29					.19 .13	NO NO		34 30	M, BRANCH 9
A 273	9											M
A 273R			P4-132 P10-75					.19 .13	NO NO		34 30	M, BRANCH 9
A 273Y			P4-232 P10-74					.19 .13	NO NO		34 30	M, BRANCH 9
A 274	9											M
A 274R			P4-130 P10-49					.19 .13	NO NO		34 30	M, BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A		SHEET 74 OF 109

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 274Y			P4-230 P10-73					.19 .13	NO NO		34 30	M, BRANCH 9
A 275	9											M
A 275R			P4-352 P10-72					.19 .13	NO NO		34 30	M, BRANCH 9
A 275Y			P4-452 P10-71					.19 .13	NO NO		34 30	M, BRANCH 9
A 276	9											E
A 276R			P4-358 P7-74					.19 .13	NO NO		34 29	E, BRANCH 10
A 276Y			P4-458 P7-49					.19 .13	NO NO		34 29	E, BRANCH 10
A 277	9											E
A 277R			P4-357 P7-50					.19 .13	NO NO		34 29	E, BRANCH 10
A 277Y			P4-457 P7-29					.19 .13	NO NO		34 29	E, BRANCH 10
A 278	9											E
A 278R			P4-356 P7-76					.19 .13	NO NO		34 29	E, BRANCH 10

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 75 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 278Y			P4-456 P7-75					.19 .13	NO NO		34 29	E, BRANCH 10
A 279	9											E
A 279R			P4-355 P7-30					.19 .13	NO NO		34 29	E, BRANCH 10
A 279Y			P4-455 P7-51					.19 .13	NO NO		34 29	E, BRANCH 10
A 282	4		P2-H17 P4-522					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 284	4		P2-A22 P4-623					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 289	4		P4-603 P5-51					.19 .13	NO NO		34 29	A, BRANCH 8
A 290	4		P4-503 P5-78					.19 .13	NO NO		34 29	A, BRANCH 8
A 291	4		P4-403 P5-77					.19 .13	NO NO		34 29	A, BRANCH 8
A 292	4		P4-303 P5-76					.19 .13	NO NO		34 29	A, BRANCH 8
A 293	4		P4-203 P5-79					.19 .13	NO NO		34 29	A, BRANCH 8
A 294	4		P4-103 P5-49					.19 .13	NO NO		34 29	A, BRANCH 8

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 76 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 295	4		P4-502 P5-28					.19 .13	NO NO		34 29	A, BRANCH 8
A 296	4		P4-402 P5-48					.19 .13	NO NO		34 29	A, BRANCH 8
A 297	4		P4-404 P5-2					.19 .13	NO NO		34 29	B, BRANCH 8
A 298	4		P4-304 P5-9					.19 .13	NO NO		34 29	B, BRANCH 8
A 299	4		P4-204 P5-22					.19 .13	NO NO		34 29	B, BRANCH 8
A 300	4		P4-605 P5-41					.19 .13	NO NO		34 29	B, BRANCH 8
A 301	4		P4-505 P5-66					.19 .13	NO NO		34 29	B, BRANCH 8
A 302	4		P4-405 P5-3					.19 .13	NO NO		34 29	B, BRANCH 8
A 303	4		P4-305 P5-10					.19 .13	NO NO		34 29	B, BRANCH 8
A 304	4		P4-205 P5-23					.19 .13	NO NO		34 29	B, BRANCH 8
A 305	4		P4-606 P5-42					.19 .13	NO NO		34 29	B, BRANCH 8
A 306	4		P4-506 P5-67					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 77 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 307	4		P4-406 P5-12					.19 .13	NO NO		34 29	B, BRANCH 8
A 308	4		P4-306 P5-11					.19 .13	NO NO		34 29	B, BRANCH 8
A 309	4		P4-206 P5-24					.19 .13	NO NO		34 29	B, BRANCH 8
A 310	4		P4-607 P5-43					.19 .13	NO NO		34 29	B, BRANCH 8
A 311	4		P4-507 P5-68					.19 .13	NO NO		34 29	B, BRANCH 8
A 312	4		P4-407 P5-27					.19 .13	NO NO		34 29	B, BRANCH 8
A 313	4		P4-307 P5-26					.19 .13	NO NO		34 29	B, BRANCH 8
A 314	4		P4-207 P5-25					.19 .13	NO NO		34 29	B, BRANCH 8
A 315	4		P4-608 P5-44					.19 .13	NO NO		34 29	B, BRANCH 8
A 316	4		P4-508 P5-69					.19 .13	NO NO		34 29	B, BRANCH 8
A 317	4		P4-408 P5-18					.19 .13	NO NO		34 29	B, BRANCH 8
A 318	4		P4-308 P5-47					.19 .13	NO NO		34 29	B, BRANCH 8

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR #A	SHEET 78 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 319	4		P4-208 P5-46					.19 .13	NO NO		34 29	B, BRANCH 8
A 320	4		P4-6C4 P5-45					.19 .13	NO NO		34 29	B, BRANCH 8
A 321	4		P4-609 P5-70					.19 .13	NO NO		34 29	B, BRANCH 8
A 322	4		P4-409 P5-72					.19 .13	NO NO		34 29	B, BRANCH 8
A 323	3		P4-509 P5-7					.19 .13	NO NO		33 29	B, BRANCH 8
A 324	3		P4-104 P5-8					.19 .13	NO NO		33 29	B, BRANCH 8
A 325	3		P4-108 P5-1					.19 .13	NO NO		33 29	B, BRANCH 8
A 326	4		P4-116 P5-73					.19 .13	NO NO		34 29	B, BRANCH 8
A 327	3		P4-106 P5-21					.19 .13	NO NO		33 29	B, BRANCH 8
A 328	9											G
A 328R			P4-126 P12-42					.19 .13	NO NO		34 30	G, BRANCH 9
A 328Y			P4-226 P12-23					.19 .13	NO NO		34 30	G, BRANCH 9

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE REV LTR #A SHEET 79 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 329	9											G
A 329R			P4-339 P12-11					.19 .13	NO NO		34 30	G, BRANCH 9
A 329Y			P4-439 P12-12					.19 .13	NO NO		34 30	G, BRANCH 9
A 337	4		P4-115 P5-75					.19 .13	NO NO		34 29	A, BRANCH 8
A 338	3		P4-302 P5-30					.19 .13	NO NO		33 29	A, BRANCH 8
A 340	4		P4-309 P5-71					.19 .13	NO NO		34 29	B, BRANCH 8
A 344	10											
A 344G			P2-D14 P11-D					.19 .19	NO NO		33	
A 344R			P2-G14 P11-E					.19 .19	NO NO		33	
A 344Y			P2-F14 P11-W					.19 .19	NO NO		33	
A 345	7											
A 345R			P8-L P11-L					.19 .19	NO NO		31	

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE REV LTR #A SHEET 80 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 345Y			P8-H P11-A*					.19 .19	NO NO		31	
A 346	7											
A 346R			P8-L P11-L					.19 .19	NO NO			
A 346Y			P8-H P11-A*					.19 .19	NO NO			
A 347	7											
A 347R			P8-L P11-M					.19 .19	NO NO			
A 347Y			P8-H P11-B*					.19 .19	NO NO			
A 349	7											
A 349R			P2-G6 P11-Y					.19 .19	NO NO		33 31	BRANCH 3
A 349Y			P2-G7 P11-Z					.19 .19	NO NO		33 31	BRANCH 3
A 350	7											
A 350R			P2-B6 P11-F*					.19 .19	NO NO		33 31	BRANCH 3

SIZE A
CODE IDENT NO. 80230
6010677
SCALE-NONE REV LTR #A SHEET 81 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 350Y			P2-B7 P11-G*					.19 .19	NO NO		33 31	BRANCH 3
A 351	7											
A 351R			P2-F6 P11-U					.19 .19	NO NO		33	BRANCH 3
A 351Y			P2-F7 P11-D*					.19 .19	NO NO		33	BRANCH 3
A 352	7											
A 352R			P2-A6 P11-U					.19 .19	NO NO		33 31	BRANCH 3
A 352Y			P2-A7 P11-D*					.19 .19	NO NO		33 31	BRANCH 3
A 353	7											
A 353R			P2-A4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 353Y			P2-A5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 354	7											
A 354R			P2-B4 P8-K					.19 .19	NO NO		33	BRANCH 3

SIZE A
CODE IDENT NO. 80230
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SCALE-NONE REV LTR #A SHEET 82 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 354Y			P2-B5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 355	7											
A 355R			P2-C4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 355Y			P2-C5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 356	7											
A 356R			P2-D4 P8-K					.19 .19	NO NO		33	BRANCH 3
A 356Y			P2-D5 P8-J					.19 .19	NO NO		33	BRANCH 3
A 357	7											
A 357R			P2-F4 P8-K					.19 .19	NO NO		33 32	BRANCH 3
A 357Y			P2-F5 P8-M					.19 .19	NO NO		33	BRANCH 3
A 358	16				1.00 1.75	.75 1.50				58 58	37 37	
A 358A	5		SHLD A358 E16					.20 .19	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 358B	5		P7-83 SHLD A358					.13 .20	NO NO		29	
A 358R			P3-237 P7-82					.19 .13	NO NO		34 29	BRANCH 6
A 358Y			P3-337 P7-58					.19 .13	NO NO		34 29	BRANCH 6
A 359	16				1.00 1.75	.75 1.50				58 58	37 37	
A 359A	5		SHLD A359 E16					.20 .19	NO NO			
A 359B	5		P7-60 SHLD A359					.13 .20	NO NO		29	
A 359R			P3-437 P7-84					.19 .13	NO NO		34 29	BRANCH 6
A 359Y			P3-537 P7-59					.19 .13	NO NO		34 29	BRANCH 6
A 360	4		P3-611 P4-622					.19 .19	NO NO		34 34	D, BRANCH 5 BRANCH 8
A 361	7											
A 361R			P2-H15 P7-63					.19 .13	NO NO		33 29	BRANCH 3
A 361Y			P2-K15 P7-38					.19 .13	NO NO		33 29	BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 364	9											
A 364R			P1-B19 P14-43					.19 .13	NO NO		34 30	BRANCH 1
A 364Y			P1-B20 P14-44					.19 .13	NO NO		34 30	BRANCH 1
A 365	4		P1-D19 P14-45					.19 .13	NO NO		34 30	BRANCH 1
A 366	2		P3-236 P8-C					.19 .19	NO NO		33	BRANCH 6
A 367	2		P3-436 P8-C					.19 .19	NO NO		33 32	BRANCH 6
A 397	8											
A 397R			P2-H12 P11-P					.19 .19	NO NO		33 31	BRANCH 3
A 397Y			P2-K12 P11-R					.19 .19	NO NO		33 31	BRANCH 3
A 398	10											
A 398G			P2-G11 P11-C					.19 .19	NO NO		33 31	BRANCH 3
A 398R			P2-D11 P11-B					.19 .19	NO NO		33 31	BRANCH 3

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 398Y			P2-F11 P11-V					.19 .19	NO NO		33 31	BRANCH 3
A 399	10											
A 399G			P2-G13 P11-E					.19 .19	NO NO		33 31	BRANCH 3
A 399R			P2-D13 P11-D					.19 .19	NO NO		33 31	BRANCH 3
A 399Y			P2-F13 P11-W					.19 .19	NO NO		33 31	BRANCH 3
A 400	4		P4-109 P9-7					.19 .13	NO NO		34 29	H, BRANCH 8
A 401	4		P4-410 P9-17					.19 .13	NO NO		34 29	H, BRANCH 8
A 402	4		P4-209 P9-8					.19 .13	NO NO		34 29	H, BRANCH 8
A 403	4		P4-310 P9-6					.19 .13	NO NO		34 29	H, BRANCH 8
A 404	4		P4-510 P9-19					.19 .13	NO NO		34 29	H, BRANCH 8
A 405	4		P4-210 P9-34					.19 .13	NO NO		34 29	H, BRANCH 8
A 406	4		P4-610 P9-20					.19 .13	NO NO		34 29	H, BRANCH 8

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 407	4		P4-110 P9-18					.19 .13	NO NO		34 29	H, BRANCH 8
A 408	4		P4-111 P9-35					.19 .13	NO NO		34 29	H, BRANCH 8
A 409	4		P4-612 P9-38					.19 .13	NO NO		34 29	H, BRANCH 8
A 410	4		P4-211 P9-36					.19 .13	NO NO		34 29	H, BRANCH 8
A 411	4		P4-512 P9-37					.19 .13	NO NO		34 29	H, BRANCH 8
A 412	4		P4-511 P9-59					.19 .13	NO NO		34 29	H, BRANCH 8
A 413	4		P4-411 P9-61					.19 .13	NO NO		34 29	H, BRANCH 8
A 414	4		P4-611 P9-58					.19 .13	NO NO		34 29	H, BRANCH 8
A 415	4		P4-311 P9-60					.19 .13	NO NO		34 29	H, BRANCH 8
A 417	4		P1-D20 P14-46					.19 .13	NO NO		34 30	BRANCH 1
A 418	3		P2-H18 P10-27					.19 .13	NO NO		33 30	BRANCH 4
A 420	4		P2-G20 P4-625					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 87 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 421	4		P2-H20 P4-114					.19 .19	NO NO		34 34	P, BRANCH 4 BRANCH 9
A 423	11											Q
A 423G			P1-C15 P4-214					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423R			P1-D15 P4-215					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 423Y			P1-C16 P4-216					.19 .19	NO NO		34 34	Q, BRANCH 1 BRANCH 10
A 427	10											N
A 427G			P4-461 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427R			P4-459 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 427Y			P4-460 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 428	10											N
A 428G			P4-361 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 428R			P4-359 P8-D					.19 .19	NO NO		33	N, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 88 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 428Y			P4-360 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 429	10											N
A 429G			P4-261 P8-D					.19 .19	NO NO		33	N, BRANCH 10
A 429R			P4-259 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 429Y			P4-260 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 430	10											N
A 430G			P4-161 P8-F					.19 .19	NO NO		33	N, BRANCH 10
A 430R			P4-159 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 430Y			P4-160 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 432	4		P1-B8 P6-54					.19 .13	NO NO		34 29	BRANCH 1
A 433	4		P1-A9 P6-53					.19 .13	NO NO		34 29	BRANCH 1
A 434	4		P1-A8 P6-78					.19 .13	NO NO		34 29	BRANCH 1

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 89 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 435	4		P1-C10 P6-14					.19 .13	NO NO		34 29	BRANCH 1
A 436	4		P1-C9 P6-15					.19 .13	NO NO		34 29	BRANCH 1
A 437	4		P1-C8 P6-32					.19 .13	NO NO		34 29	BRANCH 1
A 438	4		P1-B9 P6-31					.19 .13	NO NO		34 29	BRANCH 1
A 439	4		P1-C11 P6-79					.19 .13	NO NO		34 29	BRANCH 1
A 440	4		P1-D11 P6-80					.19 .13	NO NO		34 29	BRANCH 1
A 441	4		P1-C12 P6-55					.19 .13	NO NO		34 29	BRANCH 1
A 442	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 442A	5		SHLD A442 P1-D23					.20 .19	NO NO		33	BRANCH 1
A 442B	6		P3-646 SHLD A442					.19 .20	NO NO			BRANCH 7
A 442R			P1-D21 P3-446					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 442Y			P1-D22 P3-546					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 90 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 443	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 443A	5		SHLD A443 P1-F23					.20 .19	NO NO		 33	 BRANCH 1
A 443B	6		P3-348 SHLD A443					.19 .20	NO NO			BRANCH 7
A 443R			P1-F21 P3-148					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 443Y			P1-F22 P3-248					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 444A	5		SHLD A444 P1-C23					.20 .19	NO NO		 33	 BRANCH 1
A 444B	6		P3-648 SHLD A444					.19 .20	NO NO			BRANCH 7
A 444R			P1-C21 P3-448					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 444Y			P1-C22 P3-548					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 445A	5		SHLD A445 P1-B23					.20 .19	NO NO		 33	 BRANCH 1

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 91 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 445B	6		P3-346 SHLD A445					.19 .20	NO NO			BRANCH 7
A 445R			P1-B21 P3-146					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 445Y			P1-B22 P3-246					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 7
A 446	16				1.00 1.00	.75 .75				5B 5B	37 37	
A 446A	5		SHLD A446 P1-B17					.20 .19	NO NO		 33	 BRANCH 1
A 446B	5		E4 SHLD A446					.19 .20	NO NO			
A 446R			P1-B16 P4-316					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 446Y			P1-B15 P4-416					.19 .19	NO NO		34 33	BRANCH 1 BRANCH 8
A 448	9											
A 448R			P1-A31 P2-A27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 448Y			P1-B31 P2-B27					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449	9											

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 92 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 449R			P1-C31 P2-A29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 449Y			P1-D31 P2-B29					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450	9											
A 450R			P1-F31 P2-A31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 450Y			P1-G31 P2-B31					.19 .19	NO NO		34 34	BRANCH 2 BRANCH 4
A 451	2		P6-85 E18					.13 .19	NO YES		29	
A 452	4		P1-G11 P6-74					.19 .13	NO NO		34 29	BRANCH 1
A 453	4		P1-F11 P6-75					.19 .13	NO NO		34 29	BRANCH 1
A 454	4		P1-G9 P10-24					.19 .13	NO NO		34 30	BRANCH 1
A 455	4		P1-C13 P10-26					.19 .13	NO NO		34 30	BRANCH 1
A 456	4		P1-C7 P10-33					.19 .13	NO NO		34 30	BRANCH 1
A 457	4		P1-B7 P10-56					.19 .13	NO NO		34 30	BRANCH 1

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 93 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 458	4		P1-A7 P10-81					.19 .13	NO NO		34 30	BRANCH 1
A 460	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 460A	5		SHLD A460 E6					.20 .19	NO NO			
A 460B	5		E19 SHLD A460					.19 .20	YES NO			
A 460R			E44 P6-62					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 460Y			E45 P6-38					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 461	16				1.00 1.75	.75 1.50				6B 6A	37 37	
A 461A	5		SHLD A461 E6					.20 .19	NO NO			
A 461B	5		E19 SHLD A461					.19 .20	YES NO			
A 461R			E46 P6-64					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 461Y			E47 P6-39					.30 .13	NO NO		 29	BRANCH 9,LARGE END
A 462	16				1.00 1.00	.75 .75				7 5B	38 37	

SIZE A	CODE IDENT NO. 80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 94 OF 109	

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 462B	5		E6 SHLD A462					.19 .20	NO NO			
A 462R			P1-D35 E44					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 462Y			P1-F35 E45					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463	16				1.00 1.00	.75 .75				7 6B	38 37	
A 463B	5		E6 SHLD A463					.19 .20	NO NO			
A 463R			P1-D36 E46					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 463Y			P1-F36 E47					.19 .30	NO NO		34	BRANCH 2 BRANCH 9,LARGE END
A 464	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 464A	5		SHLD A464 E8					.20 .19	NO NO			
A 464B	5		E21 SHLD A464					.19 .20	YES NO			
A 464R			P4-351 P9-21					.19 .13	NO NO		34 30	BRANCH 10
A 464Y			P4-451 P9-40					.19 .13	NO NO		34 30	BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 466	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 466A	5		SHLD A466 E4					.20 .19	NO NO			
A 466B	5		E22 SHLD A466					.19 .20	YES NO			
A 466R			P4-516 P10-77					.19 .13	NO NO		34 30	BRANCH 8
A 466Y			P4-616 P10-76					.19 .13	NO NO		34 30	BRANCH 8
A 467	10											N
A 467G			P4-561 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467R			P4-559 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 467Y			P4-560 P8-G					.19 .19	NO NO		33	N, BRANCH 10
A 468	10											N
A 468G			P4-661 P8-E					.19 .19	NO NO		33	N, BRANCH 10
A 468R			P4-659 P8-E					.19 .19	NO NO		33	N, BRANCH 10

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 468Y			P4-660 P8-G					.19 .19	NO NO		33 32	N, BRANCH 10
A 469	4		P2-B8 P14-50					.19 .13	NO NO		34 30	BRANCH 3
A 471	2		P2-K4 P8-F					.19 .19	NO NO		33	BRANCH 3
A 472	9											
A 472R			P2-C8 P5-14					.19 .13	NO NO		34 29	BRANCH 3
A 472Y			P2-D8 P5-32					.19 .13	NO NO		34 29	BRANCH 3
A 474	4		P2-A8 P8-L					.19 .19	NO NO		34 32	BRANCH 3
A 475	2		P5-13					.13	NO		29 93	B
A 476	2		P5-74					.13	NO		29 93	B
A 477	15				1.00 1.75	.75 1.50				5B 6A	37 37	
A 477A	5		SHLD A477 E43					.20 .30	NO NO			LARGE END
A 477B	5		E20 SHLD A477					.19 .20	YES NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 477R			P2-H16 P7-61					.18 .13	NO NO		33 29	BRANCH 3
A 477Y			P2-G16 P7-62					.18 .13	NO NO		33 29	BRANCH 3
A 478	18				1.00 1.75	.75 1.50				5B 6A	37 37	
A 478A	5		SHLD A478 E9					.20 .19	NO NO			
A 478B	5		E21 SHLD A478					.19 .20	YES NO			
A 478G			P4-656 P9-3					.18 .13	NO NO		33 30	BRANCH 10
A 478R			P4-532 P9-2					.18 .13	NO NO		33 30	BRANCH 10
A 478Y			P4-632 P9-1					.18 .13	NO NO		33 30	BRANCH 10
A 479	4		P4-542 P6-45					.18 .13	NO NO		34 29	J, BRANCH 10
A 480	4		P4-646 P6-46					.18 .13	NO NO		34 29	J, BRANCH 10
A 481	4		P4-546 P6-70					.18 .13	NO NO		34 29	J, BRANCH 10
A 482	4		P4-539 P6-7					.18 .13	NO NO		34 29	J, BRANCH 10

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 483	4		P4-645 P6-18					.18 .13	NO NO		34 29	J, BRANCH 10
A 484	4		P4-545 P6-19					.18 .13	NO NO		34 29	J, BRANCH 10
A 485	4		P4-635 P6-23					.18 .13	NO NO		34 29	J, BRANCH 10
A 486	4		P4-644 P6-5					.18 .13	NO NO		34 29	J, BRANCH 10
A 487	4		P4-544 P6-10					.18 .13	NO NO		34 29	J, BRANCH 10
A 488	4		P4-535 P6-26					.18 .13	NO NO		34 29	J, BRANCH 10
A 489	4		P4-643 P6-11					.18 .13	NO NO		34 29	J, BRANCH 10
A 490	4		P4-543 P6-12					.18 .13	NO NO		34 29	J, BRANCH 10
A 491	4		P4-520 P9-56					.18 .13	NO NO		34 30	C, BRANCH 8
A 492	4		P4-212 P9-33					.18 .13	NO NO		34 30	C, BRANCH 8
A 493	4		P4-213 P9-55					.18 .13	NO NO		34 30	C, BRANCH 8
A 494	4		P4-553 P6-27					.18 .13	NO NO		34 29	J, BRANCH 10

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A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 99 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 495	4		P4-654 P6-50					.18 .13	NO NO		34 29	J, BRANCH 10
A 496	4		P4-554 P6-29					.18 .13	NO NO		34 29	J, BRANCH 10
A 497	4		P4-653 P6-13					.18 .13	NO NO		34 29	J, BRANCH 10
A 498	4		P4-649 P12-74					.18 .13	NO NO		34 30	F, BRANCH 9
A 499	4		P4-629 P12-49					.18 .13	NO NO		34 30	F, BRANCH 9
A 500	4		P4-529 P12-75					.18 .13	NO NO		34 30	F, BRANCH 9
A 501	4		P4-658 P12-50					.18 .13	NO NO		34 30	F, BRANCH 9
A 502	4		P4-633 P12-53					.18 .13	NO NO		34 30	F, BRANCH 9
A 503	4		P4-650 P12-54					.18 .13	NO NO		34 30	F, BRANCH 9
A 504	4		P4-648 P12-31					.18 .13	NO NO		34 30	F, BRANCH 9
A 505	4		P4-547 P12-78					.18 .13	NO NO		34 30	F, BRANCH 9
A 506	4		P4-533 P12-52					.18 .13	NO NO		34 30	F, BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 100 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 507	4		P4-630 P12-30					.18 .13	NO NO		34 30	F, BRANCH 9
A 508	4		P4-530 P12-51					.18 .13	NO NO		34 30	F, BRANCH 9
A 509	4		P4-657 P6-8					.18 .13	NO NO		34 29	J, BRANCH 10
A 510	4		P4-534 P6-20					.18 .13	NO NO		34 29	J, BRANCH 10
A 511	4		P4-537 P6-21					.18 .13	NO NO		34 29	J, BRANCH 10
A 512	4		P4-550 P6-43					.18 .13	NO NO		34 29	J, BRANCH 10
A 513	4		P4-620 P6-44					.18 .13	NO NO		34 29	J, BRANCH 10
A 514	4		P4-549 P6-68					.18 .13	NO NO		34 29	J, BRANCH 10
A 515	4		P4-548 P6-69					.18 .13	NO NO		34 29	J, BRANCH 10
A 516	4		P4-647 P6-4					.18 .13	NO NO		34 29	J, BRANCH 10
A 517	4		P4-636 P6-3					.18 .13	NO NO		34 29	J, BRANCH 10
A 518	4		P4-558 P6-1					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 101 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 519	4		P4-640 P6-2					.18 .13	NO NO		34 29	J, BRANCH 10
A 520	4		P4-639 P6-17					.18 .13	NO NO		34 29	J, BRANCH 10
A 521	4		P4-541 P6-16					.18 .13	NO NO		34 29	J, BRANCH 10
A 522	4		P4-536 P6-5					.18 .13	NO NO		34 29	J, BRANCH 10
A 523	4		P4-641 P6-6					.18 .13	NO NO		34 29	J, BRANCH 10
A 524	4		P4-540 P7-3					.18 .13	NO NO		34 29	D, BRANCH 9
A 525	4		P4-642 P7-1					.18 .13	NO NO		34 29	D, BRANCH 9
A 526	4		P4-557 P7-4					.18 .13	NO NO		34 29	D, BRANCH 9
A 527	4		P4-201 P6-67					.18 .13	NO NO		34 29	J, BRANCH 10
A 528	4		P4-301 P6-66					.18 .13	NO NO		34 29	J, BRANCH 10
A 529	4		P4-401 P6-42					.18 .13	NO NO		34 29	J, BRANCH 10
A 530	4		P4-655 P6-48					.18 .13	NO NO		34 29	J, BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 102 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 531	4		P4-555 P6-49					.18 .13	NO NO		34 29	J,BRANCH 10
A 532	4		P4-556 P6-28					.18 .13	NO NO		34 29	J,BRANCH 10
A 533	4		P4-6C2 P6-22					.18 .13	NO NU		34 29	J,BRANCH 10
A 534	4		P4-101 P6-41					.18 .13	NO NO		34 29	J,BRANCH 10
A 535	4		P4-113 P9-32					.18 .13	NO NO		34 29	C,BRANCH 8
A 536	4		P4-112 P9-16					.18 .13	NO NO		34 30	C,BRANCH 8
A 537	14				1.00 1.75	.75 1.50				58 68	37 37	
A 537A	5		SHLD A537 E43					.20 .30	NO NO			 LARGE END.
A 537B	5		P14-69 SHLD A537					.19 .20	NO NO		30	
A 537Y			P2-G18 P14-25					.18 .13	NO NO		33 30	BRANCH 4
A 539	4		P4-538 P4-637					.18 .18	NO NU		34 34	
A 540	4		P4-613 P7-66					.18 .13	NO NO		34 29	D,BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 103 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 541	4		P4-513 P7-67					.18 .13	NO NO		34 29	D,BRANCH 9
A 565	2		P8-D P8-F					.22 .22	NO NO			
A 566	2		P8-D P8-F					.22 .22	NO NO		32	
A 567	2		P8-E P8-F					.22 .22	NO NO			
A 568	2		P8-E P8-F					.22 .22	NO NO		32 32	
A 569	2		P8-H P8-M					.22 .22	NO NO			
A 570	2		P8-H P8-M					.22 .22	NO NO		32	
A 571	2		P8-J P8-M					.22 .22	NO NO			
A 572	2		P8-J P8-M					.22 .22	NO NC		32 32	
A 573	4		P4-628 P6-83					.18 .13	NO NO		34 29	J. BRANCH 10
A 574	4		P4-528 P6-59					.18 .13	NO NO		34 29	J. BRANCH 10
A 575	4		P4-626 P6-36					.18 .13	NO NO		34 29	J. BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 104 OF 109

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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 576	4		P4-526 P6-35					.18 .13	NO NO		34 29	J. BRANCH 10
A 577	4		P4-519 P6-34					.18 .13	NO NO		34 29	J. BRANCH 10
A 578	2		E43 P2-D9					.30 .18	NO NO		 33	SMALL END.
A 579	4		P4-627 P6-57					.18 .13	NO NO		34 29	J. BRANCH 10
A 580	4		P4-527 P6-33					.18 .13	NO NO		34 29	J. BRANCH 10
A 581	2		E17 SHLD A					.19 .25	YES YES			A
A 582	2		SHLD A E35					.25 .19	YES NO			A
A 583	2		E17 SHLD B					.19 .25	YES YES			B
A 584	2		SHLD B E35					.25 .19	YES NO			B
A 585	2		E35 SHLD C					.19 .25	NO YES			C
A 586	2		SHLD C E38					.25 .19	YES YES			C
A 587	2		E20 SHLD D					.19 .25	YES YES			D

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 105 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 588	2		SHLD D E37					.25 .19	YES NO			D
A 589	2		E2C SHLD E					.19 .25	YES YES			E
A 590	2		SHLD E E34					.25 .19	YES NO			E
A 591	2		E37 SHLD F					.19 .25	NO YES			F
A 592	2		SHLD F E39					.25 .19	YES YES			F
A 593	2		E36 SHLD G					.19 .25	NO YES			G
A 594	2		SHLD G E39					.25 .19	YES YES			G
A 595	2		E35 SHLD H					.19 .25	NO YES			H
A 596	2		SHLD H E38					.25 .19	YES YES			H
A 597	2		E19 SHLD J					.19 .25	YES YES			J
A 598	2		SHLD J E34					.25 .19	YES NO			J
A 599	2		E22 SHLD M					.19 .25	YES YES			M

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A	80230	6010677
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DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 600	2		SHLD M E36					.25 .19	YES NO			M
A 601	2		E34 SHLD N					.19 .25	NO YES			N
A 602	2		SHLD N E42					.25 .19	YES YES			N
A 603	2		E16 SHLD O					.19 .25	YES YES			O
A 604	2		SHLD O E37					.25 .19	YES NO			O
A 605	2		E43 SHLD P					.30 .25	NO YES			LARGE END, P
A 606	2		SHLD P E37					.25 .19	YES NO			P
A 607	2		P1-F19 SHLD Q					.18 .25	NO YES		33	Q
A 608	2		SHLD Q E34					.25 .19	YES YES			Q
A 609	16				1.00 1.75	.75 1.50				6B 5A	37 37	
A 609A	5		SHLD A609 E36					.20 .19	NO NO			
A 609B	5		E21 SHLD A609					.19 .20	YES NO			

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A	80230	6010677
SCALE-NONE	REV LTR ◆	SHEET 107 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 609R			E44 P9-52					.30 .13	NO NO		 30	BRANCH 8,LARGE END
A 609Y			E45 P9-53					.30 .13	NO NO		 30	BRANCH 8,LARGE END
A 610	16				1.00 1.75	.75 1.50				5B 6A	37 37	
A 610A	5		SHLD A610 E36					.20 .19	NO NO			
A 610B	5		E21 SHLD A610					.19 .20	YES NO			
A 610R			E46 P9-48					.30 .13	NO NO		 30	BRANCH 8,LARGE END
A 610Y			E47 P9-49					.30 .13	NO NO		 30	BRANCH 8,LARGE END
A 611	2		P4-129 E44					.19 .30	NO NO		33	SMALL END
A 612	2		P4-229 E45					.19 .30	NO NO		33	SMALL END
A 613	2		P4-128 E46					.19 .30	NO NO		33	SMALL END
A 614	2		P4-228 E47					.19 .30	NO NO		33	SMALL END

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A	80230	6010677
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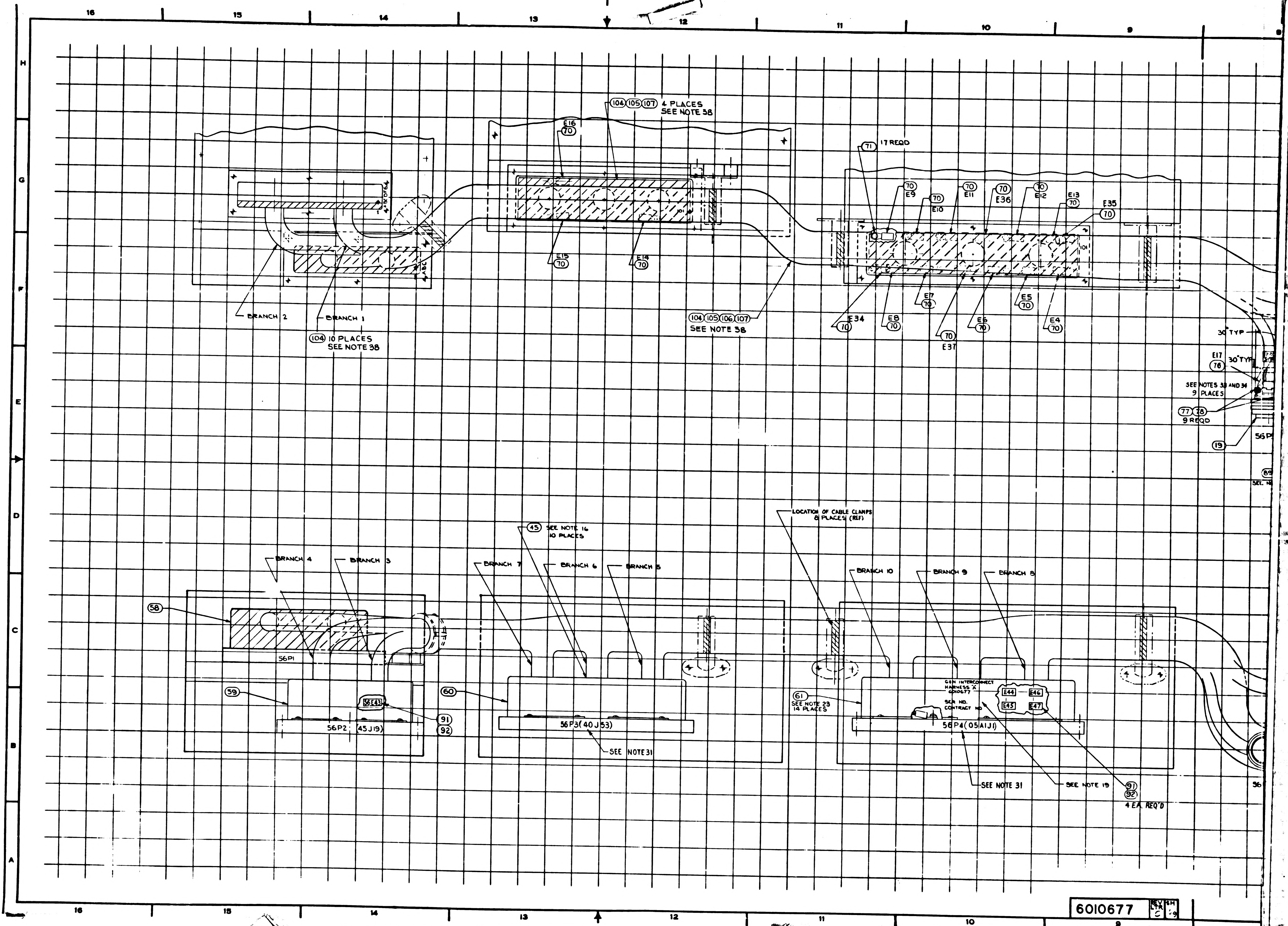
FORM 2084 REV 367

6010677



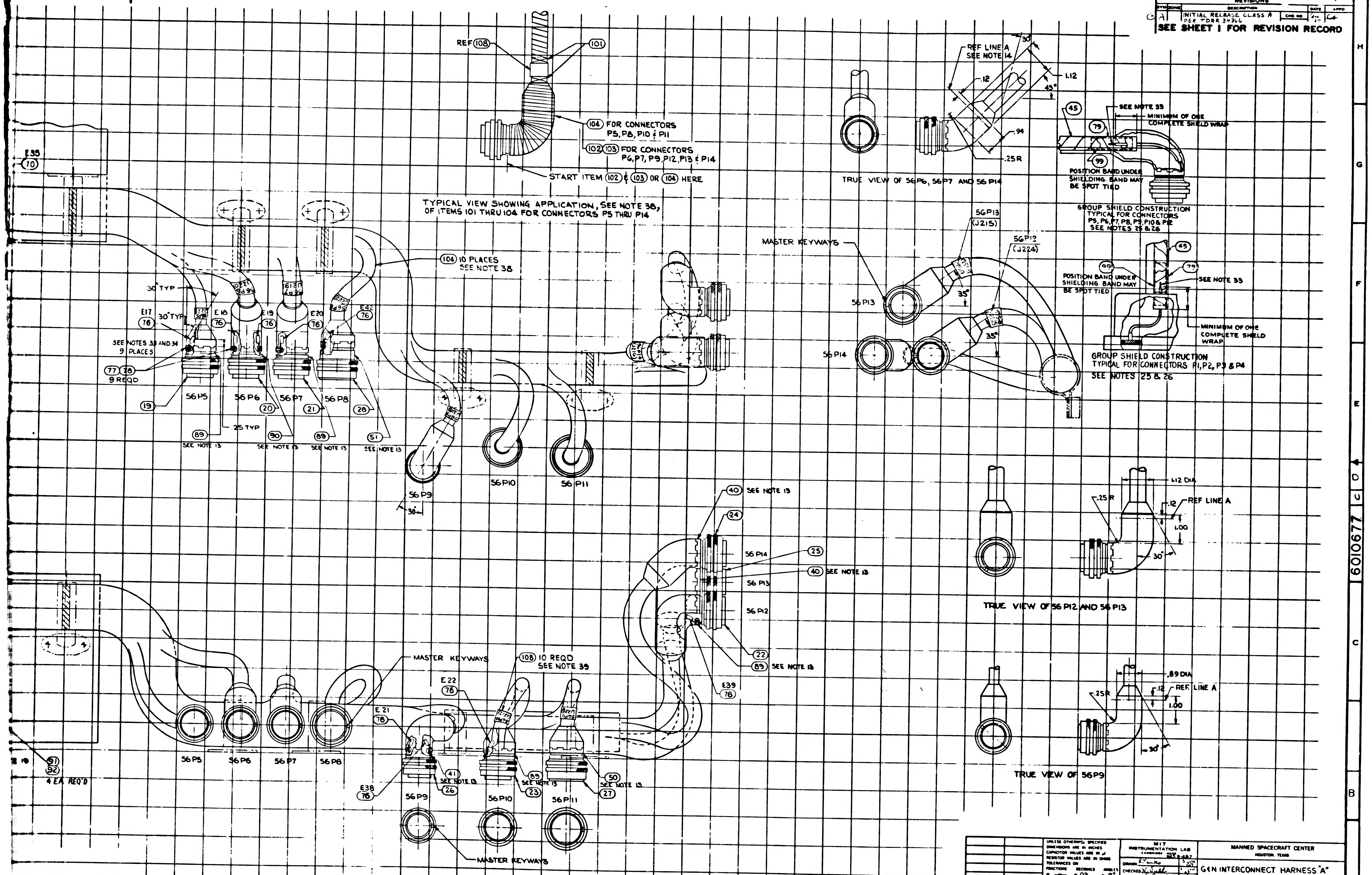
16
15
14
13
12
11
10
9
H
G
F
E
D
C
B
A
(104)(105)(107) 4 PLACES
SEE NOTE 38
E16
(70)
(71) 17 REQD
(70) E9
(70) E10
(70) E11
(70) E36
(70) E12
E13 (70)
E35 (70)
101
E15 (70)
E14 (70)
BRANCH 2
BRANCH 1
(104) 10 PLACES
SEE NOTE 38
(104)(105)(106)(107)
SEE NOTE 38
E34 (70)
E8 (70)
E17 (70)
(70) E37
E6 (70)
E5 (70)
E4 (70)
30° TYP
E17 (76)
30° TYP
SEE NOTES 33 AND 34
9 PLACES
(77)(78)
9 REQD
(19)
56P
(89)
SEE N
LOCATION OF CABLE CLAMPS
8 PLACES (REF)
(45) SEE NOTE 16
10 PLACES
BRANCH 4
BRANCH 3
BRANCH 7
BRANCH 6
BRANCH 5
BRANCH 10
BRANCH 9
BRANCH 8
(58)
56P1
(59)
56E43
56P2 (45J19)
(91)
(92)
(60)
56P3(40J53)
SEE NOTE 31
(61)
SEE NOTE 23
14 PLACES
G&N INTERCONNECT
HARNESS "A"
6010677
SER NO.
CONTRACT NO
E44
E46
E45
E47
56P4(05A1J1)
SEE NOTE 31
SEE NOTE 19
(91)
(92)
4 EA. REQ'D
56

6010677 REV LTR C SH 9

1/6010677

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		INITIAL RELEASE CLASS A PER TDRR 34366		1 Jun 67	

SEE SHEET 1 FOR REVISION RECORD



REF (108)
(101)
(104) FOR CONNECTORS P5, P8, P10 & P11
(102) (103) FOR CONNECTORS P6, P7, P9, P12, P13 & P14
START ITEM (102) & (103) OR (104) HERE
TYPICAL VIEW SHOWING APPLICATION, SEE NOTE 38, OF ITEMS 101 THRU 104 FOR CONNECTORS P5 THRU P14
E55
(10)
(104) 10 PLACES SEE NOTE 38
30° TYP
E17
(76)
30° TYP
E18
(76)
E19
(76)
E20
(76)
E42
(76)
SEE NOTES 33 AND 34 9 PLACES
(77) (78) 9 REQD
(19)
56P5
56P6
56P7
56P8
(20)
(21)
(28)
.25 TYP
(89) SEE NOTE 13
(90) SEE NOTE 13
(89) SEE NOTE 13
(51) SEE NOTE 13
56P9
30°
56P10
56P11
REF LINE A SEE NOTE 14
30°
.12
1.12
45°
.94
.25R
TRUE VIEW OF 56P6, 56P7 AND 56P14
(45)
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
(79)
(99)
POSITION BAND UNDER SHIELDING. BAND MAY BE SPOT TIED
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P5, P6, P7, P8, P9, P10 & P12 SEE NOTES 25 & 26
56P13 (J215)
56P12 (J224)
MASTER KEYWAYS
56P13
35°
35°
56P14
(45)
(99)
(79)
POSITION BAND UNDER SHIELDING BAND MAY BE SPOT TIED
SEE NOTE 33
MINIMUM OF ONE COMPLETE SHIELD WRAP
GROUP SHIELD CONSTRUCTION TYPICAL FOR CONNECTORS P1, P2, P3 & P4
SEE NOTES 25 & 26
(40) SEE NOTE 13
(24)
56P14
(25)
(40) SEE NOTE 13
56P13
56P12
(22)
(89) SEE NOTE 13
E39
(76)
1.12 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P12 AND 56P13
.89 DIA
.25R
.12
REF LINE A
1.00
30°
TRUE VIEW OF 56P9
MASTER KEYWAYS
(108) 10 REQD SEE NOTE 39
E22
(76)
E21
(78)
56P5
56P6
56P7
56P8
(91)
(92)
4 EA REQ'D
E38
(76)
(41) SEE NOTE 13
(26)
(89) SEE NOTE 13
(23)
(50) SEE NOTE 13
(27)
56P9
56P10
56P11
MASTER KEYWAYS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
CAPACITOR VALUES ARE IN µf
RESISTOR VALUES ARE IN OHMS
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ANGLES ± 2°
DO NOT SCALE THIS DRAWING

MATERIAL —

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
NAS 9-497

DRAWN K. Tanko 3 JUN 67
CHECKED W. Nudl 2 Jun 67
APPROVED J. Barta 21 Jun 67
APPROVED
APPROVED 7/11/67
APPROVED MSC 7/14/67

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INTERCONNECT HARNESS "A" (LEM)

CODE IDENT NO 80230 | SIZE J | DRAWING NO 6010677
SCALE 1/1 | SHEET 09

2/6010677

APPLICATION	
NEXT ASSY	USED ON
6014515	6014515 Ⓜ

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE CLASS A PER TDRR	18 AUG 67	26 JUN 67
B	REVISED PER TDRR 34577	21 SEP 67	
C	REVISED PER TDRR 34607	30 OCT 67	JWL J.E.G.
D	REVISED PER TDRR 35813	14 MAR 68	RAW

REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS																								
REV	D	C	A	C	A	A	B	A	A	D	A	B	A	A	A	A	A	A	A	A	A	A	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.

REFERENCE: ACSK ONLY
6010674
D066346

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

E. Tanko 13 JUN 67
DRAFTSMAN DAY MO YR
CHECKER 21 JUN 67
ENGINEER 21 JUN 67
APPROVAL
CONTR NO. NAS 9-497
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INTERCONNECT HARNESS "A" (LEM)

SIZE A CODE IDENT. NO 80230 6010677
SCALE NONE SHEET 1 OF 109

M C 1377A6 12-65

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A	84	A														
51	A	85	A														
52	A	86	A														
53	A	87	A														
54	A	88	A														
55	A	89	A														
56	A	90	A														
57	A	91	A														
58	A	92	A														
59	A	93	A														
60	A	94	A														
61	A	95	A														
62	A	96	A														
63	A	97	A														
64	A	98	A														
65	A	99	A														
66	A	100	A														
67	A	101	A														
68	A	102	A														
69	A	103	A														
70	A	104	A														
71	A	105	A														
72	A	106	A														
73	A	107	A														
74	A	108	A														
75	A	109	C														
76	A																
77	A																
78	A																
79	A																
80	A																
81	A																
82	A																
83	A																

SIZE A CODE IDENT. NO. 80230 6010677
SCALE NONE REV LTR C SHEET 2

NOTE NUMBER — GENERAL NOTES DESCRIPTION

1 SHIELD TERMINATION FIGURES ARE PER ND1002071 FOR FIGURE 6A AND 6B AND ND1002032 FOR FIGURE 7.

2 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

3 INTERCONNECT LIST FOR THIS HARNESS IS 6010671

4 PARTIAL CIRCUIT POINTS ARE SHOWN. PREFIX WITH UNIT NUMBER 56 FOR COMPLETE CIRCUIT POINT

5 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER IDENTIFIES A SHIELD LEAD, COLOR, OR MARKED LETTER.
 A- FROM END OF SHIELD
 B- TO END OF SHIELD
 G- GREEN
 K- BLACK
 L- BLUE
 N- BROWN
 R- RED
 W- WHITE
 Y- YELLOW

6 ASTERISK DENOTES LOWER CASE LETTER.

7 GRID MODULE ON PICTURE SHEET IS 1 INCH TRUE POSITION

8 UNLESS OTHERWISE SPECIFIED FEATURE CENTERLINES ON PICTURE SHEET ARE LOCATED WITHIN + OR - .25. ENDS OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN .12.

9 VENDOR ITEM-SEE SOURCE CONTROL OR SPECIFICATION CONTROL DRAWING.

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 3 OF 109	

NOTE NUMBER — GENERAL NOTES DESCRIPTION

11 ALL UNUSED CONTACT CAVITIES SHALL BE FILLED WITH SEALING PLUGS AS FOLLOWS
 CONNECTOR 56P8, USE ITEM NUMBER 36
 CONNECTOR 56P11, USE ITEM NUMBER 62
 CONNECTOR 56P5, 6, 7, 9, 10, 12, 13, AND 14 USE ITEM NUMBER 35

13 APPLY BONDING MATERIAL PER ND1002187, TYPE I, USING ITEMS 53, AND 54 TO THE THREADED PORTION OF CONNECTOR AND TO THE THREADED PORTION OF THE ADAPTER PRIOR TO ASSEMBLY.

14 ALL SHIELDED TERMINATIONS SHALL BE LOCATED BELOW REFERENCE LINE A. THERE SHALL BE NO EXPOSED CONDUCTORS OR ACCESSORIES AT THE SURFACE OF THE POTTING COMPOUND.

~~15 BEFORE LACING HARNESS, APPLY 2 TURNS OF TAPE TO INDICATE CABLE CLAMP LOCATION.~~

16 WRAP TAPE AROUND HARNESS IN AREA SHOWN, AS REQUIRED, TO BUILD UP DIAMETER TO FIT SHELL HOLE.

19 MARK CHARACTERS .12 HIGH, BLACK, PER ND1002019, SERIALIZE PER ND1002023.

20 CONTINUITY TEST PER CONDUCTOR CHART. RESISTANCE SHALL BE LESS THAN 1/2 OHM. TEST PER MIL-STD-202, METHOD 303.

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR ~~#B~~ C	SHEET 4 OF 109	

NOTE NUMBER — GENERAL NOTES DESCRIPTION

21 A. INSULATION RESISTANCE SHALL BE GREATER THAN 100 MEGOHMS WITH 500 VDC APPLIED BETWEEN
 1. THE ASSEMBLY PINS AND STRUCTURE GROUND, WITH THE EXCEPTION OF THOSE PINS ELECTRICALLY CONNECTED TO STRUCTURE GROUND AND THOSE PINS SPECIFIED IN PARA B.
 2. EACH PIN AND ALL OTHER PINS NOT ELECTRICALLY CONNECTED, INCLUDING ALL SPARE PINS.
TEST PER MIL-STD-202, METHOD 302, EXCEPT ELECTRIFICATION TIME NOT APPLICABLE. SHORT CIRCUIT CURRENT SHALL BE LIMITED TO 15 MA.

23 ENCAPSULATE BACK OF CONNECTORS PER ND1002236 USING ITEMS 46 AND 57.

24 CONDUCTORS LISTED WITH A LETTER A THROUGH Q IN THE REMARKS COLUMN ARE TO BE ASSEMBLED AS SHOWN ON THE CONFIGURATION DRAWING.

25 GROUP SHIELDING-WRAP CABLE WITH ONE CONTINUOUS LENGTH OF SHIELDING TAPE. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE, WITH A MINIMUM OF RIDGES AND FOLDS.

26 COMPLETELY COVER SHIELD WITH A MINIMUM OF TWO WRAPS OF INSULATION TAPE, ITEM 45. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE WITH A MINIMUM OF RIDGES AND FOLDS.

28 CONDUCTORS SHALL ENTER CONNECTORS 56P1,2,3, AND 4 THROUGH THE BRANCH SPECIFIED IN THE REMARKS COLUMN.

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 5 OF 109	

NOTE NUMBER — GENERAL NOTES DESCRIPTION

30 PERFORM WORKMANSHIP VIBRATION.
A. SINUSOIDAL SWEEP AT 3.5 G RMS. LIMITED TO 0.3 INCH PEAK TO PEAK DISPLACEMENT, FROM 10 TO 2000 CPS AT A RATE OF 4 OCTAVES PER MINUTE.
B. VIBRATION ALONG THE X AXIS OF THE SPACE CRAFT.
C. MONITOR FOR DISCONTINUITIES OF 10 MICRO SECONDS OR GREATER DURING VIBRATION.
D. COMPLETE CONTINUITY AND INSULATION RESISTANCE TESTING MUST BE ACCOMPLISHED AFTER VIBRATION.

31 MARK CHARACTERS .10 -.14 HIGH, BLACK, PER ND1002019. CENTRALIZE AS SHOWN

32 ASSEMBLE INSULATION SLEEVE, ITEM 93, OVER EACH ELECTRICALLY CONNECTED PIN OF CONNECTORS P1, P2, P3 AND P4. POSITION SLEEVING FLUSH TO TOP OF NYLON INSULATOR.

33 SOLDER PER ND1002071 USING ITEM 94 OR ITEMS 95 AND 96.

34 BOND TERMINAL LUG AND SCREW TO THE ADAPTER PER ND1002187, TYPE III USING ITEMS 53, 54, 97 AND 98.

35 FABRICATE HARNESS PER ND 1002032.

36 LACE HARNESS USING ITEM 101.

37 ASSEMBLE CONTACTS ITEMS 33 AND 34 INTO INSULATORS PER ND1002136.

38 COMPLETELY COVER THE HARNESS WIRING, EXPOSED PR1538 POTTING, THE TOP OF CONNECTORS P2,P3 AND P4 AND THE SIDE OF P1 WITH A MINIMUM OF TWO WRAPS OF ALUMINUM FOIL TAPE. WRAP LAYERS IN OPPOSITE DIRECTION, CLOCKWISE, COUNTER-CLOCKWISE, ETC. SUCCESSIVE TURNS SHALL OVERLAP BY APPROXIMATELY 1/2 THE WIDTH OF THE TAPE.

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR #A	SHEET 6 OF 109	

GENERAL NOTES

NOTE NUMBER	DESCRIPTION
39	MARK BAND WITH CONNECTOR REFERENCE DESIGNATION BY IMPRESSION STAMPING, .12 HIGH, CENTRALIZE AND FILL IMPRESSION WITH BLACK INK PER ND 1002019.

LEAD TOLERANCE CHART

	LEAD LG	JKT STRIP LG	SHIELD STRIP LG	LEAD CUT LG	INS STRIP LG
UNDER 3 INCHES	+ .12-.00	+.06-.06	+.06-.06	+.06-.06	+.06-.00
3 INCH TO 3 FT	+ .50-.00	+.25-.25	+.25-.25	+.25-.25	
3 FT TO 10 FT	+1.00-.00				
10 FT AND OVER	+2.00-.00				

NOTE NUMBER	DESCRIPTION
40	APPLY A SMALL AMOUNT OF EPOXY ADHESIVE, USING ITEMS 109 AND 110 PER ND 1002203, TO THE KNOTS OF ALL STARTING, FINISHING, AND SPOT TIES.

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR E	SHEET 7 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	2	1	6010677-002	WIRE PER 1010789-006, 22 AWG, YEL, 25 FT TOT LG
	3	1	6010677-003	WIRE PER 1010789-001, 24 AWG, YEL, 25 FT TOT LG
	4	1	6010677-004	WIRE PER 1010789-016, 26 AWG, YEL, 720 FT TOT LG
	5	1	6010677-005	WIRE PER 1010789-002, 24 AWG, BLK, 180 FT TOT LG
	6	1	6010677-006	WIRE PER 1010789-024, 26 AWG, BLK, 35 FT TOT LG
	7	1	6010677-007	WIRE PER 1010789-008, 22 AWG, YEL, RED, 190 FT TOT LG
	8	1	6010677-008	WIRE PER 1010789-003, 24 AWG, YEL, RED, 40 FT TOT LG
	9	1	6010677-009	WIRE PER 1010789-017, 26 AWG, YEL, RED, 160 FT TOT LG
	10	1	6010677-010	WIRE PEP 1010789-009, 22 AWG, YEL, RED, GRN, 40 FT TOT LG
	11	1	6010677-011	WIRE PER 1010789-018, 26 AWG, YEL, RED, GRN, 15 FT TOT LG
	12	1	6010677-012	WIRE PER 1010789-005, 24 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	13	1	6010677-013	WIRE PER 1010789-019, 26 AWG, YEL, RED, GRN, BRN, 10 FT TOT LG
	14	1	6010677-014	WIRE PER 1010789-011, 24 AWG, YEL, YEL JKT, 7 FT TOT LG

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 8 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	15	1	6010677-015	WIRE PER 1010789-012, 24 AWG, YEL, RED, YEL JKT, 20 FT TOT LG
	16	1	6010677-016	WIRE PER 1010789-015, 26 AWG, YEL, RED, YEL JKT, 380 FT TOT LG
	18	1	6010677-018	WIRE PER 1010789-013, 24AWG, YEL, RED, GRN, YEL JKT, 5 FT TOT LG
9	19	1	1010929-101	CONNECTOR, PLUG, ELECTRICAL (56P5)
9	20	1	1010929-102	CONNECTOR, PLUG, ELECTRICAL (56P6)
9	21	1	1010929-103	CONNECTOR, PLUG, ELECTRICAL (56P7)
9	22	1	1010929-201	CONNECTOR, PLUG, ELECTRICAL (56P12)
9	23	1	1010929-202	CONNECTOR, PLUG, ELECTRICAL (56P10)
9	24	1	1010929-203	CONNECTOR, PLUG, ELECTRICAL (56P14)
9	25	1	1010929-204	CONNECTOR, PLUG, ELECTRICAL (56P13)
9	26	1	1010929-206	CONNECTOR, PLUG, ELECTRICAL (56P9)
9	27	1	1010947-205	CONNECTOR, PLUG, ELECTRICAL (56P11)
9	28	1	1010947-101	CONNECTOR, PLUG, ELECTRICAL (56P8)
9	29	REF	1010770- 1	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010929
9	30	REF	1010770- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010929
	31	REF	1010964- 2	CONTACT SOCKET, SUPPLIED WITH CONNECTOR 1010947
9	32	REF	1010963- 4	CONTACT PIN, SUPPLIED WITH CONNECTOR 1010947

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR A	SHEET 9 OF 109

LIST OF MATERIALS

SEE NOTE NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	33	261	1010955- 1	CONTACT, MALE
9	34	605	1010955- 2	CONTACT, MALE
11	35	190	1010958- 1	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
11	36	6	1010958- 5	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
9	37	232	1010402- 2	SLEEVE, SOLDER
9	38	2	1010490-110	INSULATION, SLEEVING (HEAT SHRINKABLE)
	40	2	2014670- 4	ADAPTOR, CONNECTOR
	41	1	2014670- 15	ADAPTOR, CONNECTOR
	~~43~~	~~AR~~	~~MIL-T-23594~~	~~TAPE, TEFLON, TYPE II, 1/4 INCH WIDE~~
	45	AR	1008960-002	TAPE, TEFLON, 1 INCH WIDE
9	46	AR	1012503	COMPOUND, POTTING, POLYURETHANE
	50	1	2014670- 1	ADAPTOR, CONNECTOR
	51	1	2014670- 16	ADAPTOR, CONNECTOR
9	53	AR	1010661	EPOXY RESIN
9	54	AR	1010679	ADHESIVE, ACTIVATOR
9	57	AR	1012504	PRIMER, METAL PARTS
	58	1	6014531-021	CONNECTOR ASSY, ELECT. (56P1)
	59	1	6014532-021	CONNECTOR ASSY, ELECT. (55P2)

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR D	SHEET 10 OF 109

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
	60	1	2014741-021	CONNECTOR PLUG, ELECT.
	61	1	2014749-021	CONNECTOR PLUG, ELECT.
11	62	7	1010958- 2	PLUG, PROTECTIVE (SEE NOTES 9 AND 11)
	70	17	MS25036-52	TERMINAL LUG
9	71	17	1006783- 18	SCREW, BUTTON HD
	76	9	2021203	TERMINAL LUG, SOLDER
	77	9	MS35333-69	WASHER, LOCK
9	78	9	1006783- 93	SCREW, BUTTON HD
9	79	AR	1010989	TAPE, SHIELDING, EMI/RFI, 300 FT TOT LG
	89	4	2014670- 11	ADAPTER, CONNECTOR
	90	1	2014670- 13	ADAPTER, CONNECTOR
9	91	5	1010490-286	SLEEVING, INSULATION (HEAT SHRINKABLE)
9	92	5	1010945- 1	SPLICE-REDUCER.
9	93	866	1010490-114	INSULATION SLEEVING (HEAT SHRINK)
	94	AR	SN60WRAP	SOLDER QQ-S-571
	95	AR	SN 60 WS	SOLDER QQ-S-571
	96	AR	MIL-F-14256 TYPE A OR W	FLUX.
9	97	AR	1008822	COLORANT, EPOXY BASE

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 11 OF 109

SEE NOTE

LIST OF MATERIALS

NUMBER	ITEM	QTY	PART NO.	DESCRIPTION
9	98	AR	1006277	SILICA, PULVERIZED PYROGENIC
9	99	28	1010811-002	BAND, CABLE
9	101	AR	1008936-001	TAPE,LACING AND TYING
9	102	AR	1008937-001	TAPE, ALUMINUM FOIL
9	103	AR	1008937-002	TAPE, ALUMINUM FOIL
9	104	AR	1008937-003	TAPE, ALUMINUM FOIL
9	105	AR	1008937-005	TAPE, ALUMINUM FOIL
9	106	AR	1008937-006	TAPE, ALUMINUM FOIL
9	107	AR	1008937-007	TAPE, ALUMINUM FOIL
9	108	10	1008940-001	BAND, MARKER
9	109	AR	1010748	RESIN, EPOXY
9	110	AR	1010750	CURING AGENT, POLYAMIDE

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR B	SHEET 12 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 1	16				1.00	.75				5B	37	
					1.75	1.50				6B	37	
A 1A	5		SHLD A1					.20	NO			
			P3-340					.19	NO		33	BRANCH 6
A 1B	5		P14-6					.13	NO		30	
			SHLD A1					.20	NO			
A 1R			P3-140					.19	NO		34	BRANCH 6
			P14-17					.13	NO		30	
A 1Y			P3-240					.19	NO		34	BRANCH 6
			P14-16					.13	NO		30	
A 2	16				1.00	.75				6B	37	
					1.75	1.50				5B	37	
A 2A	5		SHLD A2					.20	NO			
			P3-640					.19	NO		33	BRANCH 6
A 2B	5		P14-15					.13	NO		30	
			SHLD A2					.20	NO			
A 2R			P3-440					.19	NO		34	BRANCH 6
			P14-5					.13	NO		30	
A 2Y			P3-540					.19	NO		34	BRANCH 6
			P14-14					.13	NO		30	
A 3	16				1.00	.75				6B	37	
					1.75	1.50				5B	37	
A 3A	6		SHLD A3					.20	NO			
			P3-341					.19	NO		33	BRANCH 6

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 13 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE. FIG	ACCESSORY ITEMS	REMARKS
A 3B	5		P14-21					.13	NO		30	
			SHLD A3					.20	NO			
A 3R			P3-141					.19	NO			BRANCH 6
			P14-8					.13	NO		30	
A 3Y			P3-241					.19	NO			BRANCH 6
			P14-20					.13	NO		30	
A 4	16				1.00	.75				5B	37	
					1.75	1.50				6B	37	
A 4A	6		SHLD A4					.20	NO			
			P3-641					.19	NO		33	BRANCH 7
A 4B	5		P14-19					.13	NO		30	
			SHLD A4					.20	NO			
A 4R			P3-441					.19	NO			BRANCH 7
			P14-7					.13	NO		30	
A 4Y			P3-541					.19	NO			BRANCH 7
			P14-18					.13	NO		30	
A 5	16				1.00	.75				5B	37	
					1.75	1.50				5B	37	
A 5A	5		SHLD A5					.20	NO			
			P3-342					.19	NO		33	BRANCH 6
A 5B	5		P14-11					.13	NO		30	
			SHLD A5					.20	NO			
A 5R			P3-142					.19	NO		34	BRANCH 6
			P14-10					.13	NO		30	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 14 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	5Y			P3-242 P14-24					.19 .13	NO NO		34 30	BRANCH 6
A	6	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	6A	5		SHLD A6 P3-642					.20 .19	NO NO		33	BRANCH 7
A	6B	5		P14-23 SHLD A6					.13 .20	NO NO		30	
A	6R			P3-442 P14-9					.19 .13	NO NO		34 30	BRANCH 7
A	6Y			P3-542 P14-22					.19 .13	NO NO		34 30	BRANCH 7
A	7	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	7A	6		SHLD A7 P3-343					.20 .19	NO NO		33	BRANCH 7
A	7B	5		P14-29 SHLD A7					.13 .20	NO NO		30	
A	7R			P3-143 P14-13					.19 .13	NO NO		30	BRANCH 7
A	7Y			P3-243 P14-28					.19 .13	NO NO		30	BRANCH 7
A	8	16				1.00 1.75	.75 1.50				6B 5B	37 37	

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	15 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	8A	6		SHLD A8 P3-643					.20 .19	NO NO		33	BRANCH 7
A	8B	5		P14-27 SHLD A8					.13 .20	NO NO		30	
A	8R			P3-443 P14-12					.19 .13	NO NO		30	BRANCH 7
A	8Y			P3-543 P14-26					.19 .13	NO NO		30	BRANCH 7
A	9	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	9A	5		SHLD A9 P3-344					.20 .19	NO NO		33	BRANCH 7
A	9B	5		P14-54 SHLD A9					.13 .20	NO NO		30	
A	9R			P3-144 P14-31					.19 .13	NO NO		34 30	BRANCH 7
A	9Y			P3-244 P14-53					.19 .13	NO NO		34 30	BRANCH 7
A	10	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	10A	5		SHLD A10 P3-644					.20 .19	NO NO		33	BRANCH 7
A	10B	5		P14-52 SHLD A10					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	16 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	10R			P3-444 P14-30					.19 .13	NO NO		34 30	BRANCH 7
A	10Y			P3-544 P14-51					.19 .13	NO NO		34 30	BRANCH 7
A	11	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A	11A	6		SHLD A11 P3-345					.20 .19	NO NO		33	BRANCH 7
A	11B	5		P14-57 SHLD A11					.13 .20	NO NO		30	
A	11R			P3-145 P14-34					.19 .13	NO NO		30	BRANCH 7
A	11Y			P3-245 P14-56					.19 .13	NO NO		30	BRANCH 7
A	12	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	12A	6		SHLD A12 P3-645					.20 .19	NO NO		33	BRANCH 7
A	12B	5		P14-33 SHLD A12					.13 .20	NO NO		30	
A	12R			P3-445 P14-32					.19 .13	NO NO		30	BRANCH 7
A	12Y			P3-545 P14-55					.19 .13	NO NO		30	BRANCH 7

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	17 OF 109

LEAD IDENT		WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM.JKT AREA NO.	STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	13	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	13A	6		SHLD A13 P3-346					.20 .19	NO NO		33	BRANCH 7
A	13B	5		P12-57 SHLD A13					.13 .20	NO NO		30	
A	13R			P3-146 P12-81					.19 .13	NO NO		30	BRANCH 7
A	13Y			P3-246 P12-56					.19 .13	NO NO		30	BRANCH 7
A	14	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	14A	6		SHLD A14 P3-646					.20 .19	NO NO		33	BRANCH 7
A	14B	5		P12-83 SHLD A14					.13 .20	NO NO		30	
A	14R			P3-446 P12-82					.19 .13	NO NO		30	BRANCH 7
A	14Y			P3-546 P12-58					.19 .13	NO NO		30	BRANCH 7
A	15	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	15A	6		SHLD A15 P3-347					.20 .19	NO NO		33	BRANCH 7

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	18 OF 109

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 15B	5		P12-17 SHLD A15					.13 .20	NO NO		30	
A 15R			P3-147 P12-16					.19 .13	NO NO		 30	BRANCH 7
A 15Y			P3-247 P12-6					.19 .13	NO NO		 30	BRANCH 7
A 16	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 16A	6		SHLD A16 P3-647					.20 .19	NO NO		 33	 BRANCH 7
A 16B	5		P12-19 SHLD A16					.13 .20	NO NO		30	
A 16R			P3-447 P12-18					.19 .13	NO NO		 30	BRANCH 7
A 16Y			P3-547 P12-36					.19 .13	NO NO		 30	BRANCH 7
A 17	16				1.00 1.75	.75 1.50				6A 6B	37 37	
A 17A	6		SHLD A17 P3-348					.20 .19	NO NO		 33	 BRANCH 7
A 17B	5		P12-59 SHLD A17					.13 .20	NO NO		30	
A 17R			P3-148 P12-84					.19 .13	NO NO		 30	BRANCH 7

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 17Y			P3-248 P12-60					.19 .13	NO NO		 30	BRANCH 7
A 18	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 18A	6		SHLD A18 P3-648					.20 .19	NO NO		 33	 BRANCH 7
A 18B	5		P12-61 SHLD A18					.13 .20	NO NO		30	
A 18R			P3-448 P12-62					.19 .13	NO NO		 30	BRANCH 7
A 18Y			P3-548 P12-38					.19 .13	NO NO		 30	BRANCH 7
A 19	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 19A	6		SHLD A19 P3-349					.20 .19	NO NO		 33	 BRANCH 7
A 19B	5		P12-20 SHLD A19					.13 .20	NO NO		30	
A 19R			P3-149 P12-21					.19 .13	NO NO		 30	BRANCH 7
A 19Y			P3-249 P12-8					.19 .13	NO NO		 30	BRANCH 7
A 20	8											

LEAD IDENT	WIRE MATL ITEM	LEAD LG.	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 20R			P2-H11 P3-428					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 20Y			P2-K11 P3-528					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21	8											
A 21R			P2-H10 P3-228					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 21Y			P2-K10 P3-328					.19 .19	NO NO		33 33	BRANCH 3 BRANCH 6
A 22	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 22A	5		SHLD A22 P2-B33					.20 .19	NO NO		 33	 BRANCH 4
A 22B	5		P3-329 SHLD A22					.19 .20	NO NO		33	BRANCH 6
A 22R			P2-B35 P3-129					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 22Y			P2-B34 P3-229					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 23A	5		SHLD A23 P2-D33					.20 .19	NO NO		 33	 BRANCH 4

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 23B	5		P3-629 SHLD A23					.19 .20	NO NO		33	BRANCH 6
A 23R			P2-D35 P3-429					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 23Y			P2-D34 P3-529					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 24A	5		SHLD A24 P2-G33					.20 .19	NO NO		 33	 BRANCH 4
A 24B	5		P3-330 SHLD A24					.19 .20	NO NO		33	BRANCH 6
A 24R			P2-G35 P3-130					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 24Y			P2-G34 P3-230					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6
A 25	16				1.00 1.00	.75 .75				5B 6B	37 37	
A 25A	5		SHLD A25 P2-C33					.20 .19	NO NO		 33	 BRANCH 4
A 25B	5		P3-630 SHLD A25					.19 .20	NO NO		33	BRANCH 6
A 25R			P2-C35 P3-430					.19 .19	NO NO		34 34	BRANCH 4 BRANCH 6

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 25Y			P2-C34					.19	NO		34	BRANCH 4
			P3-530					.19	NO		34	BRANCH 6
A 26	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 26A	5		SHLD A26					.20	NO			
			P2-F33					.19	NO		33	BRANCH 4
A 26B	5		P3-331					.19	NO		33	BRANCH 6
			SHLD A26					.20	NO			
A 26R			P2-F35					.19	NO		34	BRANCH 4
			P3-131					.19	NO		34	BRANCH 6
A 26Y			P2-F34					.19	NO		34	BRANCH 4
			P3-231					.19	NO		34	BRANCH 6
A 27	16				1.00	.75				6B	37	
					1.00	.75				5B	37	
A 27A	5		SHLD A27					.20	NO			
			P2-H33					.19	NO		33	BRANCH 4
A 27B	5		P3-631					.19	NO		33	BRANCH 6
			SHLD A27					.20	NO			
A 27R			P2-H35					.19	NO		34	BRANCH 4
			P3-431					.19	NO		34	BRANCH 6
A 27Y			P2-H34					.19	NO		34	BRANCH 4
			P3-531					.19	NO		34	BRANCH 6
A 28	16				1.00	.75				5B	37	
					1.75	1.50				6B	37	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 23 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 28A	5		SHLD A28					.20	NO			
			E15					.19	NO			
A 28B	5		P7-54					.13	NO		29	
			SHLD A28					.20	NO			
A 28R			P3-132					.19	NO			BRANCH 6
			P7-78					.13	NO		29	
A 28Y			P3-232					.19	NO			BRANCH 6
			P7-53					.13	NO		29	
A 29	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 29A	5		SHLD A29					.20	NO			
			E16					.19	NO			
A 29B	5		P7-80					.13	NO		29	
			SHLD A29					.20	NO			
A 29R			P3-432					.19	NO			BRANCH 6
			P7-79					.13	NO		29	
A 29Y			P3-532					.19	NO			BRANCH 6
			P7-55					.13	NO		29	
A 30	16				1.00	.75				6B	37	
					1.75	1.50				6B	37	
A 30A	5		SHLD A30					.20	NO			
			E15					.19	NO			
A 30B	5		P7-33					.13	NO		29	
			SHLD A30					.20	NO			

SIZE A	CODE IDENT NO 80230	6010677
SCALE-NONE	REV LTR A	SHEET 24 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 30R			P3-133					.19	NO			BRANCH 6
			P7-16					.13	NO		29	
A 30Y			P3-233					.19	NO			BRANCH 6
			P7-32					.13	NO		29	
A 31	16				1.00	.75				5B	37	
					1.75	1.50				6B	37	
A 31A	5		SHLD A31					.20	NO			
			E16					.19	NO			
A 31B	5		P7-57					.13	NO		29	
			SHLD A31					.20	NO			
A 31R			P3-433					.19	NO		34	BRANCH 6
			P7-81					.13	NO		29	
A 31Y			P3-533					.19	NO		34	BRANCH 6
			P7-56					.13	NO		29	
A 32	16				1.00	.75				6B	37	
					1.75	1.50				5B	37	
A 32A	5		SHLD A32					.20	NO			
			E15					.19	NO			
A 32B	5		P7-35					.13	NO		29	
			SHLD A32					.20	NO			
A 32R			P3-134					.19	NO		34	BRANCH 6
			P7-34					.13	NO		29	
A 32Y			P3-234					.19	NO		34	BRANCH 6
			P7-17					.13	NO		29	

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 25 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 33	2		P2-H8					.19	NO		33	BRANCH 3
			P3-136					.19	NO		33	BRANCH 6
A 34	2		P2-K8					.19	NO		33	BRANCH 3
			P3-336					.19	NO		33	BRANCH 6
A 35	4		P3-113					.19	NO		34	O, BRANCH 5
			P4-514					.19	NO		34	BRANCH 8
A 36	4		P3-612					.19	NO		34	O, BRANCH 5
			P4-314					.19	NO		34	BRANCH 8
A 37	4		P3-512					.19	NO		34	O, BRANCH 5
			P4-414					.19	NO		34	BRANCH 8
A 38	4		P3-412					.19	NO		34	O, BRANCH 5
			P4-614					.19	NO		34	BRANCH 8
A 39	4		P3-312					.19	NO		34	O, BRANCH 5
			P4-313					.19	NO		34	BRANCH 8
A 40	4		P3-112					.19	NO		34	O, BRANCH 5
			P4-412					.19	NO		34	BRANCH 8
A 41	16				1.00	.75				5B	37	
					1.00	.75				5B	37	
A 41A	5		SHLD A41					.20	NO			
			P3-111					.19	NO		33	BRANCH 5
A 41B	5		E4					.19	NO			
			SHLD A41					.20	NO			
A 41R			P3-311					.19	NO		34	BRANCH 5
			P4-515					.19	NO		34	BRANCH 8

SIZE A	CODE IDENT NO. 80230	6010677
SCALE-NONE	REV LTR A	SHEET 26 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 41Y			P3-211 P4-615					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 8
A 42	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 42A	5		SHLD A42 P3-410					.20 .19	NO NO		33	BRANCH 5
A 42B	5		E7 SHLD A42					.19 .20	NO NO			
A 42R			P3-610 P4-332					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 42Y			P3-510 P4-432					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 43A	5		SHLD A43 P3-110					.20 .19	NO NO		33	BRANCH 5
A 43B	5		E7 SHLD A43					.19 .20	NO NO			
A 43R			P3-310 P4-330					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 43Y			P3-210 P4-430					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44	16				1.00 1.00	.75 .75				6B 6B	37 37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 27 OF 109

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LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 44A	5		SHLD A44 P3-409					.20 .19	NO NO		33	BRANCH 5
A 44B	5		E6 SHLD A44					.19 .20	NO NO			
A 44R			P3-609 P4-329					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 44Y			P3-509 P4-429					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 45A	5		SHLD A45 P3-109					.20 .19	NO NO		33	BRANCH 5
A 45B	5		E6 SHLD A45					.19 .20	NO NO			
A 45R			P3-309 P4-328					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 45Y			P3-209 P4-428					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 46A	5		SHLD A46 P3-408					.20 .19	NO NO		33	BRANCH 5
A 46B	5		E7 SHLD A46					.19 .20	NO NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 28 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 46R			P3-608 P4-334					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 46Y			P3-508 P4-434					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 47A	5		SHLD A47 P3-108					.20 .19	NO NO		33	BRANCH 5
A 47B	5		E7 SHLD A47					.19 .20	NO NO			
A 47R			P3-308 P4-333					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 47Y			P3-208 P4-433					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 48A	5		SHLD A48 P3-407					.20 .19	NO NO		33	BRANCH 5
A 48B	5		E8 SHLD A48					.19 .20	NO NO			
A 48R			P3-607 P4-338					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 48Y			P3-507 P4-438					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 29 OF 109

FORM 2084 REV

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 49	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 49A	5		SHLD A49 P3-107					.20 .19	NO NO		33	BRANCH 5
A 49B	5		E8 SHLD A49					.19 .20	NO NO			
A 49R			P3-307 P4-337					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 49Y			P3-207 P4-437					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 50A	5		SHLD A50 P3-406					.20 .19	NO NO		33	BRANCH 5
A 50B	5		E7 SHLD A50					.19 .20	NO NO			
A 50R			P3-606 P4-336					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 50Y			P3-506 P4-436					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 9
A 51	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 51A	5		SHLD A51 P3-106					.20 .19	NO NO		33	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR #A	SHEET 30 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 51B	5		E7					.19	NO			
			SHLD A51					.20	NO			
A 51R			P3-306					.19	NO		34	BRANCH 5
			P4-335					.19	NO		34	BRANCH 9
A 51Y			P3-206					.19	NO		34	BRANCH 5
			P4-435					.19	NO		34	BRANCH 9
A 52	4		P3-213					.19	NO		34	O, BRANCH 5
			P4-624					.19	NO		34	BRANCH 8
A 53	4		P3-313					.19	NO		34	O, BRANCH 5
			P4-525					.19	NO		34	BRANCH 8
A 54	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 54A	5		SHLD A54					.20	NO			
			P3-405					.19	NO		33	BRANCH 5
A 54B	5		E10					.19	NO			
			SHLD A54					.20	NO			
A 54R			P3-605					.19	NO		34	BRANCH 5
			P4-146					.19	NO		34	BRANCH 10
A 54Y			P3-505					.19	NO		34	BRANCH 5
			P4-246					.19	NO		34	BRANCH 10
A 55	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 55A	5		SHLD A55					.20	NO			
			P3-105					.19	NO		33	BRANCH 5

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 31 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 55B	5		E10					.19	NO			
			SHLD A55					.20	NO			
A 55R			P3-305					.19	NO		34	BRANCH 5
			P4-145					.19	NO		34	BRANCH 10
A 55Y			P3-205					.19	NO		34	BRANCH 5
			P4-245					.19	NO		34	BRANCH 10
A 56	16				1.00	.75				5B	37	
					1.00	.75				6B	37	
A 56A	5		SHLD A56					.20	NO			
			P3-404					.19	NO		33	BRANCH 5
A 56B	5		E10					.19	NO			
			SHLD A56					.20	NO			
A 56R			P3-604					.19	NO		34	BRANCH 5
			P4-144					.19	NO		34	BRANCH 10
A 56Y			P3-504					.19	NO		34	BRANCH 5
			P4-244					.19	NO		34	BRANCH 10
A 57	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 57A	5		SHLD A57					.20	NO			
			P3-104					.19	NO		33	BRANCH 5
A 57B	5		E8					.19	NO			
			SHLD A57					.20	NO			
A 57R			P3-304					.19	NO		34	BRANCH 5
			P4-143					.19	NO		34	BRANCH 10

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 32 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 57Y			P3-204					.19	NO		34	BRANCH 5
			P4-243					.19	NO		34	BRANCH 10
A 58	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 58A	5		SHLD A58					.20	NO			
			P3-403					.19	NO		33	BRANCH 5
A 58B	5		E9					.19	NO			
			SHLD A58					.20	NO			
A 58R			P3-603					.19	NO		34	BRANCH 5
			P4-148					.19	NO		34	BRANCH 10
A 58Y			P3-503					.19	NO		34	BRANCH 5
			P4-248					.19	NO		34	BRANCH 10
A 59	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 59A	5		SHLD A59					.20	NO			
			P3-103					.19	NO		33	BRANCH 5
A 59B	5		E10					.19	NO			
			SHLD A59					.20	NO			
A 59R			P3-303					.19	NO		34	BRANCH 5
			P4-147					.19	NO		34	BRANCH 10
A 59Y			P3-203					.19	NO		34	BRANCH 5
			P4-247					.19	NO		34	BRANCH 10
A 60	16				1.00	.75				6B	37	
					1.00	.75				5B	37	

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 33 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 60A	5		SHLD A60					.20	NO			
			P3-402					.19	NO		33	BRANCH 5
A 60B	5		E9					.19	NO			
			SHLD A60					.20	NO			
A 60R			P3-602					.19	NO		34	BRANCH 5
			P4-152					.19	NO		34	BRANCH 10
A 60Y			P3-502					.19	NO		34	BRANCH 5
			P4-252					.19	NO		34	BRANCH 10
A 61	16				1.00	.75				6B	37	
					1.00	.75				6B	37	
A 61A	5		SHLD A61					.20	NO			
			P3-102					.19	NO		33	BRANCH 5
A 61B	5		E9					.19	NO			
			SHLD A61					.20	NO			
A 61R			P3-302					.19	NO		34	BRANCH 5
			P4-151					.19	NO		34	BRANCH 10
A 61Y			P3-202					.19	NO		34	BRANCH 5
			P4-251					.19	NO		34	BRANCH 10
A 62	16				1.00	.75				6B	37	
					1.00	.75				5B	37	
A 62A	5		SHLD A62					.20	NO			
			P3-401					.19	NO		33	BRANCH 5
A 62B	5		E9					.19	NO			
			SHLD A62					.20	NO			

SIZE	CODE IDENT NO.	
A	80230	6010677
SCALE-NONE	REV LTR NA	SHEET 34 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 62R			P3-601 P4-150					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 62Y			P3-501 P4-250					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63	16				1.00 1.00	.75 .75				6B 6B	37 37	
A 63A	5		SHLD A63 P3-101					.20 .19	NO NO		 33	 BRANCH 5
A 63B	5		E9 SHLD A63					.19 .20	NO NO			
A 63R			P3-301 P4-149					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 63Y			P3-201 P4-249					.19 .19	NO NO		34 34	BRANCH 5 BRANCH 10
A 64	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A 64A	6		SHLD A64 P3-649					.20 .19	NO NO		 33	 BRANCH 7
A 64B	5		P12-40 SHLD A64					.13 .20	NO NO		30	
A 64R			P3-449 P12-64					.19 .13	NO NO		 30	BRANCH 7
A 64Y			P3-549 P12-65					.19 .13	NO NO		 30	BRANCH 7

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	35 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 65	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 65A	5		SHLD A65 E14					.20 .19	NO NO			
A 65B	5		P9-26 SHLD A65					.13 .20	NO NO		30	
A 65R			P3-115 P9-46					.19 .13	NO NO		34 30	BRANCH 5
A 65Y			P3-215 P9-47					.19 .13	NO NO		34 30	BRANCH 5
A 66	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 66A	5		SHLD A66 E14					.20 .19	NO NO			
A 66B	5		P9-15 SHLD A66					.13 .20	NO NO		30	
A 66R			P3-315 P9-30					.19 .13	NO NO		34 30	BRANCH 5
A 66Y			P3-415 P9-31					.19 .13	NO NO		34 30	BRANCH 5
A 67	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 67A	5		SHLD A67 E14					.20 .19	NO NO			

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	36 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 67B	5		P9-14 SHLD A67					.13 .20	NO NO		30	
A 67R			P3-515 P9-4					.19 .13	NO NO		34 30	BRANCH 5
A 67Y			P3-615 P9-5					.19 .13	NO NO		34 30	BRANCH 5
A 68	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 68A	5		SHLD A68 E14					.20 .19	NO NO			
A 68B	5		P9-24 SHLD A68					.13 .20	NO NO		30	
A 68R			P3-116 P9-25					.19 .13	NO NO		34 30	BRANCH 5
A 68Y			P3-216 P9-11					.19 .13	NO NO		34 30	BRANCH 5
A 69	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 69A	5		SHLD A69 E14					.20 .19	NO NO			
A 69B	5		P9-51 SHLD A69					.13 .20	NO NO		30	
A 69R			P3-316 P9-29					.19 .13	NO NO		34 30	BRANCH 5

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	37 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 69Y			P3-416 P9-50					.19 .13	NO NO		34 30	BRANCH 5
A 70	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 70A	5		SHLD A70 E14					.20 .19	NO NO			
A 70B	5		P9-13 SHLD A70					.13 .20	NO NO		30	
A 70R			P3-516 P9-27					.19 .13	NO NO		34 30	BRANCH 6
A 70Y			P3-616 P9-28					.19 .13	NO NO		34 30	BRANCH 6
A 71	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 71A	5		SHLD A71 E14					.20 .19	NO NO			
A 71B	5		P9-9 SHLD A71					.13 .20	NO NO		30	
A 71R			P3-117 P9-22					.19 .13	NO NO		34 30	BRANCH 6
A 71Y			P3-217 P9-23					.19 .13	NO NO		34 30	BRANCH 6
A 72	15				1.00 1.75	.75 1.50				5B 5B	37 37	

SIZE	CODE IDENT NO.			
A	80230	6010677		
SCALE-NONE	REV LTR	#A	SHEET	38 OF 109

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	72A	5		SHLD A72 E12					.20 .19	NO NO			
A	72B	5		P13-17 SHLD A72					.13 .20	NO NO		30	
A	72R			P4-325 P13-16					.19 .13	NO NO		33 30	BRANCH 9
A	72Y			P4-425 P13-33					.19 .13	NO NO		33 30	BRANCH 9
A	73	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	73A	5		SHLD A73 E11					.20 .19	NO NO			
A	73B	5		P13-5 SHLD A73					.13 .20	NO NO		30	
A	73R			P4-139 P13-22					.19 .13	NO NO		34 30	BRANCH 9
A	73Y			P4-239 P13-21					.19 .13	NO NO		34 30	BRANCH 9
A	74	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	74A	5		SHLD A74 E11					.20 .19	NO NO			
A	74B	5		P13-24 SHLD A74					.13 .20	NO NO		30	

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR A	SHEET 39 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	74R			P4-138 P13-10					.19 .13	NO NO		34 30	BRANCH 9
A	74Y			P4-238 P13-23					.19 .13	NO NO		34 30	BRANCH 9
A	75	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	75A	5		SHLD A75 E11					.20 .19	NO NO			
A	75B	5		P13-26 SHLD A75					.13 .20	NO NO		30	
A	75R			P4-137 P13-11					.19 .13	NO NO		34 30	BRANCH 9
A	75Y			P4-237 P13-25					.19 .13	NO NO		34 30	BRANCH 9
A	76	16				1.00 1.75	.75 1.50				6B 5B	37 37	
A	76A	5		SHLD A76 E11					.20 .19	NO NO			
A	76B	5		P13-13 SHLD A76					.13 .20	NO NO		30	
A	76R			P4-136 P13-12					.19 .13	NO NO		34 30	BRANCH 9
A	76Y			P4-236 P13-27					.19 .13	NO NO		34 30	BRANCH 9

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR A	SHEET 40 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	77	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	77A	5		SHLD A77 E11					.20 .19	NO NO			
A	77B	5		P13-30 SHLD A77					.13 .20	NO NO		30	
A	77R			P4-135 P13-14					.19 .13	NO NO		34 30	BRANCH 9
A	77Y			P4-235 P13-29					.19 .13	NO NO		34 30	BRANCH 9
A	78	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A	78A	5		SHLD A78 E11					.20 .19	NO NO			
A	78B	5		P13-32 SHLD A78					.13 .20	NO NO		30	
A	78R			P4-134 P13-15					.19 .13	NO NO		34 30	BRANCH 9
A	78Y			P4-234 P13-31					.19 .13	NO NO		34 30	BRANCH 9
A	79	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A	79A	5		SHLD A79 E13					.20 .19	NO NO			

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR A	SHEET 41 OF 109	

FORM 2084 REV 367

DIEHL 062067 WIRING HARNESS A 6010677

	LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A	79B	5		P13-38 SHLD A79					.13 .20	NO NO		30	
A	79R			P4-117 P13-63					.19 .13	NO NO		34 30	BRANCH 8
A	79Y			P4-217 P13-62					.19 .13	NO NO		34 30	BRANCH 8
A	80	9											
A	80R			P1-A17 P13-81					.19 .13	NO NO		34 30	BRANCH 1
A	80Y			P1-A18 P13-56					.19 .13	NO NO		34 30	BRANCH 1
A	81	9											
A	81R			P1-A24 P13-2					.19 .13	NO NO		34 30	BRANCH 2
A	81Y			P1-B24 P13-1					.19 .13	NO NO		34 30	BRANCH 2
A	82	9											
A	82R			P1-C24 P13-3					.19 .13	NO NO		34 30	BRANCH 2
A	82Y			P1-D24 P13-4					.19 .13	NO NO		34 30	BRANCH 2

SIZE	CODE IDENT NO.		
A	80230	6010677	
SCALE-NONE	REV LTR A	SHEET 42 OF 109	

FORM 2084 REV 367

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 83	9											
A 83R			P1-F24 P13-5					.19 .13	NO NO		34 30	BRANCH 2
A 83Y			P1-G24 P13-6					.19 .13	NO NO		34 30	BRANCH 2
A 84	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A 84A	5		SHLD A84 E12					.20 .19	NO NO			
A 84B	5		P13-36 SHLD A84					.13 .20	NO NO		30	
A 84R			P4-327 P13-18					.19 .13	NO NO		33 30	BRANCH 9
A 84Y			P4-427 P13-35					.19 .13	NO NO		33 30	BRANCH 9
A 85	15				1.00 1.75	.75 1.50				6B 6B	37 37	
A 85A	5		SHLD A85 E12					.20 .19	NO NO			
A 85B	5		P13-20 SHLD A85					.13 .20	NO NO		30	
A 85R			P4-326 P13-19					.19 .13	NO NO		33 30	BRANCH 9

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 85Y			P4-426 P13-37					.19 .13	NO NO		33 30	BRANCH 9
A 86	8											
A 86R			P1-G25 P13-85					.19 .13	NO NO		33 30	BRANCH 2
A 86Y			P1-F25 P13-61					.19 .13	NO NO		33 30	BRANCH 2
A 87	8											
A 87R			P1-G26 P13-84					.19 .13	NO NO		33 30	BRANCH 2
A 87Y			P1-F26 P13-59					.19 .13	NO NO		33 30	BRANCH 2
A 88	8											
A 88R			P1-G27 P13-82					.19 .13	NO NO		33 30	BRANCH 2
A 88Y			P1-F27 P13-58					.19 .13	NO NO		33 30	BRANCH 2
A 89	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 89A	5		SHLD A89 E5					.20 .19	NO NO			

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 89B	5		P13-42 SHLD A89					.13 .20	NO NO		30	
A 89R			P4-317 P13-41					.19 .13	NO NO		34 30	BRANCH 8
A 89Y			P4-417 P13-66					.19 .13	NO NO		34 30	BRANCH 8
A 90	16				1.00 1.75	.75 1.50				5B 5B	37 37	
A 90A	5		SHLD A90 E5					.20 .19	NO NO			
A 90B	5		P13-71 SHLD A90					.13 .20	NO NO		30	
A 90R			P4-320 P13-46					.19 .13	NO NO		34 30	BRANCH 8
A 90Y			P4-420 P13-70					.19 .13	NO NO		34 30	BRANCH 8
A 91	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 91A	5		SHLD A91 E5					.20 .19	NO NO			
A 91B	5		P13-47 SHLD A91					.13 .20	NO NO		30	
A 91R			P4-321 P13-72					.19 .13	NO NO		34 30	BRANCH 8

LEAD IDENT	WIRE MATL ITEM	LEAD LG	CIRCUIT PT FROM (A) TO (B)	TERM. AREA NO.	JKT STRIP LG	SHLD STRIP LG	LEAD CUT LG	INS STRIP LG	TIN	NOTE ONE, FIG	ACCESSORY ITEMS	REMARKS
A 91Y			P4-421 P13-48					.19 .13	NO NO		34 30	BRANCH 8
A 92	16				1.00 1.75	.75 1.50				5B 6B	37 37	
A 92A	5		SHLD A92 E13					.20 .19	NO NO			
A 92B	5		P13-80 SHLD A92					.13 .20	NO NO		30	
A 92R			P4-118 P13-55					.19 .13	NO NO		34 30	BRANCH 8
A 92Y			P4-218 P13-79					.19 .13	NO NO		34 30	BRANCH 8
A 93	16				1.00 1.75	.75 1.50				6B 6B	37 37	
A 93A	5		SHLD A93 E13					.20 .19	NO NO			
A 93B	5		P13-40 SHLD A93					.13 .20	NO NO		30	
A 93R			P4-119 P13-64					.19 .13	NO NO		34 30	BRANCH 8
A 93Y			P4-219 P13-65					.19 .13	NO NO		34 30	BRANCH 8
A 94	16				1.00 1.75	.75 1.50				6B 6B	37 37	